The Year Book
2016
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INTRODUCTION

The Indian National Science Academy was established in January 1935 with the object of promoting science in India and harnessing scientific knowledge for the cause of humanity and national welfare. The foundation of the Academy, earlier known as the National Institute of Sciences of India (NISI), was the outcome of joint endeavours of several organizations and individuals and the Indian Science Congress Association (ISCA) playing a leading role in this regard.

Towards the end of 1930, the then Government of India wrote to various State (then provincial) Governments, Scientific Departments, Learned Societies, Universities and the ISCA seeking their opinion on the desirability of forming a National Research Council which would adhere to and cooperate with the International Research Council and its affiliated Unions. This period witnessed the visit of Sir Richard Gregor, the Editor of Nature for discussions with the Editor of Current Science for the promotion of an Indian Academy of Sciences. The proposal was considered by various eminent scientists whose views regarding the composition and functioning of such a national council were put up in the form of resolution to the ISCA during its Pune Session. A special meeting of ISCA was held in Mumbai in January 1934 to consider the scheme. In response to the plea made by the President of the ISCA, Professor MN Saha in support of an Indian Academy of Sciences on the model of the Royal Society, London, the General Committee of the ISCA unanimously accepted the proposal for the formation of a national scientific society. The Committee formed an ‘Academy Committee’, which was requested to submit a detailed report for consideration at the next session of the ISCA. The committee submitted the report in January 1935 incorporating (i) the aims and objects of the national scientific society to be formed; (ii) draft constitution; (iii) names of 125 Foundation Fellows selected by a Special Committee of Specialists; and (iv) names of 25 scientists as members of the provisional Council of Academy. The report of the Academy Committee was placed by Dr LL Fermor (President, 22nd Session, ISCA) before a Special Meeting of the Joint Committee on January 3, 1935. The recommendations of the Academy Committee were accepted by unanimous resolution by the ISCA and the foundation of the National Institute of Sciences of India as an all India body of scientists was thus laid. An inaugural meeting of the National Institute of Sciences of India (NISI) was held on January 7, 1935 under the Chairmanship of Dr JH Hutton (President, 23rd Session, ISCA) in Calcutta, and the Inaugural Address was delivered by the first President of NISI, Dr LL Fermor. The Institute, thus, started functioning with its Headquarters at the Asiatic Society of Bengal, 1 Park Street, Calcutta, from that day.

The issue of the Government recognizing the NISI as the representative body of the scientists was taken up after ten years of its foundation. After due deliberations and discussions, it decided to recognise the National Institute as the premier scientific society representing all branches of science in India in October 1945. The Headquarters moved over to Delhi in May 1946, and the Government commenced providing increased grants to meet expenses on travel, publications, research fellowships, and for allocating grants-in-aid to other scientific societies for bringing out their publications. A capital grant for the Headquarters building
was also sanctioned in 1948 by the Government. The foundation stone of the building was laid by Pt Jawaharlal Nehru, the then Prime Minister of India, on April 19, 1948. The Office of the NISI moved to its present premises on Bahadur Shah Zafar Marg, New Delhi in 1951. It was designated as the adhering organization in India to the International Council for Science (ICSU) on behalf of the Government of India in January 1968.

The name of the National Institute of Sciences of India was changed to the Indian National Science Academy (INSA) in February 1970.

OBJECTIVES

(a) Promotion of scientific knowledge in India including its practical application to problems of national welfare.

(b) Coordination among Scientific Academies, Societies, Institutions, Government Scientific Departments and Services.

(c) To act as a body of scientists of eminence for the promotion and safeguarding of the interests of scientists in India and to present internationally the scientific work done in the country.

(d) To act through properly constituted National Committees, in which other learned academies and societies may be associated, for undertaking scientific work of national and international importance which the Academy may be called upon to perform by the public and by the Government.

(e) To publish such proceedings, journals, memoirs and other publications as may be found desirable.

(f) To promote and maintain liaison between Science and Humanities.

(g) To secure and manage funds and endowments for the promotion of Science.

(h) To perform all other acts that may assist in, or be necessary for the fulfillment of the above-mentioned objectives of the Academy.
## CALENDAR OF MEETINGS-2016

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<th>Event</th>
<th>Venue</th>
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<td>10 (Wed)</td>
<td>Advisory Committee for Science &amp; Society/ Publication Advisory Board/ Infrastructure and Informatics Committee</td>
<td>INSA, New Delhi</td>
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<td>28 (Sun)</td>
<td>National Science Day</td>
<td>INSA, New Delhi</td>
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<td>JULY</td>
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<td>26-29 (Tue-Fri)</td>
<td>Meetings: Sectional Committees for Election of Fellows and Selection of Young Scientists/Advisory Boards for INSA Awards/Council Meeting/General Body Meeting/ICSU/Science Promotion Committee</td>
<td>INSA, New Delhi</td>
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<td>SEPTEMBER</td>
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<td>3 (Sat)</td>
<td>Science Promotion Committee/ Resource Management Committee</td>
<td>INSA, New Delhi</td>
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<td>OCTOBER</td>
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<td>17-19 (Mon-Wed)</td>
<td>History of Science Seminar/National Commission Meeting for History of Science/ Council Meeting/Annual General Meeting</td>
<td>Venue to be decided</td>
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<tr>
<td>24 (Mon)</td>
<td>Meeting: Inter-Academy Exchange Committee</td>
<td>INSA, New Delhi</td>
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<td>DECEMBER</td>
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<td>28-30 (Wed-Fri)</td>
<td>Seminar/Lectures Meetings: INSA Council/Anniversary General Meeting/Fellowship Induction Ceremony/INSA Young Scientists Medal Presentation/INSA Teachers Award Presentation</td>
<td>Venue to be decided</td>
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Other Important Dates

Last date for nominations to:

JUNE
15 (Wed) INSA Senior Scientists Position (2017)

AUGUST
16 (Tue) Inter-Academy Exchange Programme

OCTOBER
17 (Mon) Fellows/Foreign Fellows/Pravasi Fellows Election/
          INSA Awards due in 2017

OCTOBER
31 (Mon) INSA Medal for Young Scientists (2017)
COUNCIL

President
Professor Raghavendra Gadagkar (Bengaluru) (080) 2360-1429, 2293-2340 (O), 2308-9677 (R)

Vice-Presidents
Professor Kankan Bhattacharyya (Kolkata) (033) 2473-4971 Ext 1450/1461 (O), 2436-4457 (R), 94-330-71155 (M)
Professor SC Lakhotia (Varanasi) (0542) 236-8145, 670-1827 (Lab), 231-2012 (R), 94-530-48657 (M)
Professor JP Mittal (Mumbai) (022) 2559-5245 (D), 2559-5246 (O), 2766-4282, 2766-1035 (R), 98-699-92912 (M)
Professor Rajendra Prasad (Gurgaon) (0124) 233-7015 Ext 1111 (O), 257-3443 (R)
Professor R Ramaswamy (New Delhi) (011) 2673-8964 (O), 2674-1109 (R), 78-930-93737 (M)
Dr Chandrima Shaha (New Delhi) (011) 2671-7102/103 (O), 2674-2528, 2674-2480 (R), 99-584-20001 (M)

Members
Professor Manindra Agrawal (Kanpur) (0512) 259-7338 (O), 259-8363 (R), 99-350-62605 (M)
Professor US Bhalla (Bengaluru) (080) 2366-6130 (O) 99-690-66626 (M)
Professor VS Borkar (Mumbai) (080) 2366-6130 (O)
Professor Subhasis Chaudhuri (Mumbai) (022) 2559-5245 (D), 2559-5246 (O), 2766-4282, 2766-1035 (R), 98-699-92912 (M)
Dr VS Chauhan (New Delhi) (011) 2673-8964 (O), 2674-1109 (R), 78-930-93737 (M)
Dr SK Ghosh (Mumbai) (022) 2559-5245 (D), 2559-5246 (O), 2766-4282, 2766-1035 (R), 98-699-92912 (M)
Professor Rajesh Gopakumar (Bengaluru) (080) 2369-1708, 2360-8205 (O)
Professor Nibir Mandal (Kolkata) (033) 2414-6666 Ext 2364 (O), 2462-6528 (R)
Professor Deepak Mathur (Mumbai) (022) 2278-2736 (O), 2362-6287 (R)
Professor IBS Passi (Chandigarh) (0172) 466-8381 (O), 98-724-48638 (M)
Professor KN Pathak (Chandigarh) (0172) 253-4468 (O), 269-9944 (R)
Professor R Ramesh (Ahmedabad) (079) 2631-4265 (O), 2676-3980 (R)
Dr AJ Rao (Bengaluru) (080) 2293-2308, 2360-8660 (O), 2650-7124 (R)
Professor Ashutosh Sharma (New Delhi) (011) 2651-1439 (O)
Professor LS Shashidhara (Pune) (020) 2590-8001 (O), 98-234-32303 (M)
Professor VK Singh (Bhopal) (0755) 669-2316 (O), 669-2400 (R), 99-811-44455 (M)
Professor BK Thelma (Delhi) (011) 2411-8201, 2411-7399 (O), 2411-3548 (R)
Professor SP Trivedi (Mumbai) (022) 2278-2424 (O), 98-672-22878 (M)
Professor JS Tyagi (New Delhi) (011) 2658-8491 (O), 2659-4544 (R), 98-104-09761 (M)
Professor K Veluthambi (Madurai) (0452) 245-8683 (O), 245-8458 (R), 94-439-27365 (M)

Representatives of Cooperating Academies and Government of India

The Asiatic Society
Professor BC Sinha (Kolkata) (033) 2337-0032, 2337-1230 (O), 2475-2206, 2475-9927 (R)

The Indian Science Congress Association
Dr SS Katiyar (Kanpur) (0512) 255-5136, 255-4544 (R)

The National Academy of Sciences (India)
Professor Paramjit Khurana (New Delhi) (011) 2411-5096 (O), 2411-9090 (R), 97-110-06512 (M)

Government of India (Department of Science and Technology)
Dr Indranil Manna (Kanpur) (0512) 259-7258, 259-0768 (O), 259-8810, 259-8820 (R)
PAST PRESIDENTS

Sir Lewis Leigh Fermor 1935-36
Professor Meghnad Saha 1937-38
Lt Col Ram Nath Chopra 1939-40
Dr Baini Prasad 1941-42
Dr Jnan Chandra Ghosh 1943-44
Dr Darashaw Nosherwanji Wadia 1945-46
Dr Shanti Swarup Bhatnagar 1947-48
Professor Satyendra Nath Bose 1949-50
Dr Sunder Lal Hora 1951-52
Professor Kariamanikkam Srinivasa Krishnan 1953-54
Dr Amulya Chandra Ukil 1955-56
Professor Prasanta Chandra Mahalanobis 1957-58
Professor Sisir Kumar Mitra 1959-60
Dr Ajudhia Nath Khosla 1961-62
Dr Homi Jehangir Bhabha 1963-64
Professor Vasant Ramji Khanolkar 1965-66
Professor Tiruvenkata Rajendra Seshadri 1967-68
Dr Atma Ram 1969-70
Professor Bagepalli Ramachandrachar Seshachar 1971-72
Professor Daulat Singh Kothari 1973-74
Dr Benjamin Peary Pal 1975-76
Dr Raja Ramanna 1977-78
Dr Vulimiri Ramalingaswami 1979-80
Professor Mambillikalathil Govind Kumar Menon 1981-82
Professor Arun Kumar Sharma 1983-84
Professor Chintamani Nagesa Ramachandra Rao 1985-86
Professor Autar Singh Paintal 1987-88
Professor Man Mohan Sharma 1989-90
Professor Prakash Narain Tandon 1991-92
Professor Shri Krishna Joshi 1993-95
Dr Srinivasan Varadarajan 1996-98
Professor Goverdhan Mehta 1999-2001
Professor Marthanda Varma Sankaran Valiathan 2002-04
Dr Raghunath Anant Mashelkar 2005-07
Professor Mamannamana Vijayan 2008-10
Professor Krishan Lal 2011-13
**RECENT PAST VICE-PRESIDENTS**

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<tr>
<td>Professor Arumugham Gnanam</td>
<td>1994-96</td>
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<tr>
<td>Professor Goverdhan Mehta</td>
<td>1995-97</td>
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<tr>
<td>Professor Marthanda Varma Sankaran Valiathan</td>
<td>1997-99</td>
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<tr>
<td>Professor Dipankar Chakravorty</td>
<td>1998-2000</td>
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<tr>
<td>Professor Sushanta Dattagupta</td>
<td>2000</td>
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<tr>
<td>Professor Maroli Krishnayya Chandrashekaran</td>
<td>2000</td>
</tr>
<tr>
<td>Professor Ramesh Chand Mahajan</td>
<td>2000-01</td>
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<tr>
<td>Professor Janardan Nanda</td>
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<tr>
<td>Dr Harsh Kumar Gupta</td>
<td>2001</td>
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<tr>
<td>Professor Varadachari Krishnan</td>
<td>2000-02</td>
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<tr>
<td>Professor Chhit Mal Gupta</td>
<td>2002</td>
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<tr>
<td>Professor Tiruppattur Venkatachalamburti Ramakrishnan</td>
<td>2001-03</td>
</tr>
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<td>Professor Mohammad Shamim Jairajpuri</td>
<td>2001-03</td>
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<tr>
<td>Professor Samir Bhattacharya</td>
<td>2003</td>
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<tr>
<td>Dr Inder Pal Abrol</td>
<td>2002-04</td>
</tr>
<tr>
<td>Professor Surendra Prasad</td>
<td>2002-04</td>
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<tr>
<td>Professor Raghavendra Gadagkar</td>
<td>2003-05</td>
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<tr>
<td>Professor Rajinder Jeet Hans-Gill</td>
<td>2004-05</td>
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<tr>
<td>Professor Sudhir Kumar Sopory</td>
<td>2004-06</td>
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<tr>
<td>Dr Swaminathan Sivaram</td>
<td>2004-06</td>
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<tr>
<td>Professor Subhash Chandra Lakhotia</td>
<td>2006</td>
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<tr>
<td>Professor Mamannamana Vijayan</td>
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<tr>
<td>Professor Anupam Varma</td>
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<tr>
<td>Professor Narayanaswamy Balakrishnan</td>
<td>2006-08</td>
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<td>Professor Alok Krishna Gupta</td>
<td>2007-09</td>
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<td>Professor Predhiman Krishan Kaw</td>
<td>2007-09</td>
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<td>Professor Tej Pal Singh</td>
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<tr>
<td>Professor Narinder Kumar Gupta</td>
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<tr>
<td>Professor Ajay Kumar Sood</td>
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<tr>
<td>Dr Mahtab S Bamji</td>
<td>2009-11</td>
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<tr>
<td>Professor Akhilesh K Tyagi</td>
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<tr>
<td>Professor Ramamurti Rajaraman</td>
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<td>Professor Narayanasami Sathyamurthy</td>
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<td>Professor Alok Bhattacharya</td>
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<td>Professor ML Munjal</td>
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<td>Professor SS Agarwal</td>
<td>2012-13</td>
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<td>Professor SK Saidapur</td>
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<td>Professor JP Khurana</td>
<td>2014</td>
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<td>Professor MK Chaudhuri</td>
<td>2013-15</td>
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<tr>
<td>Dr DM Salunke</td>
<td>2013-15</td>
</tr>
</tbody>
</table>
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Executive Director

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Dr S Aggarwal (off ext 333)
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Advisor

Shri M Narayan (off ext 335)
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Assistant Executive Director-II

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icsu@insa.nic.in

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THE FELLOWSHIP

FELLOWS 2016

1986: ABROL, Inder Pal (b 1939), PhD, Sp: Soil Science, Sustainable Agriculture, Research Management; FNASc, Director, Centre for Advancement of Sustainable Agriculture (CASA), National Agricultural Science Complex (NASC), DPS Marg, New Delhi 110012; A34/2, DLF City, Phase I, Gurgaon 122001 [Tel (011) 2584-8188, 2584-6880 (O), (0124) 235-8755, 235-4267 (R); Fax (011) 2584-6880; Email abrolip@gmail.com; Web http://www.agricasa.org.in]; Council: Mem 1994-96; VP 2002-04; SC: XII.

1986: ABROL, Yash Pal (b 1935), PhD, Sp: Agricultural/Environmental Sciences; FASc, FNASc, FNAAS, INSA Honorary Scientist, Adjunct Professor, President, Indian Nitrogen Group (SCON) F4, A Block, NASC Complex, DPS Marg, New Delhi 110029; 202 Abhinandan, Sector 51, Near Artemis Hospital, Gurgaon 122002 Haryana [Tel (011) 2584-3842, 2584-2110 (O), (0124) 257-6165 (R), 98-100-32162 (M); Email ypabrol@gmail.com]; SC: VII.

2010: ACHARYA, Subrat Kumar (b 1951), MBBS, MD, DM, Sp: Gastroenterology, Hepatology; FASc, FNASc, Professor and Head, Department of Gastroenterology, RNo 3105, Teaching Block, All India Institute of Medical Sciences, Ansari Nagar, New Delhi 110029; CII-5, Ansari Nagar, New Delhi 110029 [Tel (011) 2659-4934, 2658-9130 (O), 2658-8460 (R), 98-107-53779 (M); Fax 2658-8641, 2658-8663; Email subratacharya2004@yahoo.com, subratacharya@gmail.com]; SC: XI.

2003: ADHYA, Samit (b 1953), PhD (US), Sp: Molecular Biology; FASc, Oustanding Scientist, CSIR-Indian Institute of Chemical Biology, 4, Raja SC Mullick Road, Kolkata 700032; 74/A, Park Street, Kolkata 700017 [Tel (033) 2499-5736 (O), 2280-0123 (R); Email sadhya@iicb.res.in]; SC: X.

2008: ADHYA, Tapan Kumar (b 1949), PhD, Sp: Environmental Microbiology; FNASc, FNAAS, INSA Senior Scientist, Professor, School of Biotechnology, KIIT University, Bhubaneswar 751024, Odisha [Tel (0674) 272-5466 (O), 94-373-04299, 99-107-59627 (M); Fax 272-5732; Email adhyas@yahoo.com, tkadhya@aol.in]; Medal: Professor KS Bilgrami Memorial (2012); SC: XII.

1998: ADIMURTHI, Adi (b 1952), PhD, Sp: Partial Differential Equations; FASc, FNASc, Professor (I), TIFR CAM, PB 6503, Sharadanagar, Chikkabommasandra, Bengaluru 560065; Flat No. 2, Sree Gurunivas Apartments, 23-24, First Main Road, Amariyothi Layout, Sanjay Nagar, Bengaluru 560094 [Tel (080) 6695-3742, 2360-0138 (O), 2341-1505 (R); Fax 6695-3799; Email aditi@math.tifrbng.res.in]; SC: I.
1985 : AGARWAL, Girish Saran (b 1946), PhD, DSc (hc), Sp: Quantum Optics, Laser Physics, Statistical Mechanics, Plasmonics; FASc, FNASc, FTWAS, FRS, Noble Foundation Chair and Regents’ Professor, Department of Physics, Oklahoma State University, Stillwater, OK 74078 (USA), formerly Director and Distinguished Scientist, PRL, Ahmedabad [Tel (405) 744-3862 (O), 405-714-1566 (M), Fax 405-744-6811, Email girish.agarwal@okstate.edu]; Professorship: INSA-Albert Einstein Centenary Research Professor (2001-05); Lecture: JL Nehru Birth Centenary (2000); Council: Mem 1996-98, Ad Mem 2003, VP 2004; SC: II.

1994 : AGARWAL, Kailash Nath (b 1937), DCH, MD (Sweden), MD, Sp: Pediatrics-Nutrition, Growth & Development; FAMS, Scientist, President, Health Care & Research Association for Adolescents; formerly Professor Pediatrics, Univ College of Medical Sciences & GTBH, Delhi 110095; D-115, Sector 36, Gautam Buddha Nagar, Noida 201301, UP [Tel 98-112-00603 (M); Email adolcare@hotmail.com]; Medal: Professor KP Bhargava Memorial (2014); SC: XI.

1988 : AGRAWAL, Bal Krishna (b 1939), DPhil, DSc, Sp: Condensed Matter Physics, Nanostructures and Superconductivity; FNASc, INSA Honorary Scientist, formerly Head, Department of Physics, Allahabad University, Allahabad 211002; 15-D, Bank Road, Allahabad 211002 [Tel (0532) 246-1316 (O), 324-8465 (R), 94-153-06814 (M); Fax: 246-1316; Email balkagr@rediffmail.com, balkagr@yahoo.co.in]; SC: II.

2008: AGRAWAL, Manindra (b 1966), PhD, Sp: Theory of Computation; FASc, FNASC, FNAE, FTWAS, N Rama Rao Chair Professor, Department of Computer Science, Indian Institute of Technology, Kanpur 208016; H.No. 622, IIT Campus, Kanpur 208016 [Tel (0512) 259-7338 (O), 259-8363 (R), 99-350-62605 (M); Email manindra@iitk.ac.in; Web http://www.cse.iitk/users/manindra.ac.in]; Council: Mem 2016-; SC: I.

1980 : AGARWALA, Umesh Chandra (b 1930), PhD, Sp: Inorganic Chemistry; FNASC, formerly Professor & Head, Chemistry Department, IIT, Kanpur; 295 A, Block C-1, Indira Nagar, Kanpur 208026 [Tel (0512) 250-748 (R)]; Council: Mem 1984-86; SC: III.

2010 : AGREWALA, Javed Naim (b 1961) PhD, Sp: Immunology, Tuberculosis; FNASC, Chief Scientist, Immunology Laboratory, CSIR-Institute of Microbial Technology, Sector 39-A, Chandigarh 160036; Professor, CSIR-Academy of Scientific & Innovative Research, New Delhi 110001; H.No. E14, IMTECH Housing, Sector 39-A, Chandigarh 110036 [Tel (0172) 666-5261 (O), 666-5262 (Lab), 94-178-69408 (M); Fax 269-0632, 269-0585; Email javed@imtech.res.in, jagrewala@gmail.com; Web http://imtech.res.in]; SC: XI.

1984 : AHLUWALIA, Jagdish Chander (b 1935), PhD, Sp: Physical Chemistry, Thermodynamics & Biopolymers; FASc, formerly Professor, Department of Chemistry, Indian Institute of Technology Delhi, New Delhi; 186, SFS Apts, Hauz Khas, New Delhi 110016 [Tel (011) 2656-4519 (R), 92-137-36359 (M); Email jahluwalia@yahoo.in]; INSA Senior Scientist (1996-2001); Council: Sec 1991-93; SC: III.
2008 : AHMAD, Faizan (b 1949), PhD, Sp: Biophysical Chemistry and Biochemistry; FNAsC, Professor, Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, Jamia Nagar, New Delhi 110025; 181/210 Ghaffar Manzil Extension, Lane No. 5, Jamia Nagar, New Delhi 110025 [Tel (011) 2632-1733 (O), 2692-0954 (R), 98-104-13115 (M); Email faizan.ahmad.jmi@gmail.com; Web http://www.jmi.ac.in/cirbs/faculty-members/Dr_Faizan_Ahmad-1631]; SC: X.

2011 : AHMAD, Talat (b 1955), PhD, Sp: Igneous Petrology-Geochemistry & Himalayan Geology; FAsC, FNAsC, JC Bose National Fellow, Vice-Chancellor, Jamia Millia Islamia, Jamia Nagar, New Delhi110025 [Tel (011) 2698-4650, 2698-5180 (O), 2631-6289 (R), 70-423-11499 (M); Fax 2698-1232; Email tahmad@jmi.ac.in, tahmad001@yahoo.co.in, tahmad001@gmail.com]; SC: IV.

2013 : AHUJA, Paramvir Singh (b 1952), PhD, DSc (hc), Sp: Plant Improvement; FNAsC, FNAAS, Adjunct Professor, JC Bose National Fellow, Indian Institute of Science Education and Research, Knowledge City, Sector 81, SAS Nagar, Manauli PO 140306; 1636 Phase 3B2, Sector 60, SAS Nagar, Mohali 160059 [Tel (0172) 401-0328 (R), 94-180-30411 (M); Email paramvir.ahuja@gmail.com, psahuja@iisermohali.ac.in]; SC: VII.

2013 : AJAYAGHOSH, Ayyappanpillai (b 1962), PhD, Sp: Organic (Materials) Chemistry; FAsC, FNAsC, FTWAS, CSIR-Outstanding Scientist (Director Level), Division of Chemical Sciences and Technology, CSIR-National Institute for Interdisciplinary Science and Technology (NIIST), Thiruvananthapuram 695019; Devadaru, TC 55/191, Kuttikkadu Lane, Kaimanom, Pappanamcode, PO Thiruvananthapuram 695018 [Tel (0471) 249-6002, 251-5306 (O), 249-1592 (R), 94-460-59059 (M); Fax 249-0186; Email ajayaghosh62@gmail.com, ajayaghosh@niist.res.in]; Medal: INSA Young Scientist (1991); SC: III.

2015 : ALI, Nahid (b 1956), PhD, Sp: Biochemistry/Immunology; FAsC, FNAsC, Chief Scientist, Indian Institute of Chemical Biology, 4, Raja S.C. Mullick Road, Kolkata 700032; Professor, Academy of Scientific and Innovation Research (AcSIR); Ekta Oleander Block-2, Flat-7C, 16 Radha Nath Chowdhury Road, Kolkata 700015 [Tel (033) 2499-5757 (O), 98-300-34759 (M); Fax 2473-5197, 2472-3967; Email nali@iicb.res.in]; SC: XI.

2002 : ALI, Sher (b 1955), PhD, Sp: Molecular Genetics of Human and Animal Systems; FAsC, FNAsC, JC Bose National Fellow, Professor, Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, Jamia Nagar, New Delhi 110025 [Tel 98-180-04632 (M); Email sheralib5@hotmail.com, alis@jmi.ac.in]; Council: Mem 2013-15; SC: VIII.

2016 : ANAND, Anuranjan (b 1965), PhD, Sp: Genetics; FAsC, FNAsC, Molecular Biology and Genetics Unit, Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Jakkur, Bengaluru 560064; OAK, B-803, Godrej Woodsman Estate, Hebbal, Bellary Road, Bengaluru 560024 [Tel (080) 2208-2804 (O), 4099-5014 (R), 98-458-04923 (M); Fax 2208-2766; Email anand@jncasr.ac.in]; SC: XI.
2002 : ANAND, Ashima (b 1950), PhD, Sp: Cardiorespiratory & Neurophysiology; FTWAS, FAMS, Principal Investigator, *Exertional Breathlessness Studies Laboratory (DST)*, Vallabhbhai Patel Chest Institute, Delhi University, PO Box 2101, Delhi 110007; N-3, Riviera Apartments, Mall Road, Delhi 110054 [Tel (011) 2766-7749 (O), 2381-8846 (R); Fax 2766-7749; Email ashima_anand@hotmail.com]; **Medal**: INSA Young Scientist (1982); **Lecture**: JL Nehru Birth Centenary (2004); **Council**: Mem 2005-07; **SC**: XI.

1970 : ANAND, Nitya (b 1925), PhD (Mumbai, Cantab), Sp: Medicinal Chemistry; FASc, FNASc, formerly Director, CDRI, Lucknow; *Lumbini*, B-62, Nirala Nagar, Lucknow 226020 [Tel (0522) 278-8587, 404-3229 (R); Email nityaanand1925@gmail.com]; **Medal**: Vishwakarma (1982); INSA Senior Scientist (1985-87); **Council**: Mem 1974-76; **SC**: III.

2007 : ANANTHAKRISHNA, Garani (b 1942) PhD, Sp: Theoretical Materials Science and Condensed Matter Physics; FASc, INSA Honorary Scientist, Emeritus Professor, *Materials Research Centre, Indian Institute of Science, Bengaluru* 560012; B-6-601, Elita Promenade, J.P. Nagar, 7th Phase, Bengaluru 560078 [Tel (080) 2293-2780 (O), 4953-5791 (R), 99-002-68902 (M); Fax 2360-7316; Email garani@mrc.iisc.ernet.in, anantha.garani@gmail.com]; **SC**: M.

2004 : ANANTHAKRISHNAN, Subramaniam (b 1944), M Tech, PhD, Sp: Radio Astronomy; FASc, FNASC, Adjunct Professor and INSA Senior Scientist, *Electronic Science Department, Pune University Campus, Ganeshkhind, Pune 411007*; formerly Senior Professor, NCRA-TIFR & Observatory Director, GMRT & formerly Raja Ramanna Fellow; Flat No. 15, Khagol Vaigyanik Housing Co-operative Society, S.No. 38/1, Panchavati, Pashan, Pune 411008 [Tel (020) 2569-9841 Ext 28 (O), 6521-4552, 6609-4598 (R); Fax 2569-7257; Email subra.anan@gmail.com, ananth@electronics.unipune.ac.in]; **Medal**: INSA-Vainu Bappu Memorial (2010); **Council**: Mem 2008-10; **SC**: II.

1993 : APPARAO, Krishna Manda Venkata (b 1933), PhD, Sp: Astronomy, Astrophysics, Space Physics; formerly Senior Professor, TIFR, Mumbai; 34, Vibha, Opp Cardinal Gracias School, Bandra East, Mumbai 400051 [Tel (022) 2643-6154 (R); Email apparaokrishna@yahoo.com]; INSA Senior Scientist (1996-2000); **SC**: II.
1999 : APTE, Shree Kumar (b 1952) PhD, Sp: Molecular Biology, Biochemistry, Microbial and Plant Biotechnology; FASc, FNASc, FNAAS, Emeritus Professor, Homi Bhabha National Institute and DAE Raja Ramanna Fellow, Bhabha Atomic Research Centre, Trombay, Mumbai 400085; 404, Runwal Hills, Deonar Farm Road, Deonar, Mumbai 400088 [Tel (022) 2559-3638 (O), 2558-0177 (R), 98-694-80205 (M); Fax 2550-5189, 2550-5326; Email sksmbd@barc.gov.in, aptesk@barc.gov.in]; Medal: Professor KS Bilgrami Memorial (2007); Council: Mem 2007-09; SC: VII.

2013 : ARANKALLE, Vidya Avinash (b 1952), PhD, Sp: Virology, Biotechnology, Vaccinology; FASc, Director-In-Charge & Scientist G, National Institute of Virology, Sus Road, Pashan, Pune 411021; 3C-A2-24, New Ajanta Avenue, Paud Road, Kothrud, Pune 411038 [Tel (020) 2600-6390, 93-710-16417 (M); Fax 2612-2699; Email varankalle@yahoo.com]; SC: IX.

1987 : ARUNACHALAM, Vaidheeswara (b 1938), PhD (Cantab), Sp: Quantitative Genetics, Plant Breeding, Biodiversity; FASc, FNASC, FNAAS, Flat No. 1, Rams Bridgeview Apartments, 3, Central Avenue Road, Kodambakkam, Chennai 600024 [Tel (044) 2472-4198 (R), 89-391-39327 (M); Email vairunachalam@hotmail.com]; SC: XII.

1984 : ARUNACHALAM, Vallampadugai Srinivasaraghavan (b 1935), PhD (Wales), DEngg (hc), DSoc (hc), DLitt (hc), Sp: Energy Systems and Development, Science, Technology & Public Policy, Materials Science & Engineering, Defence Technologies; FNASc, FNAE, FREng (UK), Honorary Professor, University of Warwick, UK; Chairman & Founder, Center for Study of Science, Technology & Policy, #18, 10th Cross, Papanna Layout, Mayura Street, Nagashettyhalli, RMV 2nd Stage, Bengaluru 560094; Distinguished Service Professor, Carnegie Mellon University, Pittsburg PA 15213-3890, USA; 547, 9th Cross, JP Nagar Phase III, Bengaluru 560078 [Tel (080) 6690-2500, 6690-2509/14 (O), 2649-1399 (R); Fax 2351-4269; Email vsa@cstep.in]; Medal: Professor Brahm Prakash Memorial (2007); SC: V.

1981 : ARYA, Anand Swarup (b 1931), ME, PhD, Sp: Earthquake & Structural Engineering; FNAE, Professor Emeritus, IIT, Roorkee and Member, Bihar State Disaster Management Authority; formerly Pro-VC, Roorkee University, Roorkee and National Seismic Advisor, Disaster Management Division, Govt. of India; L-802, Design Arch, e-Homes, Plot No. 6, Sector-5, Vaishali, Ghaziabad 201010 [Tel (0120) 437-2530 (R); Email asarun3155@gmail.com]; SC: V.

1976 : ASWATHANARAYANA, Uppugunduri (b 1928), DSc, Sp: Nuclear Geology, Natural Resources & Environmental Geochemistry; FASc, FTWAS, Hon Director, Mahadevan International Centre for Water Resources Management c/o MCR Institute, Hyderabad 500033; formerly Commonwealth Visiting Professor, Universidade Eduardo Mondlane, Maputo, Mozambique; B-16, Shanti Shikhara Apts, Somajiguda, Hyderabad 500082 [Tel (040) 2339-9440 (R), 98-663-31137 (M); Email uaswathanarayana84@gmail.com]; SC: IV.
2015 : AYYUB, Pushan (b 1957), PhD, Sp: Condensed Matter Physics (Nanostructured Materials); Senior Professor, Chairperson, Department of Condensed Matter Physics and Materials Science, Tata Institute of Fundamental Research, 1 Homi Bhabha Road, Mumbai 400005; 902 Bhaskara, TIFR Colony, 2 Homi Bhabha Road, Mumbai 400005 [Tel (022) 2278-2295 (O), 2280-4691 (R), 98-697-61042 (M); Fax 2280-4610; Email pushan@tifr.res.in; Web http://www.tifr.res.in/~pushan]; SC: II.

2016 : AZIZ, Tariq (b 1953), PhD, Sp: Experimental High Energy Physics; Senior Professor (I), Tata Institute of Fundamental Research, Navy Nagar, Colaba, Mumbai 400005; 701 Meghnad, TIFR Housing Complex, Navy Nagar, Mumbai 400005 [Tel (022) 2278-2358 (O), 98-339-53030 (M); Email aziz@tifr.res.in]; SC: II.

2012 : BACHHAWAT, Anand Kumar (b 1958), PhD, Sp: Microbial Genetics & Biochemistry / Yeast Glutathione & Sulphur Metabolism; FASc, FNAsc, Professor, Indian Institute of Science Education & Research (IISER), Mohali, Knowledge City, SAS Nagar, PO Manauli, Punjab 140306; 1079/2, Sector 39-B, Chandigarh 160036 [Tel (0172) 229-3154 (O), 98-882-24948 (M); Fax 224-0266; Email anand@iisermohali.ac.in]; SC: X.

1995 : BAGCHI, Biman (b 1954), PhD (Brown Univ), Sp: Physical Chemistry of Condensed Matter, Molecular Relaxation in Liquids, Dynamics of Complex Systems, Biophysics; FASc, FNAsc, FTWAS, Professor, SSCU, Indian Institute of Science, Bengaluru 560012; E-22, IISc Campus, Bengaluru 560012 [Tel (080) 2293-2926, 2293-2336 (O), 2360-0236 (R); Fax 2360-1310; Email bbagchi@sscuiisc.ernet.in]; Medals: INSA Young Scientist (1986), AK Bose Memorial (1990); Lecture: Dr Jagdish Shankar Memorial (1997), JL Nehru Birth Centenary (2008); SC: III.

1994 : BAGYARAJ, Davis Joseph (b 1940), PhD, Sp: Agricultural Microbiology, Mycorrhizal Symbiosis; FNAsc, FNAAS, NASI-Senior Scientist & Chairman, Centre for Natural Biological Resources and Community Development (CNBRC); No 41, RBI Colony, Ananda Nagar, Bengaluru 560024 [Tel (080) 2333-5368 (R), 94-484-65368 (M); Email djbagyaraj@gmail.com]; Lecture: Professor TS Sadasivan (2009); SC: XII.

2016 : BALAJI, Vikraman (b 1962), PhD, Sp: Mathematics; FASc, JC Bose National Fellow, Professor, Chennai Mathematical Institute, H1 SIPCOT IT Park, Siruseri, Kelambakkam 603103; 2/3 Sri Krishna Kuteeram, 10 North Avenue, Srinagar Colony, Saidapet, Chennai 600015 [Tel (044) 2747-0226 (O), 98-843-92556 (M); Fax 2747-0225; Email balaji@cmi.ac.in, vikramanbalaji@gmail.com]; SC: I.

1998 : BALAKRISHNAN, Narayanaswami (b 1950), BE (Hon), PhD, Sp: Aerospace Electronics, Computational Electromagnetics, Polarimetric and Doppler Radars, Information Security, Speech Processing, Signal Coding; FASc, FNAsc, FNAE, FTWAS, Professor, Aerospace Engineering & Supercomputer Education and Research Centre, Indian Institute of Science, Bengaluru 560012; DQ-19, Staff Qtrs, IISc, Bengaluru [Tel (080) 2360-0325 (O), 2360-0114 (R); Fax 2293-3438; Email balki.iisc@gmail.com, balki@serc.iisc.ernet.in; Web http://swati.dli.ernet.in/balki]; Lecture: JL Nehru Birth Centenary (2002); Council: VP 2006-08; SC: V.
1985 : BALARAM, Padmanabhan (b 1949), PhD, Sp: Bio-organic Chemistry and Molecular Biophysics; FASc, FTWAS, Professor, Molecular Biophysics Unit, Indian Institute of Science, Bengaluru 560012 [Tel (080) 2293-3000, 2360-0690, 2360-2741(O), 2293-3004, 2360-2300 (R); Fax 2360-0936, 2360-0683, 2360-0535; Email pb@mbu.iisc.ernet.in]; **Medals:** INSA Young Scientist (1977), JC Bose (2004); **Lecture:** JL Nehru Birth Centenary (1995); **Visiting Fellowship:** JL Nehru Birth Centenary (1996); **SC:** X.

1988 : BALASUBRAMANIAN, Dorairajan (b 1939), PhD, Sp: Biophysical Chemistry, Biomolecular Interactions, Ocular Biochemistry, Protein Structure; FASc, FNASc, FTWAS, FAAS & Fellow, German Academy of Sciences; Research Director, L V Prasad Eye Institute, Road No.2, Banjara Hills, Hyderabad 500007 [Tel (040) 2354-3652, 3061-2501 (O), 2717-4787 (R); Fax 2354-8271; Email dbala@lvpei.org, dbala@operamail.com; Web www.lvpei.org]; **Medal:** JC Bose (1998), Indira Gandhi Prize for Popularization of Science (2002); **Council:** Ed Pub 1995-97; **SC:** X.

1993 : BALASUBRAMANIAN, Kalpattu Kuppusamy (b 1939), PhD, Sp: Organic Chemistry; FASc, INSa Senior Scientist, Executive Director, R & D, Shasun Chemical Ltd., 60, Velachery Road, Chennai 600042; formerly Professor, Department of Chemistry, IIT Chennai; New No. 47 (Old No. 24), Padmanabha Nagar, 5th St., Adyar, Chennai 600020 [Tel (044) 245-1106, 245-1361 (O), 446-1558, 446-1595 (R); Fax 245-2462; Email kkbalu@hotmail.com]; **Lecture:** Professor S Swaminathan 60th Birthday Commemoration (2000); **SC:** III.

1988 : BALASUBRAMANIAN, Ramachandran (b 1951), PhD, Sp: Theory of Numbers; Director, The Institute of Mathematical Sciences, Central Institute of Technology Campus, Taramani, Chennai 600113; 10, Golden Avenue, Velachary, Chennai 600042 [Tel (044) 2254-1267, 2254-3200 (O), 2259-1626 (R), 98-400-17480 (M); Fax 2254-1586; Email director@imsc.res.in, balu@imsc.res.in]; **Medal:** INSA Young Scientist (1980); **Council:** Mem 1994-96; **SC:** I.

2006 : BALDEV RAJ (b 1947), PhD, Sp: Materials Characterization & Performance, Technology Management Policies; FASc, FNASc, FNAE, FTWAS, Director, National Institute of Advanced Studies (NIAS), Indian Institute of Science Campus, Bengaluru 560012; Distinguished Scientist & formerly Director of Indira Gandhi Center for Atomic Research, Past President, Indian National Academy of Engineering [Tel (080) 2218-5000 (O); Email baldev.dr@gmail.com, baldev_dr@niias.iisc.ernet.in]; **Medal:** Professor Brahm Prakash Memorial (2013); **Lecture:** INSA Prize for Materials Science (2010); **SC:** V.

2010 : BALLYAN, Harindra Singh (b 1951), PhD, Sp: Genetics, Plant Breeding & Crop Biotechnology; FNASc, FNAAS, INSa Senior Scientist & Honorary Emeritus Professor, Department of Genetics & Plant Breeding, Chaudhary Charan Singh University, Meerut 250004; AB-3, University Campus, Chaudhary Charan Singh University, Meerut 250004 [Tel (0121) 276-8195 (Lab), 276-3564 (R), 94-125-15497 (M); Fax 276-8195; Email hsbalyan@gmail.com]; **SC:** XII.
1955 : Bambah, Ram Prakash (b 1925), PhD & ScD (Cantab), Sp: Number Theory & Discrete Geometry; FASc, FNASc, FTWAS, Professor Emeritus, formerly VC, Panjab Univ, Chandigarh; 1275, Sector 19B, Chandigarh 160019 [Tel (0172) 272-4863 (R), 94-172-24863 (M); Email bambahrp@rediffmail.com]; Medal: Srinivasa Ramanujan (1979), Aryabhata (1998); Council: Mem 1971-73, VP 1979-80; SC: I.

2010 : Bamezai, Rameshwar Nath Koul (b 1951), PhD, Sp: Genetics, Human Genetics; FNASC, FAMS, Professor of Genetics and Director (Coordinator), National Centre of Applied Human Genetics, School of Life Sciences, Jawaharlal Nehru University, New Delhi 110067; formerly Vice Chancellor, Shri Mata Vaishno Devi University, Jammu [Tel (011) 2670-4518 (O), 2674-1182 (R); Fax 2674-2211; Email bamezai@mail.jnu.ac.in, bamezai@hotmail.com]; SC: VIII.

1990 : Bamji, Mahtab Sohrab (b 1934), PhD, Sp: Biochemistry, Nutrition; FNASC, FNAAS, FAMS, INSA Honorary Scientist, Dangoria Charitable Trust, Hyderabad 500020; formerly Scientist (Director-Grade), NIN, Hyderabad; 211, Sri Datta Sai Apts, RTC Cross Road, Hyderabad 500020 [Tel (040) 2761-5148 (O&R), 92-468-86442 (M)]; Dangoria Charitable Trust Hospital, Village Narsapur, Medak Distt., AP [Tel (08458) 287-841, 286-241 (O); Email msbamji@gmail.com, mahtabbamji@yahoo.com]; Medal: CV Raman (2005); Lecture: BC Guha Memorial (1987), JL Nehru Birth Centenary (1998); Council: Mem 1993-95, VP 2009-11; SC: XI.

2016 : Bandyopadhyay, Sanghamitra (b 1968), PhD, Sp: Computer Science (Soft Computing, Pattern Recognition and Computational Biology); FNASC, FNAE, FIETE, Director, Indian Statistical Institute, 203 BT Road, Kolkata 700108; 6, Dingshai Para Road, Bally, Howrah 711201 [Tel (033) 2575-3114 (O), 2646-7081 (R), 94-323-51600 (M); Fax 2578-3357; Email sanghami@isical.ac.in; Web http://www.isical.ac.in/~sanghami]; Medal: INSA Young Scientist (2000); SC: V.

2014 : Bandyopadhyay, Uday (b 1964), PhD, Sp: Biochemistry and Cell Biology; FASc, FNASC, Principal Scientist, Division of Infectious Diseases & Immunology, CSIR-Indian Institute of Chemical Biology, 4, Raja SC Mullick Road, Jadavpur, Kolkata 700032; Scientific and Industrial Research, Scientific Apartment (SIRSA), Flat No. 9D, Block-II 59, Lake Road, Kolkata 700029 [Tel (033) 2499-5735 (O), (03212) 227-933 (R), 94-740-03048 (M); Fax 2473-5197; Email ubandyo_1964@yahoo.com, udayb@iicb.res.in]; SC: X.

2012 : Banerjea, Akhil Chandra (b 1956), PhD, Sp: Viral Pathogenesis and Gene Therapy; FNASC, Staff Scientist-VII & Professor/Chief, Laboratory of Virology, National Institute of Immunology, Aruna Asaf Ali Marg, New Delhi 110067; M2 Apartment, National Institute of Immunology, Aruna Asaf Ali Marg, New Delhi 110067 [Tel (011) 2670-3616 (O), 2670-3615 (R), 98-187-17833 (M); Fax 2674-2125; Email akhil@ni.res.in, akhil_banerjea@yahoo.com]; SC: X.
2000 : BANERJEE, Dhiraj Mohan (b 1942), PhD, Sp: Precambrian Sedimentology, Sedimentary Geochemistry; INSA Honorary Scientist, formerly Professor, Department of Geology, Chattra Marg, University of Delhi, Delhi; 25, Uttaranchal Apartments, Plot 5, IP Extension, Patparganj, Delhi 110092 [Tel (011) 2272-3938 (R), 98-186-64238 (M); Fax 2766-6295, 2772-3938; Email dhirajmohanbanerjee@gmail.com]; SC: IV.

1995 : BANERJEE, Dipankar (b 1952), BTech, PhD, Sp: Physical Metallurgy; FASc, FNASC, FNAE, Professor, Department of Materials Engineering, Indian Institute of Science, Bengaluru 560012 [Tel (080) 2293-2558 (O), 72-591-85940 (M); Fax 2360-0467; Email dbanerjee@materials.iisc.ernet.in]; Council: Mem 2002-04; SC: V.

1991 : BANERJEE, Kalyan (b 1937), MBBS, PhD, Sp: Virology, Immunology and Epidemiology; FASc, FNASC, FAMS; A-1-A/5-6, Sopan Baug, Near Vrindavan Soc, NCL Road, Pashan 36, Pune 411008 [Tel 88-88-538970 (M); Fax (020) 2565-1542; Email dr_k_banerjee@yahoo.co.in]; SC: XI.

1998 : BANERJEE, Ranajit Kumar (b 1944), PhD, Sp: Cell Biology, Molecular Enzymology; FASc, FNASC, formerly Scientist G & Head, Department of Physiology, IICB, Kolkata; “Nature’s Nest” Flat No. 1G, 140, PGH Shah Road, Kolkata 700032 [Tel (033) 2413-0396 (R); Email ranajitb@yahoo.com]; SC: X.

2008 : BANERJEE, Soumitro (b 1960), PhD, Sp: Nonlinear Dynamics; FASc, FNACE, FIEEE, Professor, Department of Physical Sciences, Indian Institute of Science Education & Research, Mohanpur 741246, West Bengal; 27, LNT Road, PO Botanic Garden, Howrah 711103 [Tel (033) 2502-5380 (R), 94-325-98503 (M); Email soumitro@iiserkol.ac.in; Web http://www.iiserkol.ac.in/people/faculty/dps/soumitro]; SC: V.

1992 : BANERJEE, Srikumar (b 1946), PhD, Sp: Materials Science, Nuclear Engineering; FASc, FNASC, FNAE, FTWAS, DAE-Homi Bhabha Chair Professor, BARC, Chancellor, Central University of Kashmir and Chancellor, Homi Bhabha National Institute, Central Complex, BARC, Trombay, Mumbai 400085 [Tel (022) 2550-5333 (O), 2754-9099 (R), 98-336-02494 (M); Fax 2550-5333; Email sbanerjee@barc.gov.in]; Medal: INSA Young Scientist (1976), Professor Brahm Prakash Memorial (2004); Lecture: INSA Prize for Materials Science (2001); Council : Mem 2005-07; SC: V.

2005 : BANERJEE, Sunanda (b 1952), PhD, Sp: Experimental High Energy Physics; FASc, Scientist, Saha Institute of Nuclear Physics, Sector 1, Block AF, Bidhan Nagar, Kolkata 700064; 37/1, Beadon Street, Kolkata 700006 [Tel (033) 2321-4986 (O), 2555-8173 (R); Email sunanda.banerjee@cern.ch]; SC: II.
2009 : BANSAL, Manju (b 1950), PhD, Sp: Molecular Biophysics, Structural and Computational Biology; FASc, FNASc; Professor, Molecular Biophysics Unit, Indian Institute of Science, Bengaluru 560 012; 103, 1st Main Road, AECS Layout, Sanjay Nagar, Bengaluru 560094 [Tel (080) 2293-2534, 98-452-37560 (M); Fax 2360-0535, 2360-0683; Email mb@mbu.iisc.ernet.in; Web http://www.nucleix.mbu.iisc.ernet.in/index.htm]; Medal: INSA Young Scientists (1979); SC: X.

2005 : BAPAT, Ravindra B (b 1954), PhD, Sp: Combinatorial Matrix Theory, Generalised Inverses; FASc, Professor, Stat Math Unit, Indian Statistical Institute, 7, SJS Sansanwal Marg, New Delhi 110016; A-4, ISI Campus, New Delhi 110016 [Tel (011) 4149-3934 (O); Fax 2696-1384; Email rbb@isid.ac.in]; Lecture: Professor VV Narlikar Memorial (2012); SC: I.

2011 : BAPAT, Vishwas Anant (b 1947) PhD, Sp: Plant Biotechnology and Genetic Engineering; FNAsc, INSA Senior Scientist & CSIR Emeritus Scientist, Department of Biotechnology, Shivaji University, Kolhapur 416004; A-1, Professors’ Quarters, Shivaji University Campus, Vidyanagar, Kolhapur 416004 [Tel (0231) 260-9365 (O), 269-7080 (R), 94-207-75733, 99-224-42699 (M); Fax 269-1533, 269-2333; Email vabapat@gmail.com]; SC: VII.

1998 : BARMA, Mustansir (b 1950), PhD, Sp: Statistical Physics & Condensed Matter Physics; FASc, FNAsc, FTWAS, Distinguished Professor and former Director, Tata Institute of Fundamental Research, Homi Bhabha Road, Colaba, Mumbai 400005; 4, Sunny House, Merewether Road, Mumbai 400039 [Tel (022) 2278-2425 (O), 2202-1154 (R); Fax 2280-4610; Email barma@theory.tifr.res.in; Web theory.tifr.res.in/~barma/]; Medal: INSA Young Scientist (1980); Lecture: JL Nehru Birth Centenary (2014); Council: Mem 2011-13; SC: II.

2011 : BASAK, Amit (b 1952), PhD (Cal), DPhil (Oxon), Sp: Organic Chemistry; FASc, Dean (Faculty) and Professor, Department of Chemistry, Indian Institute of Technology, Kharagpur 721302; A-22, IIT Campus [Tel (03222) 283-300 (O), 283-301 (R), 94-340-13294 (M); Email absk@chem.iitkgp.ernet.in]; SC: III.

2006 : BASAVAIAH, Deevi (b 1950), PhD, Sp: Organic Chemistry: Bayliss-Hillman Chemistry and Chiral Catalysis; FASc, Professor, School of Chemistry, University of Hyderabad, Hyderabad 500046; A-5, University Campus, University of Hyderabad, Hyderabad 500046 [Tel (040) 2313-4812 (O), 2301-0977 (R); Fax 2301-2460; Email dbsc@uohyd.ernet.in; Web http://www.uohyd.ernet.in]; Medal: Professor TR Seshadri 70th Birthday Commemoration (2009); SC: III.

1992 : BASKARAN, Ganapathy (b 1948), PhD, Sp: Condensed Matter Physics, Statistical Mechanics and Theoretical Biology; FASc, SERB Distinguished Fellow, Institute of Mathematical Sciences, Chennai 600113; Distinguished Research Chair, Perimeter Institute for Theoretical Physics, Waterloo, Ontario, Canada; 19, Kaveri Nagar, Kottivakkam Kuppan Road, Chennai 600041 [Tel (044) 2254-3303 (O), 2451-0504 (R); Fax 2254-1586; 001 (519) 569-7600; Email baskaran@imsc.res.in]; SC: II.
2009: BASU, Joyoti (b 1957), PhD, Sp: Molecular and Cellular Biology with Special Reference to Mycobacteria; FASc, FNASc, Professor, Department of Chemistry, Bose Institute, 93/1, Acharya Prafulla Chandra Road, Kolkata 700009; 1A Madhab Chatterjee Street, Kolkata 700020 [Tel (033) 2303-1153, 2303-1144 (O), Fax 2350-6790]; Medal: INSA Young Scientist (1989); SC: X.

1994: BASU, Sandip Kumar (b 1944), PhD, Sp: Biochemistry, Molecular Biology & Genetics; FASc, FNASc, FTWAS, NASI-JC Bose Chair Professor; 782 Sagar Presidency, F-8 Sector 30, Noida 201301 [Tel 98-914-98821 (M); Email sandipkbasu@gmail.com]; Lecture: Professor MRN Prasad Memorial (1995); Dr Y Subba Row Memorial (2002); Council: Ad Mem 1996, 2004; SC: X.

1993: BHADURI, Sumit (b 1948), PhD, Sp: Inorganic & Organometallic Chemistry and Catalysis; FASc, 562, Adenwala Road, Rustom Mansion, Mumbai 400019 [Tel (022) 2415-0255 (R); Email sbhaduri26@hotmail.com]; SC: III.

1979: BHAKUNI, Dewan Singh (b 1930), DPhil, PhD & DSc (Lond), Sp: Natural Product, Bio-Organic & Medicinal Chemistry; FASc, FNASc, formerly Scientist (Director-Grade), CDRI, Lucknow; C-132, Nirala Nagar, Lucknow 226020 [Tel (0522) 278-8517 (R)]; Council: Mem 1982-84; SC: III.

2010: BHALLA, Upinder Singh (b 1963), PhD, Sp: Computation Neuro Science, Neuro Biology; FASc, Professor, National Centre for Biological Sciences, GKV, Bellary Road, Bengaluru 560065; 41, Shobha Emerald, Jakkur, Bengaluru 560064 [Tel (080) 2366-6130 (O); Fax 2363-6662; Email bhalla@ncbs.res.in; Web https://www.ncbs.res.in/bhalla]; Council: Mem 2016-; SC: VIII.

1996: BHAN, Maharaj Kishan (b 1947), MD, Sp: Pediatrics Gastroenterology, Pediatrics Infectious Diseases & Nutrition; FASc, FAMS, former Secretary to the Govt. of India, Department of Biotechnology, New Delhi 110003; F-14, Hauz Khas Enclave, New Delhi 110016 [Tel (011) 2696-4173 (R); Email mkbhans@dbt.nic.in]; Lecture: Dr TS Tirumurti Memorial (2001), SK Mitra Memorial (2004); Council: Mem 2006-08; SC: XI.

2002: BHANDARI, Narendra (b 1941), PhD, Sp: Earth and Planetary Science; FASc, FNASc, INSA Honorary Scientist, 2 Nilima Flats, Nilima Park Society, Navrangpura, Ahmedabad 380009 [Tel (079) 2631-4266 (O) 2791-2332 (R), 98-240-77890 (M); Fax 2631-4900; Email nnbhandari@yahoo.com; Web http://nbhandari.com]; Council: Mem 2016-; SC: IV.

2010: BHARDWAJ, Anil (b 1967), PhD, Sp: Planetary and Space Science; FASc, FNASc, Director, Space Physics Laboratory, Vikram Sarabhai Space Centre, Thiruvananthapuram 695022, Kerala; 10 D, Heera Havens, Ulloor-Akkulam Road, Ulloor, Thiruvananthapuram 695011 [Tel (0471) 256-3663, 256-2330 (O), 255-5168 (R), 99-471-49290 (M); Fax 270-6535; Email Anil_Bhardwaj@vssc.gov.in, bhardwaj_spl@yahoo.com; Web http://spl.gov.in]; SC: IV.
2009 : BHARADWAJ, Parimal Kanti (b 1951), PhD, Sp: Supramolecular Chemistry; FASc, Professor, Department of Chemistry, Indian Institute of Technology, Kanpur 208016; House No 409, IIT K Campus, Kanpur 208016 [Tel (0512) 259-7340, 259-7034 (O), 259-8324 (R); Fax 259-7436, 259-0007; Email pkb@iitk.ac.in]; SC: III.

2014 : BHARGAVA, Om Narain (b 1938), PhD, Sp: Stratigraphy and Structure with Special Reference to the Himalaya; INSA Honorary Scientist, formerly Director, Geological Survey of India; 103, Sector 7, Panchkula 134109 [Tel (0172) 259-6510 (R), 98-766-96510 (M); Email onbhargava@gmail.com]; SC: IV.

2016 : BHAT, Badekkila Venkatramana Rajaram (b 1966), PhD, Sp: Mathematics; FASc, Professor & Head, Stat-Math Unit, Indian Statistical Institute, RV College Post, Bengaluru 560059; B-4, Indian Statistical Institute, RV College Post, Bengaluru 560059 [Tel (080) 2698-5470 (O), 2698-5504 (R), 98-442-21578 (M); Fax 2848-4265; Email bhat@isibang.ac.in, bvrajaramabhat@gmail.com]; Medal: INSA Young Scientist (1997); SC: I.

2003 : BHAT, Subray Venkataraman (b 1945), PhD, Sp: Physics of Materials; FASc, FNASC, President, Asia-Pacific EPR/ESR Society, INSA Senior Scientist, Department of Physics, Indian Institute of Science, Bengaluru 560012; # 132, 8th Cross, 3rd Main, RMV Second Stage, Bengaluru 560094 [Tel (080) 2293-2727, 2360-0880, 2293-2315 (O), 2341-0312 (R), 98-455-57534 (M); Fax 2360-2602; Email svbhat@physics.iisc.ernet.in, svbhat1@gmail.com]; SC: II.

1988 : BHATIA, Chittranjan (b 1936), PhD, Sp: Genetics, Plant Breeding, Agriculture, Biotechnology; FASc, FNASC, FNAAS, FTWAS, formerly Secretary to the Govt. of India, Department of Biotechnology; 17, Rohini, Plot No. 29-30, Sector 9-A Vashi, Navi Mumbai 400703 [Tel (022) 2765-5178 (R), 98-205-02810 (M); Email crbhatia.bhatia@gmail.com, chittranjan.bhatia@yahoo.com]; Lecture: SK Mitra Memorial (1995); Council: Mem 2003-05; SC: XII.

2005 : BHATIA, Rajendra (b 1952), PhD, Sp: Mathematics: Matrix Analysis, Functional Analysis, Harmonic Analysis; FASc, FTWAS, Distinguished Scientist, Stat. Math. Unit, Indian Statistical Institute, 7 SS Sansanwal Marg, New Delhi 110016; A-10, ISI Campus, New Delhi 110016 [Tel (011) 4149-3943 (O), 2686-7942 (R); Fax 4149-3981; Email rbh@isid.ac.in]; Medal: INSA Young Scientist (1982); SC: I.

1983 : BHATIA, Shashi Bhushan (b 1930), DIC & PhD (Lond), Sp: Palaeontology, Micropalaeontology & Biostratigraphy; formerly Professor of Geology & Emeritus Scientist (CSIR), Panjab University, Chandigarh; 441, Sector 6, Panchkula 134109, Haryana [Tel (0172) 256-0504 (R); Email sudhashi0903@gmail.com]; SC: IV.
1999 : BHATNAGAR, Anil Kumar (b 1942), PhD, Sp: Experimental Solid State & Materials Science, Superconductivity and Magnetism, Glasses, Films & Nano Materials; FNASc, NASI Senior Scientist Platinum Jubilee Fellow, School of Physics & School of Engineering Sciences & Technology, University of Hyderabad, Hyderabad 500046; formerly Vice-Chancellor, Pondicherry University, formerly Dean, School of Physics & VC (officiating), University of Hyderabad [Tel (040) 2313-4301, 2301-3200 (O), 99-490-43356 (M); Fax 2301-0227; Email anilb42@gmail.com, akbsp@uohyd.ernet.in]; SC: II.

2015 : BHATNAGAR, Raj Kamal (b 1955), PhD, Sp: Molecular Biology; Associate Scientist and Group Leader, Insect Resistance, International Centre for Genetic Engineering and Biotechnology, Aruna Asaf Ali Marg, New Delhi 110067; Sector D, Pocket-1 Apartment 1064, Vasant kunj, New Delhi [Tel (011) 2674-1358 Ext 161 (O), 2689-2357 (R), 98-118-96420 (M); Fax 2674-2317; Email raj@icgeb.res.in, rajbhatnagar@hotmail.com]; SC: VII.

2015 : BHATNAGAR, Rakesh (b 1951), PhD, Sp: Microbiology, Immunology; FASc, FNASc, Professor, School of Biotechnology, Jawaharlal Nehru University, Room No.-102, New Delhi 110067; 10, Dakshinapuram, Jawaharlal Nehru University, New Delhi 110067 [Tel (011) 2670-4079, 2674-2040 (O); Fax 2674-2040; Email rakeshbhatnagar@mail.jnu.ac.in, rakeshbhatnagar@jnu.ac.in]; SC: IX.

1984 : BHATT, Mangalore Vivekananda (b 1924), PhD, AIISc, Sp: Physical Organic, Organic Chemistry; FASc, formerly Professor, Organic Chemistry Department, IISc, Bengaluru; No. 37, Siddeshwara Layout, Seedadahalli, Nagasandra PO, Bengaluru 560073 [Tel (080) 2372-2878 (R), 93-419-28420 (M)]; SC: III.

2008 : BHATTACHARJEE, Somendra Mohan (b 1957), PhD, Sp: Theoretical Condensed Matter Physics; FASc, Professor, Institute of Physics, Bhubaneswar 751005; Institute of Physics, Bhubaneswar 751005 [Tel (0674) 230-6405 (O), 230-6605 (R), 94-379-66448 (M); Email somen@iopb.res.in; Web http://www.iopb.res.in/~somen]; SC: II.

2003 : BHATTACHARYA, Abhijit (b 1955), PhD, Sp: Petrology, Geochemistry, Tectonics; Professor, Department of Geology and Geophysics, Indian Institute of Technology, Kharagpur 721302; CS-180B, Hijli Cooperative Society, Kharagpur 721306 [Tel (03222) 283-350 (O), 94-347-43228 (M); Fax 275-5303; Email abba@gg.iitkgp.ernet.in, abbhatat55@gmail.com]; SC: IV.

2000 : BHATTACHARYA, Alok (b 1951), PhD, Sp: Molecular Parasitology, Genomics, Bioinformatics; Professor, School of Life Sciences & School of Computational and Integrative Sciences, Jawaharlal Nehru University, New Delhi 110067; 1123, Sector B-1, Vasant Kunj, New Delhi 110070 [Tel (011) 2670-4516 (O), 98-108-81439 (M); Email alok0200@mail.jnu.ac.in, alok.bhattacharya@gmail.com]; Medal: Aryabhata (2015); Council: Mem 2005-07, VP 2011-13; SC: VIII.
1990 : BHATTACHARYA, Samir (*b* 1942), PhD, Sp: Comparative Endocrinology and Molecular Signaling; FASc, FNASc, INSA-Golden Jubilee Research Professor, *Centre of Advanced studies in Zoology, School of Life Sciences, Visva Bharati, Santiniketan 731235, West Bengal;* North-East Institute of Science and Technology (CSIR), Jorhat 785006, Assam; formerly Director, IICB, Kolkata [Tel (03463) 261-268, 262-838 (R), (0376) 237-0012 (O); Fax (03463) 261-176, (0376) 237-0011; Email bhattacharyasa@gmail.com]; **Medal:** Chandrakala Hora Memorial (2007); **Lecture:** Professor MRN Prasad Memorial (1998); **Council:** Mem 2001-02, VP 2003; **SC:** VIII.

2007 : BHATTACHARYA, Santanu (*b* 1958), PhD, Sp: Chemical Biology, Supramolecular Chemistry and Nano Materials; FASc, Professor, *Department of Organic Chemistry, Indian Institute of Science, Bengaluru 560012;* E-7, IISc Quarters, Indian Institute of Science, Bengaluru 560012 [Tel (080) 2293-2664, 2293-2777 (O); Email sb@orgchem.iisc.ernet.in]; **Lecture:** Dr Nitya Anand Endowment (2007); **SC:** III.

2014 : BHATTACHARYA, Sudha (*b* 1952), PhD, Sp: Molecular Biology, Molecular Parasitology; FASc, FNASc, Professor, *School of Environmental Sciences, Jawaharlal Nehru University, New Delhi 110067;* 1123, Sector B-1, Vasant Kunj, New Delhi 110070 [Tel (011) 2670-4308 (O), 98-184-76740 (M); Fax 2674-1502; Email sb@mail.jnu.ac.in, sbjnu110@gmail.com]; **SC:** X.

2001 : BHATTACHARYA, Sujit Kumar (*b* 1950), MD, Sp: Diarrhoeal Diseases, HIV/AIDS, Kala-azar, Infectious Diseases; FNASc, FAMS, NASI-Senior Scientist Platinum Jubilee Fellow, formerly Director, National Institute of Cholera and Enteric Diseases, Kolkata; formerly ADG, ICMR; *G-2, Cluster VIII, Purbachal, Salt Lake, Kolkata 700097* [Tel (033) 2335-6566 (R), 86-974-62003 (M); Email sujitkbhattacharya@yahoo.com]; **SC:** XI.

1986 : BHATTACHARYYA, Amalendu Bhushan (*b* 1937), PhD, Sp: Micro-Electronics; Emeritus Professor, Jai Prakash Institute of Information Technology, A-10, Sector 62, Noida; formerly Dean, Industrial Research and Development, IIT, New Delhi; *C-184, Sector 26, Noida 201301* [Tel (0120) 431-1691 (R), 98-181-26754 (M); Email abbhatacharya@yahoo.com]; **SC:** V.

2009 : BHATTACHARYYA, Archana (*b* 1948), PhD, Sp: Ionospheric Physics and Geomagnetism; FASc, FNASc, JC Bose National Fellow, *Indian Institute of Geomagnetism, Kalamboli Highway, New Panvel, Navi Mumbai 410218; 303 Mohnesh-3, Sector 21, Nerul (E), Navi Mumbai 400706* [Tel (022) 2748-4147 (O), 2772-2014 (R); Fax 2748-0762, Email abh@iigs.iigm.res.in]; **Council:** Ad Mem 2015; **SC:** IV.
1996: BHATTACHARYYA, Bhabatarak (b 1944), PhD, Sp: Structural Biology, Biochemistry and Molecular Spectroscopy; FASc, FNASc, FTWAS, INSA Senior Scientist, DAE Raja Ramanna Fellow, Emeritus Professor, Department of Biochemistry, Bose Institute, Acharya JC Bose Birth Centenary Bldg, P 1/12, CIT Scheme VII M, Kolkata 700054; 569B Lake Gardens, Kolkata 700045 [Tel (033) 2355-0256, 2569-3200 (O), 2422-3812 (R); Fax 2355-3886; Email bablu@boseinst.ernet.in; Web http://www.boseinst.ernet.in]; Medal: Professor GN Ramachandran 60th Birthday Commemoration (2012); Lecture: BC Guha Memorial (2005); SC: X.

2013: BHATTACHARYYA, Gautam (b 1966), PhD, Sp: High Energy Physics (Theory); Professor, Saha Institute of Nuclear Physics, Sector 1, Block AF, Bidhan Nagar, Kolkata 700064; 2/58 (2nd Floor), Naktala, Kolkata 700047 [Tel (033) 2337-5345-49 (O), 94-330-28531 (M); Fax 2373-4825; Email gautam.bhattacharyya@saha.ac.in, gautam.sinp@gmail.com]; SC: II.

2002: BHATTACHARYYA, Kankan (b 1954), PhD, Sp: Physical Chemistry, Ultrafast Laser Spectroscopy, Confocal Microscopy; FASc, FNASc, FTWAS, Department of Physical Chemistry, Indian Association for the Cultivation of Science, 2A & B, Raja SC Mullick Road, Jadavpur, Kolkata 700032; Flat 3B2/ Bay, Hiland Park, Kolkata 700094 [Tel (033) 2473-4971 Ext 1450/1461 (O), 2436-4457 (R), 94-330-71155 (M); Fax 2473-2805; Email pckb@iacs.res.in]; Medal: Golden Jubilee Commemoration (Chem Sc) (2010); Lecture: Professor Sadhan Basu Memorial (2011); Council: Mem 2007-09, Ad Mem 2012-13, VP 2016--; SC: III.

2001: BHATWADEKAR, Shrikant Mahadeo (b 1946), PhD, Sp: Commutative Algebra and Algebraic Geometry; FASc, Raja Ramanna Fellow and Visiting Professor, Bhaskarachary Pratishthan (Institute of Mathematics); formerly Senior Professor, TIFR, Mumbai; 56/14, Erandavane, Damle Path, Pune 411004 [Tel (020) 6529-2821 (R), 98-696-32801 (M); Email smbhatwadekar@gmail.com]; Council: Mem 2009-11; SC: I.

1990: BHAWALKAR, Dilip Devidas (b 1940), PhD, Sp: Lasers and their Applications; FASc, FNASc, Director, Quantalase Enterprises Pvt Ltd, 26, Paramanna Nagar, CAT-RAU Road, Indore 452013 [Tel (0731) 232-2707 (O), 232-0031 (R); Email ddbhawalkar@yahoo.com, ddbhawalkar@quantalase.in]; SC: II.

1978: BHIMASANKARAM, Vemu Lakshminaraya Subrahmanya (b 1931), DSc, Sp: Applied Geophysics; formerly Professor of Geophysics & Dean, Faculty of Sciences, Osmania Univ, Hyderabad; 12-13-75, Tarnaka House, Street No 4, Tarnaka, Hyderabad 500017 [Tel (040) 2701-8500, 2700-2059 (R), 98-495-63500 (M); Email vlsbs@yahoo.com]; SC: IV.
1989 : BHISEY, Avinash Narayan (b 1938), PhD, Sp: Cell Biology, Cancer Cytogenetics, Animal Cell Culture; formerly Director, Cancer Research Institute, Parel, Mumbai 400012 and Project Director, ACTREC, Navi Mumbai; 7, Yugprabhat Soc, Sitaladevi Temple Road, Mahim, Mumbai 400016 [Tel (022) 2446-7356 (R), 98-334-05834 (M); Email bhisey.avinash883@gmail.com]; SC: VIII.

1998 : BHISEY, Rajani Avinash (b 1941), PhD, Sp: Environmental Carcinogenesis, Molecular Epidemiology; FASc, formerly Head, Carcinogenesis Division, Cancer Research Institute, Parel, Mumbai; 7 Yugprabhat Society, Sitaladevi Temple Road, Mahim, Mumbai 400016 [Tel (022) 2446-7356 (R); Email rajani.bhisey@gmail.com]; SC: XI.

2011 : BHOSLE, Ushadevi Narendra (b 1949), PhD, Sp: Algebraic Geometry; FASc, FNAsc, Raja Ramanna Fellow, Department of Mathematics, Indian Institute of Science, Bengaluru 560012; formerly Senior Professor, Tata Institute of Fundamental Research, Mumbai; Flat No. 432, Jal Vayu Towers, Bennigannaballi, Bengaluru 560038 [Tel 99-306-41136, 88-616-96296 (M); Email usha@math.tifr.res.in]; SC: I.

2010 : BHOWMICK, Anil Kumar (b 1954), PhD, Sp: Polymer Science and Engineering; FNAE, Professor of Eminence, Rubber Technology Centre, Indian Institute of Technology Kharagpur, Kharagpur 721302 [Tel (03222) 283-180, 220-312 (O), 97-714-35882, 94-340-05882 (M); Fax 220-312; Email anilkb@rtc.iitkgp.ernet.in, anilbhowmick@gmail.com; Web http://www.facweb.iitkgp.ernet.in/~anilkb/]; SC: V.

1981 : BHUTANI, Om Parkash (b 1935), PhD, Sp: Applied Mathematics, Symmetries and Differential Equations; formerly Dean PGS&R, Chairman & Professor, Department of Mathematics, IIT, New Delhi 110016; B-1/1057, Vasant Kunj, New Delhi 110070 [Tel (011) 2613-7825 (R); Email bhutaniop@hotmail.com]; Visiting Fellowship: JL Nehru Birth Centenary (1998); INSA Senior Scientist (1996-2001); Council: Ed Pub 1994-96; SC: I.

1978 : BISWAS, Birendra Bijoy (b 1928), PhD, Sp: Molecular Biology, Genetic Engineering; FASc, President, Indian Science News Association, 92, Acharya PC Road, Kolkata 700009; formerly Director, Bose Institute, Kolkata; CG-155, Salt Lake City, Kolkata 700091 [Tel (033) 2350-2224 (O), 4004-6243, 2334-8649 (R); Fax 2350-2224; Email scie2224@dataone.in, suswetabiswas@gmail.com]; SC: X.

2013 : BISWAS, Gautam (b 1956), PhD, Sp: Heat Transfer, Computational Fluid Dynamics, Fluid Mechanics; FASc, FNAsc, FNAE, JC Bose National Fellow, Director, Indian Institute of Technology, Guwahati 781039 [Tel (0361) 269-0401 (O), 88-110-86524 (M); Fax 269-2321; Email gtm@iitg.ernet.in, gtm@iitk.ac.in; Web http://home.iitk.ac.in/~gtm/]; SC: V.
2014: **BISWAS, Indranil** (*b* 1964), PhD, Sp: Algebraic Geometry; FASc, Professor (H), *Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400005*; 203, Meghnad, TIFR Housing Colony, Homi Bhabha Road, Mumbai 400005 [Tel (022) 2278-2220 (O), 2280-4832 (R), 98-336-17499 (M); Fax 2280-4610/4611; Email indranil@math.tifr.res.in]; **SC:** I.

2016: **BORGES, Renee Maria** (*b* 1959), PhD, Sp: Evolutionary Ecology; FASc, Professor and Chairperson, *Centre for Ecological Sciences, Indian Institute of Science, Bengaluru 560012*; 247, Rajmahal Vilas Extension II, Bengaluru 560094 [Tel (080) 2293-3103, 2360-2972 (O), 2341-7366 (R); Fax 2360-1428; Email renee@ces.iisc.ernet.in]; **SC:** VIII.

1997: **BORKAR, Vivek Shripad** (*b* 1954), MS (Case Western), PhD (Calif), Sp: Analysis and Control of Stochastic Systems; FASc, FNASC, FNAE, Professor, *Department of Electrical Engineering, Indian Institute of Technology, Mumbai 400076* [Tel 99-690-66626 (M); Fax 2572-3707; Email borkar.vs@gmail.com]; **Medal:** PC Mahalanobis (2008); **Council:** Mem 2015--; **SC:** V.

2007: **BOSE, Arup** (*b* 1959), PhD, Sp: Statistics and Probability; FASc, FNASC, Professor, *Statistics and Mathematics Unit, Indian Statistical Institute, 203, Barrackpore Trunk Road, Kolkata 700108*; Flat 4 A, Shantiniketan Apartments, 242 Jodhpur Park, Kolkata 700068 [Tel (033) 2575-3409 (O), 98-304-96250(M); Fax 2577-3071; Email bosearu@gmail.com, abose@isical.ac.in; Web http://www.isical.ac.in/~abose]; **SC:** I.

1995: **BRAHMACHARI, Samir Kumar** (*b* 1952), PhD, Sp: Structural Biology, Functional Genomics, Open Source Drug Discovery; FASc, FNASC, FNAE, JC Bose National Fellow, Academy Professor, Academy of Scientific and Innovative Research, *CSIR-Institute of Genomics and Integrative Biology, Mathura Road, Sukhdev Vihar, New Delhi 110020*; 14, Cavalry Lines, Delhi University 110007 [Tel (011) 2987-9405 (O), 98-104-43272 (M); Email skb@igib.res.in]; **Medal:** INSA Young Scientist (1979), JC Bose (2007); **Council:** Mem 2009-11; **SC:** X.

2016: **BRAHMACHARI, Vani** (*b* 1955), PhD, Sp: Epigenetics and Development Biology, Molecular Genetics; FNASC, Professor, *Epigenetics and Developmental Biology Group, Dr BR Ambedkar Center for Biomedical Research, University of Delhi, Delhi 110007*; No. 14, Cavalry Lines, University of Delhi, Delhi 110007 [Tel (011) 2766-6272 Ext 105 (O), 2766-2720 (R), 98-188-41024 (M); Fax 2766-6248; Email vani.brahmachari@gmail.com, vbrahmachari@acbr.du.ac.in]; **Medal:** INSA Young Scientist (1985); **SC:** VIII.

2009: **BUDHANI, Ramesh Chandra** (*b* 1955), PhD, Sp: Physics, Physics of Materials (Experimental-Superconductivity, Magnetism and Transport in Thin Films, Multilayers and Superlattices); FASc, FNASC, Professor, *Department of Physics & Centre of Laser Technology, Indian Institute of Technology Kanpur, Kanpur 208016* [Tel (0512) 259-7185, 259-7955 (O); Fax 259-7091; Email rcb@iitk.ac.in]; **SC:** II.
2004 : **BUJURKE, Nagendrappa Masanappa** (b 1944) PhD, Sp: Applied Mathematics, Fluid Mechanics, Computational Techniques, Wavelets, Physiological Fluid Flows; FNASc, INSA Honorary Scientist, PG Department of Mathematics, Karnataka University, Dharwad 580003; “Aditya”, Plot no. 33, First Main 4th Cross, UCB Nagar, Dharwad 580007 [Tel (0836) 221-5222 (O), 277-9291 (R), 94-484-24745 (M); Fax 274-7884; Email bujurke@yahoo.com]; INSA Senior Scientist (2005-07, 2009-12); SC: I.

1981 : **BUTI, Bimla** (b 1933), PhD (USA), Sp: Plasma Physics; FNASc, FTWAS, Director, Centre for Science and Society; President, Buti Foundation, B/8-6042, Vasant Kunj, New Delhi 110070; formerly Senior Professor, PRL, Ahmedabad [Tel (011) 2689-9903; Fax 2613-0311; Email bimlabuti@gmail.com, buti@butifoundation.org]; **Medal:** INSA-Vainu Bappu Memorial (1994); **Lecture:** JL Nehru Birth Centenary (1993); **Council:** Mem 1991-93; SC: II.

2005 : **CHADDAH, Praveen** (b 1951), PhD, Sp: Condensed Matter Physics; FASc, FNASc, formerly Director, UGC-DAE Consortium for Scientific Research, University Campus, Khandwa Road, Indore 452017; Flat 702, Block 24, Heritage City (near MG Road Metro Station), Gurgaon 122002 [Tel (0124) 428-0243 (R), 96-301-28811 (M); Email chaddah.praveen@gmail.com]; **Medal:** INSA Young Scientist (1978); SC: II.

1983 : **CHADHA, Mohindra Singh** (b 1928), PhD (Cornell), Sp: Organic and Bio-Organic Chemistry; FNASc, formerly Director, Biochemical Group, BARC, Mumbai; C-6, Beach House Apts, Gandhigram Road, Juhu, Mumbai 400049 [Tel (022) 2620-2596 (R), 98-214-41121 (M); Email chadhams@gmail.com]; INSA Senior Scientist (1991-94); SC: III.

2003 : **CHAKRABARTI, Bikas Kanta** (b 1952), PhD, Sp: Statistical and Condensed Matter Physics; FASc, Professor, Saha Institute of Nuclear Physics, Sector 1, Block AF, Bidhan Nagar, Kolkata 700064; Flat 4R-3/7 ANANYA, 25C, RM Dutta Garden Lane, Beleghata, Kolkata 700010 [Tel (033) 2337-5345-49 (O), 2370-9377 (R); Fax 2337-4637; Email bikask.chakrabarti@saha.ac.in; **Medal:** INSA Young Scientist (1984); SC: II.

2000 : **CHAKRABARTI, Partha Pratim** (b 1962) PhD, Sp: Computer Science and Engineering; Director, Indian Institute of Technology, Kharagpur 721302; Qtr No A-5, IIT Campus, Kharagpur 721302 [Tel (03222) 282-002 (O), 282-003 (R); Fax 282-000; Email director@iitkgp.ernet.in, ppchak@cse.iitkgp.ernet.in]; **Medal:** INSA Young Scientist (1991), AK Bose Memorial (1995); SC: V.

2006 : **CHAKRABARTI, Pinakpani** (b 1955), PhD, Sp: Molecular Biophysics, X-ray Crystallography and Structural Biology, Bioinformatics; FASc, FNASc, FTWAS, Professor, Department of Biochemistry and Bioinformatics Centre, Bose Institute, P-1/12 CIT Scheme VII M, Kolkata 700034; 1A Palm Place, Flat No 6, Kolkata 700019 [Tel (033) 2569-3253, 2659-3238 (O), 2287-0327 (R); Fax 2355-3866; Email pinak@jcbose.ac.in, pinak_chak@yahoo.co.in; Web http://www.jcbose.ac.in/bic/fac/pinak/index.html]; **Lecture:** BC Guha Memorial (2011); SC: X.
2012 : **CHAKRABARTI, Sekhar** (*b* 1952), PhD, Sp: Viral Diseases with Special Emphasis on Genetic Characterization of Viruses and Mechanism of Pathogenesis; FNASc, Scientist G, Director-in-charge & Head, Division of Virology, National Institute of Cholera & Enteric Diseases, P-33 CIT Road, Scheme XM, Beleghata, Kolkata 700010; Flat No B-005, VIP Enclave-II, VIP Road, Baguihati, Kolkata 700059 [Tel (033) 2370-1176 (O), 98-315-04066 (M); Fax 2370-5066; Email drsekharchakrabarti@yahoo.co.in]; SC: XI.

2016 : **CHAKRABORTI, Asit Kumar** (*b* 1954), PhD, Sp: Organic Chemistry; FASc, FRSC, Professor and Head of Department, *Department of Medicinal Chemistry, National Institute of Pharmaceutical Education and Research (NIPER)*, Sector 67, SAS Nagar, Punjab 160062; H No. T-VI/2, NIPER, Sector 67, SAS Nagar, Punjab 160062 [Tel (0172) 229-2027 (O), 223-3841 (R), 94-177-70515 (M); Fax 221-4692; Email akchakraborti@niper.ac.in, akchakraborti@rediffmail.com]; SC: III.

2011 : **CHAKRABORTI, Pradip Kumar** (*b* 1956), PhD, Sp: Molecular Biology & Biochemistry, Molecular Microbiology; FASc, FNASc, Chief Scientist, *CSIR-Institute of Microbial Technology, Sector 39 A, Chandigarh 160036*; House No. 1005, Sector 39B, Chandigarh 160036 [Tel (0172) 269-0751, 666-5241/42 (O), 269-5488, 500-3975 (R), 98-158-63975 (M); Fax 269-0585; Email pradip@imtech.res.in, pradipkchakraborti@gmail.com]; SC: XI.

2016 : **CHAKRABORTY, Niranjan** (*b* 1958), PhD, Sp: Plant Molecular Biology; FNASc, Staff Scientist-VII, *National Institute of Plant Genome Research, JNU Campus, Aruna Asaf Ali Marg, New Delhi 110067*; C9/9428, Vasant Kunj, New Delhi 110070 [Tel (011) 2673-5178 (O), 2613-9428 (R), 98-732-0264 (M); Fax 2674-1658; Email nchakraborty@hotmail.com, nchakraborty@nipgr.ac.in]; SC: VII.

2007 : **CHAKRABORTY, Tushar Kanti** (*b* 1957), PhD, Sp: Organic Synthesis, Peptides, Peptidomimetics; FASc, FNASC, Professor, *Department of Organic Chemistry, Indian Institute of Science, Bengaluru 560012*; formerly Director, CSIR-Central Drug Research Institute, Lucknow [Tel (080) 2293-2215 (O), 2360-3380 (R); Fax 2360-0529; Email tushar@orgchem.iisc.ernet.in, tusharkantichakraborty@gmail.com]; SC: III.

2006 : **CHAKRAVARTY, Akhil Ranjan** (*b* 1953), PhD, Sp: Bioinorganic and Medicinal Inorganic Chemistry; FASc, FTWAS, Professor, *Department of Inorganic and Physical Chemistry, Indian Institute of Science, Bengaluru 560012*; No. 551, MANOBEBA, 4th Cross, Tata Nagar, Kodegihalli, Bengaluru 560092 [Tel (080) 2293-2533 (O), 2351-5407 (R), 94-482-75407 (M); Fax 2360-1552, 2360-0683; Email arc@ipc.iisc.ernet.in; akhil_chakravarty@yahoo.co.in; Web http://www.ipc.iisc.ernet.in/arc.html]; SC: III.
2016 : CHAKRAVARTY, Charusita (b 1964), PhD, Sp: Chemical Sciences; FASc, Professor, Department of Chemistry, Indian Institute of Technology Delhi, Hauz Khas, New Delhi 110016; 102 Uttarakhand, Jawaharlal Nehru University, New Delhi 110067 [Tel (011) 2659-1510 (O), 98-108-04202 (M); Fax 2658-2122; Email charus@chemistry.iitd.ernet.in, charusita@gmail.com]; Medals: INSA Young Scientist (1996), AK Bose Memorial (1999); SC: III.

1979 : CHAKRAVORTY, Animesh (b 1935), PhD, DSc (hc), Sp: Inorganic & Structural Chemistry, History of Chemistry; FASc, FTWAS, Tata Chemicals Distinguished Emeritus Professor of Inorganic Chemistry, Department of Inorganic Chemistry, Indian Association for the Cultivation of Science, 2A & B, Raja SC Mullick Road, Jadavpur, Kolkata 700032; Flat 8/3, 6 Sunny Park, Kolkata 700019 [Tel (033) 2472-4436 (O), 2485-8327 (R), 94-338-01715 (M); Fax 2473-2805; Email animeshc31@gmail.com, icac@iacs.res.in; Web http://www.iacs.res.in/inorg/icac]; Professorship: INSA-Golden Jubilee Research Professor (1996-2001); Medal: Professor TR Seshadri 70th Birthday Commemoration (1988); Council: Mem 1987-89; SC: III.

1983 : CHAKRAVORTY, Dipankar (b 1937), MTech, PhD, DSc (hc), Sp: Materials Science; FASc, FTWAS, SERB Distinguished Fellow, Emeritus Professor and INSA Honorary Scientist, Indian Association for the Cultivation of Science, 2A & B, Raja SC Mullick Road, Jadavpur, Kolkata 700032; 8/1, Clarke Street, Kolkata 700026 [Tel (033) 2473-4971 (O), 2476-1351 (R); Fax 2473-2805; Email mlsdc@iacs.res.in]; Lecture: INSA Prize for Materials Science (2005); INSA Senior Scientist (2003-07); Council: Mem 1989-91, VP 1998-2000; SC: V.

2013 : CHANDRA, Amalendu (b 1963), PhD, Sp: Theoretical Physical Chemistry; FASc, Professor, Department of Chemistry, Indian Institute of Technology, Kanpur 208016; House No 632, Indian Institute of Technology, Kanpur 208016 [Tel (0512) 259-7241 (O), 259-8446 (R), 94-150-45276 (M); Fax 259-7436; Email amalen@iitk.ac.in]; Medal: INSA Young Scientist (1995); AK Bose Memorial (1997); SC: III.

1986 : CHANDRA, Hombe Gowda Sharat (b 1938), PhD, Sp: Human Genetics, Evolution; FASc, Hon. Director, Director, Centre for Human Genetics, Biotech Park, Electronic City, Phase I, Bengaluru 560100; Emeritus Professor, Department of Microbiology & Cell Biology, Indian Institute of Science, Bengaluru 560012; 192, 24th B Cross, 8th Main, 3rd Block, Jayanagar, Bengaluru 560011 [Tel (080) 2852-1833, 2852-3596 (O), 2663-9353 (R); Telefax 2852-1832; Email sharat@mcb.iisc.ernet.in, sharat@chg.res.in]; Lecture: JL Nehru Birth Centenary (1990); Council: Mem1993-95; SC: X.

1997 : CHANDRASKUMAR, Narayanan (b 1951), PhD, Sp: Magnetic Resonance Spectroscopy & Imaging, Chemical Physics, Physical Chemistry, Instrumentation; FASc, Professor, MRI-MRS Centre, Department of Chemistry, Indian Institute of Technology, Chennai 600036; formerly Director-Graduate Scientist, Chemical Physics, CSIR-CLRI, Chennai; H4-2, Southern Shelters Housing Complex, Kattupakkam, Chennai 600056 [Tel (044) 2257-4920 (O), 2679-1073 (R); Fax 2257-4202; Email nekumar@iitm.ac.in, chandrakumar.
1992 : CHANDRASEKARAN, Srinivasan (b 1945), PhD, Sp: Organic Synthesis, Organometallic Chemistry, Catalysis; FASc, FTWAS, Honorary Professor, Department of Organic Chemistry, Indian Institute of Science, Bengaluru 560012; 5, AECS Layout, III Stage, I Cross, 2nd Main, Nagasethihalli, Bengaluru 560094 [Tel (080) 2293-2404, 2360-2423 (O), 2351-2748 (R), 98-860-88344 (M); Fax 2360-0683, 2360-0529; Email scn@orgchem.iisc.ernet.in; Web http://www.orgchem.iisc.ernet.in]; Medal: Golden Jubilee Commemoration (Chem Sc) (2007); Lecture: JL Nehru Birth Centenary (2001); Council: 1998-2000; SC: III.

2000 : CHANDRASEKHAR, Jayaraman (b 1952) PhD, Sp: Computational Chemistry, Theoretical Organic Chemistry; FASc, Neurogen Corporation, 33, Northeast Industrial Road, Branford, CT 06405, USA; 73 Andover Road, Hamden, CT 06518, USA [Tel (203) 488-8201 Ext 4642 (O), 248-2045 (R); Fax 488-9540; Email Jayaraman_Chandrasekhar@nrgn.com]; SC: III.

2015 : CHANDRASEKHKAR, Srivari (b 1964), PhD, Sp: Organic Chemistry (Chemical Sciences); FASc, FNAsc, Director, CSIR-Indian Institute of Chemical Technology, Tarnaka, Hyderabad 500007; Flat No. 101 & 201, H No. 2-2-20/B/8, Plot No. 10, DD Colony, Hyderabad 500013 [Tel (040) 2719-3030/3210 (O), 2742-3675 (R), 94-408-02787 (M); Fax 2716-0512; Email srivaric@iict.res.in]; Medal: INSA Young Scientist (1996); SC: III.

2008 : CHANDRASEKHAR, Vadapalli (b 1958), PhD, Sp: Inorganic Chemistry; FASc, FNAsc, FTWAS, Director, National Institute of Science Education and Research, Institute of Physics Campus, Sachivalaya Marg, Bhubaneswar 751005 [Tel (0674) 230-2435 (O); Email vc@niser.ac.in]; Medal: INSA Young Scientist (1989), Golden Jubilee Commemoration (Chem Sc) (2013); SC: III.

1954 : CHANDRASEKHARAN, Komaravolu (b 1920), PhD, Sp: Analysis and Theory of Numbers; Professor Emeritus, Eidgenossische Technische Hochschule (ETH), Ramistrasse 101, 8092, Zurich, Switzerland; Hedwigstrasse 29, 8032 Zurich, Switzerland [Tel (44) 381-9686 (R); Web www.math.ethz.ch]; Medal: Srinivasa Ramanujan (1966); SC: I.

2003 : CHANDRASHEKAR, Tavarekere K (b 1956), PhD, Sp: Inorganic Chemistry of Biomolecules; FASc, FNAsc, FTWAS, Secretary, Science and Engineering Research Board, 5 & 5A, Lower Ground Floor, Vasant Square Mall, Vasant Kunj, New Delhi 110070; formerly Director, National Institute of Science Education & Research, Bhubaneswar and Director, CSIR-National Institute for Interdisciplinary Science and Technology, Thiruvananthapuram [Tel (011) 4000-0333 (O), 2613-5839 (R), 98-188-44936 (M); Fax 4000-0333; Email secretary.serb@nic.in]; Council: Mem 2009-11; SC: III.
2013 : CHAPLOT, Samrath Lal (b 1955), PhD, Sp: Condensed Matter Physics; FNASc, Distinguished Scientist and Director, Physics Group, Bhabha Atomic Research Centre, Trombay, Mumbai 400085; 2F, Malayagiri, Anushaktinagar, Mumbai 400094 [Tel (022) 2559-3883 (O), 2556-9768 (R); Fax 2550-5151, 2551-9613; Email chaplot@barc.gov.in]; SC: VI.

2012 : CHARY, Kandala Venkata Ramana (b 1954), PhD, Sp: Molecular Biophysics, Structural Biology and NMR Spectroscopy; FNASc, Senior Professor (I), Department of Chemical Sciences, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400005; 603, Meghnad, TIFR Housing Colony, Homi Bhabha Road, Mumbai 400005 [Tel (022) 2278-2489 (O), 2280-4860 (R); Fax 2280-4610; Email chary@tifr.res.in]; Medal: INSA Young Scientist (1986), AK Bose Memorial (1989); Lecture: Professor RK Asundi Memorial (2006); SC: X.

2008 : CHATTARAJ, Pratim Kumar (b 1958), PhD, Sp: Theoretical Chemistry, Nonlinear Dynamics; FASc, FNASc, FTWAS, Professor and Dean (Faculty), Department of Chemistry, Indian Institute of Technology, Kharagpur 721302; Qrs No A-46, IIT Kharagpur 721302 [Tel (03222) 283-304 (O), 283-305, 278-156 (R); Email pkc@chem.iitkgp.ernet.in; Web http://www.chem.iitkgp.ernet.in/faculty/PKC/web/index.php]; Medal: INSA Young Scientist (1990); SC: III.

1996 : CHATTERJEE, Indu Bhusan (b 1930), DSc, Sp: Biochemistry, Vitamin C, Oxidative Damage, Cigarette Smoke-Induced Lung Cancer, Urothelial Cancer, Emphysema and other Tissue Damage, Black Tea; INSA Honorary Scientist and Joint Co-ordinator, Department of Biotechnology and Dr BC Guha Centre for Genetic Engg & Biotechnology, University College of Science, 35 Ballygunge Circular Road, Kolkata 700019; formerly Professor of Biochemistry, Univ College of Science, Kolkata; 719 Lake Town, Block A, Kolkata 700089 [Tel (033) 2461-5445 Ext 393 (O), 2534-3917 (R), 98-304-93842 (M); Fax 2461-4849; Email ibc123@rediffmail.com, ibchatterjee123@gmail.com]; Lecture: BC Guha Memorial (1996); Council: Ad Mem 2014, 2015; SC: X.

1986 : CHATTERJEE, Smriti Narayan (b 1932), PhD, Sp: Biophysics, Microbiology, Molecular and Genetic Toxicology, Free Radicals Biology; FNASc, FAMS, formerly Senior Professor of Biophysics & Director, SINP, Kolkata; Block CF-69, Sector-I, Bidhannagar, Kolkata 700064 [Tel (033) 2334-6117/6118 (R), 98-311-80440 (M); Email sncac.08@gmail.com]; Lecture: Professor SN De Memorial (1996); INSA Senior Scientist (1992-97); SC: X.

1997 : CHATTERJI, Dipankar (b 1951), PhD, Sp: Biophysical Chemistry, Molecular Biology & Nanobiology; FASc, FNASc, FTWAS, Professor, Molecular Biophysics Unit, Indian Institute of Science, Bengaluru 560012; Honorary Professor, JNCASR, Bengaluru [Tel (080) 2360-0137, 2293-2836 (O), 2539-2055, 2360-5458 (R); Fax 2360-0535, 2360-0683; Email dipankar@mbu.iisc.ernet.in]; Lecture: BC Guha Memorial (2002); Council: Mem 2002-04; SC: X.
2002 : CHATTOO, Bharat Bhushan (b 1949), PhD, Sp: Molecular Biology, Biotechnology & Microbial Genetics; Professor and Coordinator, Biotechnology Programme, Genome Research Centre, Department of Microbiology and Biotechnology Centre, M S University of Baroda, Vadodara 390002 and Founder Vice Chancellor, Shri Mata Vaishno Devi University, Jammu; 15A, Punit Nagar Society, New Sama Road, Vadodara 390008 [Tel (0265) 279-4396, 279-3070 (O), 271-1979 (R); Fax 279-2508; Email bharat.chattoo@bcmsu.ac.in; chattoo@gmail.com]; Council: Mem 2008-10; SC: VII.

2006 : CHATTOPADHYAY, Amitabha (b 1956), PhD, Sp: Membrane Biology, Molecular & Cellular Neurobiology, Fluorescence Spectroscopy & Microscopy; FASc, FNASc, FRSC, JC Bose National Fellow, Outstanding Scientist (Director Level), CSIR-Centre for Cellular & Molecular Biology, Uppal Road, Hyderabad 500007; Adjunct Professor, Tata Institute of Fundamental Research, Mumbai; Indian Institute of Technology, Kanpur; RMIT University, Melbourne; IISER, Mohali & JNU, New Delhi; Honorary Faculty Member, JNCASR, Bengaluru [Tel (040) 2719-2578, 2716-0059 (O), 2701-5197 (R); Fax 2716-0311, 2716-0591; Email amit@ccmb.res.in; Web http://www.ccmb.res.in/staff/amit/Pages/Index.htm]; Medal: Professor GN Ramachandran 60th Birthday Commemoration (2015); Lecture: BC Guha Memorial (2008); SC: X.

1996 : CHATTOPADHYAY, Kamanio (b 1950), BE, MSc (Engg), PhD, Sp: Physical Metallurgy and Materials Engineering; FASc, FNASc, FNAE, Honorary Professor, Department of Materials Engineering, Indian Institute of Science, Bengaluru 560012; 410-411, Block-III, RMV Cluster, Phase II, 10/11 A, LT Halli, Devinagar Extn., Bengaluru 560094 [Tel (080) 2293-2262, 2360-1991, 98-459-49940 (M); Fax 2360-0472, 2360-1991; Email kamanio@materials.iisc.ernet.in]; Medal: INSA Young Scientist (1979); SC: V.

2013 : CHATTOPADHYAY, Samit (b 1959), PhD, Sp: Gene Regulation, Cancer Biology and Immunology; FASc, FNASc, FTWAS, JC Bose National Fellow, Director, CSIR-Indian Institute of Chemical Biology, 4, Raja SC Mullick Road, Jadavpur, Kolkata 700032; B2-10, Harmony Society, Nagras Road, Aundh, Pune 411007 [Tel (033) 2473-5368, 2413-1157 (O), 020) 2589-6121 (R), 98-234-09155 (M); Fax (033) 2473-5197; Email director@iicb.res.in, samit@iicb.res.in; Web http://www.iicb.res.in]; SC: X.

2009 : CHATTOPADHYAY, Sudip (b 1960), PhD, Sp: Plant Sciences (Developmental Biology); FASc, FNASc, Professor, Department of Biotechnology, National Institute of Technology, Mahatma Gandhi Avenue, Durgapur 713209, West Bengal; House No. 73, Shilpakanan, Sector 2A, Bidhannagar, Durgapur 713206, West Bengal [Tel (0343) 275-4030, 275-5209 (O); Fax 254-7375; Email sudipchatto@gmail.com, sudip.chattopadhyay@bt.nitdgp.ac.in; Web http://www.nitdgp.ac.in/bt/faculty.php]; SC: VII.
1989 : CHATTORAJ, Dipti Kumar (*1930)*, PhD, DSc, Sp: Surface Chemistry, Biophysical Chemistry; INSA Honorary Scientist, formerly Professor & Head, Department of Food Technology and Biochemical Engineering, Jadavpur University, Kolkata 700032; EC 258, Sector 1, Salt Lake, Kolkata 700064 [Telefax (033) 2414-6822, 2414-6233 (O), 2337-5420 (R); Email dkchattoraj@gmail.com]; INSA Senior Scientist (1995-99); SC: III.

1987 : CHATURVEDI, Umesh Chandra (*1939)*, MD, MRCPath, Sp: Medical Microbiology, Virology, Immunology; FASc, FNASc, FAMS, FRCPath(Lond), Scientific Consultant, ICMR, Department of Health Research; formerly Chairman, Bharat Immunologicals and Biologicals Corp Ltd; Emeritus Scientist (CSIR), Professor and Head, Department of Microbiology, KG Medical College, Lucknow; CSIR Emeritus Scientist, ITRC, Lucknow; 201, Annapurna Apts, I, Bishop Rockey Street, Faizabad Road, Lucknow 226007 [Tel (0522) 402-6202 (R), 233-2770 (Study), 94-509-13506 (M); Email uchaturvedi201@gmail.com]; Lecture: Dr TS Tirumurti Memorial (2007); INSA Honorary Scientist (2008); SC: XI.

2005 : CHAUDHARI, Raghunath Vitthal (*1948)*, PhD, Sp: Homogeneous & Heterogeneous Catalysis, Reaction Engineering, Multiphase Reactors, Biomass Conversion to Chemicals and Fuels; FASc, FNCAE, Deane E. Ackers Distinguished Professor, Chemical & Petroleum Engineering Department, Center for Environmentally Beneficial Catalysis, The University of Kansas, 1501 Wakarusa Drive, Room 112B, Lawrence, KS 66047-1803, USA; 6109, Palisades Drive, Lawrence 66049, USA [Tel 1-785-864-1634 (O), 1-785-218-0036 (R), Fax 1-785-864-6051; Email rvc1948@ku.edu; Web http://www.cebc.ku.edu]; SC: V.

2007 : CHAUDHURI, Bidyut Baran (*1950)*, PhD, Sp: Computer Science and Engineering; FNASc, FNCAE, FIEEE, FTWAS, Professor and Head, Computer Vision and Pattern Recognition Unit, Indian Statistical Institute, 203, Barrackpore Trunk Road, Kolkata 700108; 87/29, A K Mukherjee Road, Kolkata 700090 [Tel (033) 2575-2852, 2575-2850 (O), 90-383-29290 (M); Fax 2575-3035, 2575-1832; Email bbcisical@gmail.com, bbc@isical.ac.in]; SC: V.

1991 : CHAUDHURI, Mihir Kanti (*1947)*, PhD, Dr rer nat, Sp:Inorganic Chemistry; FASc, Vice Chancellor, Tezpur University, Tezpur 784028, Assam [Tel (03712) 267-003 (O), 267-093 (R), 99-544-40454 (M); Fax 267-006; Email mkc@tezu.ernet.in]; Council: VP 2013-15; SC: III.

2009 : CHAUDHURI, Probab (*1963)*, PhD, Sp: Statistics; FNASc, Professor, Theoretical Statistics and Mathematics Unit, Indian Statistical Institute, 203, Barrackpore Trunk Road, Kolkata 700108; 8-Ramlal Agarwalla Lane, Kolkata 700050 [Tel (033) 2575-3414 (O), 98-317-89429 (M); Email probal@isical.ac.in]; SC: I.
2012 : CHAUDHURI, Subhasis (b 1963), PhD, Sp: Computer Vision and Image Processing; FASc, FNASc, FNAE, FIEEE, Professor and Deputy Director (AIA), Department of Electrical Engineering, Indian Institute of Technology Bombay, Powai, Mumbai 400076; Qtr No B-130, IIT Bombay, Powai, Mumbai 400076 [Tel (022) 2576-7010 (O), 2576-8437 (R); Fax 2572-3707; Email sc@ee.iitb.ac.in]; Council: Mem 2016-; SC: V.

1999 : CHAUHAN, Virander Singh (b 1950) DPhil, Sp: Peptides as Self Organizing System and a Drug Delivery Platforms, Malaria Immunology, Subunit Vaccine and Malaria Drug Development; FASc, FNASc, FTWAS, Member UGC and Chairman NAAC, Malaria Group, International Centre for Genetic Engineering & Biotechnology, Aruna Asaf Ali Marg, New Delhi 110067; B-23, Geetanjali Enclave, New Delhi [Tel (011) 2674-2317 (O), 2669-3040 (R); Fax 2674-2316; Email virander@icgeb.res.in, viranderschauhan@gmail.com; Web http://www.icgeb.org]; Lecture: JL Nehru Birth Centenary (2006); Council: Mem 2015-; SC: X.

1993 : CHAWLA, Man Mohan (b 1939), PhD, Sp: Financial Mathematics, Computational ODEs & PDEs, Parallel Algos in Lin Algebra; formerly Professor, Department of Mathematics, IIT, Delhi; X-027, Regency Park II, DLF City Phase IV, Gurgaon 122002 [Tel (0124) 404-1464 (R); Email drmmchawla@yahoo.com]; SC: I.

2014 : CHHABRA, Rajendra Prasad (b 1953), PhD, Sp: Chemical Engineering; FASc, FNASc, FNAE, Professor, Department of Chemical Engineering, Indian Institute of Technology, Kanpur 208016; 427, IIT Campus, Indian Institute of Technology, Kanpur 208016 [Tel (0512) 259-7393 (O), 259-8916 (R), 98-397-41317 (M); Fax 259-0104; Email chhabra@iitk.ac.in]; SC: V.

1978 : CHIDAMBARAM, Rajagopala (b 1936), PhD, DSc (IISc), DSc (hc), Sp: Materials Science and Crystallography, High Pressure Physics and Nuclear Technology; FASc, FNASc, FNAE, FTWAS, DAE Homi Bhabha Professor, Bhabha Atomic Research Centre, Trombay, Mumbai 400085 and Principal Scientific Adviser, GoI, Room No 319, Vigyan Bhawan Annex, New Delhi 110011; 405/406 Apollo, Raheja Acropolis I, Deonar, Mumbai 400088 [Tel (022) 2550-5305 (O) (Mumbai), (011) 2302-2112 (O) (Delhi), (022) 2556-1315 (R); Fax (022) 2550-5132 (BARC), (011) 2302-2113 (PSA); Email rc@barc.gov.in, rajachid@nic.in]; Medal: Meghnad Saha (2002), CV Raman (2013); Visiting Fellowship: JL Nehru Birth Centenary (1992); Council: Mem 1988-90; SC: II.

2015 : CHITNIS, Chetan Eknath (b 1961), PhD, Sp: Molecular Parasitology; FASc, Head, Malaria Parasite Biology and Vaccines Unit, Department of Parasites and Insect Vectors, Institut Pasteur, 28 Rue du Dr. Roux, Paris 75015; 113 Rue Cambronne, Paris 75015 [Tel (+33) (1) 4438-9428 (O), 4783-5393 (R), (+33) 7 87 85 6133 (M); Email chetan.chitnis@pasteur.fr]; SC: IX.
1988 : CHITRE, Shashikumar Madhusudan (b 1936), PhD, Sp: Theoretical Astrophysics; INSA Honorary Scientist & Professor Emeritus, Centre for Excellence in Basic Sciences, University of Mumbai, Kalina Campus, Santa Cruz (E), Mumbai 400098; 201, Vigyanshila Co-operative Housing Society, Juhu-Versova Link Road, Andheri (W), Mumbai 400061 [Tel (022) 2652-4984 (O), 2635-3812 (R), 98-193-66447 (M); Fax 2652-4982; Email kumarchitre@gmail.com]; Medal: INSA-Vainu Bappu Memorial (1995); Council: Mem1997-99; SC: II.

2013 : CHOCKALINGAM, Ananthanarayanan (b 1962), PhD, Sp: Electrical Engineering (Communications); FNAE, Professor, Department of Electrical Communication Engineering, Indian Institute of Science, Bengaluru 560012; 29 AECS, 2nd Stage Layout, 2nd Main, Nagasetthalli, Bengaluru 560094 [Tel (080) 2293-3156 (O), 89-714-74971 (M); Fax 2360-0563; Email achockal@ece.iisc.ernet.in; Web http://ece.iisc.ernet.in/~achockal, http://wrl.ece.iisc.ernet.in]; SC: V.

2004 : CHOKSHI, Atul Harish (b 1958), PhD, Sp: Metallurgy and Materials Science; Professor, Department of Materials Engineering, Indian Institute of Science, Bengaluru 560012; NE 01, IISc Campus, Bengaluru 560012 [Tel (080) 2293-2684 (O); Fax 2360-0472, 2360-0683; Email achokshi@materials.iisc.ernet.in]; SC: V.

1978 : CHOPRA, Kasturi Lal (b 1933), PhD, Sp: Solid State Physics, Science and Technology of Thin Films and Nanomatter; FASc, FNAsc, FNAE, Chairman BoG, BBIT & HDF-SoM, Honorary Professor, IIT Delhi, IIT Bhb, Iiest and IMT; Advisor, Thin Film Laboratory, Department of Physics, Indian Institute of Technology Delhi, New Delhi 110016; President, Society for Scientific Values; formerly Director, IIT, Kharagpur; M-70, Kirti Nagar, New Delhi 110015 [Tel (011) 2515-4114 (R), 92-134-33266 (M); Email choprakl@yahoo.com, choprakl@gmail.com]; Medal: PC Mahalanobis (1996), Aryabhata (2004); Lecture: KS Krishnan Memorial (1992); Council: Mem 1988-90; SC: II.

1982 : CHOPRA, Virender Lal (b 1936), PhD (Edinb), DSc (hc), Sp: Genetics, Crop Improvement, Biotechnology; FASc, FNAsc, FNAAS, FTWAS, formerly Member, Planning Commission and Secretary (DARE) & DG, ICAR, New Delhi; A-3/210 A, Janakpuri, Delhi 110058; 63, Housing Board Colony, Bindraban, Palampur 176061 (HP) [Tel (Delhi) (011) 2555-3747 (R), 98-103-43925 (M); Fax 2584-3984; (Palampur) 88-942-73848 (M), Fax (01894) 230-433; Email virenderchopra@yahoo.com, virenderchopra1936@gmail.com]; Medal: Silver Jubilee Commemoration (1991), Aryabhata (2002); Council: Mem 1986, Ed Pub 1987-90, Ad Mem 2001; SC: VII.

2004 : CHAUDARY, Boyapati Manoranjan (b 1946), PhD, Sp: Catalysts and Nano-Materials to Nano-Medicines; FASc, Managing Director, Ogene Systems India Ltd., 5/A, Second Floor, Vengal Rao Nagar, Hyderabad 500038; Plot No. 154, New MLA’s and MP’s Colony, Road No. 10C, Jubilee Hills, Hyderabad 500033 [Tel (040) 2381-5560 (O), 2355-1539 (R), 99-089-11103 (M); Fax 2381-5561; Email bmc@ogene.co.in]; SC: III.
2003 : CHOUDHARY, Vasant Ramchandra (b 1944), PhD, Sp: Catalysis and Chemical Reaction Engineering; FASc, FNASc, NASI-Senior Scientist, Chemical Engineering Division, CSIR-National Chemical Laboratory, Pune 411008; “VASANTASHA” (behind Hotel Seasons), 1-Green Park, Off D.P. Road, Near New Petrol Pump, Aundh, Pune 411007 [Tel (020) 6526-5508 (R); Email vrc0001@yahoo.co.in]; SC: V.

2011 : CHOUDHURI, Arnab Rai (b 1956), PhD, Sp: Theoretical Astrophysics, Solar Physics, Magnetohydrodynamics; FASc, FNASc, Professor, Department of Physics, Indian Institute of Science, Bengaluru 560012; DQ-5, New Housing Colony, IISc Campus, Bengaluru 560012 [Tel (080) 2360-3481 (O), 2360-3664 (R); Fax 2360-2602; Email arnab@physics.iisc.ernet.in]; SC: II.

2014 : CHOUDHURY, Debajyoti (b 1964), PhD, Sp: Theoretical High Energy Physics; FASc, Professor, Department of Physics and Astrophysics, University of Delhi, New Delhi 110007; 87 Mandakini Enclave, Kalkaji, New Delhi 110019 [Tel (011) 2627-1536 (R), 92-132-11830 (M); Email debajyoti.choudhury@gmail.com]; SC: II.

2015 : CHOWDHURY, Abhijit (b 1959), MD, DM, Sp: Health Sciences: Hepatology; FNASc, Professor & Head, Department of Hepatology, School of Digestive and Liver Diseases, Institute of Post Graduate Medical Education & Research/ SSKM Hospitals, Ronald Ross Buildings, R No. 13, 244, AJC Bose Road, Kolkata 700020; CC 502, Ashabari Housing Complex, Baishanab Ghata Patuli Township, Kolkata 700094 [Tel (033) 2204-1323 (O), 2462-5359 (R), 94-330-45435 (M); Fax 2223-6383; Email achowdhury2002@yahoo.co.in]; SC: XI.

2011 : CHOWDHURY, Debasish (b 1957), PhD, Sp: Statistical Physics, Biological Physics; FASc, FNASc, JC Bose National Fellow, Professor, Department of Physics, Indian Institute of Technology, Kanpur 208016; House No. 407, IIT Campus, Kanpur 208016 [Tel (0512) 259-7039 (O), 259-8465 (R); Fax 259-0914; Email debch@iitk.ac.in, debchg@gmail.com; Web http://home.iitk.ac.in/~debch/index.html]; Medal: INSA Young Scientist (1989); SC: II.

1980 : CHOWDHURY, Mihir (b 1937), PhD, Sp: Physical Chemistry; FASc, 50-U, Garcha Road, Kolkata 700019 [Tel (033) 2461-9625 (R); Email sunanda44@gmail.com]; Lecture: Professor KR Rao Memorial (1989), Professor Sadhan Basu Memorial (2002); INSA Senior Scientist (2003-08); Council: Mem1991-93; SC: III.

1986 : COWSIK, Ramanath (b 1940), PhD, Sp: Astrophysics, Elementary Particles, Cosmology and Gravitation; FASc, FNASc, FTWAS, Foreign Assoc US NAS, Professor of Physics and Director, McDonnell Centre for the Space Sciences, Washington University in St. Louis, One Brookings Drive, Campus Box 1105, St Louis, MO 63130, USA; Distinguished Professor (retd), TIFR [Tel (001-314) 935-4493 (O), 727-5959 (R); Fax (001-314) 935-4134; Email cowski@physics.wustl.edu]; Medal: INSA-Vainu Bappu Memorial (1997); Lecture: JL Nehru Birth Centenary (2002); Council: Mem1994-96; SC: II.
1990 : DANI, Shrikrishna Gopalrao (b 1947), PhD, Sp: Ergodic Theory, Lie Groups, Probability Measures on Groups, History of Mathematics; FASc, FNASC, FTWAS, Distinguished Professor, Department of Mathematics, Indian Institute of Technology Bombay, Powai, Mumbai 400076 [Tel (022) 2576-7453 (O), 97-572-82263 (M); Fax 2572-3480; Email shrigodani@gmail.com]; Medal: INSA Young Scientist (1976), Srinivasa Ramanujan (2010); Council: Mem 2006-08; SC: I.

2005 : DAS, Bhudev Chandra (b 1948), PhD, Sp: Molecular Virology and Human Molecular Genetics; FASc, FNASC, FAMS, JC Bose National Fellow, Chairman and Hargobind Khorana Chair Professor, Amity Institute of Molecular Medicine & Stem Cell Research (AIMMSCR), Amity University, Sector-125, Noida 201313; formerly Director, ACBR, University of Delhi and Founder Director, ICPO (ICMR), Noida 201301; ‘ANUBHAV’, A-10, Sector 56, Noida 201301 [Tel (0120) 458-6855 (O), 427-5392 (R), 98-105-66870, 98-105-37835 (M); Fax 439-2114; Email bcdas@amity.edu, bcdas48@hotmail.com; Web http://www.amity.edu]; SC: XI.

1985 : DAS, Biswa Nath (b 1930), MSc (Tech), PhD, Sp: Electronics & Communication Engineering, Antenna & Microwave Engineering, Electromagnetics; FNAE, INSA Honorary Scientist, formerly Professor, CSIR Emeritus Scientist & Emeritus Professor, Department of Electronics & Elect Comm Engg, IIT Kharagpur, Kharagpur 721302; UNIDO Expert, SAMEER, Taramani, Chennai 600113, Sumitralaya, 62 (N), Prembazar, PO Hijli Coop, Kharagpur 721306 [Tel (03222) 27-8050]; Medal: Professor Brahm Prakash Memorial (1995); PC Mahalanobis (1999); INSA Senior Scientist (1996-2001); Council: Mem1993-95; SC: V.

1991: DAS, Hirendra Kumar (b 1933), MSc Tech, PhD, DSc, Sp: Biochemistry, Molecular Biology & Recombinant DNA Technology; INSA Honorary Scientist, National Research Centre for Plant Biotechnology, IARI Campus, New Delhi 110012; formerly Professor and Chairperson, Centre for Biotechnology and formerly Director, Genetic Engg Unit, JNU, New Delhi; B-9/6324, Vasant Kunj, New Delhi 110070 [Tel (011) 2689-5424 (R); Email hirendas@hotmail.com]; SC: X.

2007 : DAS, Pijush Kanti (b 1952), PhD, Sp: Biochemistry, Cell Biology, Molecular Parasitology; FASc, FNASC, NASI Senior Scientist, CSIR-Indian Institute of Chemical Biology, 4 Raja SC Mullick Road, Jadavpur, Kolkata 700032; 35 Justice Chandra Madhab Road, Kolkata 700020 [Tel (033) 2414-0921 (O), 2476-9216, 2486-1729 (R); Email pijushdas@iicb.res.in, pijush52@gmail.com]; Medal: JC Bose (2013); Lecture: Professor Vishwa Nath Memorial (2012); SC: X.

2014 : DAS, Pradeep (b 1956), PhD, Sp: Medical Biotechnology and Molecular Parasitology; FNASC, Director, Rajendra Memorial Research Institute of Medical Sciences, Agam Kuan, Patna 800007 & Project Director, NIPER, Hajipur; Rajendra Memorial Research Institute of Medical Sciences, Agamkuan, Patna 800007 [Tel (0612) 263-1565 (O), 94-310-12380 (M); Fax 263-4379; Email drpradeep.das@gmail.com, rmrims@icmr.org.in]; SC: XI.
2001 : DAS, Premananda (b 1942), PhD, DSc, DSc (hc), Sp: Biotechnology of Woody Plants & Horticultural Crops; FNASc, FNAAS, Chairman & Director, The Science Foundation for Tribal and Rural Resource Development, C-122 (HIG), State Housing Board Colony, Baramunda, Bhubaneswar 751003 [Tel (0674) 235-5505 (O), 235-5970 (R), 94-370-07970 (M); Email profpdas@gmail.com, research@sftrrd.in; Web www.profpremanandadas.com, www.sftrrd.in]; SC: XII.

2009 : DAS, Sampa (b 1951), PhD, Sp: Plant Molecular Biology, Plant Biotechnology; INSA Senior Scientist, Senior Professor, Division of Plant Biology, Bose Institute, P-1/12, CIT Scheme, VII (M), Kolkata 700054; A13 Cluster 14, Purbachal Housing Estate, Salt Lake, Kolkata 700097 [Tel (033) 2569-3251 (O), 2335-9393 (R); Fax 2335-3886; Email sampa@bic.boseinst.ernet.in, sampadpb@gmail.com]; SC: VII.

2012 : DAS, Saumitra (b 1962), PhD, Sp: Molecular Virology and Molecular Biology; FASc, FNASc, Professor, Department of Microbiology and Cell Biology, Indian Institute of Science, Bengaluru 560012; NE 301, New Housing Colony, Indian Institute of Science, Bengaluru 560012 [Tel (080) 2293-2886 (O), 94-484-79632 (M); Fax 2360-2697; Email sdas@mcbl.iisc.ernet.in]; Lecture: Dr MR Das Memorial (2011); SC: X.

2011 : DAS, Suresh (b 1955), PhD, Sp: Photochemistry, Photophysics, Liquid Crystals, Organic Functional Materials, Photoresponsive Materials, NIR Absorbing Dyes, Dye Sensitized Solar Cells; FASc, Director, CSIR-National Institute for Interdisciplinary Science and Technology (NIIST), Thiruvananthapuram 695019 [Tel (0471) 249-0324, 251-5226 (O), 254-4309 (R); Fax 249-1712; Email sureshdas@niist.res.in, sureshdas55@gmail.com]; SC: III.

1985 : DASANNACHARYA, Balebail Anantha (b 1937), PhD, Sp: Condensed Matter Physics, Neutron and X-ray Scattering; FASc, formerly Director, Inter-University Consortium for DAE Facilities, Indore and Director, Solid State & Spectroscopy Group and Multi Disciplinary Technology Group, BARC, Mumbai; Flat 4, Beach Resort Cooperative Housing Society, Plot 1, Sector 10A, Vashi, Navi Mumbai 400703 [Tel (022) 2766-3957 (R), 98-690-24550 (M); Email adasannacharya@gmail.com]; Medal: HJ Bhabha (1999); Council: Mem 2000-02; SC: II.

2003 : DASGUPTA, Chanchal Kumar (b 1945), PhD, Sp: Biochemistry and Biophysics; FASc, FNASc, INSA Senior Scientist, Department of Life Science and Biotechnology, Jadavpur University, Kolkata 700032; EE-72/2, Salt Lake, Kolkata 700091 [Tel 90-078-89857 (M); Email chanchaldg2000@yahoo.com]; Council: Ad Mem 2005-13; SC: X.

2000 : DASGUPTA, Chandan (b 1951), PhD, Sp: Theoretical Condensed Matter Physics and Statistical Mechanics; FASc, FNASc, FTWAS, Professor, Department of Physics, Indian Institute of Science, Bengaluru 560012; Flat No.7, 55/1, 4th Main Road, Malleswaram, Bengaluru 560055 [Tel (080) 2360-3924 (O), 2334-5417 (R); Fax 2360-2602, 2360-0683; Email cdgupta@physics.iisc.ernet.in]; SC: II.
2014: DASGUPTA, Indranil (b 1958), PhD, Sp: Plant Viruses and Plant-Virus Interactions; FASc, FNASc, Professor, Department of Plant Molecular Biology, University of Delhi, South Campus, Benito Juarez Road, New Delhi 110021; A-401, Prabha Apartments, Sector-23, Plot-11, Dwarka, New Delhi 110075 [Tel (011) 2411-1639, 2411-6113 (O), 4277-8520 (R), 99-103-34110 (M); Fax 2411-5270; Email indranil58@yahoo.co.in]; SC: VII.

1999: DASGUPTA, Somnath (b 1951) PhD, Sp: Metamorphic Petrology, Geochemistry, Precambrian Geology; FASc, FNASc, FTWAS, Chair Professor, Department of Geography, Faculty of Natural Sciences, Jamia Millia Islamia, New Delhi 110025 [Tel 98-311-67145 (M); Email somnathdasg@gmail.com]; Award: INSA Teachers Award (2014); Council: Mem 2009-11; SC: IV.

2013: DASH, Debarabata (b 1958), MD, PhD, DSc, Sp: Biochemistry, Thrombus/Platelet Biology, Translational Nanomedicine; FASc, FAMS, Professor and Head, Department of Biochemistry, Institute of Medical Sciences, Banaras Hindu University, Varanasi 221005; 19, Old Medical Enclave, Banaras Hindu University, Varanasi 221005 [Tel (0542) 670-3243 (O), 236-9300 (R), 93-369-10665 (M); Fax 236-7568; Email ddash.biochem@gmail.com]; SC: XI.

1979: DASS, Chunchinkatte Melkote Srinivas (b 1926), PhD (Mysore & Wisconsin), Sp: Cell Biology-Cellular Ultrastructure & Function, Silk Worm Pathology; formerly Professor & Head, Department of Zoology, University of Delhi, Delhi; 122/23 VII B Main Road, 4th Block, Jayanagar Extn., Bengaluru 560011 [Tel (0812) 2653-3014 (R); Email chunchinkatte@gmail.com]; Medal: SL Hora (1990); SC: VIII.

2005: DATTA, Alok Kumar (b 1946), PhD, Sp: Enzymology, Molecular Biology, Parasitology; FASc, INSA Senior Scientist, CSIR-Indian Institute of Chemical Biology, 4, Raja SC Mullick Road, Jadavpur, Kolkata 700032; formerly Director Grade Scientist and Head, Division of Structural Biology & Bioinformatics; Calcutta Greens (HIG-A 4/7/28), 1050/2, Survey Park, Santoshpur, Kolkata 700075 [Tel (033) 2499-5734 (O), 2416-2995 (R); Email alokdatta@iicb.res.in, mail_alokd@yahoo.co.in]; SC: X.

2004: DATTA, Amitava (b 1948), PhD, Sp: Particle Physics; INSA Senior Scientist, Department of Physics, University of Calcutta, 92 APC Rd, Kolkata 700009; 34 B, Raja Ram Mohan Sarani, Kolkata 700009 [Tel (033) 2350-8386 Ext 407 (O), 2350-2365 (R), 93-310-83440 (M); Email adatta_ju@yahoo.co.in]; SC: II.

1988: DATTA, Asis (b 1944), PhD, DSc, Sp: Biochemistry, Molecular Biology & Genetic Engineering; FASc, FNASc, FTWAS, Distinguished Scientist, National Institute of Plant Genome Research (NIPGR), Aruna Asaf Ali Marg, JNU Campus, New Delhi 110067; formerly Founder Director and Professor of Eminence, NIPGR and VC, JNU, New Delhi; House No. 182, The National Media Centre Co-operative House Building Society Ltd., Shankar Chowk, NH-8, Gurgaon 122001, Haryana [Tel (011) 2674-2750, 2673-5119 (O), (0124) 420-5590 (R); Fax 2674-1759, 2674-1658; Email asis_datta@nipgr.ac.in,
asis_datta@rediffmail.com, asisdatta@hotmail.com; Lecture: Dr Nitya Anand Endowment (1993), JL Nehru Birth Centenary (1999), BN Chopra (2004); Council: Ad Mem 1997; Mem 2002-04; SC: X.

1994: DATTA, Kasturi (b 1943), PhD, Sp: Biotechnology, Molecular & Cell Biology; FASc, FNASc, FTWAS, DBT-Distinguished Biotechnology Professor, School of Environmental Sciences & Adjunct Professor Special Centre for Molecular Medicine; formerly Professor & Dean, School of Environmental Sciences, Jawaharlal Nehru University, New Delhi 110067; H.No. 182, National Media Centre Cooperative House Building Society Ltd., Shankar Chowk, Gurgaon 122001 [Tel (011) 2670-4327 (O), (0124) 420-5590 (R), 98-103-26590 (M); Fax (011) 2674-1502, 2674-1586; Email kdatta@mail.jnu.ac.in, datta_k@hotmail.com; Web www.jnu.ac.in/faculty/kdata]; Lecture: Professor MRN Prasad Memorial (2001); Professor Darshan Ranganathan Memorial (2003); Council: Mem 1999-2001; SC: VIII.

2014: DATTA, Swapan Kumar (b 1953), PhD, Sp: Plant Biotechnology; FNASc, FNAAS, Pro-Vice Chancellor & Professor of Crop Science, Visva-Bharati University, Santiniketan 731235; Rashbehari Ghosh Chair Professor, Botany Department, Calcutta University; B-7, NASC Complex, DPS Marg, New Delhi 110012 [Tel (011) 2338-2545 (O), 87-686-44777 (M); Fax 2309-7003; Email swpndatta@yahoo.com]; SC: XII.

1980: DATTA MUNSHI, Jyoti Swarup (b 1930), PhD, Sp: Fish & Fisheries, Ecology & Cell Biology; FNASc, formerly Professor and Head, PG Department of Zoology, TM Bhagalpur Univ, Bhagalpur 812007; P-124A, Usha Park, Kolkata 700084 [Tel (033) 2410-2641 (R); Email jsmunshi@yahoo.co.in]; Medal: Chandrakala Hora Memorial (1992); INSA Senior Scientist (1996-2000); Council: Mem 1982-83; SC: VIII.

1994: DATTAGUPTA, Sushanta (b 1947), PhD, Sp: Structure and Dynamics of Condensed Matter; FASc, FTWAS, FNASc, Vice-Chancellor, Visva Bharati, Shantiniketan; formerly Professor & Director, IISER, Kolkata; formerly Director, SN Bose Centre, Kolkata and Honorary Professor, JNCASR [Tel (03463) 262-451 (O), (033) 6451-2764 (R); Email vice-chancellor@visva-bharati.ac.in, sushantad@gmail.com]; Medal: INSA Young Scientist (1977), CV Raman (2010); Council: F Sec 1998-99, VP 2000; SC: II.

1987: DEB, Bidyendu Mohan (b 1942), DPhil (Oxon), Sp: Theoretical Chemistry & Chemical Physics; FASc, FTWAS, INSA Senior Scientist and Honorary Scholar-in-Residence, Visva-Bharati University, Santiniketan, West Bengal; formerly ISRO Vikram Sarabhai Research Professor, JNCASR, Bengaluru; Adjunct Professor, Indian Institute of Science Education & Reseach, Kolkata; 48/29 Swiss Park, Ground Floor, Kolkata 700033 [Tel (033) 2424-5644 (R), 98-307-99629 (M); Email bmdeb@yahoo.co.in]; Lecture: Professor Sadhan Basu Memorial (1999); SC: III.

2011: DEB, Kalyanmoy (b 1962), PhD, Sp: Optimization and Evolutionary Computation; FASc, FNASc, FNAE, Professor, Department of Electrical and Computer Engineering, Michigan State University, 428 S. Shaw Lane, 2120 EB, East Lansing, MI 48824, USA; 4288 Indian Glen, Okemos, MI 48864, USA [Tel (+1) 517-432-2144 (O), 517-930-0846 (M); Fax 517-353-1980; Email kdeb@egr.msu.edu]; SC: V.
2002: DEB, Mihir (b 1945), PhD, Sp: Ore Geology, Geochemistry, Precambrian Geology, Mining Environment & Sustainable Development; Professor (Retd), INSA Senior Scientist, Department of Geology, University of Delhi, Delhi 110007 [Tel (011) 2766-6247 (O), 2613-1157 (R), 98-103-33889 (M); Email mihirdeb@gmail.com, mihir.deb@rediffmail.com]; SC: IV.

1985: DEEKSHATULU, Bulusu Lakshmana (b 1936), ME, PhD, Sp: Image Processing, Remote Sensing, Control Systems; FASc, FNASc, FNAE, FTWAS, FNAAS, FIEEE, Distinguished Fellow IDRBT (RBI-Govt. of India) Hyderabad, Chairman, BoG CoE, JNTUH, Telangana; President, AP Academy of Sciences; formerly Distinguished Scientist & Director, NRSA, Hyderabad; 10-3-123/3, East Maredpally, Secunderabad 500026, Telangana [Tel (040) 2773-2423 (R), 99-084-99081 (M); Email deekshatul@hotmail.com]; Medal: Professor Brahm Prakash Memorial (1992); SC: V.

1974: DEO, Madhav Gajanan (b 1932), MD, PhD, Sp: Pathology, Oncology, Molecular Medicine; FASc, FAMS, INSA Senior Scientist, Honorary Visiting Professor, School of Health Sciences, University of Poona, Pune; formerly Director, Cancer Research Institute, Mumbai; Vice President & Secretary (Hon), Moving Academy of Medicine and Biomedicine, Pune 411052; C-13, Kubera Gulshan Apartments, DP Road, Aundh, Pune 411007 [Tel (020) 2544-9649 (O), 2589-3128 (R), 99-224-03266 (M); Email deo.madhav@gmail.com, mgdmamb@gmail.com]; Lecture: BC Guha Memorial (1978); Visiting Fellowship: JL Nehru Birth Centenary (1993); Council: Sec 1977-80; SC: XI.

2005: DESAI, Uday Babulal (b 1951), PhD, Sp: Wireless Communication, Cyber Physical Systems, Internet of Things (IoT), Signal Processing, Image and Video Processing; Director, Indian Institute of Technology, Hyderabad, Ordinance Factory Estate, Yeddumailaram 502205, TS [Tel (040) 2301-6002; Fax 2301-6003; Email ubdesai@iith.ac.in]; SC: V.

2001: DESIRAJU, Gautam Radhakrishna (b 1952), PhD, Sp: Structural Chemistry; FASc, FNASc, FTWAS, Immediate Past President, IUCr; Professor, Solid State and Structural Chemistry Unit, Indian Institute of Science, Bengaluru 560012; 36/18, 9th Main Road, Rajamahal Vilas Extension, Bengaluru 560080 [Tel (080) 2293-3311 (O), 2361-6008 (R); Fax 2360-2306; Email desiraju@sscu.iisc.ernet.in; Web http://sscu.iisc.ernet.in/gautam_r_desiraju.html]; Council: Mem 2006-08; SC: III.

2001: DEY, Alok (b 1945), PhD, Sp: Statistics; FNASc, NASI-Senior Scientist Platinum Jubilee Fellow and Visiting Scientist, Indian Statistical Institute, 7, SJS Sansanwal Marg, New Delhi 110016; formerly Professor, ISI, New Delhi; B-17/S-1, Dilshad Garden, Delhi 110095 [Tel (011) 4149-3940 (O), 2257-4022 (R); Fax 4149-3981; Email aloke.dey@gmail.com]; INSA Senior Scientist (2008-12); Council: Mem 2010-12; SC: I.
2007: DEY, Chinmoy Sankar (b. 1961), PhD, Sp: Cell Biology, Molecular Biology, Insulin Signaling, Diabetes, Drug Resistance in Leishmania; JC Bose National Fellow, Professor, School of Biological Sciences, Indian Institute of Technology Delhi, Hauz Khas, New Delhi 110016 [Tel (011) 2659-7523 (O), 2659-1808 (R), 95-602-79888 (M); Fax 2659-7530; Email csdey@bioschool.iitd.ac.in; Web http://csdey.org]; SC: XI.

2016: DEY, Gautam Kumar (b. 1957), PhD, Sp: Development of Zirconium, Niobium and Nickel Based Alloys, Amorphous Alloys, Electron Microscopy, Joining of Materials; FNAE, FASc, Distinguished Scientist, Associate Director, Materials Group and Head, Materials Science Division, BARC; Professor & Dean-Academic (Engg. Sciences), Homi Bhabha National Institute, Trombay, Mumbai 400085; 38, Sreeniketan, Anushaktinagar, Mumbai 400094 [Tel (022) 2559-5063 (O), 2550-2075 (R), 97-570-00216, 99-201-97258 (M); Fax 2550-5151; Email gkdey@barc.gov.in, gautam_k_dey@yahoo.com]; Medal: INSA Young Scientist (1989); SC: VI.

1995: DHAR, Deepak (b. 1951), PhD (CIT, USA), Sp: Statistical Physics; FASc, FNASC, FTWAS, Distinguished Professor, Department of Theoretical Physics, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400005; 602, Satyendra, Anushaktinagar, Homi Bhabha Road, Mumbai 400005 [Tel (022) 2278-2427, 2278-2244 (O), 2280-4835 (R); Fax 2280-4610; Email ddhar@theory.tifr.res.in]; Medal: INSA Young Scientist (1983); SN Bose (2001); SC: II.

2016: DHAR, Suman Kumar (b. 1968), PhD, Sp: Biochemistry, Molecular Biology, Cell Biology, Parasitology; FNASC, Professor, Special Centre for Molecular Medicine, Jawaharlal Nehru University, New Delhi 110067; 596 Tower D, Pachchimabud, JNU, New Delhi 110067 [Tel (011) 2674-2572, 2673-8777 (O), 2674-2476 (R), 98-100-18272 (M); Fax 2674-1781; Email skdharmal@jnu.ac.in, skdharmal2@yahoo.co.in]; SC: X.

1979: DHAWAN, Bhola Nath (b. 1932), MD, Sp: Pharmacology, New Drug Development; FNASC, FAMS, FTWAS, formerly Director, CDRI, Lucknow; 3, Rama Krishna Marg, Lucknow 226007 [Tel (0522) 233-4166 (R), 94-150-14343 (M); Email bndhawan@hotmail.com, dhawanbn@gmail.com]; Medal: Shri Dhanwantari Prize (2001), Professor KP Bhargava Memorial (2008); Council: Mem 1992, VP 1993, Ad Mem 2004; SC: XI.

2000: DHILLON, Baldev Singh (b. 1947) PhD, Sp: Agricultural Sciences-Genetics; Vice-Chancellor, Punjab Agricultural University, Ludhiana 141004; Vice Chancellor’s Residence, PAU Campus, Ludhiana 141004 [Tel (0161) 240-1794 (O), 240-1795 (R), 98-728-71033 (M); Email dhillonbaldevsingh@gmail.com]; Council: Mem 2007; SC: XII.

2015: DIGHE, Amol (b. 1970), PhD, Sp: High Energy Physics; FASc, Professor H, Department of Theoretical Physics, Tata Institute of Fundamental Research, Homi Bhabha Road, Colaba, Mumbai 400005; 303 Bhaskara, TIFR Colony, Homi Bhabha Road, Colaba, Mumbai 400005 [Tel (022) 2278-2423 (O), 2280-4699 (R), 99-673-96593 (M); Fax 2278-2777; Email amol@theory.tifr.res.in]; SC: II.
2011 : **DIGHE, Rajan R** (*b* 1951), PhD, Sp: Molecular Endocrinology, Reproductive Biology, Biotechnology; FASc, FNASc, Professor, *Molecular Reproduction, Development and Genetics, Indian Institute of Science, Bengaluru 560012; Anriya Dwellington, Apt 5302, RMV stage II, Lottegollahalli, Bengaluru 560094 [Tel (080) 2293-3261, 2293-2660 (O), 2366-3313 (R); Fax 2360-0999; Email rdighe@mrdg.iisc.ernet.in, digherr@gmail.com]; SC: VIII.

2016 : **DIKSHIT, Kanak Lata** (*b* 1951), PhD, Sp: Molecular Biology, Biochemistry; FNAsc, former Chief Scientist, CSIR-Institute of Microbial Technology, Sector 39A, Chandigarh 160036; H No. 1524, PUSPAC Complex, Sector 49B, Chandigarh 160047 [Tel (0172) 267-8524 (O), 99-150-07784 (M); Email kanakdixit@gmail.com, kanakd_imtech@yahoo.com]; SC: IX.

2013 : **DIKSHIT, Madhu** (*b* 1957), PhD, Sp: Molecular Pharmacology; FASc, FNAsc, Director, *CSIR-Central Drug Research Institute, Lucknow 226031; C-95, Sector M, Aliganj, Lucknow 226024 [Tel (0522) 277-2450, 277-2551 Ext 4960 (O), 404-9810 (R), 94-151-11766 (M); Fax 262-5036, 262-3938; Email director@cdri.res.in, madhu_dikshit@cdri.res.in, madhudikshit@yahoo.com]; **Medal:** INSA Young Scientist (1989); Professor KP Bhargava Memorial (1999); **Lecture:** Professor Darshan Ranganathan Memorial (2013); SC: XI.

2005 : **DILEEP KUMAR, Maripi** (*b* 1954), PhD, Sp: Oceanography, Biogeochemistry; FASc, FNAsc, Scientist G, *Chemical Oceanography Division, CSIR-National Institute of Oceanography, Dona Paula, Goa 403004; H.No. 500/22/F2, Sagar Ratna Hsg. Soc., Filomena Housing Colony, Hillside Enclave, Alto-Santa Cruz, Bambolim, Goa 403202 [Tel (0832) 245-0398 (O), 244-6657 (R); Fax 245-0602; Email dileep@nio.org]; SC: IV.

2002 : **DIMRI, Vijay Prasad** (*b* 1948), PhD, Sp: Geophysics, Inversion, Fractals and Signal Processing; FNAsc, FTWAS, INSA Senior Scientist, AcSIR Distinguished Professor, formerly Director and Distinguished Scientist, *CSIR-National Geophysical Research Institute, Uppal Road, Hyderabad 500007 [Tel (040) 2701-2337 (O), 77-990-43000 (M); Fax 2343-4651; Email vpdimri@gmail.com]; **Council:** Mem 2004-06; SC: IV.

1997 : **DOGRA, Sneh Kumar** (*b* 1942), PhD, Sp: Physical Chemistry & Photochemistry; FNAsc, INSA Honorary Scientist, formerly Dean Academic Affairs, IISER-Bhopal, Professor & Head, Department of Chemistry, IIT Kanpur, Kanpur 208016; B-101, Mangal Apartments, 16-Vasundhara Enclave, Delhi 110096 [Tel (011) 2262-2182 (R), 98-187-91143 (M); Email skdogra@iitk.ac.in; Web http://www.iitk.ac.in/chm/skd.html]; **Medal:** Professor TR Seshadri 70th Birthday Commemoration (2006); SC: III.

2014 : **DUBE, Anuradha** (*b* 1955), PhD, Sp: Medical Parasitology (Leishmaniasis); Chief Scientist (Scientist G), *Division of Parasitology, CSIR-Central Drug Research Institute, New Campus, BS 10/1, Jankipuram Extension, Lucknow 226031; B2/M91, SBI Colony, Sector B, Janakipuram, Lucknow 226021 [Tel (0522) 277-1940, 277-1960, 296-1202 Ext 4533 (O), 273-3454 (R), 94-509-31332, 94-151-04918 (M); Fax 277-1941; Email anuradha_dube@hotmail.com, a_dube@cdri.res.in, anuradhadube@gmail.com]; SC: VIII.
2014 : DURGA RAO, Chilakalapudi (b 1950), PhD, Sp: Virology, Cell and Molecular Biology, Biotechnology; FNAsc, Professor, Department of Microbiology & Cell Biology, Indian Institute of Science, Bengaluru 560012; DQ-1, Faculty Quarters, Sir CV Raman Ave, Indian Institute of Science, Bengaluru 560012 [Tel (080) 2360-2149 (O), 2360-7945 (R), 98-808-82052 (M); Fax 2360-2697; Email cdr@mebl.iisc.ernet.in, cdrmc@gmail.com]; SC: IX.

1984 : DUTTA, Guru Prakash (b 1933), PhD, DSc, Sp: Protozoology, Parasitology, Tropical Diseases, Drug Development, Cell Biology, Microbiology; FNAsc, formerly Emeritus Scientist (CSIR), Director’s Grade Scientist and Head, Microbiology Division, CDRI, Lucknow; 9, Shyam Nagar, Khurram Nagar, Lucknow 226022 [Tel (0522) 233-1932 (R); Email duttag123@yahoo.com]; SC: VIII.

2015 : DUTTA, Pradip (b 1960), PhD, Sp: Mechanical Engineering (Heat Transfer, Energy Sciences); FAsc, FNAsc, FNAE, Professor, Department of Mechanical Engineering, Indian Institute of Science, Bengaluru 560012; Quarter No. 302, Indian Institute of Management Campus, Bengaluru 560076 [Tel (080) 2360-4536 (O), 2699-3249 (R), 98-450-10520 (M); Fax 2360-4536; Email pradip@mecheng.iisc.ernet.in]; SC: V.

2012 : DUTTA GUPTA, Aparna (b 1953), PhD, Sp: Animal Sciences: Insect Molecular Physiology – Hormonal Regulation of Insect Development & Reproduction, Integrated Insect Pest Management; FAsc, FNAsc, Professor, Department of Animal Sciences, School of Life Sciences, University of Hyderabad, Hyderabad 500046; 5-158, Haripriya Niwas, Adarshanagar Colony, Road No 1, Serilingampally, Hyderabad 500019 [Tel (040) 2313-4560 (O), 2301-0348 (R), 93-919-74729 (M); Fax 2301-0120, 2301-0145; Email apdgsl@uohyd.ernet.in, aparnaduttagupta@gmail.com]; SC: VIII.

1986 : DUTTA MAJUMDER, Dwijesh Kumar (b 1932), PhD, Sp: Computer Science, Artificial Intelligence, Cybernetics & Pattern Recognition & Fuzzy Logic, Soft Computing, Image Processing, Computer Vision; FNAsc, FNAE, Ftwas, Professor Emeritus, ISI, Kolkata 700108; Director-Secretary, Institute of Cybernetics Systems & Information Technology (ICSIT), 155, Ashokegarh, Kolkata 700108 [Tel (033) 2577-8085-89 Ext 2912 (ISI), 2577-7107 (ICSIT) (O), 2578-2739 (R); Fax 2577-6680 (ISI), 2357-9218; Email ddm@isical.ac.in, ddmdr@hotmail.com; Web http://www.icsit.org]; Medal: PC Mahalanobis (1993); Lecture: JL Nehru Birth Centenary (1994); SC: V.

1983 : DUTTA ROY, Suhash Chandra (b 1937), DPhil, Sp: Circuits, Systems & Signal Processing; FAsc, FNAsc, FNAE, INSA Honorary Scientist; 164, SFS Apartments, Hauz Khas, New Delhi 110016 [Tel (011) 2696-3054 (R); Email s.c.dutta.roy@gmail.com]; Medal: SH Zaheer (1992); Lecture: Dr GP Chatterjee Memorial (2009); Council: Ad Mem 2009; SC: V.
1989 : EASWARAN, Kalpathy R K (b 1939), PhD, Sp: Molecular Biophysics; Membrane Biophysics, Structural Biology; FASc, INSA Honorary Scientist and Emeritus Professor, Molecular Biophysics Unit, Indian Institute of Science, Bengaluru 560012; Aishwarya, 521 RMV Extension, 2nd Main, II Stage, 3rd Block, Bengaluru 560094 [Tel (080) 2293-2713 (O), 2341-5221 (R), 90-030-36231, 99-866-22397 (M); Fax 2360-0535; Email kkr_easwaran@yahoo.com, krke@mbu.iisc.ernet.in]; SC: X.

1993 : GADAGKAR, Raghavendra (b 1953), PhD, DSc (hc), Sp: Animal Behaviour, Ecology & Evolution; FASc, FNASc, FTWAS, Foreign Assoc US NAS, Member, German National Academy of Sciences, Leopoldina, JC Bose National Fellow & Professor, Centre for Ecological Sciences, Indian Institute of Science, Bengaluru 560012; Chairman, Centre for Contemporary Studies, IISc, Bengaluru 560012; Honorary Professor, JNCASR, Jakkur, Bengaluru 560064, IISER, Mohali; Non-resident Permanent Fellow, Wissenschaftskolleg (Institute for Advanced Study) zu Berlin; 3082, Cornwall, Prestige Kensington Gardens, 17, HMT Main Road, Jalahalli, Bengaluru 560013 [Tel (080) 2360-1429, 2293-2340 (O), 2308-9677 (R); Fax 2360-2121, 2360-1428; Email ragh@ces.iisc.ernet.in; Web http://ces.iisc.ernet.in/hpg/ragh]; Professorship: INSA-SN Bose Research Professor (2010-14); Medal: INSA Young Scientist (1985); Lecture: Etienne Wolf-Ramanujan (2015); Visiting Fellowship: JL Nehru Birth Centenary (2007); Council: VP 2003-05, Pres 2014-; SC: VIII.

1984 : GADGIL, Madhav Dhananjaya (b 1942), PhD (Harvard), Sp: Ecology, Environment & Development; FASc, FNASc, FTWAS, Foreign Assoc US NAS, D D Kosambi Visiting Research Professor, Goa University, Goa 403001; A-18 Spring Flowers, Panchavati, Pashan, Pune 411008 [Tel (020) 2589-3424 (R), 98-811-53413 (M); Email madhav.gadgil@gmail.com]; Medal: Golden Jubilee Commemoration (Animal Sc) (2015); SC: XII.

1995 : GADGIL, Sulochana (b 1944), PhD, Sp: Atmospheric and Oceanic Science, Evolutionary Biology; FASc, A18, Spring Flowers, Panchavati, Pashan, Pune 411008 [Tel (020) 2589-3424 (R); Email sulugadgil@gmail.com]; SC: IV.

1996 : GADRE, Shridhar Ramchandra (b 1950), PhD, Sp: Theoretical and Computational Chemistry; FASc, Emeritus Fellow, Department of Chemistry, Indian Institute of Technology, Kanpur 208016; House No. 621, Lane 32, IIT Kanpur, Kanpur 208016 [Tel (0512) 259-6706 (O), 259-8256 (R); Email gadre@iitk.ac.in]; Medal: INSA Young Scientist (1982); Lecture: Dr Jagdish Shankar Memorial (2000); Council: Mem 2001-03; SC: III.

2012 : GALANDE, Sanjeev Anant (b 1967), PhD, Sp: Chromatin Biology; FASc, Professor, Indian Institute of Science Education and Research, Dr Homi Bhabha Road, Pune 411008; B-1004, IISER Faculty Housing, Dr Homi Bhabha Road, Pune 411008 [Tel 99-233-63737 (M); Email sanjeev@iiserpune.ac.in]; SC: VIII.
1994: **GANDHI, Ram Prakash** (*b* 1931), PhD, DSc (*hc*), Sp: Organic Chemistry; National Coordinator, UGC Faculty Recharge Programme, JNU Campus, Aruna Asaf Ali Marg, New Delhi 110067, Visiting Professor, Dr B R Ambedkar Center for Biomedical Research, University of Delhi, Delhi 110007; formerly Professor, IIT, Delhi; 2609/sector D-II, Vasant Kunj, New Delhi 110070 [Tel (011) 2674-2016, 2670-4799 (O), 2689-2973 (R); Email gandhirp@yahoo.com]; **Visiting Fellowship**: JL Nehru Birth Centenary (2002); INSA Senior Scientist (1996-2001), INSA Honorary Scientist (2006-); **SC**: III.

2000: **GANESH, Krishnarajanagar Nagappa** (*b* 1953), PhD (Cambridge), Sp: Bio-organic Chemistry; FASc, FTWAS, Director, *Indian Institute of Science Education and Research (IISER)*, 900, NCL Innovation Park, Dr Homi Bhabha Road, Pune 411008; A-4, Mont Vert2, Sus Road, Pune 411023 [Tel (020) 2589-8000/01 (O), 2587-1698 (R); Fax 2586-5315, 2590-8186; Email kn.ganesh@iiserpune.ac.in, director@iiserpune.ac.in]; **Medal**: INSA Young Scientist (1985); **Lecture**: Dr Nitya Anand Endowment (2001); **Council**: Mem 2011-13; **SC**: III.

1997: **GANESHAIAH, Kotiganahally Narayana Gowda** (*b* 1953), PhD, Sp: Plant Reproductive Ecology, Conservation Biology, Insect Behaviour & Crop Breeding; FASc, FNAAS, FCSA, University Head, *Department of Forestry and Environment Sciences* and Professor, *School of Ecology and Conservation, University of Agricultural Sciences*, GKVK Campus, Bengaluru 560065; 7, PUNGAVEE, Santosh Vihar, Phase I, Jakkur Road, Bengaluru 560092 [Tel (080) 2363-6276 (O), 2363-6412 (R), 93-421-60639 (M); Fax 2353-0070; Email knganeshaiah@gmail.com]; **SC**: VII.

1990: **GANGAL, Sudha Gajanan** (*b* 1934), PhD, Sp: Cancer Immunology, Basic Immunology Genetic Diseases; FASc, Research Advisor, Integrated Cancer Treatment and Research Centre, Wagholi, Pune; formerly Director, Research Society, BJ Wadia Hospital for Children, Parel, Mumbai and Head, Immunology Division, Cancer Research Institute, Mumbai; 4, *Mahavishnu Apartments, Kothrud, Pune 411029* [Tel (020) 2538-4382 (R), 99-216-37998 (M); Email sudha.gangal@yahoo.in]; **Council**: Mem 1996-98; **SC**: XII.

1993: **GANGULY, Chaitanyamoy** (*b* 1946), PhD (Met Engg), Sp: Nuclear Fuels & Fuel Cycle, Nuclear Materials and Advanced Ceramics; FASc, FNASc, FNSE, INSA Senior Scientist, Engineering Staff College of India (ESCI), Gachibowli, Hyderabad 500032; formerly Distinguished Scientist, Chairman and Chief Executive, Nuclear Fuel Complex, Hyderabad, Dept. of Atomic Energy (DAE), Govt. of India; former Head, Radio Metallurgy Division, BARC, DAE Mumbai; former Head, Nuclear Fuel Cycle and Materials Section, International Atomic Energy Agency (IAEA), Vienna; former Director, CSIR-CGCRI, Kolkata; A2-601, Aditya DSR Lakeside, Gachibowli, Hyderabad 500032 [Tel (040) 6630-4164 (O), 4221-7549 (R), 80-082-22016 (M); Email chaitanya.ganguly@gmail.com, chm_ganguly@yahoo.com]; **SC**: V.
1993 : GANGULY, Nirmal Kumar (b 1941), MD, DSc (hc), Sp: Microbiology, Immunology, Biotechnology, Infectious Diseases, Public Health and Policy; FASc, FNASc, FTWAS(Italy), FAMS, FRCPa(London), FRCTrop(London), FIACS(Canada), Fellow, Imperial College, London (Health Sciences), Visiting Professor of Eminence, Translational Health Science & Technology Institute; Department of Biotechnology, Honorary Senior Research Professor, ILBS, New Delhi; formerly DG-ICMR; formerly President, JIPMER, Puducherry & Asian Institute of Public Health, Bhubaneshwar, Odisha; 701, Gayatri Apartments, GH-6, Sector 45, Faridabad 121003 and 1103/1 Sector-39B, Chandigarh 160012 [Telefax (011) 2674-1501 (O), (0129) 243-998 (R); Email gangulynk41@yahoo.co.in, nkganguly@nii.ac.in]; Lecture: Professor SN De Memorial (1993); Dr Y SubbaRow Memorial (1999); Council: Ad Mem 2001; Mem 2002-04; SC: XI.

2015 : GARG, Lalit Chander (b 1952), PhD, Sp: Infectious Diseases, Gene Expression, Vaccine Development; Staff Scientist VII, National Institute of Immunology, Aruna Asaf Ali Marg, New Delhi 110067; L-1, National Institute of Immunology, Aruna Asaf Ali Marg, New Delhi 110067 [Tel (011) 2670-3652 (O), 2670-3653 (R), 93-1228-7881 (M); Fax 2674-2125; Email lalit@nii.ac.in, lalitcgarg@gmail.com]; SC: VIII.

1980 : GAUR, Vinod Kumar (b 1936), PhD, DSc (hc), Sp: Earth and Planetary Sciences; FASc, FTWAS, Distinguished Professor, Indian Institute of Astrophysics, Sarjapur Road, Bengaluru 560034; formerly Distinguished Scientist, CMMACS, NAL, Bengaluru & Secretary, DOD (GoI); 101, Windsor Court, 17, Millers Road, Bengaluru 560046 [Tel (080) 2505-1931 (CMMACS), 2553-0672-6 (IIA) (O), 2343-7410 (R); Fax 2505-0392 (CMMACS), 2553-4019 (IIA); Email gaur@cmmacs.ernet.in, vgaur@iiap.res.in]; Medal: DN Wadia (2007); Lecture: Dr GP Chatterjee Memorial (1991); Council: Mem 1985-87, 1994-96; SC: IV.

2006 : GAVAI, Rajiv Vasantrao (b 1954), PhD, Sp: Theoretical High Energy Physics, Quantum Field Theory on Lattice, Quark-Gluon Plasma, Heavy-Ion Collisions and Phase Transitions in Early Universe; FASc, Senior Professor and Chairperson, Department of Theoretical Physics, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400005; 601, Meghnad, TIFR Housing Complex, Homi Bhabha Road, Mumbai 400005 [Tel (022) 2278-2430 (O), 2280-4585 (R); Fax 2280-4610/4611; Email gavai@tifr.res.in; Web http:// theory.tifr.res.in/~gavai]; SC: II.

1975 : GEORGE, Manapurathu Verghese (b 1928), PhD, Sp: Organic Reactions & Photochemistry, Laser Chemistry; FASc, FTWAS, Honorary Professor, JNCASR, Bengaluru; Photosciences and Photonics, National Institute for Interdisciplinary Science and Technology, Thiruvananthapuram 695019; formerly Professor of Chemistry, IIT, Kanpur; Manapuram House, A-27, Kowdiar Gardens, Thiruvananthapuram 695041 [Tel (0471) 249-0392 (O), 243-6452 (R); Fax 249-0186; Email mvgeorge@rediffmail.com]; Medal: Professor TR Seshadri 70th Birthday Commemoration (1991); Council: Mem 1989-91; SC: III.
2015 : GEORGE THOMAS, K (b 1961), PhD, Sp: Physical Chemistry, Photochemistry, Photophysics and Material Science; FASc, Professor & Dean (Academics), School of Chemistry, Indian Institute of Science Education and Research Thiruvananthapuram (IISER-TVM), College of Engineering (transit campus), Sreekarayam, Trivandrum 695004; C12/2, Kakkudiyil, Lekshmi Nagar, Pattom, Trivandrum 695004 [Tel (0471) 259-7425 (O), 254-2245 (R), 98-473-56057 (M); Fax 259-7442; Email kgt@iisertvm.ac.in]; SC: III.

2004 : GHOSH, Amit (b 1944), PhD, DSc (hc), Sp: Molecular Biology of Vibrio cholerae; FASc, FNASC, FBRS, INSA Senior Scientist, Emeritus Scientist, National Institute of Cholera and Enteric Diseases (ICMR) (JICA Building), P-33, CIT Scheme XM, Beliaghata, Kolkata 700010; formerly Director, CSIR-Institute of Microbial Technology, Chandigarh and Indian Institute of Advanced Research, Gandhi Nagar, Gujarat [Tel (033) 2353-7470 (O), 2442-4248, 2442-1440 (R); 94-336-92858 (M); Fax 2370-5066; Email amitghosh24@yahoo.com]; Council: Mem 2011-13; SC: XI.

2000 : GHOSH, Amitabha (b 1941), PhD, DSc (hc), Sp: Mechanical Engineering; FASc, FNASC, FNAE, FIE, formerly Professor, IIT Kanpur, Director, IIT Kharagpur and INSA Senior Scientist; NASI-Platinum Jubilee Senior Scientist and Honorary Distinguished Professor, Aerospace Engineering and Applied Mechanics Department, Indian Institute of Engineering Science and Technology, Shibpur, PO Botanical Garden, Howrah 711103; Flat D2, Kalpataru, 50/A, College Road, PO Botanical Garden, Howrah 711103 [Tel (033) 2668-0521 Ext 441 (O), 2668-2424 (R); Email amitabha@iitk.ac.in, amitabhaiitk@gmail.com]; SC: V.

2014 : GHOSH, Aswini (b 1953), PhD, Sp: Condensed Matter Physics and Materials Science; FASc, JC Bose National Fellow, Senior Professor, Department of Solid State Physics, Indian Association for the Cultivation of Science, 2A & B, Raja SC Mullick Road, Jadavpur, Kolkata 700032; 22 Eastern Park, Baghajatin, Block-G, Kolkata 700086 [Tel (033) 2473-4971 Ext 1314 (O), 2425-8642 (R), 90-075-75714 (M); Fax 2473-2805; Email sspag@iacs.res.in, aswghosh@gmail.com; Web http://www.iacs.res.in/ssp/sspag/]; SC: VI.

2011 : GHOSH, Balaram (b 1955), PhD, Sp: Biochemistry, Immunology, Molecular Genetics; FASc, FNASC, Scientist ‘H’ Outstanding Scientist (CSIR), Head, Genomics & Molecular Medicine Unit, CSIR-Institute of Genomics & Integrative Biology, Mall Road, Delhi 110007; B-114 Shakti Apartments, Sector 9, Rohini, Delhi 110085 [Tel (011) 2766-2580 (O), 2786-0188 (R), 98-713-86414 (M); Fax 2766-7471; Email bghosh@igib.res.in]; Lecture: Dr MR Das Memorial (2014); SC: X.

1994 : GHOSH, Bilwa Gopal (b 1940), PhD, Sp: Condensed Matter Physics; formerly Senior Professor, Saha Institute of Nuclear Physics, Kolkata; Motijheel Hsg Co-op Soc Ltd, B-4, 154 Motijheel Avenue, Kolkata 700074 [Tel (033) 2560-5528 (R), 94-338-35185 (M); Email bilwagopal.ghosh@saha.ac.in]; INSA Senior Scientist (2000-05); SC: II.
1982 : GHOSH, Jayanta Kumar (*b* 1937), DPhil, DSc (*bc*), Sp: Mathematical Statistics & Application; FASc, FNASc, Professor, Purdue University, Professor Emeritus and formerly Jawaharlal Nehru Professor; formerly Director, ISI, Kolkata; 31, Justice Chandra Madhab Road, Kolkata 700020 [Tel (033) 2577-8085 Ext 3401 (O), 3052-2071, 3052-2071 (R); Fax 2577-6680; Email jkg@isical.ac.in, ghosh@purdue.edu]; Council: Mem 1990–92; SC: I.

2007 : GHOSH, Kunal (*b* 1946), PhD, DSc, Sp: Agricultural Chemistry and Soil Science; INSA Senior Scientist, Raman Centre for Applied and Interdisciplinary Sciences, 16A Jheel Road, Kolkata 700073; formerly Professor and Head, Agricultural Chemistry and Soil Science, Calcutta University; 4A Ratnabali, 7A Judges Court Road, Alipore, Kolkata 700027 [Tel (033) 2483-0029 (O), 2479-1112 (R), 94-330-10233 (M); Fax 2418-0610; Email kghoshcu@gmail.com]; Council: Mem 2013–15; SC: XII.

2012 : GHOSH, Subrata (*b* 1950), PhD, Sp: Synthetic Organic Chemistry; FASc, JC Bose National Fellow, Department of Organic Chemistry, Indian Association for the Cultivation of Science, 2A & B, Raja SC Mullick Road, Jadavpur, Kolkata 700032; Basundhara Apartment, E3, 19/922 Raja SC Mallik Road, Kolkata 700086 [Tel (033) 2473-4971 (O), 2425-9763 (R), 98-304-50170 (M); Fax 2473-2805; Email ocsg@iacs.res.in]; Lecture: Dr Jagdish Shankar Memorial (2009); SC: II.

1999 : GHOSH, Swapan Kumar (*b* 1949), PhD, Sp: Theoretical Chemistry, Computational Materials Science, Soft Condensed Matter Physics; FASc, FNASc, FTWAS, Theoretical Chemistry Section, Chemistry Group, Bhabha Atomic Research Centre, Trombay, Mumbai 400085; Plot No-56, Row House, Sector-1, Kopar Khairane, Navi Mumbai 400709 [Tel (022) 2559-5092 (O), 2754-9108 (R); Fax 2550-5151; Email skghosh@barc.gov.in, swapankghosh@gmail.com]; Lecture: Dr Jagdish Shankar Memorial (2009); Council: Mem 2015–; SC: III.

1987 : GILL, Bakhshish Singh (*b* 1925), MVSc (Hons), PhD, Sp: Tropical Veterinary Medicine; FNASc, FNAAS, formerly Dean, College of Veterinary Science and Special Director of Research (Veterinary and Animal Sciences), PAU, Ludhiana; 110-A, Aggar Nagar, Ludhiana 141012 [Tel (0161) 255-2931(R)]; SC: XII.

1981 : GILL, Khem Singh (*b* 1930), PhD, Sp: Genetics & Plant Breeding; FNAAS, FTWAS, Chairman, Akal Academies, Baru Sahib (HP); formerly VC, Director (Ext Ed), Principal Investigator (Wheat), Director (Res) & Dean, College of Agriculture, Professor & Head, Department of Plant Breeding, PAU, Ludhiana; 119-D Kitchlu Nagar, Ludhiana 141001 [Telefax (0161) 230-2119; Email khemsg@yahoo.co.in]; Council: Mem 1983–85; SC: XII.

2013 : GIRI, Ashok Kumar (*b* 1952), PhD, DSc, Sp: Genetic Toxicology, Environmental Mutagenesis and Human Genetics and Genomics; Emeritus Scientists (CSIR), Molecular Genetics Division, CSIR-Indian Institute of Chemical Biology, 4 Raja SC Mullick Road, Jadavpur, Kolkata 700032; Flat No C-1102, Mohul Block, Salboni Apartment, 64/98C Khudiram Bose Sarani, Belgachia, Kolkata 700037 [Tel (033) 2499-5724 (O), 2556-4859 (R), 94-332-51823(M); Fax 2473-5197; Email akgiri15@yahoo.com, akgiri@iicb.res.in]; Medal: INSA Young Scientist (1984); SC: XI.
1985 : GNANAM, Arumugam (b 1932), PhD, Sp: Biochemistry and Molecular Biology of Chloroplast Structure, Genetics and Photosynthetic Function; FNASc, formerly VC, Bharathidasan, Madras and Pondicherry Universities and Chairman, National Assessment and Accreditation Council, Bengaluru; C-2, Chitrakudil Apts, 10, Perumalkoil 1st Street, Kottur, Chennai 600085 [Tel (044) 2443-1177 (R), 99-446-70678, 94-433-62324 (M); Email agnanam@hotmail.com]; Lecture: Professor TS Sadasivan (1998); INSA Senior Scientist (1997-2001); Council: VP 1994-96; SC: VII.

2003 : GODBOLE, Rohini Madhusudan (b 1952), PhD, DLitt, Sp: Theoretical High Energy Physics; FASc, FNASc, FTWAS, Chair, INA Panel for Women in Science; Professor, Centre for High Energy Physics, Indian Institute of Science, Bengaluru 560012; E-18, IISc Housing Colony, Bengaluru 560012 [Tel (080) 2293-2845 (O), 2360-8357 (R); Fax 2360-0683, 2360-0085, 2360-0106; Email rohini@icts.iisc.ernet.in]; Medal: SN Bose (2009); Visiting Fellowship: JL Nehru Birth Centenary (2005); Council: Mem 2011-13; SC: II.

1998 : GOEL, Prem Shanker (b 1947), ME, PhD, Sp: Satellite Control Systems, Space Technology; FASc, FNASc, FTWAS, Professor MGK Menon DRDO Chair, Honorary Distinguished Professor, ISRO, Research Centre Imarat (RCI), Vigyana Kancha (PO), Hyderabad 500069; formerly Secretary, MoES, New Delhi; formerly Chairman, RAC (DRDO); E1/1, RCI Qtrs, Vigyana Kancha PO Hyderabad 500069 [Tel (040) 2430-6316 (O), 2430-6395 (R), 73-826-18774 (M); Email dr.psgoel@gmail.com, ps.goel@rcilab.in]; SC: V.

2014 : GOKHALE, Rajesh Sudhir (b 1967), PhD, Sp: Chemical Biology; FASc, FNASc, Director, CSIR-Institute of Genomics & Integrative Biology (IGIB), Mall Road, Near Jubilee Hall, Delhi 110007; IGIB Director’s Bungalow, Type VI-1, CRRI Residential Colony, CV Raman Marg, Maharani Bagh, New Delhi 110065 [Tel (011) 2766-2407 (O), 98-115-59987 (M); Fax 2766-7471; Email rsg@igib.res.in]; SC: X.

2010 : GOPAKUMAR, Rajesh (b 1967), PhD, Sp: Theoretical Physics; FASc, FNASc, FTWAS, Senior Professor and Centre Director, International Centre for Theoretical Sciences of Tata Institute of Fundamental Research, Shivakote, Hesaraghatta Hobli, Bengaluru 560089 [Tel (080) 2369-1708, 2360-8205 (O); Fax 2360-8199; Email rajesh.gopakumar@icts.res.in, gopakumr@gmail.com]; Council: Mem 2014-; SC: II.

2016 : GOPAL, Balasubramanian (b 1970), PhD, Sp: Structural Biology; FASc, FNASc, Professor, Room 301, Molecular Biophysics Unit, Indian Institute of Science, Bengaluru 560012; Flat 2, Plot 41, Sri Guru Vanam, I.T.I Layout, MS Ramaiah Nagar, Bengaluru 560054 [Tel (080) 2293-3219 (O), 2360-2838 (R), 98-804-50577 (M); Fax 2360-0535; Email bgopal@mbu.iisc.ernet.in; Web http://mbu.iisc.ernet.in/~bggrp/]; SC: X.
1994 : GOPALAKRISHNAN, Jagannatha (b 1944), PhD, Sp: Solid State Inorganic Chemistry; FASc, FNASc, IISc Distinguished Alumnus (2010), formerly Honorary Professor, Solid State and Structural Chemistry Unit, Indian Institute of Science, Bengaluru 560012; Sangeet Apts No 3, 226 (New), 4th Main Road, Malleswaram, Bengaluru 560055 [Tel (080) 2293-2537 (O), 2334-5163 (R); Fax 2360-1310; Email gopal@sscu.iisc.ernet.in]; Lecture: Professor Sadhan Basu Memorial (2008); INSA Senior Scientist (2009-13); SC: III.

1966 : GOPALAN, Coluthur (b 1918), MD (Madras), DSc (Lond), DSc (bc), Sp: Nutrition & Medical Research; FASc, FAMS, FRS, FRCP (Lond & Edin), President, Nutrition Foundation of India, C-13, Qutab Institutional Area, New Delhi 110016; formerly DG, ICMR, New Delhi & Director, NIN, Hyderabad [Tel (011) 2685-7814 (O & Fax), 2696-5410, 2696-2615 (O), 2651-9254, 2686-8126 (R); Email nutritionfoundationofindia@gmail.com; Web http://www.nutritionfoundationofindia.org]; Medal: CV Raman (1988); Council: Mem 1969-70; SC: XI.

1986 : GOPALAN, Kunchithapadam (b 1938), PhD, Sp: Geochronology & Isotope Geology; FASc, FNASc, INSA Honorary Scientist, CSIR-National Geophysical Research Institute, Uppal Road, Hyderabad 500007; Plot 7, 2nd Street, Kalyanpuri, Hyderabad 500039 [Tel (040) 2343-4665 (O), 2720-4108, 2720-4117 (O), 2717-1564; Email gopalank1@rediffmail.com]; Medal: Professor K Naha Memorial (2010); SC: IV.

1993 : GOPINATHAN, Karumathil Puthanveetil (b 1939), PhD, Sp: Molecular Biology & Biotechnology; FASc, FNASc, INSA Honorary Scientist & Professor, Department of Microbiology & Cell Biology, Indian Institute of Science, Bengaluru 560012; ABHIMAN, 369, 11th Cross, RT Nagar II Block, Bengaluru 560032 [Tel (080) 2293-2884, 2360-0090 (O), 2333-3861 (R), 97-314-4030 (M); Fax 2360-2697; Email kpg@mcbl.iisc.ernet.in]; Lecture: Dr MR Das Memorial (2005); INSA Senior Scientist (2005-09); SC: X.

1992 : GOPINATHAN, Melethil Sankaran (b 1942), PhD, Sp: Quantum Chemistry & Nonlinear Dynamics; FASc, Professor, Indian Institute of Science Education and Research (IISER), Thiruvananthapuram 695016; “SWATHI”, VPXI/872, Kodanganur PO, Thiruvananthapuram 695013 [Tel (0471) 259-7428 (O), 236-5743 (R), 94-003-65155 (M); Email msgopinathan@gmail.com]; SC: III.

2003 : GOSWAMI, Bhupendra Nath (b 1950), PhD, Sp: Tropical Meteorology, Monsoon Dynamics and Predictability of Weather and Climate; FASc, FNASc, FTWAS, Pisharoty Chair Professor, MoES; formerly Director, Indian Institute of Tropical Meteorology, Pune 411008 No. 6, NCL ‘B’ Housing Society, Panchavati, Pune 411008 [Tel (020) 2590-8267 (O), 98-602-01144 (M); Email bhupengoswami100@gmail.com]; Medal: KR Ramanathan (2008); SC: IV.
2000 : GOSWAMI, Jitendra Nath (b 1950) PhD, Sp: Solar System Studies, Earth and Planetary Sciences, FASc, FNASc, FTFWAS, JC Bose National Fellow, Physical Research Laboratory, Navrangpura, Ahmedabad 380009; B-31, Jupiter Towers, Bodakdev, Ahmedabad 380054 [Tel (079) 2631-4332 (O), 99-099-50961 (R); Fax 2630-0374; Email goswami@prl.res.in; Web http://www.prl.res.in]; Medal: INSA Young Scientist (1978); SC: IV.

2011 : GOSWAMI, Sreebrata (b 1956), PhD, Sp: Inorganic Chemistry, Coordination Chemistry of Organic pi-Radical Ligands, Proton Reduction, Chemistry of Functional Materials; FASc, Professor & Dean (Administration and Finance), Department of Inorganic Chemistry, Indian Association for the Cultivation of Science, 2A & B, Raja SC Mullick Road, Jadavpur, Kolkata 700032; 13/2, Madhusudan Banerjee Road, Belgharia, Kolkata 700056 [Tel (033) 2473-4971 Ext 1356 (O), 2541-6361 (R), 94-330-06361 (M); Fax 2473-2805; Email icsg@iacs.res.in]; SC: III.

1983 : GOVIL, Girjesh (b 1940), PhD, Sp: Molecular Biophysics; FASc, FNASc, FTFWAS, INSA Honorary Scientist, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400005; 302, Vigyanshila, Juhu-Versova New Link Road, 7 Bungalows, Mumbai 400061 [Tel (022) 2278-2371 (O), 2635-1251 (R), 98-928-32761 (M); Fax 2280-4610; Email govil@tifr.res.in]; Professorship: INSA-Golden Jubilee Research Professor (2009-2014); Lecture: Professor RK Asundi Memorial (1988); Visiting Fellowship: JL Nehru Birth Centenary (1994); Council: Sec 1989-92, Ad Mem 2002; SC: X.

2001 : GOWRISHANKAR, Jayaraman (b 1956), MBBS, PhD (Melbourne), Sp: Microbial Genetics and Physiology, Molecular Biology and Biotechnology; FASc, FNASc, Staff Scientist, Centre for DNA Fingerprinting and Diagnostics, Building 7, Gruhakalpa, 5-4-399/B, Nampally, Hyderabad 500001; formerly Scientist, CCMB, Hyderabad; N-2, Nemali Meadows, 12-2-715/B, Padmanabanagar, Mehdipatnam, Hyderabad 500028 [Tel (040) 2474-9388/89 (O), 2352-3959, 6576-1729 (R); Fax 2474-9448; Email lbg@cdfd.org.in; Web www.cdfd.org.in]; Medal: INSA Young Scientist (1986); Lecture: JL Nehru Birth Centenary (2005); Council: Mem 2007-09; SC: X.

2007 : GROVER, Anil (b 1958), PhD, Sp: Plant Abiotic Stress Responses; FASc, FNASc, FNAAS, Professor, Department of Plant Molecular Biology, University of Delhi, South Campus, Benito Juarez Road, New Delhi 110021; C-1/96, Janak Puri, New Delhi 110058 [Tel (011) 2411-7693, 2411-5097 (O), 2559-1887 (R), 98-716-18167 (M); Email anil.anilgrover@gmail.com, agrover@south.du.ac.in]; Medal: INSA Young Scientist (1990); SC: VII.

1991 : GUPTA, Alok Krishna (b 1942), PhD (Pittsburgh), Sp: Experimental Mineralogy & Petrology; FASc, FNASc, INSA Honorary Scientist, Raja Ramanna Fellow (AEC), Professor, National Centre of Experimental Mineralogy and Petrology, 14, Chatham Lines, University of Allahabad, Allahabad 211002; Flat No 2, Professor's Colony, MNNIT College Campus, Allahabad 211004 [Tel (0532) 254-0549 (R), 89-348-26301(M); Email alok.krishna.gupta@gmail.com]; Lecture: JL Nehru Birth Centenary (2011); Council: VP 2007-09; SC: IV.
2012 : GUPTA, Anil Kumar (b 1960), PhD, Sp: Micropaleontology, Paleomonsoon and Paleoclimatology; FASc, FNASc, FTWAS, Director, Wadia Institute of Himalayan Geology, 33, General Mabadeo Singh Road, Dehradun 248001 [Tel (0135) 252-5101, 252-5103, 262-7942 (O); Fax 252-5200; Email anil_k_gupta1960@yahoo.co.in, anilg@wihg.res.in, director@wihg.res.in]; SC: IV.

1989 : GUPTA, Chhitar Mal (b 1944), PhD, Sp: Membrane Biology and Bio-organic Chemistry; FASc, FNASc, FAMS, FTWAS, Distinguished Professor & Infosys Chair, Institute of Bioinformatics and Applied Biotechnology (Room GF 18), Biotech Park, Electronics City Phase 1, Bengaluru 560100, formerly Director, CSIR-IIMT, Chandigarh and CSIR-CDRI, Lucknow and Distinguished Biotechnology Research Professor (DBT); D-308, Rabeja Residency, 113rd Block, Koramangala, Bengaluru 560034 [Tel (080) 2852-8900-8902 Ext 109 (O), 4090-3534 (R), 88-849-00233 (M); Email cm44gupta@gmail.com, drcmg@rediffmail.com]; Medal: INSA Young Scientist (1974), Golden Jubilee Commemoration (Biol Sc) (2001); Lecture: Dr Nitya Anand Endowment (1989); Council: Mem 2000-01, VP 2002; SC: X.

1989 : GUPTA, Harsh Kumar (b 1942), PhD, Sp: Seismology, Geophysical Exploration, Ocean Sciences; FNASc, FTWAS, Koteswaram Professor; Immediate Past President IUGG, President GSI and Member, Atomic Energy Regulatory Board; formerly Member, National Disaster Management Authority, Govt. of India; formerly Secretary to Govt. of India, DOD (now MoES); MANJUSHA, N-1/A, Kakatiya Nagar, Habsiguda, Hyderabad 500007 [Tel (040) 2701-2600 (O), 2715-5971 (R); Email harshg123@gmail.com]; Medal: Professor K Naha Memorial (2004); DS Kothari Memorial (2014); Visiting Fellowship: JL Nehru Birth Centenary (2003); Council: Mem 1999-2000, VP 2001, Ad Mem 2007; SC: IV.

2015 : GUPTA, Kailash Chand (b 1952), PhD, Sp: Nucleic Acid Chemistry, Nanobiotechnology; FNASc, FTWAS, Distinguished Scientist Chair (ICMR), Nucleic Acids Research Laboratory, CSIR-Institute of Genomics and Integrative Biology, Mall Road, Delhi University Campus, Delhi 110007; formerly Director, Indian Institute of Toxicology Research, M.G. Marg, Lucknow 226001; 233, Dharamkunj Apartments, Sector-9, Rohini, Delhi 110085 [Tel (011) 2766-2491 (O), 88-009-94239, 96-281-06106 (M); Fax 2766-7471; Email kcgupta@iitr.res.in, kcgupta@igib.res.in, kcgupta9@gmail.com]; SC: X.

1992 : GUPTA, Laxmi Chand (b 1938), PhD, Sp: Superconductivity, Magnetism in Quaternary Borocarbides and Intermetallics, Nuclear Magnetic/Quadropole Resonance and µ-SR Studies, Valence Fluctuations and Heavy Fermions; FASc, FNASc, FTWAS, formerly Senior Professor, TIFR, Mumbai; 403, Vignyanshila Cooperative Housing Society, Juhu-Versova Link Road, Andheri (W), Mumbai 400061 [Tel (022) 2631-4555; Email lcgupta@tifr.res.in, lcgupta38@yahoo.com]; SC: II.
2014 : GUPTA, Munishwar Nath (b 1948), PhD, Sp: Biochemistry; FNASc, Emeritus Professor, Department of Biochemical Engineering & Biotechnology, Indian Institute of Technology Delhi, Hauz Khas, New Delhi 110016; K-40, Hauz Khas, New Delhi 110016 [Tel (011) 2659-1503 (O), 2686-5268 (R), 98-184-67906 (M); Email munishwar48@yahoo.co.uk, mn_gupta@hotmail.com; Web http://web.iitd.ac.in/~munishwar/]; SC: X.

2002 : GUPTA, Narinder Kumar (b 1942), PhD, Doctor (hc) (Russian Acad. Sc.), Sp: Plasticity and Impact Mechanics; FNASc, FNAE, FTWAS, INSA Senior Scientist, Department of Applied Mechanics, Indian Institute of Technology Delhi, New Delhi 110016; A-33, Gyandeep Apartments, Mayur Vihar Phase-I, Delhi 110091 [Tel (011) 2659-1178 (O), 2279-6430 (R), 90-138-23907 (M); Email nkgupta@iitd.ac.in]; Lecture: KS Krishnan Memorial (2013); Council: VP 2008-10; SC: V.

1986 : GUPTA, Pushpendra Kumar (b 1936), PhD, Sp: Cytogenetics, Plant Breeding & Biotechnology; FASc, FNASc, FNAAS, INSA Senior Scientist, Emeritus Professor, Department of Genetics and Plant Breeding, Chaudhary Charan Singh University, Meerut; F-119, Shastri Nagar, Meerut 250004 [Telefax (0121) 276-8195 (Lab), 276-2505 (R); Email pkgupta36@gmail.com]; SC: VII.

1995 : GUPTA, Raj Krishna (b 1946), PhD, Sp: Soil Science, Land Reclamation, Irrigation Water Quality and Conservation Agriculture; FNASc, FAAS, Team Leader, BISA Research Station Developments, formerly ICARDA Coordinator for Central Asia, Tashkent and Regional Facilitator, Rice Wheat Consortium, CIMMYT-India, NASC Complex, Pusa Campus, New Delhi; National Coordinator, NATP, ICAR, Krishi Bhawan, New Delhi; C-2/2446, Vasant Kunj, New Delhi 110070 [Tel 97-110-09365 (M); Email rajgupta@cgiar.org, rajbisa2013@gmail.com]; Lecture: Professor BD Tilak (2003); SC: XII.

2001 : GUPTA, Satish Kumar (b 1953), PhD, Sp: Reproductive Biology/Immunology, Immunodiagnostics, Vaccine Development; FASc, FNASc, FAMS, Emeritus Scientist, Reproductive Cell Biology Laboratory, National Institute of Immunology, Aruna Asaf Ali Marg, New Delhi 110067; H-2, NII Campus, New Delhi 110067 [Tel (011) 2670-3651, 2674-1249 (O), 2670-3520 (R); Fax 2674-2125; Email skgupta@nii.ac.in]; Medal: INSA Young Scientist (1982); Lecture: Dr Nitya Anand Endowment (2003); SC: XI.

2011 : GUPTA, Sourendu (b 1959), PhD, Sp: Theoretical High Energy Physics, Statistical Mechanics in Quantum Field Theory, Quantum Chromodynamics and Strong Interactions; Senior Professor, Department of Theoretical Physics, Tata Institute of Fundamental Research, Mumbai 400005 [Tel (022) 2278-2245 (O), 2278-3245 (R); Email sgupta@tifr.res.in]; SC: II.

1960 : GUPTA, Suraj Narayan (b 1924), PhD(Cantab), Sp: High Energy Physics; Distinguished Professor of Physics, Wayne State University, Detroit, Michigan 48202, USA; 30001 Hickory Lane, Franklin, Michigan 48025, USA [Tel (313) 577-2721 (O)]; SC: II.
1987 : GUPTASARMA, Dharmajit (b 1932), MSc, Sp: Electronics, Exploration Geophysics; FASc, formerly Director, NGRI, Hyderabad; 203, Kakatiya Apts, St No 2, Habshiguda, Hyderabad 500007 [Tel (040) 2715-2062 (R); Fax 2717-1564; Email dguptasarma@gmail.com]; Council: Mem 1991-93; SC: IV.

1997 : GURJAR, Rajendra Vasant (b 1950), PhD, Sp: Algebraic Geometry, Commutative Algebra; INSA Honorary Scientist, Senior Professor, School of Mathematics, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400005; 604, Meghnad, TIFR Hsg Colony, Homi Bhabha Road, Mumbai 400005 [Tel (022) 2278-2472 (O), 2280-4993 (R); Fax 2280-4610, 2280-4611; Email gurjar@math.tifr.res.in]; SC: I.

2010 : GURU ROW, Tayur Narasingarow (b 1951), PhD, Sp: X-Ray Crystallography, Structural Chemistry; FASc, Professor, Solid State and Structural Chemistry Unit, Indian Institute of Science, Bengaluru 560012; 11, West Anjaneya Temple Road, Basavanagudi PO, Bengaluru 560004 [Tel (080) 2293-2796, 2293-3306, 2293-2336 Ext 2027 (O), 98-805-09225 (M); Fax 2360-1310; Email ssctng@sscu.iisc.ernet.in; Web http://144.16.75.32]; SC: III.

2013 : HAIDER, Syed Aftab (b 1958), PhD, Sp: Planetary Atmospheres, Ionospheres and Magnetospheres, Cometary Coma and Dust; FASc, FNAsc, President of AOGS (Planetary Science), Space & Atmospheric Science Division, Physical Research Laboratory, Navrnga, Ahmedabad 380009; Bungalow 9, Unique Park Society, Sarkhej Road, Ahmedabad 380055 [Tel (079) 2631-4555 (O), 96-623-27992 (M); Fax 2631-4659; Email haider@prl.res.in]; SC: IV.

1993 : HANS-GILL, Rajinder Jeet (Mrs) (b 1943), PhD, Sp: Geometry of Numbers, Number Theory, Discrete Geometry; FASc, FNAsc, FTWAS, Emeritus Professor and INSA Honorary Scientist, CAS in Mathematics, Panjab University, Chandigarh 160014; 1611, Sector 44B, Chandigarh 160047 [Tel (0172) 254-1132 (O), 262-4837 (R); Email hansgill@pu.ac.in, hansgillrj@yahoo.co.in]; Council: Mem 2003-Oct 04, VP Oct 2004-2005; SC: I.

1973 : HARIHARAN, Parameswaran (b 1926), PhD, DSc, Sp: Optics; FASc, 608, Baron DeKalb Road, Wayne, PA 19087, USA [Tel (1) 610-341-0389 (R); Email harihan_optics@hotmail.com]; SC: II.

2006 : HASAN, Gaiti (b 1956), PhD, Sp: Molecular Genetics and Intracellular Calcium Signalling; FTWAS, Senior Professor, National Centre for Biological Sciences, Tata Institute of Fundamental Research, GKVK Campus, Bellary Road, Bengaluru 560065; No 93-96, 10th Main, Rajmahal Vilas Extn, Bengaluru 560080 [Tel (080) 2366-6140 (O), 2361-3640 (R); Fax 2363-6462; Email gaiti@ncbs.res.in; Web http://www.ncbs.res.in/gaiti/groups_gaiti.htm]; SC: VIII.
1999 : HASNAIN, Seyed Ehtesham (b 1954) PhD, DSc (hc), DMEDSc (hc); Sp: Functional Biology, Molecular Pathogenesis & Dissemination Dynamics of Human Pathogens particularly *M. tuberculosis*; FASc, FNASC, FTWAS, Member, German National Acad Sci, Leopoldina, Fellow, American Academy of Microbiology; Professor, *Kassima School of Biological Sciences, Indian Institute of Technology Delhi*, Hauz Khas, New Delhi, 110016; 13, West Avenue, IIT Campus, Hauz Khas, New Delhi 110016 [Tel (011) 2659-7522 (O), 2658-1377 (R); Fax 2658-1481; Email sehitiid@gmail.com; Web http://www.sye deposition.org, http://www.isogem.org/hasnain.html, http://www.iitd.ac.in]; **Lecture:** Dr Nitya Anand Endowment (2005), Dr Y SubbaRow Memorial (2008); **Council:** Mem 2003-05; **SC:** X.

2010 : HOSUR, Madhusoodan (b 1950), PhD, Sp: Biophysics, X-ray Crystallography; DAE Raja Ramanna Fellow, *Advanced Centre for Treatment, Research and Education in Cancer (ACTREC)*, Sector 22, Kharghar, Navi Mumbai 410210; C-4/8, Kendriya Vihar, Sector 11, Kharghar, Navi Mumbai 410210 [Tel (022) 2740-5142 (O), 2774-1682 (R), 98-219-88370 (M); Email mhosur@actrec.gov.in, hosurmrv@gmail.com]; **SC:** X.

1995 : HOSUR, Ramakrishna Vijayacharya (b 1953), PhD, Sp: Biophysical Chemistry, NMR, Structural Biology; FASc, FNASC, FTWAS, Senior Professor (I), *Department of Chemical Sciences, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400005*; 301, Satyendra, TIFR Hsg Colony, Mumbai 400005 [Tel (022) 2278-2488 (D), 2280-4545 Ext 2488 (O), 2280-4635 (R); Fax 2280-4610, 2280-4611; Email hosur@tifr.res.in]; **Medal:** INSA Young Scientist (1984); **Lecture:** Professor RK Asundi Memorial (1998), Dr Jagdish Shankar Memorial (2003); **Council:** Mem 2008-10; **SC:** III.

1983 : HUSAIN, Akhtar (b 1928), PhD, Sp: Plant Pathology; FNAAS, formerly Director, CIMAP, Lucknow & VC, Jamia, Hamdard; 50, Adil Nagar, Kalyanpur, Lucknow 226022 [Tel (0522) 275-2479 (R)]; **SC:** XII.

2002 : ILA, Hiriyakkanavar (b 1944), PhD, Sp: Synthetic and Medicinal Chemistry; FASc, Hindustan Lever Research Professor, *Jawaharlal Nehru Centre for Advanced Scientific Research, Jakkur, Bengaluru 560064*; Apt 002, Block 8, Heritage Estate, Yelahanka, Bengaluru 560064 [Tel (080) 2208-2714 (O), 2366-4357 (R), 99-019-96421 (M); Email hila@jncasr.ac.in]; **SC:** III.

2001 : IQBAL, Javed (b 1947), PhD, Sp: Organic and Organometallic Chemistry; FASc, Executive Director, Dr Reddy's Institute of Life Sciences, *University of Hyderabad Campus, Gachibowli, Hyderabad 500046* [Tel (040) 6657-1571, 2419-3132 (R), 98-497-99444 (M); Email jqibqal@drils.org]; **Council:** Mem 2003-05; **SC:** III.

1989 : JACOB, Kallarackel Thomas (b 1944), PhD, DSc Engg (Lond), Sp: Materials Science and Processing, Thermodynamics of Materials, Phase Equilibria, Materials Extraction, Fuel Cells and Solid State Sensors, High Temperature Corrosion; FASc, FNASC, FNACE, Emeritus Professor, *Department of Materials Engineering, Indian Institute of Science, Bengaluru 560012*; 210, Indira Nagar, Stage 1, 7th Cross, Bengaluru 560038 [Tel (080) 2293-2494 (O), 2525-2765 (R); Fax 2360-0683, 2360-0685, 2360-0472; Email katob@materials.iisc.ernet.in]; **Medal:** Professor Brahm Prakash Memorial (1998), SH Zaheer (2007); **SC:** V.
2014 : JAGANNATHAN, Naranamangalam Raghunathan (b 1954), PhD, Sp: Clinical and Pre-clinical Cancer Research using Molecular Imaging/Magnetic Resonance Imaging (MRI) & in-vivo NMR Spectroscopy/Functional MRI Studies/NMR Metabolomics/Biophysics; FAASc, FNASc, FAMS, JC Bose National Fellow, Professor & Head, Department of NMR & MRI Facility, All India Institute of Medical Sciences, Ansari Nagar, New Delhi 110029; C-I-11, AIIMS Quarters, Ansari Nagar East, New Delhi 110029 [Tel (011) 2658-8533, 2659-3253 (O), 2658-8580, 2659-4511 (R), 99-682-92772 (M); Fax 2658-8663; Email jagan1954@hotmail.com, nrjgi@yahoo.co.in]; SC: XI.

1973 : JAGANNATHAN, Venkataraman (b 1921), PhD (Stanford), Sp: Biochemistry and Plant Tissue Culture; FAASc, formerly Head of Biotechnology, TERI, New Delhi & Head, Biochemistry, NCL, Pune; F 1, Kumar Classics, Aundh, Pune 411007 [Tel (020) 2588-1959 (R); Email hema1440@gmail.com]; SC: X.

1981 : JAIN, Amolak Chand (b 1928), PhD (Delhi & Cantab), DSc (Moscow), Sp: Organic & Bio-organic Chemistry; FNASc, formerly Professor, Department of Chemistry, University of Delhi; 209, Vaishali, Pitampura, New Delhi 110088 [Tel (011) 2731-7594, 2731-4808 (R), 98-732-67012 (M)]; INSA Senior Scientist (1995-2000); SC: III.

2005 : JAIN, Arvind Kumar (b 1944) PhD, Sp: Geology, Structural Geology & Tectonics; INSA Senior Scientist, CSIR-Central Building Research Institute, Roorkee 247667; formerly Professor, Department of Earth Sciences, IIT Roorkee, Roorkee; 483, Solani Puram, Roorkee 247667 [Tel (01332) 273-095 (R), 94-120-74235 (M); Email himalfes@gmail.com]; SC: IV.

1981 : JAIN, Dharam Vir Singh (b 1933), PhD (S Calif), Sp: Physical & Theoretical Chemistry; FAASc, FNASc, INSA Honorary Scientist, Department of Chemistry, Panjab University, Chandigarh 160014; formerly Professor of Physical Chemistry & Director, RSIC, Panjab University, Chandigarh; 1529, Sector 49-B, Pushpnc Complex, Chandigarh 160047 [Tel (0172) 253-4415 (O), 263-2568, 507-2127 (R); Fax 254-5074; Email dvsjain@pu.ac.in, dvsjain@yahoo.com]; Lecture: JL Nehru Birth Centenary (1999); INSA Senior Scientist (1996-2001); Council: Ed Pub 1987-90, Sec 1994-96; SC: III.

1974 : JAIN, Hari Krishan (b 1930), PhD (Wales), Sp: Genetics & Plant Breeding, Agricultural Research Policy; FAASc, FNASc, FNAAS, Chancellor, Central Agricultural University, Imphal; formerly Director, IARI & DDG, International Service for National Agricultural Res, The Hague, Netherlands; 40, Suryaniketan, Vikas Marg Ext, Delhi 110092 [Tel (011) 2237-9560 (O), 2237-3451 (R); Email hkJ2008@gmail.com]; Lecture: JL Nehru Birth Centenary (1996); Council: Mem 1979-81; SC: XII.
1977 : JAIN, Mahinder Kumar (b 1932), DPhil, DSc, Sp: Differential Equations – Numerical Solution; formerly Vice-Chancellor APS University Rewa, MP; Dy Director, Professor & Head, Mathematics Department and Computer Services Centre, IIT Delhi and Head, Mathematics Department, Faculty of Science, Mauritius University, Mauritius; 4076, C/4, Vasant Kunj, New Delhi 110070 [Tel (011) 2689-8631 (R), 98-102-00933 (M)]; SC: I.

1978 : JAIN, Padam Chand (b 1930), PhD, Sp: Numerical Mathematics, Computational Algorithms; FNASc, formerly Professor & Head, Department of Mathematics, IIT, Mumbai; 3389, Sector D/3, Vasant Kunj, New Delhi 110070 [Tel (011) 4602-4055 (R)]; SC: I.

1982 : JAIN, Sudhanshu Kumar (b 1926), PhD, Sp: Ethnobotany, Plant Taxonomy, Conservation, Medicinal Plants; FNASc, INSA Honorary Scientist, Founder & formerly Director, SK Jain Institute of Ethnobiology, Jiwaji University, Gwalior; formerly Director, BSI; A-26, Avas Vikas Colony, Mall Avenue Colony, Lucknow 226001 [Tel (0522) 223-5474 (R), 98-390-28325 (M); Email skjainbotanist@rediffmail.com]; Medal: Professor SB Saksena Memorial (1996); SC: VII.

1992: JAIrajPuri, Mohammad Shamim (b 1942), PhD, DSc, Sp: Nematology, Parasitology Taxonomy, Biological Diversity; FASc, FNASC, FNAAS, FFWAS, INSA Honorary Scientist & Adjunct Professor of Nematology, IARI, New Delhi 110012; formerly Professor of Zoology, Aligarh Muslim University, Aligarh 202002; formerly VC, MANUU, Hyderabad & Director, Zoological Survey of India; Flat No. 104, First Floor, 274-Aslam Manzil, Block-B, Jamia Nagar (Village Okhla), New Delhi 110025 [Tel 95-409-81665 (O & R); Email msjairajpuri@gmail.com]; Lecture: Professor Har Swarup Memorial (2000); Visiting Fellowship: JL Nehru Birth Centenary (2004); Council: Mem 1995-97, VP 2001-03; SC: VIII.

2004 : JAMEEL, Shahid (b 1957), PhD, Sp: Virology; FASc, FNASC, Chief Executive Officer (CEO), The Wellcome Trust/DBT India Alliance, 1110 DLF Tower B, Jasola, New Delhi 110025; 26, Zakir Bagh, New Delhi 110025 [Tel (011) 4100-8402/03 (O), 2684-0631 (R); Email shahid.jameel@wellcomedbt.org; Web http://www.icgeb.org]; Lecture: Dr MR Das Memorial (2008); SC: XI.

2002 : JAYANNAVAR, Arun Mallojirao (b 1956), PhD, Sp: Condensed Matter Physics (Theory); FASc, FNASC, Professor, Institute of Physics, PO Sainik School, Bhubaneswar 751005; Institute of Physics Campus, PO Sainik School, Bhubaneswar 751005 [Tel (0674) 230-6424 (O), 99-372-03925 (M); Fax 230-0142; Email jayan@iopb.res.in]; SC: II.

2010 : JAYARAM, Vikram (b 1956), PhD, Sp: Materials Science and Engineering; FASc, FNASC, FNAE, FIIM, Professor, Department of Materials Engineering, Indian Institute of Science, Bengaluru 560012; M204, Brigade Gateway, 26/1 Dr Rajkumar Road, Malleswaram West, Bengaluru 560055 [Tel (080) 2293-3243, 2293-2263 (O); Fax 2360-1198, 2360-0472; Email qjayaram@materials.iisc.ernet.in, qjayaram@yahoo.com]; SC: V.
1993 : JAYARAMAN, Ramamirtha (b 1937), PhD (Tufts), Sp: Molecular Biology and Microbial Genetics; FASc, formerly Professor, School of Biological Sciences, Madurai Kamaraj University, Madurai; R.H. 35, Palaami Enclave, Reserve Line, New Natham Road, Madurai 625014 [Tel (0452) 264-2474 (R); Email aarjay007@rediffmail.com, ramjayaraman37@yahoo.com]; Medal: Professor GN Ramachandran 60th Birthday Commemoration (1997); INSA Senior Scientist (1998-2001); SC: X.

1998 : JEMMIS, Eluvathingal Devassy (b 1951), PhD (Princeton), Sp: Theoretical and Computational Chemistry; FASc, FNASC, FTWAS, Professor, Department of Inorganic and Physical Chemistry, Indian Institute of Science, Bengaluru 560012; formerly Director, IISER, Thiruvananthapuram; Bungalow No. 8/1, Indian Institute of Science Campus, Bengaluru 560012 [Tel (080) 2293-3347/48 (Lab), 2360-7380 (R), 94-835-98097 (M); Fax 2360-1552; Email jemmis@gmail.com, jemmis@ipc.iisc.ernet.in; Web http://ipc.iisc.ernet.in/jemmis.html]; Medal: INSA Young Scientist (1982), AK Bose Memorial (1988); Lecture: Dr Jagdish Shankar Memorial (2000); Council: Mem 2012-14; SC: III.

2015 : JHA, Bhavanath (b 1958), PhD, Sp: Plant Molecular Biology & Biotechnology, Stress Genomics, Coastal & Marine Biotechnology, Gene Mining and Translational Research; FNASC, FNAAS, Chief Scientist, Head and Coordinator, Discipline of Marine Biotechnology and Ecology, CSIR-Central Salt and Marine Chemicals Research Institute, G.B. Marg, Bhavnagar 364002, Gujarat [Tel (0278) 256-7352 (O), 256-2019 (R), 94-272-32120 (M); Fax 257-0885; Email bjha@csmeri.org]; SC: VII.

1979 : JHA, Sudhanshu Shekhar (b 1940), PhD (Stanford), Sp: Solid State Physics & Optoelectronics; FASc, FNASC, FTWAS, Distinguished Guest Faculty, UM-DAE Centre for Excellence in Basic Sciences, Mumbai; formerly Director, TIFR, Mumbai and Distinguished Guest Professor, IIT Bombay, Powai, Mumbai; 402, Vigyanshila, Juhu-Versova Link Road, 7 Bungalows, Andheri (W), Mumbai 400061 [Tel (022) 2632-7413 (R), 98-924-98234 (M); Email ss_jhain@hotmail.com]; Medal: SN Bose (1992); Lecture: JL Nehru Birth Centenary (1991); Council: Mem 1999-2001; SC: II.

2000 : JHUNJHUNWALA, Ashok (b 1953), PhD, Sp: Telecommunication, Wireless Communications, Computer Networks, Fibre Optics, Decentralized Solar Power Systems; FASc, FNASC, FNAE, Professor, Department of Electrical Engineering, Indian Institute of Technology Madras, Chennai 600036 [Tel (044) 2257-0120, 2257-4408 (O), 2257-6408 (R); Fax 2257-0120; Email ashok@tenet.res.in; Web http://www.tenet.res.in]; Council: Mem 2008-10; SC: V.

2013 : JOG, Chanda Jayant (b 1954), PhD, Sp: Astrophysics of Galaxies; FASc, FNASC, FTWAS, Professor, Department of Physics, Indian Institute of Science, Bengaluru 560012; Apt 1B, Vastra Bhavan, No. 64, 4th Main, off 18th Cross, Malleswaram, Bengaluru 560055 [Tel (080) 2293-3285, 2360-7703 (O); Fax 2360-2602; Email cjjog@physics.iisc.ernet.in; Web physics.iisc.ernet.in/cjjog/]; SC: II.
1997 : JOHN, Thekkekara Jacob (b 1935), MBBS, PhD, Sp: Medicine: Paediatrics, Microbiology & Virology; FASc, FNASc, FRCP, formerly Professor & Head, Department of Clinical Virology, Christian Medical College & Hospital, Vellore 632004; Thekkekara, 439 Civil Supplies Godown Lane, Vellore 632002 [Tel (0416) 226-7364 (R), 78-453-38188 (M); Email tjacobjohn@yahoo.co.in]; 
Lecture: Dr TS Tirumurti Memorial (2003); SC: XI.

1993 : JOHRI, Man Mohan (b 1940), PhD, Sp: Molecular Biology of Plants; FASc, Guest Faculty, University of Mumbai & DAE Centre for Excellence in Basic Sciences; formerly Professor, Department of Biological Sciences, TIFR, Mumbai; 32, New Cosmos, Juhu Versova Link Road, Andheri (W), Mumbai 400053 [Tel (022) 2670-3270 (R), 99-305-64129 (M); Email mjohri06915@yahoo.co.in]; Lecture: BN Chopra (1995); Council: Mem 2003-05; SC: VII.

2011 : JOSEPH, Kayyunnapara Thomas (b 1956), PhD, Sp: Hyperbolic Conservation Laws and Parabolic PDES, Boundary Layers and Delta Shocks; FASc, Professor, TIFR Centre for Applicable Mathematics, PB No 6503, GKV PO, Sharada Nagar, Chikkabommasandra, Bengaluru 560065, Karnataka; Sri Guru Deepam, Flat No. 201, No. 31, 29th Cross, 4th Main Santhosh Nagar, Attur, Yelahanka, Bengaluru 560064 [Tel (080) 6695-3718 (O), 72-591-50130 (M); Fax 6695-3799; Email ktj@math.tifrbng.res.in]; SC: I.

2011 : JOSHI, Amitabh (b 1965), PhD, Sp: Evolutionary Genetics and Population Ecology; FASc, FNASc, JC Bose National Fellow, Professor, Evolutionary and Organismal Biology Unit, Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Jakkur PO, Bengaluru 560064 [Tel (080) 2208-2802 (O) 2208-2803 (Lab), 93-413-54233 (M); Fax 2208-2766; Email ajoshi@jncasr.ac.in]; SC: VIII.

2013 : JOSHI, Arun Kumar (b 1958), PhD, Sp: Agricultural Sciences; Professor, Department of Genetics and Plant Breeding, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi 221005; 31 Mahamanapuri, P.O. BHU, Varanasi 221005 [Tel 94-152-21526 (M); Email joshi_vns@yahoo.com, a.k.joshi@cgiar.org]; SC: XII.

1976 : JOSHI, Balawant Shankar (b 1924), PhD (Tech), PhD & ScD (Cantab), Sp: Organic Chemistry, Chemistry of Natural Products; FASc, formerly Research Scientist, CIBA-Geigy Research Centre Bombay and Institute for Natural Products Research, University of Georgia, Athens, GA 30602; 1738, Kinsmon Cove, Marietta GA 30062, USA [Tel (706) 549-2885 (R), 770-649-7137 (M); Email balawant.joshi@gmail.com]; SC: III.

1995 : JOSHI, Jyeshtharaj Bhalchandra (b 1949), PhD (Tech), Sp: Chemical Engineering; FASc, FTWAS, JC Bose National Fellow, Institute of Chemical Technology; Emeritus Professor, Homi Bhabha National Institute, Training School Complex, Anushaktinagar, Mumbai 400094; 401, Shubh Ashirwad Society, 5th Lane, Hindu Colony, Dadar East, Mumbai 400014 [Tel (022) 2559-7625 (O), 2411-5448 (R); Fax 3361-1020; Email jb Joshi@gmail.com]; Medal: INSA Young Scientist (1981), Vishwakarma (2000), SH Zaheer (2008); SC: V.
2013 : JOSHI, Pankaj Shantilal (b 1953), PhD, Sp: Gravitation Theory and Cosmology; FNASC, Senior Professor, Department of Astronomy and Astrophysics, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400005; 301, Bhaskara, TIFR Housing Colony, Homi Bhabha Road, Mumbai 400005 [Tel (022) 2278-2486 (O), 2280-4923 (R); Fax 2280-4610/11; Email psj@tifr.res.in]; SC: II.

1974 : JOSHI, Shri Krishna (b 1935), DPhil, DSc (hc), Sp: Solid State Physics; FASc, FNASC, FTWAS, Mem, Russian Acad Sc, INSA Honorary Scientist, CSIR-National Physical Laboratory, Dr KS Krishnan Marg, New Delhi 110012; formerly DG, CSIR, New Delhi; M 56 South City 1, Gurgaon 122001, Haryana [Tel (011) 4560-9363 (O), (0124) 238-3700 (R); Fax 4560-9310; Email skjoshinpl@gmail.com, skjoshi@nplindia.org]; Medal: CV Raman (1999); Lecture: KS Krishnan Memorial (1987), DS Kothari Memorial (2011); Council: Sec 1983-86, F Sec 1989-92; Pres 1993-95; SC: II.

2007 : JOSHIPURA, Anjan Sidhvantlal (b 1950), PhD, Sp: High Energy Physics; FASc, FNASC, Honorary Scientist, Theoretical Physics Group, Physical Research Laboratory, Navarangpura, Ahmedabad 380009; N104, Indraprastha 6, Prahaladnagar, Ahmedabad 380051 [Tel (079) 2631-4453 (O), 3047-1752 (R); Fax 2631-4460; Email anjan@prl.res.in]; SC:II.

2012 : JOY, Keerikkattil Paily (b 1950), PhD, Sp: Neuroendocrinology, Reproductive Endocrinology; INSA Senior Scientist, Former Professor, Head of Department and Co-ordinator, CAS, Department of Zoology, Banaras Hindu University, Varanasi 221005; Keerikkattil, Vadavucode P.O., Ernakulam, Kerala 682310 [Tel 82-812-74891, 99-356-14935 (M); Email kpjoy@bhu.ac.in, kpjoybhu@gmail.com, keerikkattilpailyjoy@yahoo.com]; SC: VIII.

1990 : JUNJAPPA, Hiriyakkanavar (b 1936), PhD, Sp: Synthetic and Mechanistic Organic Chemistry; FASc, INSA Senior Scientist and Research Professor, Chemistry Research Unit, REVA Institute of Science and Management, Kattigenahalli, Yelahanka, Bengaluru 560064; formerly Professor & Head, Department of Chemistry, North Eastern Hill University, Shillong; Flat No. 002, Block 8, Heritage Estate, Doddaballapur Road, Yelahanka, Bengaluru 560064 [Tel (080) 2366-4357 (R), 98-453-72078 (M); Email junjappa_123@rediffmail.com]; SC: III.

2013 : KAILAS, Swaminathan (b 1949), PhD, Sp: Accelerator Based Nuclear Physics and Applications; FASc, Senior Scientist, UM-DAE Centre for Excellence in Basic Sciences, University of Mumbai, Mumbai 400098; DAE Raja Ramanna Fellow and formerly Director, Physics Group, Bhabha Atomic Research Centre, Trombay, Mumbai 400085; 501 Tulip, Neelkanth Gardens Govandi, Mumbai 400088 [Tel 98-692-84445 (M), 2551-2291 (R); Email kailas@barc.gov.in, drskailas@rediffmail.com, swaminathankailas305@gmail.com, kailas@cbs.ac.in]; SC: II.
1979 : KALLIANPUR, Gopinath (b 1925), PhD, Sp: Probability and Stochastic Processes, Alumni Distinguished Professor (Retired), Department of Statistics, The Univ of North Carolina AT Chapel Hill NC 27599-3260, USA; 1301 Wildwood Drive, Chapel Hill, N.C. 27517, USA [Tel (919) 962-2187 (O), 929-2050 (R); Email gkall@email.unc.edu]; SC: I.

1989 : KAMBOJ, Ved Prakash (b 1937), PhD, DSc, Sp: Reproductive Biology, Contraception and Endocrinology; FNASc, Mem NYASc, formerly Director, CDRI, Lucknow and formerly Chairman, BIBCOL, Bulandshahar; C-1111, Opposite Church, Indira Nagar, Lucknow 226016 [Tel (0522) 234-4333, 235-4050 (R); Fax 262-3405, 262-3938; Email kambojvp@yahoo.com, kambojvp@rediffmail.com]; Council: Ad Mem 1998-99, 2007, Mem 2008-10; SC: VIII.

2004 : KAMRA, Adarsh Kumar (b 1944), PhD, Sp: Atmospheric Sciences; FASc, INSA Honorary Scientist, Indian Institute of Tropical Meteorology, Dr Homi Bhabha Road, Pashan, Pune 411 008; 203, Tulip, The Cosmopolitan Housing Society, Aundh, Pune 411007 [Tel (020) 2586-5055-57 (O), 2588-7270 (R); Fax 2586-5142; Email kamra@tropmet.res.in]; SC: IV.

2016 : KANG, Gagandeep (b 1962), MBBS, MD, PhD, MRCPath, Sp: Medicine, Microbiology, Public Health; FRCPath, FASc, FNAsc, Professor and Head, The Wellcome Trust Research Laboratory, Division of Gastrointestinal Sciences, Christian Medical College, Vellore 632004; 327, South Road, CMC Campus, Bagyam, Thorapadi Post, Vellore 632002 [Tel (0416) 228-2052 (O), 228-4266 (R), 98-940-70266 (M); Fax 228-2486; Email gkang@cmcvellore.ac.in, wellcome@cmcvellore.ac.in]; SC: XI.

1987 : KANNAN, Kazhiur Kothandapani (b 1939), PhD, Sp: Macromolecular Crystallography, Molecular Biology; FASc, formerly Scientific Officer, Solid State Physics Division, Atomic & Condensed Matter Physics Group, BARC, Mumbai; F206, Redwood, Rabeja Residency, Koramangala, 3rd Block, Bengaluru 560034 [Tel (080) 2550-5829 (R), 87-627-80061 (M); Email kannan_99@yahoo.com]; Lecture: JL Nehru Birth Centenary (1992); INSA Senior Scientist (1998-02); Council: Sec 1993-95; SC: X.

1994 : KANNAN, Varadachariar (b 1946), PhD, Sp: Mathematical Analysis & Topology; FASc, FNAsc, Professor, School of Mathematics & Statistics, Hyderabad University, Hyderabad 500046; 195, Doyens Township, Serilingampalli, Hyderabad 500019 [Tel (040) 2313-4001 (O), 2301-0702 (R), 99-491-93737 (M); Fax 2301-1469; Email vksm@uohyd.ernet.in]; Council: Mem 2007-09; SC: I.

2007 : KANT, Tarun (b 1946), PhD, Sp: Structural Mechanics; FASc, FNAsc, FNAE, Professor, Department of Civil Engineering, Indian Institute of Technology Bombay, Powai, Mumbai 400076; 201, Shree Ram Niwas, Opp. IIT Bombay, IIT Market, Powai, Mumbai 400076 [Tel (022) 2576-7310, 2576-7301 (O), 2577-1090 (R), 99-691-64646, 97-571-77990 (M); Fax 2576-7302; Email tkant@civil.iitb.ac.in, tkant1946@gmail.com; Web http://www.civil.iitb.ac.in/~tkant]; SC: V.
1975 : KANWAR, Jaswant Singh (b 1922), PhD (Australia), DSc (hc), Sp: Soil Science, Agriculture; FNAAS; DDG (Emeritus), ICRISAT, Patancheru; formerly DDG, ICAR, New Delhi; Director Research, PAU, Ludhiana; 17, ICRISAT Colony II, Hashmathpet Road, Secunderabad 500009 [Tel (040) 2775-5104 (R)]; Council: Mem 1978-80; SC: XII.

1984 : KAPOOR, Shyam Sunder (b 1938), PhD, Sp: Nuclear Physics, Particle Detectors, Particle Accelerators & Applications; FASc, FNASC, formerly DAE Homi Bhabha Professor and Director, Physics and Electronics & Instrumentation Groups, BARC, Mumbai; A-3, Banganga, Govandi Station Road, Deonar, Mumbai 400088 [Tel (022) 2550-4301 (R); Email kapoorss2002@yahoo.co.in]; Council: Mem 1996-98; SC: II.

2015 : KAPURIA, Santosh (b 1968), PhD, Sp: Structural Mechanics, Multifunctional Structures; FNASC, FNAE, Rajat Gupta Chair Professor, Department of Applied Mechanics, Indian Institute of Technology Delhi, Hauz Khas, New Delhi 110016; 18 Vikramshila, IIT Campus, Hauz Khas, New Delhi 110016 [Tel (011) 2659-1218 (O), 2658-1563 (R), 96-547-28776 (M); Fax -1119; Email kapuria@am.iitd.ac.in]; SC: V.

2014 : KAR, Premashis (b 1950), MD, DM, PhD, Sp: Gastroenterology; FRCP, FAMS, Director, Professor of Medicine & Gastroenterologist, Room No 127, BL Taneja Block, Department of Medicine, Maulana Azad Medical College, New Delhi 110002; E-23, Nivedita Kunj, RK Puram, Sector 10, New Delhi 110022 [Telefax (011) 2323-0132 (O), 2618-9271 (R), 99-686-04270 (M); Email premashishkar@gmail.com]; SC: XI.

2006 : KARANDIKAR, Rajeeva Laxman (b 1956), PhD, Sp: Probability and Statistics; FASc, Director, Chennai Mathematical Institute, H1 SIPCOT IT Park, Siruseri 603103, Chennai [Tel (044) 2747-0226 (O), 81-448-13296 (M); Fax 2747-0225; Email rkarandikar@gmail.com, rlk@cmi.ac.in]; Medal: INSA Young Scientist (1985); Council: Mem 2013-15; SC: I.

1994 : KARTHA, Vasudevan Bhaskaran (b 1934), PhD, Sp: Analytical Spectroscopy, Atomic & Molecular Physics, Laser Biological Applications; FASc, Advisor, Centre for Atomic and Molecular Physics, Manipal University, Manipal 576104; 21 Udayagiri, Sion-Trombay Road, Deonar, Mumbai 400088 [Tel (022) 2556-4908 (R); Email sbkartha@hotmail.com, bhasikartha@gmail.com]; Lecture: Professor KR Rao Memorial (1991); SC: III.

2014 : KASBEKAR, Durgadas Prabhakar (b 1956), PhD, Sp: Fungal Genetics and Molecular Biology; FASc, Haldane Chair, Centre for DNA Fingerprinting and Diagnostics, Building 7, Gruhakalpa, 5-4-399/B, Nampally, Hyderabad 500001; K-127, Vaishali Garden Apartments, Street No. 20, Tarnaka, Hyderabad 500017 [Tel (040) 2474-9401 (O), 2717-3903 (R), 89-782-51840 (M); Fax 2474-9448; Email kas@cdfd.org.in]; SC: IX.

1979 : KASTURI, Tirumalai Rangachar (b 1931), PhD, DSc, Sp: Synthetic & Mechanistic Organic Chemistry; FASc, INSA Senior Scientist, formerly Professor, Department of Organic Chemistry, IISc, Bengaluru; 51, Sharada Colony, West of Chord Road, III Stage, IV Block, Basavesvaranagar, Bengaluru 560079 [Tel (080) 2348-0349 (R); Fax 2334-1683]; SC: III.
1989: KASTURIRANGAN, Krishnaswamy (b 1940), PhD, DSc (hc), Sp: Experimental Astronomy, Satellite Technology & Remote Sensing Systems; FASc, FNASE, FNAE, FTWAS, Trustee, Raman Research Institute Trust, CV Raman Avenue, Sadashivanagar, Bengaluru 560080 [Tel (080) 2361-0522 (O); Fax 2361-0492]; Distinguished Professor Emeritus, National Institute of Advanced Studies, Indian Institute of Science Campus, Bengaluru 560012 [Tel (080) 2218-5061 (O); Fax 2218-5028]; Flat No. 1002, Alder 1, Godrej Woodsman Estate, Bellary Road, Hebbal, Bengaluru 560024 [Tel (080) 4216-1181 (R); Email k.rangan@gov.in]; Medal: Aryabhata (2000); Council: Mem 1993-94; SC: V.

1983: KATIYAR, Sarvagya Singh (b 1935), PhD, DSc (hc), Sp: Enzymology, Biotechnology & Chemistry; FNASE, FTWAS, formerly VC, Chhatrapati Shahu Ji Maharaj University and Chandra Shekhar Azad University of Agriculture & Technology, Kanpur; Chairman, UP State Council for Higher Education, Lucknow and Founding Director, Dr RML National Law Institute, Lucknow; President, AIU, New Delhi; B-111E, Swarup Nagar, Kanpur 208002 [Tel (0512) 255-5136, 255-4544 (R); Fax 255-5136; Email sskatiyar@yahoo.com]; Council: Ad Mem 2002-03, 2010-11, 2016; Mem 2004-06; SC: III.

2009: KATOCH, Vishwa Mohan (b 1953), MD, Sp: Microbiology and Molecular Biology of Mycobacteria/Mycobacteriology; FASc, FNASE, FAMS, former Secretary, Department of Health Research and former Director General, Indian Council for Medical Research; B-16, Govind Marg, Opposite Baraf Khana, Raja Park, Jaipur 302004 [Tel 99-100-53701 (M); Email vishwamohan_katoch@yahoo.co.in]; SC: XI.

2006: KAUL, Deepak (b 1953), PhD, Sp: Molecular Medicine, Functional Genomics, Genomic-Immunity; FICA, FWAAS, FRCPath(Lond), Founder-Professor, Molecular Biology Unit & Professor & Head, Department of Experimental Medicine & Biotechnology, Postgraduate Institute of Medical Education & Research, Chandigarh 160012; HNo. 1041, Sector-37B, Chandigarh 160036 [Tel (0172) 275-5228, 275-5233 (O), 268-6434 (R); Fax 274-4401; Email dkaul_24@hotmail.com, dkaul235@gmail.com]; SC: XI.

1998: KAUL, Romesh Kumar (b 1952), PhD, Sp: Quantum Field Theory, High Energy Physics & Quantum Gravity; FASc, Professor, The Institute of Mathematical Sciences, Taramani, Chennai 600113; Flat G4, Block III, Sindhur Sea Princess Apartments, 7/9 Coastal Road, Besant Nagar, Chennai 600090 [Tel (044) 2254-3317 (O), 2445-3508/09 (R), 94-449-24065 (M); Fax 2254-1586; Email kaul@imsc.res.in]; Medal: INSA Young Scientist (1982); SC: II.

2007: KAUL, Sharika Nandan (b 1949), DIIT, PhD, Sp: Condensed Matter Physics, Materials Science, Nanoscience and Nanotechnology; FASc, JC Bose National Fellow, INSA Senior Scientist, Senior Professor, School of Physics, University of Hyderabad, Hyderabad 500046; A-10, Faculty Quarters, University of Hyderabad Campus, Hyderabad 500046 [Tel (040) 2313-4322 (O), 2301-0686 (R); Fax 2301-0227; Email kaul.sn@gmail.com, kaulsp@uohyd.ernet.in, kaul_sn@yahoo.com]; SC: II.
1984 : KAW, Predhiman Krishan (b 1948), MS, PhD, Sp: Nonlinear Plasma Theory; FASc, FNASc, DST Professor, Institute for Plasma Research, Bhat, Gandhinagar 382428; 18, Jayantilal Park, Ambli-Bopal Road, Ahmedabad 380059 [Tel (079) 2396-9275 (D), 2396-2001 Ext 2049 (O), 2692-7572 (R); Fax 2396-9016, 2396-2277; Email kaw@ipr.res.in]; Professorship: INSA-Albert Einstein Research Professor (2007-11); Medal: INSA Young Scientist (1974); Council: VP 2007-09; SC: II.

1990 : KENKARE, Umakant Waman (b 1927), PhD, Sp: Molecular Enzymology, Structural Biochemistry, Molecular Biology; FASc; Flat D-3, Deepalakshmi, Hatiskar Marg, Prabhadevi, Mumbai 400025 [Tel (022) 2430-9881(R)]; SC: X.

1987 : KESAVAN, Parthasarathy Chenna (b 1938), PhD, Sp: Radiation Biology, Genetics, Biodiversity, Sustainability Science; FNASc, FNAAS, Distinguished Fellow, MS Swaminathan Research Foundation, III Cross Road, Institutional Area, Taramani, Chennai 600113; ‘Sengamalam’, N-19 Maxworth Nagar, Kovilambakkam, Sunnambu Kolathur, Chennai 600117 [Tel (044) 6529-9023 (D), 2254-1698, 2254-2698 (O), 2268-2254 (R), 94-440-24013 (M); Fax 2254-1319; Email pckesavan@mssrf.res.in; Web www.mssrf.org]; SC: VII.

1977 : KESSAR, Satinder Vir (b 1932), PhD (S Calif), Sp: Synthetic Organic Chemistry; FASc, FTWAS, Professor Emeritus, Department of Chemistry, Panjab University, Chandigarh 160014; 635, Sector 11, Chandigarh 160011 [Tel (0172) 254-1435 (O), 274-7308 (R); Email svkessar@pu.ac.in]; Medal: Golden Jubilee Commemoration (Chem Sc) (1992), Meghnad Saha (1996); INSA Honorary Scientist (2006); Council: Mem 1992, VP 1993-94; SC: III.

2003 : KHAKHAR, Devang Vipin (b 1959), PhD, Sp: Chemical Engineering; FASc, FNASc, FNAE, Director and Professor of Chemical Engineering, Indian Institute of Technology, Powai, Mumbai 400076; A-1, Director’s Bungalow, IIT Powai, Mumbai 400076 [Tel (022) 2576-7001 (O), 2572-3738 (R); Fax 2572-3546; Email khakhar@iitb.ac.in; Web http://www.che.iitb.ac.in/faculty/dvk.html]; Council: Mem 2011-13; SC: V.

1981 : KHAN, Mirza Mohammad Taqui (b 1931), PhD, Sp: Inorganic Chemistry, Homogeneous Catalysis; FASc, FNASc, formerly Director, CSMCRI, Bhavnagar, Emeritus Scientist (CSIR), Department of Chemistry, & Honorary Advisor, Academic & Scientific Development Programme, Osmania University, Hyderabad; 479-17-3, Yakutpura, Hyderabad 500023 [Tel (040) 252-4371(R)]; SC: III.

2005 : KHANDUJA, Sudesh Kaur (b 1951), PhD, Sp: Algebra, Algebraic Number Theory; FASc, FNASc, Professor, Indian Institute of Science Education & Research (IISER), Mohali, Knowledge City, SAS Nagar, PO Manauli 140306, Punjab; H No 1297, Sector 37-B, Chandigarh [Tel (0172) 224-0266, 224-0059 (O), 269-1297 (R), 98-152-04096 (M); Email skhanduja@iisermohali.ac.in]; Lecture: Professor VV Narlikar Memorial (2015); SC: I.
1994 : KHANNA-CHOPRA, Renu (*b* 1949), PhD, Sp: Plant Physiology, Stress Physiology, Biochemistry; FNASc, FNAAS, ICAR National Fellow, Stress Physiology & Biochemistry Laboratory, Water Technology Centre, Indian Agricultural Research Institute, New Delhi 110012; A1/153, Paschim Vihar, New Delhi 110063 [Tel (011) 2584-6790 (O), 2527-2157 (R), 98-990-17170 (M); Fax 2584-8703; Email renu_wtc@rediffmail.com, renu.chopra3@gmail.com]; Medal: INSA Young Scientist (1978); Council: Mem Oct 2009-11; SC: XII.

2012 : KHARE, Avinash (*b* 1954), PhD, Sp: Plasma Physics, Statistical Mechanics, Critical Phenomenon; FNASc, FASc, Homi Bhabha Fellow, Professor, Department of Physics and Astrophysics, University of Delhi, Delhi 110007; C-20 (29/31) University Apartments, Chhatra Marg, University of Delhi, Delhi 110007 [Tel (011) 2766-6624 (R), 97-183-28154 (M); Fax 2766-7061; Email ak0005@uah.edu, ojavinash@yahoo.co.in]; SC: XII.

1996 : KHARE, Avinash Vasant (*b* 1945), PhD, Sp: Theoretical Physics; FASc, INSA Senior Scientist, Department of Physics, Savitribai Phule Pune University, Pune 411007 [Tel (020) 2569-2678 Ext 333 (O), 97-653-96369 (M); Fax 2569-1684; Email khare@physics.unipune.ac.in]; Council: Mem 2002-04; SC: II.

1994 : KHEHRA, Amarjit Singh (*b* 1934), PhD, Sp: Plant Breeding & Quantitative Genetics; FNAAS, formerly VC, PAU, Ludhiana; 903, Phase 3B2, Sector 60, Mohali 160039, Punjab [Tel (0172) 465-1903 (R), 98-882-60002 (M); Email khehra.amarjit@yahoo.com]; SC: XII.

1981 : KHETRAPAL, Chunni Lal (*b* 1937), PhD, DLitt (*hc*), Sp: Chemical Physics, Spectroscopy & NMR; FNASc, Distinguished Professor and Vice Chairman, Centre of Biomedical Research (CBMR), Sanjay Gandhi Post Graduate Institute of Medical Sciences Campus, Raebareli Road, Lucknow 226014; formerly Director, CBMR; VC, Allahabad University; Distinguished Professor, SGPGIMS and Professor, IISc, Bengaluru; Type V/2 SGPGIMS Staff Quarters, Raebareli Road, Lucknow 226014 [Tel (0522) 266-8215, 249-5033 (O), 266-8288, 249-4402 (R); Fax 266-8215; Email elkhetrapal@hotmail.com; Web http://www.cbmr.res.in]; Lecture: Professor RK Asundi Memorial (1990); Council: Ad Mem 2011; SC: III.

2004 : KHURANA, Jitendra Paul (*b* 1954), PhD, Sp: Photobiology and Signal Transduction Mechanisms in Higher Plants, Plant Genomics; FASc, FNASc, FNAAS, FTWAS, Professor & Head Coordinator (UGC-SAP), Department of Plant Molecular Biology, University of Delhi, South Campus, New Delhi 110021; Type VB/4, Staff Qtrs, University of Delhi, South Campus, New Delhi 110021 [Tel (011) 2411-5126 (O), 2411-9090 (R), 98-113-51217 (M); Fax 2411-5270; Email khuranaj@genomeindia.org]; Lecture: Professor Panchanan Maheshwari Memorial (2008); Council: Mem 2012-13, VP 2014; SC: VII.
2011 : KHURANA, Paramjit (b 1956), PhD, Sp: Plant Biotechnology, Molecular Biology, Genomics; FASc, FNASc, FNAAS, JC Bose National Fellow, Professor, Department of Plant Molecular Biology, University of Delhi, South Campus, New Delhi 110021 [Tel (011) 2411-5096 (O), 2411-9090 (R), 97-110-06512 (M); Fax 2411-9430; Email param@genomeindia.org, paramjitkhurana@hotmail.com; Web http://www.south.du.ac.in/dpmb index.php?page=p-khurana]; Council: Ad Mem 2016; SC: VII.

1978 : KHUSH, Gurdev Singh (b 1935), PhD (Calif), Dsc (hc), Sp: Plant Breeding & Genetics; FASc, FNAAS, FTWAS, FRS, Foreign Assoc US NAS, 39399 Black Hawk Place, Davis California 95616, USA [Tel (530) 750-2440; Email gurdev@khush.org]; Medal: CV Raman (2007); SC: XII.

2016 : KIRTI, Pulugurtha Bharadwaja (b 1953), PhD, Sp: Plant Molecular Biology; FNASc, FNAAS, Professor, Department of Plant Sciences, University of Hyderabad, Hyderabad 500046; 5-562, Deepthisri Nagar, Madinaguda, Hyderabad 500046 [Tel (040) 2313-4545 (O), 2004-4664 (R); Fax 2301-0120; Email pbksl@uohyd.ernet.in]; SC: XII.

1991 : KOCHUPILLAI, Narayan Panicker (b 1939), MD, Sp: Endocrinology, Metabolism, Diabetes & Biotechnology; FASc, FAMS, Director, Endocrinology Metabolism & Diabetics, SRM Medical College, SRM University, Kattankulathur PO, Tamil Nadu 603203; Flat No. 401, ITPL Residence Complex, International Technology Park, Whitefield Road, Bengaluru 560066; Tel 98-183-09294, 95-358-56134 (M); Email narayanakochupillai@gmail.com; Medal: Shree Dhanwantari (2009); SC: XI.

2012 : KOHLI, Ravinder Kumar (b 1953), PhD, Sp: Physiological Ecology, Invasion Plant Ecology, Forestry; FASc, FNASC, FNAAS, JC Bose National Fellow, Vice Chancellor, Central University of Punjab, Bathinda 151001; D-13, Civil Station, Bathinda 151001 [Tel (0164) 243-0586 (O), 224-1550 (R), 98-722-01516 (M); Fax 286-4111; Email rkkohli45@yahoo.com, rkkohli45@gmail.com, vc@cup.ac.in; Web http://www.rkkohli.com, www.cup.ac.in]; SC: VII.

1994 : KOLASKAR, Ashok Sadanand (b 1950), PhD, DLitt (hc), DSc (hc), Sp: Molecular Biophysics, Bioinformatics; FNASc, Vice Chancellor, ‘The Neotia University’ (TNU), Vishwakarma, 86C, Topsia Road (S) Kolkata 700046; former Vice Chancellor, KIIT University, Bhubaneswar and University of Pune; formerly Advisor, National Knowledge Commission, New Delhi; Flat No. 11-1504, Upohar Luxury Gold, 2052 Chak Garia, Kolkata 700094 [Tel 70-440-96445 (M); Email akolaskar@yahoo.com, vc@tnu.in]; SC: X.

2015 : KONDAIAH, Paturu (b 1954), PhD, Sp: Cancer Biology and Biomarkers, Cancer Therapeutics, Gene Regulation by Steroid Hormones; Professor, Department of Molecular Reproduction, Development and Genetics, Indian Institute of Science, Bengaluru 560012; DQ14, New Housing Colony, Indian Institute of Science, Bengaluru 560012 [Tel (080) 2293-2688 (O), 2360-3531 (R), 94-484-89531 (M); Fax 2360-0999; Email paturu@mrdg.iisc.ernet.in]; SC: XI.
1966: KOTHARI, Laxman Singh (b 1926), PhD, Sp: Neutron Physics; formerly Professor & Head, Department of Physics & Astrophysics, University of Delhi, Delhi; F 21, Geetanjali Enclave, Malviya Nagar, New Delhi 110017 [Tel (011) 2669-1414 (R), 93-100-82692 (M); Email lskothari@hotmail.com]; Council: Ed Pub 1975-78, Treas 1989-92; SC: II.

1984: KRISHAN LAL (b 1941), PhD, DSc (hc), Sp: Physics of Materials; FNASc, Foreign Mem, Russian Academy of Science, Past-President, CODATA, Visiting Professor, CIC, University of Delhi, Delhi; formerly Director, CSIR-National Physical Laboratory, Dr KS Krishnan Marg, New Delhi 110012; C-116, Ground Floor, Inderpuri, New Delhi 110012 [Tel (011) 4560-8513, 4560-9104 (O), 2583-6490 (R); Fax 2572-6938, 4560-9310; Email klal@nplindia.org]; Lecture: DS Kothari Memorial (1996); Visiting Fellowship: JL Nehru Birth Centenary (2010); Council: Treas 1993-95, Ad Mem 2000, Pres 2011-13; SC: II.

2010: KRISHNA, Gopal (b 1948), PhD, Sp: Radio Astronomy (Radio Galaxies and Quasars); FASc, FNASc, Senior Professor, Scientist “I”, National Centre for Radio Astrophysics, Tata Institute of Fundamental Research, Pune University Campus, Pune 411007; E-1, NCRA-TIFR Colony, Pune University Campus, Pune 411007 [Tel (020) 2571-9240 (O), 2569-8773 (R), Fax 2571-2149; Email krishna@ncra.tifr.res.in]; SC: II.

2013: KRISHNA, Kolluru Sree (b 1958), PhD, Sp: Marine Geophysics, Lithospheric Dynamics, Tectonics, Plate Tectonics; FASc, FNASc, JC Bose National Fellow, Chief Scientist, CSIR-National Institute of Oceanography, Dona Paula, Goa 403004; H No 421-1, La Oceana-2, Behind Goa International Centre, Dona Paula, Goa 403004 [Tel (0832) 245-0384 (O), 245-2438 (R), 97-654-94935 (M); Fax 245-0602; Email krishna@nio.org, nio.krishna@gmail.com; Web www.nio.org/index<option=com_researcherdisplay/task/show/tid/2/sid/69/rid/855]; SC: IV.

1982: KRISHNA, Padmanabhan (b 1938), PhD, Sp: Crystallography, Crystal Growth, Education, Science & Society; FASc, Advisor, Rajghat Education Centre, Krishnamurthi Foundation India, Rajghat Fort, Varanasi 221001; formerly Professor of Physics, BHU, Varanasi; Study Centre, KFi, Rajghat Fort, Varanasi 221001 [Tel (0542) 244-0722 (O), 244-1356 (R), 94-152-23667 (M); Email pkrishna@pkrishna.org; Web http://www.pkrishna.org]; SC: IV.

2009: KRISHNAMOORTHY, Guruswamy (b 1950), PhD, Sp: Biophysical Laser Spectroscopy, Macromolecular Dynamics; FASc, FRSC; Honorary Professor, Department of Biotechnology, Anna University, Chennai 600025; formerly Senior Professor, Department of Chemical Sciences, TIFR, Mumbai; 213, 1st South Cross Street, Kapaleeshwarar Nagar, Neelankarai, Chennai 600115 [Tel 77-380-41952 (M); Email gk@tifr.res.in]; SC: X.

2008: KRISHNAMOORTHY, Krishnaswamy (b 1952), PhD, Sp: Atmospheric Aerosols, Radiative Forcing; FASc, FNASc, Dr Brahmakrapth Professor, ISRO Headquarters, Antariksh Bhavan, New BEL Road, Bengaluru 560031; ‘ROSHNI’ TC 25/927, # 202, ETRA, East Thampanoor, Thiruvananthapuram 695014 [Tel (080) 2351-2858 (D), (0471) 232-3542 (R), 94-960-50095, 99-455-30293 (M); Email kmoorthy@isro.gov.in, krishnamoorthyspl@gmail.com]; Medal: KR Ramanathan (2011); SC: IV.
1997 : KRISHNAMURTHY, Hulikal Ramaiengar (b 1951), PhD (Cornell), Sp: Theoretical Condensed Matter Physics, especially Quantum Many-Body Theory & Statistical Physics; FASc, FNASc, Professor, Department of Physics, Indian Institute of Science, Bengaluru 560012; 18, II Main Road, UAS Layout, Sanjayanagar, Bengaluru 560094 [Tel (080) 2293-3282, 2360-8658 (O), 2341-6627 (R); Fax 2360-2602, 2360-0683; Email hrkrish@physics.iisc.ernet.in]; Medal: INSA Young Scientist (1983); SC: II.

1990 : KRISHNAMURTHY, Setharampattu Seshaiyer (b 1940), PhD, Sp: Inorganic & Organometallic Chemistry; FASc, Retired Professor, Department of Inorganic & Physical Chemistry, Indian Institute of Science, Bengaluru 560012; 394, 6A Cross, JRD Tatanagar, Kogidehalli, Bengaluru 560092 [Tel (080) 2293-2401 (O), 2351-6293 (R); Email sskrish@ipc.iisc.ernet.in, sskrish60@yahoo.com]; Lecture: Professor S Swaminathan 60th Birthday Commemoration (2006); SC: III.

1986 : KRISHNAN, Rangachari (b 1935), PhD, Sp: Physical Metallurgy, Materials Science; FASc, FNASc, FNAE, formerly Director, Gas Turbine Research Establishment (DRDO); F-3, Parkside Manor, 162, 5th Main, Defence Colony, Bengaluru 560038 [Tel (080) 2526-8882 (R); Email rangachari.krishnan@gmail.com]; Medal: Professor Brahm Prakash Memorial (2001); SC: V.

1986 : KRISHNAN, Varadachari (b 1937), PhD, Sp: Inorganic and Bio-Inorganic Chemistry; FASc, FTWAS, Honorary Professor, Jawaharlal Nehru Centre for Advanced Scientific Research, Jakkur PO, Bengaluru 560064 and Co-ordinator, TWAS Regional Office for Central and South Asia at JNCASR, Hon Fellow, Chinese Chemical Society, IISc Distinguished Alumni (2011); formerly Professor, Department of Inorganic and Physical Chemistry, IISc, Bengaluru 560012; 121, I ‘A’ Main, AECS Layout 1st Stage, Sanjaynagar, Bengaluru 560094 [Tel (080) 2208-2749, 2362-2518 (O), 2293-2296, 2341-9380 (R); Fax 2208-2758, 2360-2468; Email vkrish@jncasr.ac.in, vkripc@ipc.iisc.ernet.in]; Medal: Golden Jubilee Commemoration (Chem Sc) (1998); Council: VP 2000-02; SC: III.

1998 : KRISHNASWAMY, Kamala (b 1940), MD, Sp: Internal Medicine; FASc, FNASC, FNAAS, FTWAS, FAMS, Senior Honorary Advisor, Madras Diabetic Research Foundation; formerly Director & Emeritus Medical Scientist (ICMR), National Institute of Nutrition, Jamai-Osmania PO, Hyderabad; H No. 1-2-98/2, Sriniketan, Kakateeya Nagar Colony, Habsiguda, Hyderabad 500007 [Tel (040) 2715-3248 (R); Fax 2701-9074; Email sri21kk@hotmail.com, sri21kk@yahoo.com]; Lecture: BC Guha Memorial (1999); SC: XI.

2012 : KRUPANIDHI, Saluru Baba (b 1951), PhD, Sp: Physics of Materials, Epitaxial Multi-Component Oxides, Compound Semiconductors, Superlattices, Functional Devices & Applications; FASc, Professor, Materials Research Centre, Indian Institute of Science, Bengaluru 560012; 164, 2nd Cross, Central Excise Layout, Bhoopasandra, Bengaluru 560094 [Tel (080) 2360-1330, 2293-2601 (O); Fax 2360-7316; Email sbk@mrc.iisc.ernet.in, sbkenator@gmail.com]; SC: M.
1991 : KULKARNI, Bhaskar Dattatraya (b 1949), PhD, Sp: Chemical Engineering; FASc, FNAE, FTWAS, Distinguished Scientist (Engg Sc), CSIR-National Chemical Laboratory, Pashan Road, Pune 411008; Saptashrungi Bungalow, Plot No. 11+12, Vidynannagar, Bawdhan, Pune 411021 [Tel (020) 2590-2770, 2590-2772 (O), 98-817-29726 (M); Fax 2590-2612; Email bd.kulkarni@ncl.res.in]; Medal: INSA Young Scientist (1981); SC: V.

2011 : KULKARNI, Sulabha Kashinath (b 1949), PhD, Sp: Nanotechnology, Materials Science, Surface Science; FASc, FNASc, UGC Scientist C, Indian Institute of Science Education & Research, Pune, Sai Trinity Building, Pune 411021 [Tel (020) 2590-8032 (O), 2544-1158 (R), 88-884-25978 (M) Fax 2589-9790, Email s.kulkarni@iiserpune.ac.in, skk_surface@yahoo.com]; SC: II.

1989 : KUMAR, Anil (b 1941), PhD, Sp: Nuclear Magnetic Resonance Spectroscopy & Applications to Biomolecules and Quantum Computing; FASc, FNASc, FTWAS, NASI-Senior Scientist Platinum Jubilee Fellow, Department of Physics and NMR Research Centre, Indian Institute of Science, Bengaluru 560012; D-201, Sterling Gardens, Hebbal, Kempapura, Bengaluru 560024 [Tel (080) 2293-2724 (O), 2366-2757 (R), 98-454-21938 (M); Fax 2360-2602, 2360-1550; Email anilnmr@physics.iisc.ernet.in]; Lecture: Professor KR Rao Memorial (1996); Council: Mem 2013-15; SC: X.

2009 : KUMAR, Anil (b 1955), PhD, Sp: Physical Chemistry, Thermodynamics, Physical–Organic Chemistry, FASc, FNASc, Scientist, Physical Chemistry Division, CSIR-National Chemical Laboratory, Pune 411008; Bungalow B-6, NCL Colony, Homi Bhabha Road, Pune 411008 [Tel (020) 2590-2278 (O), 2590-2001, 2590-2416, 2588-8712 (R), 98-220-74509, 75-070-53053 (M); Fax 2590-2636; Email a.kumar@ncl.res.in]; SC: III.

2006 : KUMAR, Anurag (b 1955), PhD, Sp: Communication Networks: Stochastic Modelling, Analysis, Optimisation and Control Problems Arising in Communication Networks (Wireline and Wireless) and Distributed Systems; Professor, Department of Electrical Communication Engg., Indian Institute of Science, Bengaluru 560012 [Tel (080) 2360-0855 (O), 2341-5032 (R); Fax 2360-0991; Email anurag@ece.iisc.ernet.in; Web http://www.ece.iisc.ernet.in]; SC: V.

1988 : KUMAR, Har Darshan (b 1934), PhD (Lond), Sp: Algology, Ecology & Microbial Biotechnology; FASc, FNASc, formerly Emeritus Scientist (CSIR) and Professor, CAS in Botany and Dean, Faculty of Science, BHU, Varanasi; B 32/32, HK 214, Saketnagar Colony, Naria, Varanasi 221005 [Tel (0542) 231-5180 (R); Email hdk71@yahoo.co.in, hdkumar@rediffmail.com]; Council: Mem 1997-99; SC: VII.
1987 : KUMAR, Narendra (b 1940), MTech, PhD, Sp: Disordered Systems, Localization & Superconductivity; FASc, FNASc, FTWAS, FInst P, Emeritus Professor, Raman Research Institute, CV Raman Avenue, Bengaluru 560080; formerly Professor, IISc, Bengaluru; 305, II Block, III Cross, RMV Extension, II Stage, Bengaluru 560094 [Tel (080) 2361-1016 (O), 2341-0549 (R), 94-484-95421 (M); Fax 2361-0492; Email nkumar@rri.res.in; Web http://www.rri.res.in]; Medal: Meghnad Saha (2000); Lecture: JL Nehru Birth Centenary (1996), Sir JC Bose Memorial (2008); SC: II.

2015 : KUMAR, Pradeep (b 1957), PhD, Sp: Synthetic Organic Chemistry; FNASc, Scientist G (Chief Scientist), Head, Division of Organic Chemistry, CSIR-National Chemical Laboratory, Pune 411008; Mont Vert-1, B-17, Pashan Sus Road, Pune 411021 [Tel (020) 2590-2760/2050 (O), 2587-1375 (R), 94-210-78425 (M); Fax 2590-2629; Email pk.tripathi@ncl.res.in]; SC: III.

1985 : KUMAR, Rajinder (b 1934), PhD, Sp: Multiphase Phenomena; FASc, Retired Professor, Department of Chemical Engg, Indian Institute of Science, Bengaluru 560012; 47/1, 7th Cross, 5th Main, Malleswaram, Bengaluru 560003 [Tel (080) 2293-2320 (O), 2334-6394 (R); Fax 2360-8121, 2360-0683; Email kumar@chemeng.iisc.ernet.in]; Medal: SH Zaheer (1989), SS Bhatnagar (1997); Visiting Fellowship: JL Nehru Birth Centenary (1995); Council: Mem 1990, VP 1991-92; SC: V.

1995 : KUMAR, Sushil (b 1940), PhD, Sp: Plant and Microbial Genetics/Genomics, Biodiversity and Biosafety, Industrial and Food Crops Biotechnology; FASc, FNASc, FNAAS, INSA Honorary Scientist, SKA Institution for Research, Education and Development; Professor, Molecular Biology and Agricultural Biotechnology, IARI, New Delhi; formerly Director, CIMAP and NBRI, Lucknow and Head of CSIR’s Human Resource Development Group; 4/11 Sarv Priya Vihar, New Delhi 110016 [Tel (011) 2686-5494 (R), 98-107-23891 (M); Email sushil2000_01@yahoo.co.in]; Medal: Professor SB Saksena Memorial (2002); SC: X.

2010 : KUMARA SWAMY, KC (b 1957), PhD, Sp: Chemistry Inorganic/Organic; FASc, Professor, School of Chemistry, University of Hyderabad, Hyderabad 500046; 155, Doyens Township, Serilingampally, Hyderabad 500019, Telangana [Tel (040) 2313-4856 (O), 98-497-24004 (M); Email kckssc@uohyd. ac.in, kckssc@yahoo.com; Web http://www.chemistry.uohyd.ernet.in/~kcks/]; SC: III.

2002 : KUMARAN, Viswanathan (b 1966), PhD, Sp: Chemical Engineering; Professor, Department of Chemical Engineering, Indian Institute of Science, Bengaluru 560012; NE-120, IISc, Bengaluru [Tel (080) 2293-3112 (O), 2360-1034 (R); Fax 2360-8121; Email kumaran@chemeng.iisc.ernet.in]; Medal: INSA Young Scientist (1996); SC: V.
2014 : KUNDU, Anjan \( (b \ 1953)\), PhD, Sp: Theoretical & Mathematical Physics: Nonlinear Classical and Quantum Integrable Systems; INSA Senior Scientist, Senior Professor H+, *Theory Division, Saha Institute of Nuclear Physics, 1/ AF Bidhannagar, Salt Lake, Kolkata 700064*; CA-111, Bidhannagar, Salt Lake, Kolkata 700064 [Tel (033) 2337-5345-49 Ext 3305 (O), 2358-1522 (R), 94-330-21522 (M); Fax 2337-4637; Email anjan.kundu@saha.ac.in; Web http://www.saha.ac.in/theory/anjan.kundu/]; SC: II.

2010 : KUNDU, Tapas Kumar \( (b \ 1962)\), PhD, Sp: Regulation of Gene Expression (Transcription) in Humans with Special Emphasis on Disease and Therapeutics and Related Chemical Biology; FASc, FNASc, Professor, *Transcription and Disease Laboratory, Molecular Biology and Genetics Unit, jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Jakkur PO, Bengaluru 560064*; MV Royal Homes, Flat No A201, 273/1/3, Srirampura, Jakkur PO Yelahanka Hobli, Bengaluru 560064 [Tel (080) 2208-2840 (O), 2362-2773 (R), 94-494-56334 (M); Fax 2208-2766; Email tapas@jncasr.ac.in]; Lecture: Dr Nitya Anand Endowment (2015); SC: X.

2005 : LAHIRI MAJUMDER, Arunendra Nath \( (b \ 1946)\), PhD, DSc, Sp: Plant Biochemistry & Molecular Biology; FASc, FNASc, FNAAS, DAE Raja Ramanna Fellow, formerly Senior Professor & Head, *Division of Plant Biology and Achraya JC Bose Biotechnology Innovation Centre, Bose Institute (Centenary Building), P-1/12, CIT Scheme, VII M, Kolkata 700054*; 5B2, FJORD Tower, Hiland Park, Kolkata 700094 [Tel (033) 2569-3232 (O), 2436-7219 (R), 94-330-27050 (M); Fax 2355-3886; Email lahiri@mail.jcbose.ac.in, lahiri@jcbose.ac.in, alahirimajumder@yahoo.com]; Medal: Professor SB Saksena Memorial (2008); SC: VII.

2003 : LAKHINA, Gurbax Singh \( (b \ 1943)\), PhD, Sp: Geomagnetism and Atmospheric Sciences; FNASc, NASI-Senior Scientist Platinum Jubilee Fellow, INSA Senior Scientist, Emeritus Professor (CSIR), formerly Director, *Indian Institute of Geomagnetism, Plot No 5, Sector 18, Kalamboli Highway, New Panvel, Navi Mumbai 410218*; Neel Sidhi Towers, B-701, Plot No. 195, Sector 12,Vashi, Navi Mumbai 400706 [Tel (022) 2748-4127 (O), 6512-1031 (R), 98-204-22678 (M); Fax 2748-0762; Email lakhina@iigs.iigm.res.in, gslakhina@gmail.com]; Medal: KR Ramanathan (2005); SC: IV.

1993 : LAKHOTIA, Subhash Chandra \( (b \ 1945)\), PhD, Sp: Cytogenetics, Molecular Genetics & Cell Biology, Ayurvedic Biology; FASc, FNASc, Professor Emeritus (BHU) and DAE Raja Ramanna Fellow, *Cytogenetics Laboratory, Department of Zoology, Banaras Hindu University, Varanasi 221005*; P3/4, Ravindra Puri, Lane No 13, Varanasi 221005 [Tel (0542) 236-8145, 670-1827 (Lab), 231-2012 (R), 94-530-48657 (M); Fax 236-8457; Email lakhotia@bhu.ac.in, sclakhotia@yahoo.co.in]; Medal: INSA Young Scientist (1975), SL Hora (2002); Council: Mem 2004-05, VP 2006, 2015-; Editor-in-Chief, *Proceedings of the Indian National Science Academy*; SC: VIII.
1992 : **LAKSHMANAN, Muthusamy** (b 1946), PhD, DSc (hc), Sp: Nonlinear Dynamics & Theoretical Physics; FASc, FNASc, FTWAS, Professor of Eminence & DST Ramanna Fellow, DAE Raja Ramanna Fellow, Centre for Nonlinear Dynamics, Bharathidasan University, Tiruchirapalli 620024; 654, Periyar Salai, KK Nagar, Tiruchirapalli 620021 [Tel (0431) 240-7093, 240-7057 (O), 245-9386 (R); Fax 240-7093; Email lakshman@cnld.bdu.ac.in, lakshman.cnld@gmail.com; Web http://www.physicscnld.com]; Lecture: Dr Biren Roy Memorial (1998), Professor VV Narlikar Memorial (2006); Council: Mem 2005-07; SC: II.

2014 : **LAKSHMI KANTAM, Mannepalli** (b 1955), PhD, Sp: Catalysis, Materials and Process Chemistry; FNASC, Professor, Department of Chemical Sciences, Tezpur University (A Central University), Tezpur 784028, Assam; 501-Palms, 2-2-20/B/8, D.D. Colony, Baghamberpeta, Hyderabad 500013 [Tel (03712) 275-071 (O), 273-736 (R), 99-544-49462, 94-408-02790 (M); Email mlk@tezu.ernet.in, lkmannepalli3@gmail.com]; SC: III.

2013 : **LAL, Rup** (b 1953), PhD, Sp: Microbial Diversity, Genomics and Metagenomics; FNASC, FNASc, FNAAS, Professor, Molecular Biology Laboratory, Department of Zoology, University of Delhi, Delhi 110007; 38/3, Probyn Road, University of Delhi, Delhi 110007 [Telefax (011) 2766-6254 (O), 98-107-85766 (M); Email rупlal@gmail.com; Web http://people.du.ac.in/~rlal/]; SC: XII.

2012 : **LAVANIA, Umesh Chandra** (b 1952), PhD, DSc, Sp: Cytogenetics and Plant Breeding, Molecular Cytogenetics, Molecular Systematics and Chromosome Evolution, Medicinal and Aromatic Plants, Ecotechnology; FNASC, CSIR Emeritus Scientist, Department of Botany, Lucknow University, Lucknow 226007; AcSIR Emeritus Professor, CIMAP; formerly Chief Scientist & Head, Division of Genetics & Plant Breeding, CSIR-CIMAP, Lucknow; 4/221, Vivek Khand, Gomti Nagar, Lucknow 226010 [Tel (0522) 239-2162 (R), 94-155-16561 (M); Email lavaniauc@yahoo.co.in]; Medal: INSA Young Scientist (1984); SC: VII.

1994 : **LAWANDE, Suresh Vencatesh** (b 1938), PhD, Sp: Theoretical & Mathematical Physics; CSIR Emeritus Scientist, formerly Head, Theoretical Physics Division, BARC, Mumbai; Dipti Sapphire, 302, B Wing, Natwar Nagar Road 2 & 3, Jogeshwari (East), Mumbai 400060 [Tel (022) 2839-4847 (R); Email shanti.lawande@gmail.com]; SC: II.

1987 : **LELE, Shrikant** (b 1943), PhD, Sp: Physical Metallurgy & Materials Science; FASc, FNASC, FNAE, 377, Mahatma Housing Society, Kothrud, Pune 411038 [Tel (020) 2536-0906 (R), 97-664-33322 (M); Email drslele@gmail.com]; Medal: Professor Brahm Prakash Memorial (2010); Council: Mem May-Dec 1992, 1999-01; SC: V.

1977 : **LUTHRA, Usha Kehar** (b 1932), MD (Path & Bac), PhD (Path), Sp: Pathology, Cytopathology, Cancer Research, Medical Research; FRCPath (Lond), FAMS, formerly Additional DG and Director, Institute of Cytology and Preventive Oncology, ICMR; J-202, Som Vihar, Maj. Som Nath Marg, RK Puram, New Delhi 110022 [Tel (011) 2671-6748; Email ukluthra@hotmail.com]; SC: XI.
2004 : MADAN, Mohan (b 1953), PhD, Sp: Agricultural Biotechnology; FNAAS, Professor, Department of Plant Molecular Biology, University of Delhi, South Campus, Benito Juarez Marg, New Delhi 110021; Sector B, Pocket 10, Flat No 7055, Vasant Kunj, New Delhi 110070 [Tel 98-110-54232 (M); Email mohanm98@hotmail.com]; SC: XII.

2011 : MADHUBALA, Rentala (b 1952), PhD, Sp: Molecular Parasitology, Functional Genomics; FASc, FNASc, Professor, School of Life Sciences, Jawaharlal Nehru University, New Delhi 110067; House No A15/28, Vasant Vihar, New Delhi 110057 [Tel 2674-2630, 2616-7676 Ext 4521 (O); Fax 2674-2630; Email madhubala@mail.jnu.ac.in; rentala@hotmail.com]; SC: XI.

2000 : MADHUSUDANA, Nelamangala Vedavyasachar (b 1944), PhD, Sp: Liquid Crystals; FASc, Emeritus Scientist, Professor, Liquid Crystal Lab, Raman Research Institute, CV Raman Avenue, Sadashivanagar, Bengaluru 560080; No.45, Kuber Housing Society Ext, RBI Colony, Hebbal Agricultural Farm, Bengaluru 560024 [Tel (080) 2361-1015 (O), 2333-3407 (R); Fax 2361-0492; Email nvmadhu@rri.res.in; Web http://www.rri.res.in]; SC: II.

2014 : MADRAS, Giridhar (b 1967), PhD, Sp: Chemical Engineering; FASc, FNAE, Professor, Department of Chemical Engineering, Indian Institute of Science, Bengaluru 560012; NE-106, Indian Institute of Science, Bengaluru 560012 [Tel (080) 2293-2321 (O), 2360-7880 (R), 93-425-19580 (M); Fax 2293-2321; Email giridhar@chemeng.iisc.ernet.in, giridharmadras@gmail.com]; SC: V.

1993 : MAHAJAN, Kushal Kumar (b 1939), PhD, Sp: Radio, Atmospheric and Space Sciences; FASc, INSA Honorary Scientist, formerly Head, Radio and Atmospheric Sciences Division, CSIR-National Physical Laboratory, Dr KS Krishnan Marg, New Delhi 110012; C1/121, Janak Puri, New Delhi 110058 [Tel (011) 4560-8243 (O), 2553-6334 (R), 98-100-92120 (M); Fax 4560-9310; Email kkmahajan@mail.nplindia.org, kkmahajan@yahoo.com]; SC: IV.

1995 : MAHAJAN, Ramesh Chander (b 1938), MD, Sp: Parasitology, Immunology & Microbiology; FNASc, FTWAS, FAMS, Emeritus Professor & Honorary Adviser ECD, ICMR (formerly Senior Professor & Head, Department of Parasitology and Chairman, Microbiology), Department of Parasitology, Post-Graduate Institute of Medical Education and Research, Chandigarh, 160012; 276, Sector 6, Panchkula 134109, Haryana [Tel (0172) 274-7585-602 Ext 5169 (O), 256-5628, 257-8730 (R); Fax 274-4401, 274-5078; Email medinst@pgi.chd.nic.in, indurc43@gmail.com]; Professorship: INSA-SN Bose Research Professor (2004-09); Lecture: Professor SN De Memorial (2002); Council: Sec 1999, VP 2000-01; SC: XI.

2015 : MAHALE, Smita Dilip (b 1957), PhD, Sp: Reproductive Physiology; FNAsc, Scientist G and Director, National Institute for Research in Reproductive Health, Jehangir Merwanji Street, Parel, Mumbai 400012; A-503, Devdeveshwar C.H.S, Telly Galli Cross Lane, Andheri (East), Mumbai 400069 [Tel (022) 2419-2002 (O), 2684-2105 (R), 99-203-91165 (M); Fax 2413-9412; Email smitamahale@hotmail.com]; SC: VIII.
1995 : MAHARANA, Jnanadeva (b 1945), PhD, Sp: String Theory & Quantum Gravity; FASc, Professor, Institute of Physics, Bhubaneswar 751005 [Tel (0674) 230-1825 (O), 230-3444 (R); Fax 230-0142; Email maharana@iopb.res.in]; Medal: SN Bose (2015); SC: II.

1978 : MAHESHWARI, Satish Chandra (b 1933), PhD, Sp: Botany & Plant Molecular Biology; FASc, FNASC, INSA Honorary Scientist, School of Life Sciences, Jaipur National University, Jaipur 302025; formerly Professor & Head, Departments of Botany & Plant Molecular Biology, University of Delhi, Delhi [Tel 77-425-77710 (M); Email maheshwarisc@hotmail.com]; SC: VII.

2016 : MAITI, Kalobaran (b 1967), PhD, Sp: Condensed Matter Physics; FASc, FNASC, Professor H, Department of Condensed Matter Physics and Materials Science, Tata Institute of Fundamental Research, Homi Bhabha Road, Colaba, Mumbai 400005; 703 Meghnad, TIFR Housing Complex, Hombi Bhabha Road, Colaba, Mumbai 400005 [Tel (022) 2278-2748 (O), 2280-4919 (R), 99-691-85189 (M); Fax 2280-4610; Email kbmaiti@tifr.res.in, kbmaiti@gmail.com]; SC: II.

2009 : MAITRA, Uday (b 1957), PhD, Sp: Organic Chemistry, Supramolecular Chemistry, Chemistry of Bile Acids, Organo and Hydrogels; FASc, Professor, Department of Chemistry, Indian Institute of Science, Bengaluru 560012; NE-201, New Housing Colony, Indian Institute of Science, Bengaluru 560012 [Tel (080) 2360-1968, 2293-2960; Fax 2360-0529; Email maitra@orgchem.iisc.ernet.in; Web http://orgchem.iisc.ernet.in/faculty/um]; SC: III.

2010 : MAJUMDAR, Subeer S (b 1961), PhD, Sp: Transgenic Animals and Endocrinology, Animal Biotechnology; In-charge, Primate Research Centre, Embryo Biotechnology, Cellular Endocrinology, National Institute of Immunology, New Delhi 110067; A-5, National Institute of Immunology, Aruna Asaf Ali Marg, New Delhi 110067 [Tel (011) 2670-3751 (O), 98-181-70750 (M); Fax 2674-2125; Email subeer@nii.ac.in]; SC: VIII.

2004 : MAJUMDER, Hemanta Kumar (b 1950), PhD, Sp: Molecular Parasitology, Molecular Biology, Biochemistry; FASc, FNASC, FTWAS, DAE Raja Ramanna Fellow, JC Bose National Fellow, CSIR-Indian Institute of Chemical Biology, 4, Raja SC Mullick Road, Jadavpur, Kolkata 700032 and former Working Chairman, WB State Council of S&T, Govt. of West Bengal, Kolkata; Diagantika Samabaya Abasani, Flat F/11, Block AH, Sector II, Salt Lake City, Kolkata 700091 [Tel (033) 2412-3207 (O), 2359-1532 (R); Fax 2473-5197; Email hkmajumder@iicb.res.in, hemantamajumder@yahoo.co.in]; Lecture: Dr Nitya Anand Endowment (2012); SC: VIII.

2001 : MAJUMDER, Partha Pratim (b 1952), PhD, Sp: Human Genetics, Genetic Epidemiology Biostatistics; FASc, FNASC, Director, National Institute of Biomedical Genomics, Netaji Subhas Sanatorium, 2nd Floor, Kalyani 741251; P-53, Arunachal (East), Sodpur, North 24-Parganas, West Bengal 743178 [Tel (033) 2589-2151 (O), 2565-4314 (R); Fax 2589-2150; Email ppm1@nibmg.ac.in; Web http://www.nibmg.ac.in]; Council: Mem 2006-08; SC: M.
2013 : **MALHOTRA, Bansi Dhar** (*b* 1950), PhD, Sp: Advanced Soft Electronic Materials including Nano-Materials, Self-Assembled Monolayers, Langmuir-Blodgett Films, Conducting Polymers, Sensors and Biomolecular Electronics; FNASc, Professor, Department of Biotechnology, Delhi Technological University, Main Bawana Road, Delhi 110042; Flat 4-C, Pocket GG-2, Durgiana Apartments, Vikas Puri, New Delhi 110018 [Tel (011) 2729-4668 (Lab), 4288-0619 (R), 99-683-75812 (M); Fax 2787-1023; Email bansi.malhotra@gmail.com, bansi.malhotra@dce.ac.in]; SC: VI.

1993: **MALHOTRA, Kailash Chandra** (*b* 1938), PhD, Sp: Human Ecology; FASc, Retd Professor of Human Ecology, ISI, Kolkata; 385, Sector 29, Noida 201301 [Tel 98-712-53459 (M); Email kcmalhotra2001@yahoo.co.in]; SC: XI.

1985 : **MALIK, Chander Parkash** (*b* 1935), PhD, PhD, Sp: Cytogenetics, Molecular Plant Physiology and Environmental Science, Biotechnology, Nanotechnology; FNASc, FNAAS, formerly Advisor (Academics), Jaipur National University, Jaipur; formerly Dean, CBSSH PAU, Ludhiana; Professor, Guru Jambheshwar Tech Univ, Hisar; Director, Seedling Academy of Design Technology and Management, Jaipur; E-46, Sector-41, Noida 201301 [Tel (0120) 432-4265 (R), 99-990-41434 (M); Email cpm_malik@yahoo.com, cpmalik26@gmail.com]; SC: VII.

1995 : **MALIK, Satish Kumar** (*b* 1943), PhD, Sp: Magnetism, Valence Fluctuation & Superconductivity; FASc, Visiting Professor, ICCMP, University of Brasilia, Brazil [Email skm@tifr.res.in]; SC: II.

2005 : **MALLICK, Birendra Nath** (*b* 1956), PhD, Sp: Physiology, Neurobiology/Neurophysiology of Sleep-Wakefulness; FASc, FNASc, Professor of Neurobiology, School of Life Sciences, Jawaharlal Nehru University, New Delhi 110067; 17, Dakshinapuram, JNU Campus, New Delhi 110067 [Tel (011) 2670-4522 (O), 2674-1370 (R), 98-106-60572 (M); Fax 2674-1586, 2674-2558; Email remsbm@yahoo.com; Web http://www.jnu.ac.in/faculty/bnmallick]; SC: VIII.

2015 : **MALLICK, Nirupama** (*b* 1964), PhD, Sp: Algal Biotechnology; Professor, Department of Agricultural & Food Engineering, Indian Institute of Technology Kharagpur, Kharagpur 721302; B-219, IIT Campus, Indian Institute of Technology Kharagpur, Kharagpur 721302 [Tel (03222) 283-166 (O), 283-167 (R), 94-340-41662 (M); Fax 282-244; Email nm@agfe.iitkgp.ernet.in]; SC: XII.

2001 : **MALIK, Asok Kumar** (*b* 1947), PhD, Sp: Vibration Engineering, Kinematics; FASc, FNASc, FNAE, Honorary Distinguished Professor, IIEST, Shibpur, Howrah 711103; formerly Professor, IIT Kanpur; P31 CIT Road, Scheme VI (MS), Kolkata 700034 [Tel (033) 2364-8833 (R); Email akmallik@iitk.ac.in, asokiitk@gmail.com]; Award: INSA Teachers Award (2014); SC: V.
2011: MALLIK, Ranjan Kumar (b 1964), PhD, Sp: Electrical Engineering (Communications); FASc, FNASc, FTWAS, FIEEE, FNAE, Professor, Department of Electrical Engineering, Indian Institute of Technology, Hauz Khas, New Delhi 110016; 23, North Avenue, IIT Delhi, Hauz Khas, New Delhi 110016 [Tel (011) 2659-1049 (O), 2659-1572 (R); Fax 2658-1606; Email rkmallik@ee.iitd.ernet.in, ranjankmallik@yahoo.co.in]; SC: V.

2010: MANDAL, Chitra (b 1951), PhD, Sp: Cancer Biology, Glycobiology, Immunology; FASc, FNASc, FTWAS, FAMS, Acting Director, Scientist H, Head, CSIR-Innovation Complex, Kolkata, CSIR-Indian Institute of Chemical Biology, 4, Raja SC Mullick Road, Jadavpur, Kolkata 700032; B-131 Survey Park, Kolkata 700075 [Tel (033) 2429-8861, 2499-5717 (O), 2416-6609 (R), 98-310-36964 (M); Fax 2473-5197; Email cmandal@iicb.res.in, chitra_mandal@yahoo.com; Web http://www.iicb.res.in]; Medal: Professor BS Trivedi Memorial (2014); Lecture: Dr Y SubbaRow Memorial (2011); SC: XI.

2010: MANDAL, Nibir (b 1963), PhD, Sp: Structural Geology and Tectonics; FASc, Professor, Department of Geological Sciences, Jadavpur University, Kolkata 700032; Flat-12, Vanilla Housing Co-operative Society, 31/G-BP Township, Block-H, Kolkata 700094 [Tel (033) 2414-6666 Ext 2364 (O), 2462-6528 (R); Email nibirmandal@yahoo.co.in]; Medal: INSA Young Scientist (1992); Council: Mem 2015–; SC: IV.

1994: MANDAL, Nitai Chandra (b 1938), PhD, Sp: Molecular Biology; FASc, FNASc, formerly Guest Scientist, IISER, Kolkata; Emeritus Scientist (CSIR) and Professor, Department of Biochemistry, Bose Institute, Kolkata; E-5, Digantika, AH-Block, Sector-II, Salt Lake, Kolkata 700091 [Tel (033) 2359-1356 (R); Email mandalnc2003@yahoo.com]; SC: X.

2010: MANDE, Shekhar Chintamani (b 1962), PhD, Sp: Biophysics; FASc, FNASc, Director, National Centre for Cell Science, NCCS Complex, Ganesbhind, Pune 411007; Staff Scientist-VI, Bldg 7, Gruhaloka, 5-4-399/B Nampally, Hyderabad 500001; 133, Magadh Village, PO CBIT, Hyderabad 500075 [Tel (020) 2569-1065, 2570-8000 (O); Fax 2569-7756; Email director@nccs.res.in; Web http://www.cdfd.org.in]; SC: X.

2011: MANNA, Indranil (b 1961) PhD, Sp: Materials Engineering, Phase Transformation, Surface Engineering, Nanofluid; FTWAS, Director, Indian Institute of Technology, Kanpur 208016, formerly Director, CSIR-CGCRI, Kolkata [Tel (0512) 259-7258, 259-0768 (O), 259-8810, 259-8820 (R); Fax 259-0260, 259-7790; Email director@iitk.ac.in, imanna@iitk.ac.in]; Council: Ad Mem 2016; SC: V.

1985: MANOHARAN, Periararuppan Thangiah (b 1935), PhD, Sp: Physical Inorganic Chemistry, Nanoscience & Spectroscopy; FASc, FTWAS, INSA Honorary Scientist, Department of Chemistry, Indian Institute of Technology Madras, Chennai 600036; “Srismanda”, 36 First Avenue, Sastri Nagar, Chennai 600020 [Tel (044) 2257-4931, 2257-4200 (O), 2446-2374 (R); Fax 2257-0545; Email ptm@iitm.ac.in]; Lecture: Professor KR Rao Memorial (1987); Professor Sadhan Basu Memorial (1996); Council: Sec 1997–99; SC: III.
2005 : MARIMUTHU, Ganapathy (b 1954), PhD, DSc, Sp: Animal Behaviour and Chronobiology; FASc, FNASc, INSA Senior Scientist, Professor, Department of Animal Behaviour and Physiology, School of Biological Sciences, Madurai Kamaraj University, Madurai 625021; 2/201, Rajambadi, Palkalai Nagar, Madurai 625021 [Tel (0452) 245-9116 (O), 97-916-96463 (M); Fax 245-9181; Email emailboxgm@gmail.com, mail_box_gm@rediffmail.com; Medal: Chandrakala Hora Memorial (2010); Council: Mem 2010-12; SC: VIII.

1984 : MASHELKAR, Raghunath Anant (b 1943), PhD, DSc (hc), Sp: Polymer Science and Engineering; FASc, FNASc, FNAE, FTWAS, FRS, Foreign Assoc US NAS, Foreign Mem Royal Acad Engg, National Research Professor and President, Global Research Alliance, CSIR-National Chemical Laboratory, Pashan Road, Pune 411008, formerly Secretary, DSIR & DG, CSIR, New Delhi; “Raghunath”, D-4, Varsha Park, Baner, Pune 411045 [Tel (020) 2590-2605 (O), 2729-1268 (R); Fax 2590-2607; Email ram@ncl.res.in]; Medal: Vishwakarma (1988), SS Bhatnagar (2001); Lecture: JL Nehru Birth Centenary (1995), Etienne Wolf-Ramanujan (2007); Council: Mem 1986-88; Pres 2005-07; SC: V.

1999 : MATHAN, Minnie Mariam (b 1937) MD, PhD, Sp: Pathology, Electron Microscopy; FAMS, FICP, FRCPath, Consultant Pathologist, formerly Professor of Pathology and Head, Department of Gastrointestinal Sciences, CMC Hospital, Vellore; Flat 4 Shanthi, 15 Second Avenue, Harrington Road, Chetpet, Chennai 600031 [Tel (044) 4206-8200 (O), 2836-2473 (R), 98-402-41611 (M); Email minniemathan@gmail.com; INSA Senior Scientist (2005-10)]; SC: XI.

1990 : MATHAN, Vadakenadayil Ittyerah (b 1937), MD, PhD, FRCP, Sp: Gastroenterology and Epidemiology; FNASc, FAMS, Honorary Advisor, National Institute of Epidemiology, ICMR, Chennai; formerly Professor of Medicine & Gastroenterology; Head, ICMR Centre of Advanced Research on Enteric Diseases and Director, CMC Hospital, Vellore; Flat 4 Shanthi, 15 Second Avenue, Harrington Road, Chetpet, Chennai 600031 [Tel (044) 4206-8200 (O), 2836-2473 (R), 98-400-38637 (M); Email vimathan19@gmail.com]; Lecture: Dr TS Tirumurti Memorial (1997); SC: XI.

1983 : MATHEWS, Piravonu Mathews (b 1932), PhD, Sp: Geodynamics, Relativistic fields and Stochastic Processes; FASc, formerly Senior Professor, Department of Theoretical Physics, Madras University, Guindy Campus, Chennai 600025; 22 (Old 20) Lady Madhavan Road, Nungambakkam, Chennai 600034 [Tel (044) 2220-2830 (O), 2817-2098 (R); Email indi4272@yahoo.com]; INSA Senior Scientist (1997-01); SC: II.

1990 : MATHUR, Asha (b 1938), DCP, MD, Sp: Medical Microbiology, Virology, Immunology; FASc, FNASc, FAMS, FTWAS, FRC (Path), Emeritus Medical Scientist, Professor & Head, Department of Pathology & Microbiology, Saraswati Medical & Dental College, 233 Tiwari Ganj, Faizabad Road, Lucknow 227105; formerly Professor & Head, Department of Microbiology, KG Medical College, Lucknow; 103, Shalimar Estate, Birbal Sabni Marg, Lucknow 226007 [Tel (0522) 281-5044 Ext 236 (O), 278-0325 (R); Email asha.mathur@gmail.com]; SC: XI.
1999 : MATHUR, Deepak (b 1952), PhD, Sp: Atomic and Molecular Physics, Biological Physics; FASc, FTWAS, Distinguished Professor, Atomic and Molecular Sciences, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400005; 5-B, Zerlina, Little Gibbs Road, Malabar Hill, Mumbai 400006 [Tel (022) 2278-2736 (O), 2362-6287 (R); Fax 2280-4611; Email atmoll1@tifr.res.in, atmoll1@gmail.com; Web http://www.tifr.res.in/~atmol1]; Council: Mem 2014--; SC: II.

2004 : MAYOR, Satyajit (b 1963), PhD, Sp: Cell Biology; Foreign Assoc US NAS, Professor, Cellular Organization and Signalling Group, Director, National Centre for Biological Sciences (NCBS), GKVK Campus, Bellary Road, Bengaluru 560065; No. 201, Serena, 2, Lloyd Road, Cooks Town, Bengaluru 560005 [Tel (080) 2366-6300 Ext 301 (O), 2546-4058 (R); Fax 2363-6662; Email mayor@ncbs.res.in]; SC: X.

1988 : MEHER-HOMJI, Vispy Minocher (b 1932), PhD, DSc, Sp: Ecology, Bio-climatology & Plant Geography; FASc, FNASc, Honorary Dean, School of Ecology, Pondicherry University; formerly Director (Research), French Institute, Pondicherry; 20 D, Sagar Sangeet, 58 Colaba Road, Mumbai 400005 [Tel (022) 2215-0120 (R)]; Council: Mem 1991-May 92; SC: VII.

2008 : MEHRA, Narinder Kumar (b 1949), PhD, Sp: Transplant Immunology, HLA and Clinical Immunogenetics; FNASc, FTWAS, Member (hc), Hungarian Academy of Sciences, Dr C.G. Pandit National Chair, former Dean (Research), AIIMS; former Professor & Founder Head, Department of Transplant Immunology & Immunogenetics, AIIMS, New Delhi; A563E, Sushant Lok I, Gurgaon 122009 [Tel (011) 2658-8500 Ext 8253 (O), 98-990-87445 (M); Fax 2658-8663, 2658-8641; Email narin.mehra@gmail.com, narin98@hotmail.com]; Medal: SS Bhatnagar (1992); SC: XI.

1983 : MEHTA, Goverdhan (b 1943), PhD, DSc (hc), Sp: Organic Chemistry; FASc, FNASc, FTWAS, FRS, Foreign Mem, Russian Academy of Sciences, Eli Lily-Jubilant Chair, School of Chemistry, University of Hyderabad, Hyderabad 500046; A-45, South Campus, University of Hyderabad, Hyderabad 500046 [Tel (040) 2313-4848, Telefax 2301-0785 (O), 2313-6145 (R); Email gmsc@uohyd.ernet.in, gmehta43@gmail.com, gm@orgchem.iisc.ernet.in]; Professorship: INSA-Srinivasa Ramanujan Research Professor (1992-97); Medal: Golden Jubilee Commemoration (Chem Sc) (1989); CV Raman (2003); Lecture: JL Nehru Birth Centenary (1990); Council: Mem 1989-91, VP 1995-97, Pres 1999-2001; SC: III.

1970: MENON, Mambillikalathil Govind Kumar (b 1928), PhD (Bristol), DSc (hc), Sp: Physics; FASc, Hon FNASc, FRS, FTWAS, Advisor ISRO (Govt of India), Department of Space; Mem, Pontifical Acad Sc, K-5 (Rear), Hauz Khas Enclave, New Delhi 110016; C-178, First Floor, Sarvodaya Enclave, New Delhi 110017 [Tel (011) 2651-1454 (O), 2696-6096 (R); Telefax 2651-0825; Email mgkmenon@nic.in]; Professorship: INSA-CV Raman Research Professor (1986-91); Medal: CV Raman (1985); INSA Medal for Promotion & Service to Science (2002); Lecture: Blackett Memorial (1987); Council: Mem 1972-74, Pres 1981-82, Ad Mem 1979-80, 1983-84; SC: II.
1982 : MERH, Sukumar Shyamlal (*b* 1928), PhD (Lond), DIC, Sp: Structural Geology, Quaternary Geology; FASc, FNAsc, formerly Professor of Geology, MS University of Baroda, Vadodara 390002; *Flat 5, Ashdown Court, 5 Idmiston Road, Worcester Park, Surrey KT4 7SE, London, UK* [Tel (0044 20) 8330-1225 (R)]; *Medal: DFN Wadia (2001); INSA Senior Scientist (1989-91); Council: Mem 1987-89; SC: IV.*

2011 : MISHRA, Akhilesh Chandra (*b* 1950), PhD, Sp: Epidemiology & Natural Cycle of Viral Diseases; FASc, Director, Interactive Research School for Health Affairs (IRSHA), Bharati Vidyapeeth University, Katraj, Pune; formerly Director, National Institute of Virology, Pune; *B16 Mont Vert 1, Sus Road, Pashan, Pune 411021* [Tel (020) 2436-6929 (O), 99-701-78555 (M); Fax 2436-6931; Email acm1750@gmail.com, acm1750@rediffmail.com]; *SC: XI.*

2006 : MISHRA, Gyan Chandra (*b* 1947), PhD, Sp: Immunology; Eminent Scientist, National Centre for Cell Science, NCCS Complex, Pune University Campus, Ganeshkhind, Pune 411007; Director’s Bungalow, NCCS Campus, Pune University Campus, Ganeshkhind, Pune 411007 [Tel (020) 2570-8248 (O), 2569-1064 (R); Fax 2569-7756; Email gcmishra@nccs.res.in; Web http://www.web.nccs.res.in]; *SC: X.*

2015 : MISHRA, Rakesh Kumar (*b* 1961), PhD, Sp: Genomics of the non-coding DNA & Epigenetic Regulation and Development; FASc, FNAsc, Chief Scientist & Group Leader, CSIR-Centre for Cellular and Molecular Biology, Uppal Road, Hyderabad 500007; House No. 2-17-3/E, Plot No. 95/A, Dharmapuri Colony, Road No. 3, Prashanti Nagar, Uppal, Hyderabad 500039 [Tel (040) 2719-2658 (O), 2720-6400 (R), 94-419-02188 (M); Fax 2716-0591; Email mishra@ccmb.res.in; Web http://www.ccmb.res.in/rakeshmishra/home.html]; *SC: X.*

1990 : MISHRA, Santosh Kumar (*b* 1941), PhD, Sp: Dynamic Meteorology and Numerical Modelling; FASc, formerly DG, National Centre for Medium Range Weather Forecasting, New Delhi; *Flat 4, 163/24 Mausam Vihar, DP Road, Aundh, Pune 411007* [Tel (020) 2589-0369 (R); Email skmishrapune@rediffmail.com]; *Council: Mem 1995-97; SC: IV.*

2009 : MISRA, Gadadhar (*b* 1956), PhD, Sp: Operator Theory; FASc, Professor, Department of Mathematics, Indian Institute of Science, Bengaluru 560012; 508/509, Block-II, RMV Clusters (Phase-II), RMV Ext, IIInd Stage, Bengaluru 560009 [Tel (080) 2293-2712 (O), 94-498-17021 (M); Fax 2360-0146; Email gm@math.iisc.ernet.in]; *SC: I.*

2015 : MISRA, Usha Kant (*b* 1952), MD, DM, Sp: Neurology; FASc, FNAsc, Professor & Head, Department of Neurology, Sanjay Gandhi Post Graduate Institute of Medical Sciences, Rae Bareli Road, Lucknow 226014; 10-B Madan Mohan Malviya Marg, Lucknow 226001 [Tel (0522) 249-4167 (O), 220-5931 (R), 94-504-53685 (M); Fax 266-8017, 266-8811; Email drukmisra@rediffmail.com, drukmisra@gmail.com]; *SC: XI.*
1966 : MITRA, Asoke Nath (b 1929), PhD (Delhi & Cornell), Sp: Quarks, Particles, Nuclei & Fields; FASc, FNASc, FTWAS, Professor Emeritus, Department of Physics, University of Delhi, Delhi; 244, Tagore Park, Delhi 110009 [Tel (011) 2744-6153 (O), 2744-4731 (R); Fax 2766-7336 (DU); Email ganmitra@vsnl.net.in, anmitra@physics.du.ac.in]; Professorship: INSA-Albert Einstein Research Professor (1989-94); Medal: SN Bose (1986); Council: Sec 1975-78, Ed Pub 1983-86; SC: II.

2014 : MITRA, Debashis (b 1960), PhD, Sp: Molecular Virology and Molecular Immunology; FASc, FNASc, Scientist G, National Centre for Cell Science, Pune University Campus, Ganeshkhind, Pune 411007; Flat E2, NCCS Colony, Pune University Campus, Ganeshkhind, Pune 411007 [Tel (020) 2570-8151 (O), 2570-8042 (R), 98-230-59841 (M); Fax 2569-2259; Email dmitra@nccs.res.in]; SC: IX.

2012 : MITRA, Parthasarathi (b 1951), PhD, Sp: Theoretical Physics; FNASc, Professor, Theory Division, Saha Institute of Nuclear Physics, Sector 1, Block AF, Bidhan Nagar, Kolkata 700064; 6, Panditia Terrace, Kolkata 700029 [Tel (033) 2337-5345-49 (O); Fax 2337-4637; Email parthasinp@gmail.com]; SC: II.

1987 : MITRA, Samaresh (b 1940), DPhil, Sp: Bioinorganic Chemistry, Biological Chemistry; FASc, FNASc, INSA Senior Scientist, CSIR-Indian Institute of Chemical Biology, Kolkata 700032; formerly Senior Professor, TIFR, Mumbai; Panchami 508, Udita, 1050/1, Survey Park, Kolkata 700075 [Tel (033) 2499-5866 (O), 2418-8209 (R), 98-312-73257 (M); Email samaresh.mitra@gmail.com, mitrasamresh@yahoo.com]; Lecture: Professor S Swaminathan 60th Birthday Commemoration (1998); SC: III.

1988 : MITTAL, Jai Pal (b 1940), PhD (Notre Dame, USA), Sp: Radiation & Photochemistry, Chemical Dynamics & Laser Chemistry; FASc, FNASc, FTWAS, INSA Honorary Scientist, MN Saha Distinguished Professor (NASI), Bhabha Atomic Research Centre, 6-A-16, Central Complex, Trombay, Mumbai 400085; formerly Director, Chemistry and Isotope Group, BARC, Mumbai; Distinguished Professor, IIT Bombay and Distinguished Professor, National Center for Free Radical Research, University of Pune, Pune; 11-B, Rohini Coop. Hsg Society, Sector 9-A, Vashi, Navi Mumbai 400703 [Tel (022) 2559-5245 (D), 2559-5246 (O), 2766-4822, 2766-1035 (R), 98-699-92912 (M); Fax 2550-5151; Email mittaljp2003@yahoo.co.in, mittaljp@barc.gov.in]; Visiting Fellowship: JL Nehru Birth Centenary (2013); Medal: Professor TR Seshadri 70th Birthday Commemoration (1994), Golden Jubilee Commemoration (Chem Sc) (2001); Council: Mem 1998-2000; Ad Mem 2005-06, 2012-13, VP 2014-; SC: III.

2011 : MITTAL, Sanjay (b 1968), PhD, Sp: Unsteady Aerodynamics, Finite Elements, High Performance Computing; FASc, FNASE, Department of Aerospace Engineering, Indian Institute of Technology Kanpur, Kanpur 208016; House Number 635, IIT Campus, Kanpur 208016 [Tel (0512) 259-7906, 259-7674 (O), 259-8702 (R); Fax 259-7561; Email smittal@iitk.ac.in; Medal: INSA Young Scientist (1999), AK Bose Memorial (2002); SC: V.
**2000**: MITTRA, Indraneel (b 1943) MBBS, FRCS (England), PhD (London), Sp: Oncology/Cancer Surgery, Fundamental, Clinical and Public Health Research in Cancer; FASc, Dr Ernest Borges Chair in Translational Research and Professor Emeritus, Department of Surgical Oncology, Tata Memorial Centre, Advance Centre for Treatment, Research & Education in Cancer (ACTREC), Kharghar, Navi Mumbai 410210 [Tel (022) 2740-5136 (O), 2497-6307 (R), 97-697-69720 (M); Fax 2740-5061; Email indraneel.mittra@gmail.com]; Council: Mem 2003-05; SC: XI.

**1984**: MODI, Vinod Venilal (b 1929), PhD, Sp: Microbial Biochemistry, Biotechnology & Fermentation; formerly Chief, Biotechnology Centre & Head, Department of Microbiology, MS University, Baroda; Aalap, 12A, Pratapgunj, Baroda 390002 [Tel (0265) 279-4342 (O & Fax), 279-4601 (R); Email modibvm@hotmail.com]; INSA Senior Scientist (1989-92); SC: XII.

**2012**: MOHAN, Viswanathan (b 1954), MD, FRCP, PhD, DSc, DSc (hc), Sp: Medicine – Diabetes Mellitus; FASc, FNASc, FTWAS, Director, Madras Diabetes Research Foundation and Dr Mohan’s Diabetes Specialities Centre, No 4, Conran Smith Road, Gopalapuram, Chennai 600086; Sai Anugraha, No 6B, Arch Bishop Mathias Avenue, Raja Annamalaipuram, Chennai 600028 [Tel (044) 4396-8888 (O); Fax 2835-0935; Email drmohans@diabetes.ind.in; Web www.drmohansdiabetes.com]; SC: XI.

**1978**: MOHAN RAM, Holenarasipur Yoganarasimham (b 1930) PhD, Sp: Plant Growth & Development, Economic Botany; FASc, FNASC, FNAAS, INSA-Srinivasa Ramanujan Professor, Shriram Institute for Industrial Research, Delhi 110007; formerly Professor and Head, Department of Botany, University of Delhi, Delhi; 174, SFS DDA Flats, Mukherjee Nagar, Delhi 110009 [Tel (011) 2765-2773 (R); Email hymohanram@gmail.com]; Medal: Professor SB Saksena Memorial (1990), Aryabhata (2009); Visiting Fellowship: JL Nehru Birth Centenary (1997); INSA Senior Scientist (1996-01), INSA Honorary Scientist (2006-11); Council: Ed Pub 1979-82, Sec 1985-88; SC: VII.

**2000**: MOHAN RAO, Chintalagiri (b 1954) PhD, Sp: Biophysical Chemistry and Molecular Biology, Protein Folding in Health and Disease, Molecular Diagnostics and Nanobiology; FASc, FNASC, FTWAS, Director, CSIR-Centre for Cellular and Molecular Biology, Uppal Road, Hyderabad 500007; Plot 71, House No 17-5/3, Dharmapuri Colony, Uppal, Hyderabad 500039 [Tel (040) 2716-0789 (O), 2719-2543 (Lab), 2720-0633 (R); Fax 2716-0252; Email mohan@ccmb.res.in, director@ccmb.res.in; Web http://www.ccmb.res.in/staff/mohan]; Lecture: BC Guha Memorial (2014); Council: Mem 2010-; SC: X.

**2013**: MOHANTY, Debasisa (b 1966), PhD, Sp: Computational Biology & Bioinformatics; FASc, FNASC, Staff Scientist-VI, National Institute of Immunology, Aruna Asaf Ali Marg, New Delhi 110067; Apt No A-6, NII Campus, Aruna Asaf Ali Marg, New Delhi 110067 [Tel (011) 2670-3749 (O), 2674-1168, 2670-3730 (R), 98-187-47627 (M); Fax 2674-2125; Email deb@nii.res.in, deb@nii.ac.in]; SC: X.
2015 : MOHANTY, Uma Charan (b 1948), PhD, Sp: Tropical Meteorology, Numerical Weather Prediction, Monsoon Dynamics, Meso-scale Modelling of severe weather and Climate Modelling; FASc, FNAsc, FNAE, Visiting Professor, SEOCS, IIT Bhubaneswar, Odisha and President, Odisha Bigyan Academy, Bhubaneswar, School of Earth, Ocean & Climate Sciences (SEOCS), Indian Institute of Technology Bhubaneswar, A2-708, Toshali Bhawan, Bhubaneswar 751007; Plot No. 515, Saheed Nagar, Bhubaneswar 751007 [Tel (0674) 257-6117 (O), 254-9981 (R), 87-638-62775, 72-058-89572 (M); Fax 230-6203; Email ucmohanty@gmail.com, ucmohanty@iitbbs.ac.in]; SC: IV.

2015 : MOHAPATRA, Trilochan (b 1962), PhD, Sp: Agricultural Biotechnology; FNAsc, FNAA, Director, Central Rice Research Institute, Cuttack 753006, Odisha; Director’s Bungalow, CRRI Campus, Cuttack 753006, Odisha [Tel (0671) 236-7757 (O), 244-6260 (R), 98-688-72890, 94-375-79527 (M); Fax 236-7663; Email directorcrricuttack@gmail.com]; Medal: INSA Young Scientist (1994); Award: Professor LSS Kumar Memorial (1994); SC: XII.

2003 : MONDAL, Naba Kumar (b 1951), PhD, Sp: Experimental Particle Physics, Accelerator Based and Non-Accelerator Based Particle Physics and Neutrino Physics; FASc, FNAsc, FTWAS, Senior Professor, Department of High Energy Physics, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400005; 710 Bhaskara, TIFR Housing Complex, Homi Bhabha Road, Mumbai 400005 [Tel (022) 2278-2227, 2280-4903 (O), 2280-4874, 2278-3227 (R), 99-875-37701 (M); Fax 2280-4610, 2280-4611; Email nkm@tifr.res.in]; SC: II.

1998 : MOULIK, Satya Priya (b 1936), DSc, PhD, Sp: Surface & Biophysical Chemistry; INSA Honorary Scientist, Centre for Surface Science, Department of Chemistry, Jadavpur University, Kolkata 700032; 202, J U EMPL COOP, Panchasayar, Kolkata 700094 [Tel (033) 2414-6411 (O), 94-339-57837 (M); Fax 2414-6266; Email spmcss@yahoo.com]; Lecture: Professor S Swaminathan 60th Birthday Commemoration (2004); SC: III.

2004 : MUKERJEE, Rahul (b 1956), PhD, Sp: Statistics (Design of Experiments, Asymptotic Theory, Survey Sampling); FASc, FNAsc, Professor of Statistics, Indian Institute of Management, Joka, Diamond Harbour Road, Kolkata 700104; Flat 6E, Regent Tower, 121/1 NSC Bose Road, Kolkata 700040 [Tel (033) 2467-8300 (O), 2423-9712 (R); Email rmuk0902@gmail.com]; SC: I.

1987 : MUKHERJEE, Sunil Kumar (b 1926), PhD, Sp: Organic Chemistry & Agrochemicals; FRSC, FNAsc, Consultant, Ozone Cell, Ministry of Env & Forests, India Habitat Centre, Zone IV (2nd Floor), Lodhi Road, New Delhi 110003; formerly Professor of Eminence, IARI, New Delhi; 296, Gulmohar Enclave, New Delhi 110049 [Tel (011) 2464-1665, 2460-2601/221 (O), 2686-5794 (R); Fax 2674-2316; Email sunil.mukherjee@rediffmail.com]; SC: XII.

1991 : MUKHERJEE, Debasish (b 1946), PhD, DSc (hc), Sp: Theoretical Chemistry, Theoretical Spectroscopy; FASc, FNAsc, FTWAS, Emeritus Professor and formerly Director, Indian Association for the Cultivation of Science, 2A & 2B Raja S C Mullick Road, Kolkata 700032; Flat 301, Meghdoot Apartments, 24 A, Central Road, Kolkata 700032 [Tel (033) 2499-1144 (O), 2429-6289, 2412-5890 (R); Fax 2483-6561, 2473-4805; Email pcdemu@gmail.com, pcdm@iacs.res.in; Web www.iacs.res.in/pcdm.html]; Lecture: Dr Jagdish Shankar Memorial (1994), Professor Sadhan Basu Memorial (2005); SC: III.
2008 : MUKHERJEE, Rabindra Nath (b 1953), PhD, Sp: Inorganic Chemistry, Bio-inorganic Chemistry; FASc, FRSC, Director, Indian Institute of Science Education and Research (IISER) Kolkata, Mohanpur 741246; Elita Garden Vista, Block 5 Flat No. 11-01, Action Area III, Rajarhat, New Town, Kolkata 700135 [Tel (033) 6451-3294 (O), 6451-0542 (R), 98-308-39343, 99-033-82482 (M); Fax 2334-7425; Email rnm@iiserkol.ac.in, rnm@iitk.ac.in]; SC: III.

2007 : MUKHERJEE, Sunil Kumar (b 1950), PhD, Sp: Plant Molecular Biology; FASc, FNASC, NASI-Senior Scientist, International Centre for Genetic Engineering and Biotechnology (ICGEB), Aruna Asaf Ali Marg, New Delhi 110067; 7145, B 10, Vasant Kunj, New Delhi 110070 [Tel (011) 2674-1175 (O), 2689-5815 (R); Fax 2674-2316; Email sunilm@icgeb.res.in]; Lecture: Professor Panchanan Maheshwari Memorial (2011); SC: VII.

2005 : MUKHI, Sunil (b 1956), PhD, Sp: Theoretical High Energy Physics, String Theory; FASc, FTWAS, Professor and Chair Physics Programme, Indian Institute of Science Education and Research (IISER), Homi Bhabha Road, Pashan, Pune 411008; C702, Mont Vert Dieu, Pashan-Sus Road, Pune 411021 [Tel (022) 2590-8116 (O), 98-672-01156 (M); Email sunil.mukhi@iiserpune.ac.in]; SC: II.

2007 : MUKHOPADHYAY, Amitabha (b 1959), PhD, Sp: Cell Biology; FASc, FNASC, Staff Scientist VII, National Institute of Immunology, Aruna Asaf Ali Marg, New Delhi 110067; A-8, NII Flats, New Delhi 110067 [Tel (011) 2671-5012 (O), 2674-1164 (R); Fax 2671-7104; Email amitabha@nii.res.in]; SC: X.

1987 : MUKHOPADHYAY, Dhrubajyoti (b 1938), PhD, DIC, Sp: Structural & Precambrian Geology; FASc, FNASC, INSA Honorary Scientist, Raman Centre for Applied and Interdisciplinary Sciences, 16 A Jheel Road, Kolkata 700025; G-7 MIG Hsg Estate, 25/3 Raja Manindra Road, Kolkata 700037 (Tel (033) 2556-8099 (R), 94-330-92581 (M); Email dhruba_38@yahoo.co.uk]; Medal: Professor K Naha Memorial (2001); Council: Mem1997-99; SC: IV.

2016 : MUKHOPADHYAY, Sangita (b 1966), PhD, Sp: Immunology and Infection Biology; FNASC, FASc, Staff Scientist VI, Centre for DNA Fingerprinting and Diagnostics, Building 7, Grubakalpa, 5-4-399/B, Nampally, Hyderabad 500007; A-11, NIN Quarters, National Institute of Nutrition, Jamai-Osmania PO, Hyderabad 500007 [Tel (040) 2474-9423 (O), 2700-6994 (R), 94-907-51094 (M); Fax 2478-5447; Email sangita@cdfd.org.in]; SC: IX.

1980 : MUKUNDA, Narasimhaengar (b 1939), PhD, Sp: Mechanics, Optics, Mathematical Physics; FASc, FNASC, FTWAS, INSA-CV Raman Research Professor, formerly Professor, IISc, Bengaluru; 103, 6th Main Road, Malleswaram, Bengaluru 560003 [Tel (080) 2334-8657 (R); Email nmukunda@gmail.com]; Lecture: JL Nehru Birth Centenary (1992); Council: Mem 1987-89; SC: I.
2000 : MUNIYAPPA, Kalappagowda (b 1952), PhD, Sp: Molecular Genetics, Molecular Cell Biology, Functional Genomics; FASc, FNASc, FTWAS, Professor, Department of Biochemistry, Indian Institute of Science, Bengaluru 560012; DQ-13, IISc Campus, Bengaluru 560012 [Tel (080) 2293-2235, 2360-0278 (O), 2360-1242 (R); Fax 2360-0814, 2360-0683; Email kmbc@biochem.iisc.ernet.in, kmbc@rediffmail.com]; Lecture: Professor Vishwa Nath Memorial (2001); Council: Mem 2012-14; SC: X.

1987 : MUNJAL, Manohar Lal (b 1945), PhD, Sp: Technical Acoustics, Industrial Noise Control, Automotive Noise Control; FASc, FNASc, FNAE, INSA Senior Scientist, Department of Mechanical Engineering, Indian Institute of Science, Bengaluru 560012; S-1, Skanda Residency, 40–41, 6th Cross, Ashram Colony, Sanjay Nagar, Bengaluru 560094 [Tel (080) 2360-3611, 2293-2303 (O), 2341-4855 (R); Fax 2360-0648; Email munjal@mecheng.iisc.ernet.in; Web http://www.mecheng.iisc.ernet.in/~frita]; Medal: INSA Young Scientist (1975); Lecture: Dr GP Chatterjee Memorial (2006); Council: Mem 2001-03, VP 2011-13; SC: V.

1995 : MURALIDHAR, Kambadur (b 1948), PhD, Sp: Biochemistry & Endocrinology; FASc, FNASc, JC Bose National Fellow, Honorary Professor, South Asian University, #230, Akbar Bhawan, Chanakyapuri, New Delhi 110021; 39/8, Shaktinagar, Delhi 110007 [Tel (011) 2419-5229 (O), 98-109-27705 (M); Email kambadurmurali2001@rediffmail.com, kambadur@hotmail.com]; Lecture: Professor MRN Prasad Memorial (2010); Council: Mem 1998-2000; SC: VIII.

1997 : MURTHY, Mathur Ramabhadrastrastry Narasimha (b 1950), PhD, Sp: X-ray Diffraction, Macromolecular Crystallography, Protein Structure and Function, Virus Structure and Assembly; FASc, FAAS, FTWAS, Professor, Molecular Biophysics Unit, Indian Institute of Science, Bengaluru 560012; 531, Beladingalu, 14th Main Gokul, I Stage, I Phase, Bengaluru 560054 [Tel (080) 2293-2458 (O), 2337-2981 (R), 99-003-13742 (M); Fax 2360-0535; Email mrrn@mbu.iisc.ernet.in]; Medal: Professor GN Ramachandran 60th Birthday Commemoration (2003); Council: Mem 2011-13; SC: X.

2014 : MURTY, Budaraju Srinivasa (b 1964), PhD, Sp: Physical Metallurgy, Advanced Materials; FASc, FNASc, FNAE, Professor, Department of Metallurgical & Materials Engineering, Indian Institute of Technology Madras, Chennai 600036; C2-6-5A (Marutham-5A), IIT Madras Campus, Chennai [Tel (044) 2257-4754 (O), 2257-6754 (R), 94-440-77006 (M); Fax 2257-4752, 2257-0509; Email muryt@iitm.ac.in, muryt.iitm@gmail.com; Web www.mme.iitm.ac.in/muryt]; Medal: INSA Young Scientist (1995); SC: VI.

2015 : MURUGAVELO, Ramaswamy (b 1964), PhD, Sp: Inorganic Chemistry; FASc, FRSC, Professor & Head, Department of Chemistry, Indian Institute of Technology Bombay, Powai, Mumbai 400076; B-300, IIT Staff Quarters, Powai, Mumbai 400076 [Tel (022) 2576-7163, 2576-8163 (R), 98-208-03249 (M); Email rmv@chem.iitb.ac.in, muruks@iitb.ac.in, rmuruks@gmail.com]; SC: III.
1989 : MUTHUKARUPPAN, Veerappan (b 1934), PhD, Sp: Immunology, Angiogenesis, Ocular Diseases; FASc, formerly Professor of Immunology, School of Biological Sciences, Madurai Kamaraj University, Madurai 625021 and VC, Bharathidasan Univ, Tiruchirappalli; Advisor-Research, Aravind Medical Research Foundation, Dr. G. Venkataswamy Eye Research Institute, No 1, Anna Nagar, Madurai 625020; 2/173-A, Palkalai Nagar East, Madurai 625021 [Tel (0452) 435-6100 (O), 245-6191 (R); Fax 253-0984; Email muthu@aravind.org]; SC: VIII.

1991 : NADKARNI, Mahendra Ganpatrao (b 1939), PhD, Sp: Harmonic Analysis & Ergodic Theory; FASc, Professor Emeritus, Department of Mathematics, University of Mumbai, Kalina, Mumbai 400098; C-31, Mangireesh, M M Chotani Road, Mahim, Mumbai 400016 [Tel (022) 2652-8871 (O), 2444-1093 (R); Email mgnadkarni@gmail.com]; Medal: PC Mahalanobis (2014); INSA Senior Scientist (2003-07); Council: Mem 1997-99; SC: I.

1990 : NAG, Kamalaksha (b 1942), PhD, Sp: Inorganic Chemistry; FASc, INSA Honorary Scientist and Emeritus Professor, Department of Inorganic Chemistry, Indian Association for the Cultivation of Science, Jadavpur, Kolkata 700032; B-26, Jayashri Park, Behala, Kolkata 700034 [Tel (033) 2473-4971 Ext 1352 (O), 2406-6575 (R), 96-745-13756 (M); Fax 2473-2805; Email ickn@iacs.res.in, kniacs@yahoo.com; Web http://www.iacs.res.in]; INSA Senior Scientist (2008-12); SC: III.

1981 : NAGABUSHERAM, Rachakonda (b 1931), DSc, PhD (Tulane), Sp: Animal Physiology & Invertebrate Endocrinology; FNASc, formerly Professor & Head, Department of Zoology, Marathwada University, Aurangabad; Consultant in Biotechnology, 8009 New Brunswick Dr Cincinnati, OH 45241-1357, USA [Tel (0513) 779-1443]; SC: VIII.

1998 : NAGARAJ, Ramakrishnan (b 1953), PhD, Sp: Peptide Biochemistry, Membrane Biochemistry; Scientist, CSIR-Centre for Cellular and Molecular Biology, Uppal Road, Hyderabad 500007; Flat No 103, Vinay Vihar, Street No 11, Tarnaka, Hyderabad 500017 [Tel 98-483-03895 (M); Email nrajccmb@gmail.com; Web http://www.ccmb.res.in]; Medal: INSA Young Scientist (1981); Lecture: Dr Nitya Anand Endowment (1997); SC: X.

2004 : NAGARAJA, Valakunja (b 1954), PhD, Sp: Molecular Biology of Mycobacteria, Regulation of Gene Expression and Protein-DNA Interactions; Chairman and Professor, Department of Microbiology and Cell Biology, Indian Institute of Science, Bengaluru 560012; ‘Sumeru’ No. 19, NTI Layout, Adj. Dollar Colony, RMV Ext II Stage, Bengaluru 560094 [Tel (080) 2360-0668 (O), 2341-8256 (R); Fax 2360-2697; Email vraj@mcbl.iisc.ernet.in]; Medal: JC Bose (2010); Lecture: Dr Nitya Anand Endowment (2009); SC:X.

1977 : NAGARAJAN, Kuppuswamy (b 1930), PhD, Sp: Natural Products Chemistry, Medicinal and Pesticide Chemistry; FASc, Corporate Adviser-R&D, Hikal Ltd., 3rd Floor, Grey Rock, No. 10, 24th Main, J.P. Nagar, 2nd Phase, Bengaluru 560078; formerly Director, R&D, Recon Ltd, Bengaluru, Director, Searle R&D, Mumbai 400705 and Head of Medicinal Chemistry, Ciba-Geigy Research Centre, Mumbai 400063; 4A, Atishi, Rose Garden Road, 15th Main, JP Nagar V Phase, Bengaluru 560078 [Tel (080) 3023-6212, 3023-
2000: NAGARAJAN, Radhakrishnan (b 1942), MSc (Prev), Sp: Superconductivity, Valence Fluctuation, Mossabauer Spectroscopy, Instrumentation; Emeritus Professor, University of Mumbai, Department of Atomic Energy, Centre of Excellence for Basic Sciences, Health Centre Building, Vidyanagari, Santacruz (E), Mumbai 400098; formerly Professor, Department of Condensed Matter Physics and Material Science, TIFR, Mumbai; 303, Dnyaneshwar, Opp Gaikwad Road, (Near Tambe Nagar Jain Temple) Mulund (W), Mumbai 400080 [Tel 93-223-70689 (M); Email nag@tifr.res.in, naganjan2006@gmail.com]; Lecture: INSAS Prize for Materials Science (2003); SC: II.

2006: NAGARAJAN, Subrahmaniam (b 1945), PhD, Sp: Agriculture Sciences-Plant disease, Wheat Improvement, Germplasm Usage, Plant Variety Protection; Adviser (Agriculture), LANSA Project, MSSRF Taramani, Chennai; formerly Director, IARI, New Delhi; Shivalik, 8/49, 16th Cross Street, New Colony, Chrompet, Chennai 600044 [Tel (044) 2241-4242 (R), 98-846-27600 (M); Email subrahmaniam@nagarajans.net]; Medal: Professor KS Bilgrami Memorial (2004), Silver Jubilee Commemoration (2006); SC: XII.

2003: NAIR, Gopinath Balakrish (b 1954), PhD, Sp: Medical and Molecular Microbiology; FASc, FNASc, FTWAS, Foreign Assoc US NAS, Fellow, American Academy of Microbiology, Executive Director, Translational Health Science and Technology Institute, NCR Biotech Science Cluster, 3 rd Milestone, Faridabad-Gurgaon Expressway, PO Box # 4, Faridabad 121001; A-082, DLF, Belvedere Towers, Phase-II, Cyber City, Gurgaon 122022 [Tel (0129) 287-6400 (O), 423-3633 (R), 99-998-29379 (M); Fax 287-6500; Email gbnair_2000@yahoo.com, nairgb@thsti.res.in]; Council: Ad Mem 2010; SC: XI.

1987: NAKRA, Bahadur Chand (b 1939), DIC & PhD, Sp: Vibration Control & Analysis, Mechatronics; FASc, FNASc, FNAE, FIE, INSA Senior Scientist, Department of Mechanical Engineering, Indian Institute of Technology Delhi, Hauz Khas, New Delhi 110016; formerly Dy Director (Faculty), BHEL & RRM Chairs, IIT New Delhi; P-12, New Colony, Gurgaon 122001 [Tel (0124) 407-5668 (R), 98-106-60668 (M); Email bnakra@hotmail.com]; Lecture: Dr GP Chatterjee Memorial (2001); Council: Treas 1996-98; SC: V.

1988: NANDA, Janardan (b 1937), PhD, Sp: Electrical Engineering, Power System; FNAE, FTWAS, INSA Honorary Scientist, Department of Electrical Enng, Indian Institute of Technology, Hauz Khas, New Delhi 110016; 13-B, Pocket D, SFS Flats, Mayur Vihar, Phase III, Delhi 110096 [Tel (011) 2659-1043 (O), 2261-2383 (R), 96-546-56251 (M); Email janardannanda@yahoo.co.in]; Medal: PC Mahalanobis (2002), SH Zaheer (2004); INSA Senior Scientist (2003-07, 2012-14); Council: Treas 1999, VP 2000-2001; SC: V.
2009 : NANGIA, Ashwini (b 1960), PhD, Sp: Organic Chemistry, Crystal Engineering, Professor, School of Chemistry, University of Hyderabad, Hyderabad 500046; Plot 81 A/C, MLA Colony, Road No 12, Banjara Hills, Hyderabad 500034 [Tel (040) 2313-4854 (O), 98-481-55416 (M), Fax 2301-2460, Email ashwini.nangia@gmail.com, ansc@uohyd.ac.in]; SC: III.

1998 : NANJUNDIAH, Vidyanand (b 1947), PhD, Sp: Developmental Biology, Evolution, Theoretical Biology; Centre for Human Genetics, BioTech Park, Electronic City (Phase I), Bengaluru 560100; 201, Bombay House, Home School Circle, 55 Kanakapura Road, Basavanagudi, Bengaluru 560004 [Tel (080) 2852-1832 (O), 2667-0631 (R); Fax 2852-1832; Email vidya@ces.iisc.ernet.in]; SC: VIII.

2001 : NAQVI, Syed Wajih Ahmad (b 1954), PhD, Sp: Aquatic Biogeochemistry, Chemical Oceanography and Paleooceanography; FASc, FNASC, FTWAS, Director, CSIR-National Institute of Oceanography, Dona Paula, Goa 403004; Director’s Bungalow, NIO, Dona Paula, Goa 403004 [Tel (0832) 245-0201 (O), 245-3463 (R), 94-224-43424 (M); Fax 245-0602; Email naqvi@nio.org; Web http://www.nio.org]; Lecture: SK Mitra Memorial (2015); SC: IV.

2010 : NARAHARI, Yadati (b 1959), PhD, Sp: Computer Science and Electronic Commerce, Game Theory; FNASC, FNAE, Professor, Department of Computer Science and Automation, Indian Institute of Science, Bengaluru 560012; No 65, 4th Cross Swimming Pool Extension, Malleswaram, Bengaluru 560003 [Tel (080) 2293-2773, 2293-2468, 2293-2368 (O), 2331-0265 (R); Fax 2360-2911/0683/0085; Email hari@csa.iisc.ernet.in; Web http://lcm.csa.iisc.ernet.in/hari]; Professorship: INSA-Golden Jubilee Research Professor (1991-95); Medal: SS Bhatnagar (1987); INSA Honorary Scientist (2006-15); SC: V.

1978 : NARAIN, Prem (b 1934), PhD, DSc (Edinburgh), Sp: Statistical Genetics and Agricultural Statistics; FASc, FNASC, FNAAS, formerly Professor Emeritus, IARI & Director, IASRI; B-3/27A, MIG Flats, Keshav Puram, New Delhi 110035 [Email narainprem@hotmail.com]; Lecture: Dr GP Chatterjee Memorial (1987); INSA Honorary Scientist (2006-15); SC: XII.

1979 : NARASIMHA, Roddam (b 1933), PhD (Caltech), AIISc, PhD (bc), Sp: Aerospace & Atmospheric Fluid Mechanics; FASc, FTWAS, FRs, Foreign Assoc, US Nat Acad Engg, Foreign Assoc US NAS, Honorary Professor, Engineering Mechanics Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Bengaluru 560064; formerly Director, NAL and NIAS (IISc Campus), Bengaluru; 72, Jaladarshini Layout, New BEL Road, Rajmahal Vilas II Stage, Bengaluru 560094 [Tel (080) 2208-2999 (O), 2341-2705 (R); Fax 2208-2951; Email roddam@caos.iisc.ernet.in, roddam@jncasr.ac.in]; Professorship: INSA-Golden Jubilee Research Professor (1991-95); Medal: SS Bhatnagar (1985); Lecture: Dr Biren Roy Memorial (2001); Council: Mem 1984-86; SC: V.

1971 : NARASIMHAN, Mudumbai Seshachalu (b 1932), PhD, Sp: Analysis, Differential Geometry and Algebraic Geometry; FASc, FTWAS, FRs, Department of Mathematics, Indian Institute of Science, Bengaluru 560012; formerly Director of Mathematics, ICTP, Trieste, Italy [Tel (080) 2351-8865 (R); Email narasim@math.tifrbng.res.in]; Medal: Srinivasa Ramanujan (1988); Council: Mem 1977-79; SC: I.
1987 : NARASIMHAN, Nurani Sivaramakrishna (b 1928), PhD, Sp: Organometallics & Organic Synthesis; FASc, Emeritus Professor, Poona University, Pune 411007; formerly Director, Centre for Agrochemical Research, Spic Science Foundation, Chennai; 22, Niyoshi Park II, DP Road, Aundh, Pune 411007 [Tel (020) 2588-0178 (R); Email nsn1928@gmail.com]; INSA Senior Scientist (1989-92); SC: III.

2002 : NARASIMHAN, Ramarathnam (b 1960), PhD, Sp: Fracture Mechanics, Computational Solid Mechanics; FASc, FNAE, Professor, Department of Mechanical Engineering, Indian Institute of Science, Bengaluru 560012; No 130, Third Main Road, Vinayaka Layout, Boopasandra, Bengaluru 560094 [Tel (080) 2293-2959 (O), 2341-9667 (R); Fax 2360-0648; Email narasi@mecheng.iisc.ernet.in]; SC: V.

2015 : NARAYAN, Kavassery Sureswaran (b 1964), MS, PhD, Sp: Device Physics, Organic Electronics, Photophysics & Biomolecular Electronics; FASc, FNASC, Professor and Dean (R&D), Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Jakkur, Bengaluru 560064; B-502, Sterling Residency, RMV IInd Stage, Dollars Colony, Bengaluru 560094 [Tel (080) 2208-2822 (O), 99-166-19847 (M); Fax 2208-2766; Email narayan@jncasr.ac.in]; SC: VI.

1993 : NARLIKAR, Anant Vishnu (b 1940), PhD (Cantab), ScD (Cantab), Sp: Superconductivity & Nanostructures; FASc, FNASC, INSA Senior Scientist, UGC-DAE Consortium for Scientific Research, University Campus, Khandwa Road, Indore 452001; formerly Director Grade Scientist, NPL, New Delhi; Apartment 101, “Swapnil”, 355, Indrapuri Colony, Indore 452017 [Tel (0731) 246-3913 Ext 204 (O), 97-551-62563 (M); Fax 246-2294, 246-5437, 236-1546; Email narlikar@yahoo.com]; Medal: HJ Bhabha (1996); SC: II.

1977 : NARLIKAR, Jayant Vishnu (b 1938), ScD (Cantab), Sp: Cosmology & Theoretical Astrophysics; FASc, FNASC, FTWAS, Emeritus Professor, Inter-Univ Centre for Astronomy and Astrophysics, Pune University Campus, Pune 411007; 6, Khagol, S No. 38/1 Panchavati, Pashan, Pune 411008 [Tel (020) 2560-4100 (O), 2588-1150 (R); Fax 2560-4698; Email jayant@iucaa.ernet.in]; Medal: INSA-Vainu Bappu Award (1988); Indira Gandhi Prize for Popularization of Science (1990); Council: Mem 1987-88; SC: II.

1988 : NATARAJAN, Paramasivan (b 1940), PhD, Sp: Inorganic Photochemistry & Laser Flash Photolysis; FASc, INSA Honorary Scientist, National Centre for Ultrafast Processes, University of Madras, Taramani Campus, Chennai 600113; formerly Director, CSMCRI, Bhavnagar; No 40, III Main Road, Kottur Gardens, Kotturpuram, Chennai 600085 [Tel (044) 2454-0962 (O), 2447-2332 (R), 94-448-70993 (M); Fax 2492-6709; Email pnatraj@ hotmail.com; Web http://www.ncufp.org]; Lecture: JL Nehru Birth Centenary (1998); SC: III.
2013 : NATARAJAN, Srinivasan (b 1960), PhD, Sp: Inorganic Materials Chemistry, FASc, FNASC, Professor, Solid State and Structural Chemistry Unit, Indian Institute of Science, Bengaluru 560012; Flat No. 4, 2A Ram Elegance, 4th Main, 7th Cross Naidu Layout RMV 2nd Stage, Bengaluru 560094 [Tel (080) 2293-2551 (O), 2341-7591 (R), 94-489-37430 (M); Fax 2360-1310 2360- 0683; Email snatarajan@sscu.iisc.ernet.in, rajan1960@gmail.com; Web http:// sscu.iisc.ernet.in/s_natarajan.html]; SC: III.

1992 : NATH, Indira (b 1938), MD, FRC (Path), DSc (hc), Sp: Immunology, Pathology, Communicable Diseases, Leprosy & Medical Biotechnology; FASc, FNASC, FTWAS, FAMS, formerly Raja Ramanna Fellow, Emeritus Professor, National Institute of Pathology, Safdarjung Hospital Campus, New Delhi, Professor & Founder Head, Department of Biotechnology, AIIMS, New Delhi; 707, Sarvapriya Apartments, Sarvapriya Vihar, New Delhi 110016 [Tel (011) 2651-7707 (R); Email indiranath@gmail.com]; Professorship: INSA-SN Bose Research Professor (1998-2003); Medal: SS Bhatnagar (2013); Lecture: Dr Nitya Anand Endowment (1987); Council: F Sec 1995-97; SC: XI.

2014 : NAUTIYAL, Chandra Shekhar (b 1956), PhD, Sp: Plant-Microbe Interactions & Soil Microbiology; FNASC, FNAAS, Director, CSIR-National Botanical Research Institute, Rana Pratap Marg, PO Box 436, Lucknow 226001; C-50, Nirala Nagar, Lucknow 226001 [Tel (0522) 229-7801, 220-5848 (O), 94-155-11111 (M); Fax 220-5839; Email nautiyalnbri@lycos.com, director@nbri.res.in, csnnbri@yahoo.com]; SC: XII.

1988 : NAYAK, Nabeen Chandra (b 1931), MD, Sp: Pathology, Liver Diseases & Cancer; FASc, FAMS, FRCPath, Senior Consultant and Head, Department of Histopathology & Chairman, Research Committee, Sir Ganga Ram Hospital, Rajinder Nagar, New Delhi 110060; Emeritus Professor of Pathology, AIIMS, New Delhi; formerly Head, Department of Pathology and Chief of Cancer Hospital, AIIMS, New Delhi and Chairman, Pathology and Director Hospital Laboratory Services, Faculty of Medicine, Kuwait University; X-29, Hauz Khas, New Delhi 110016 [Tel (011) 2572-1800, 2578-1837 Ext 1152, 1151 (O), 2656-8171 (R), Fax 2656-8171(R); Email dr_ncnayak@yahoo.com (O), nayakmb@vsnl.com]; SC: XI.

1977 : NIGAM, Hira Lal (b 1922), DPhil, PhD (Lond), DSc (hc), Sp: Inorganic Chemistry, Electrochemistry & Spectroscopy & X-Ray Absorption Spectroscopy; FNASC, formerly VC, APS University, Rewa & Professor, Department of Chem, Allahabad University; B-332B, Sector A, Sitapur Road Scheme, Lucknow 226021 [Tel (0522) 273-3818 (R), 94-150-87963, 96-519-91644 (M); Email dr_nigam17@rediffmail.com, dr_nigam19@gmail.com, lalnigam@yahoo.com]; Council: Mem 1981-83, Ad Mem 1979-80; SC: III.
1998 : **NITYANANDA, Rajaram** (*b* 1948), PhD, Sp: Optics, Statistical Physics, Gravitational Dynamics; FASc, FNASc, Professor, *Azim Premji University, PES South Campus, Electronics City, Bengaluru 560100*; B-1208, Brigade Palm Springs, 24 Main, JP Nagar 7 Phase, Bengaluru 560178 [Tel (080) 4952-9450 (R), 96-117-89391 (M); Email rajaram.nityananda@gmail.com, rajaram.nityananda@apu.edu.in; Web http://www.ncra.tifr.res.in/~rajaram]; **Lecture:** KS Krishnan Memorial (2004); **SC:** II.

1988 : **NORI, Madhav Vithal** (*b* 1949), PhD, Sp: Algebraic Geometry, Commutative Algebra; *Department of Mathematics, The University of Chicago, 5734 S Univ Avenue, Chicago, I L 60637, USA* [Email nori@math.uchicago.edu]; **Medal:** INSA Young Scientist (1980); **SC:** I.

1987 : **PADAYATTY, Joseph Devassy** (*b* 1928), PhD, Sp: Plant Molecular Biology, Recombinant DNA; FASc, formerly Professor, Department of Biochemistry, IISc, Bengaluru; PO Karukutty, Ernakulam District, Kerala 683576 [Tel (0484) 261-2107 (R), 99-473-29527 (M); Email jdpadayatty@gmail.com]; **SC:** X.

1985 : **PADMANABAN, Govindarajan** (*b* 1938), PhD, DSc (*hc*), Sp: Biochemistry, Molecular Biology & Malaria; FASc, FNASc, INSAs Senior Scientist and Honorary Professor, *Department of Biochemistry, Indian Institute of Science, Bengaluru 560012*; formerly Director, IISc, Bengaluru; No. 5, 8th Main Rd, Vyalikaval, Bengaluru 560003 [Tel (080) 2360-1492, 2394-2540 (O), 2334-2223 (R); Fax 2360-1492, 2360-0814; Email geepee@biochem.iisc.ernet.in]; **Professorship:** INSA-CV Raman Research Professor (1991-96); **Medal:** SS Bhatnagar (1999); **Visiting Fellowship:** JL Nehru Birth Centenary (1991); **Council:** Mem 1991-92; **SC:** X.

2001 : **PADMANABHAN, Thanu** (*b* 1957), PhD, Sp: Physics (Gravitation, Quantum Theory and Cosmology); FASc, FNASc, FTWAS, Distinguished Professor, *Inter-University Centre for Astronomy and Astrophysics, Post Bag 4, Ganesbhkhd, Pune 411007*; 8, Akashganga, IUCAA Hsg Colony, Pune University Campus, Ganeshkhind, Pune 411007 [Tel (020) 2560-4100, 2560-4106 (O), 2569-2922 (R); Fax 2560-4699; Email nabhan@iucaa.in, paddy@iucaa.in]; **Medal:** INSA Young Scientist (1984); INSA-Vainu Bappu Memorial Medal (2007); **Council:** Mem 2005-07; **SC:** II.

1980 : **PAI, Mangalore Anantha** (*b* 1931), BE (Univ of Madras), MS, PhD (UC Berkeley), Sp: Power System Dynamics, Power System Control & Computation; Professor Emeritus, *Department of Electrical and Computer Engineering, University of Illinois, Urbana-Champaign, Urbana IL 61801, USA*; 33 Rockwood, Irvine, CA 92614, USA [Tel 217-344-0977 (O), 217-417-9725 (M); Email mapai@illinois.edu, mapai@uiuc.edu]; **SC:** V.

1984 : **PAKRASHI, Satyesh Chandra** (*b* 1930), PhD, DSc (*hc*) Sp: Natural Products & Herbal Drugs; FNASc, INSAs Honorary Scientist, formerly Director & Distinguished Fellow (CSIR), IICB, Kolkata; *Meghamallar, Flat No 8F/2, 18/3, Gariahat Road, Kolkata 700019* [Tel (033) 2440-8123, 2460-2173 (R), 93-309-68389, 98-364-24335 (M); Email satyeshpakrashi@yahoo.in, satyeshpakrashi@gmail.com]; INSA Senior Scientist (1996-2000); **Council:** Ad Mem 1988-91, 1995; **SC:** III.
2016 : PAL, Amlan Jyoti (b 1960), PhD, Sp: Organic Electronics, Materials Engineering, Device Physics; FASc, FNASE, Senior Professor, Department of Solid State Physics, Indian Association for the Cultivation of Science, Jadavpur, Kolkata 700032; A-4/11/44, Calcutta Greens Towers, 1050/2 Survey Park, Kolkata 700075 [Tel (033) 2473-4971 Ext 1313 (O), 2416-0502 (R), 94-330-59564 (M); Fax 2473-2805; Email ssapajp@iacs.res.in, amlan.pal@gmail.com; Web http://www.iacs.res.in/ssp/sspajp]; SC: VI.

1990 : PAL, Manoj Kumar (b 1932), DPhil, Sp: Theoretical Nuclear Physics; FASc, SN Bose National Centre for Basic Sciences, JD Block, Sector 3, Salt Lake City, Kolkata 700091; 41, Elgin Road (IB), Kolkata 700020 [Tel (033) 2358-5708 (O), 2475-6829 (R)]; SC: II.

2011 : PAL, Nikhil Ranjan (b 1959), PhD, Sp: Computational Intelligence- Fuzzy Logic, Neural Networks and Evolutionary Computing, Bioinformatics; FNASE, FASc, FIEEE, INAE Chair Professor, Electronics and Communication Sciences Unit, Indian Statistical Institute, 203 BT Road, Kolkata 700108 [Tel (033) 2575-2906 (O), 94-339-05237 (M); Fax 2575-2914; Email nikhil@isical.ac.in, nrpal59@gmail.com]; SC: V.

1994 : PAL, Sankar Kumar (b 1950), PhD (Cal & Lond), DIC, Sp: Computer Science, Soft Computing, Pattern Recognition and Image Processing, Fuzzy & Neural Systems, Data Mining and Web Intelligence, Bioinformatics, Cognitive Machines; FNASE, FASc, FNASE, FTWAS, DAE Raja Ramanna Fellow, Distinguished Scientist and formerly Director, Indian Statistical Institute, 203, BT Road, Kolkata 700108; B-4, Lake View Park, PO ISI, Kolkata 700108 [Tel (033) 2575-2041 (D), 2575-2040, 2575-3100 (O), 2464-8775, 2577-2030, 2577-5099 (R); Fax 2578-8699, 2578-3357; Email sankar@isical.ac.in; Web http://www.isical.ac.in/~sankar]; Medal: SH Zaheer (2001); SC: V.

2003 : PAL, Sourav (b 1955), PhD, Sp: Theoretical Chemistry, Electronic Structure Theory, Ab initio Quantum Chemistry; FASc, FNASE, FRSC, Professor, Department of Chemistry, Indian Institute of Technology Bombay, Powai, Mumbai 400076; B-291, Nilgiri Apartments, IIT Bombay Colony, Powai, Mumbai 400076 [Tel (022) 2576-7195 (O), 2576-8195 (R); Fax 2572-3480; Email s.pal@ncl.res.in, spal@chem.iitb.ac.in; Web http://www.chem.iitb.ac.in]; Medal: INSA Young Scientist (1987); Lecture: Dr Jagdish Shankar Memorial (2006); Professor Sadhan Basu Memorial (2014); SC: III.

2014 : PALANIANDAVAR, Mallayan (b 1951), PhD, Sp: Bioinorganic Chemistry of DNA, Copper and Iron: Activation of Molecular Oxygen, Functional Models for Metallopolypeptides, Interaction of Metal Complexes with DNA and Proteins, Metal-based Anticancer Drugs; FASc, FRSC, INSA Senior Scientist, Department of Chemistry, Bharathidasan University, Tiruchirapalli 620023; 10, Gokulam Colony, Tiruchirappalli 620023 [Tel (0431) 245-7510 (R), 94-436-44758 (M); Email palanim51@yahoo.com, palaniandavarm@gmail.com]; SC: III.

2014 : PALIT, Dipak Kumar (b 1957), PhD, Sp: Radiation and Photochemistry, Ultrafast Spectroscopy and Chemical Reaction Dynamics; FASc, FNASc, Outstanding Scientist and Head, Radiation & Photochemistry Division, Bhabha Atomic Research Centre, Trombay, Mumbai 400085; 6C-Dhawalgiri, Anushaktinagar, Mumbai 400094 [Tel (022) 2559-5091 (O), 2557-1283 (R), 99-691-49589, 97-570-00353 (M); Fax 2550-5151; Email palitdk@gmail.com, dkpalit@barc.gov.in]; SC: III.

2013 : PALNI, Lok Man Singh (b 1953), PhD, Sp: Plant Physiology & Biotechnology, Plant-Microbe Interactions, Himalayan Issues; FNASc, FNAAS, Professor & Dean, Graphic Era (Deemed) University, Clement Town, Dehradun 248002; formerly Director, GB Pant Institute of Himalayan Environment & Development, Almora; Flat 1-A/B, Riturain, Woldorf Compound, Nr. Vijaya Bank, Nainital 263001, Uttarakhand [Tel (05942) 238-963 (R), 94-567-48720 (M); Email lmspalni@rediffmail.com]; SC: VII.

2010 : PANDA, Subrat Kumar (b 1954), MBBS, MD, Sp: Liver Pathology and Molecular Virology of Hepatitis Viruses; FASc, FAMS, JC Bose National Fellow, Professor and Head, Department of Pathology, All India Institute of Medical Sciences, Ansari Nagar, New Delhi 110029; CI-15 Ansari Nagar, New Delhi 110029 [Tel (011) 2659-3227, 2659-3493 (O), 2658-8915, 2658-8916 (R); 99-681-73829, 98-104-77853 (M); Email subrat@gmail.com, pandask@hotmail.com]; SC: XI.

2015 : PANDA, Sudhakar (b 1959), PhD, Sp: Field Theory, String Theory, Supergravity and String Cosmology; Director, Institute of Physics, PO Sainik School, Sachivalaya Marg, Bhubaneswar 751005 [Tel (0674) 230-1825 (O), 230-1367 (R), 94-375-59215 (M); Email panda@iopb.res.in]; SC: II.

2004 : PANDEY, Dhananjai (b 1952), PhD, Sp: Condensed Matter Physics, Materials Science, Crystallography, Structural Phase Transitions; FASc, School of Materials Science and Technology, Indian Institute of Technology, Banaras Hindu University, Varanasi 221005; formerly Director, Indian Institute of Technology, BHU, Varanasi; H-7, VDA Flats, Ravindrapur Extension, Varanasi 221005 [Tel (0542) 670-1790 (O), 231-4658 (R); Fax 236-8174, 236-8428; Email dpandey_bhu@yahoo.co.in, dp.mst1979@gmail.com]; Medal: INSA Young Scientist (1980); SC: II.
1999: PANDEY, Ganesh Prasad (b 1954), PhD, Sp: Organic Chemistry; FASc, FNASc, Director, Centre of Biomedical Research (CBMR), Sanjay Gandhi Post Graduate Institute of Medical Sciences (SGPGIMS) Campus, Raebareli Road, Lucknow 226014; A-198, Omaex City, Amar Shahid Path, Lucknow 226025 [Tel (0522) 266-8985 (O), 99-701-71802 (M); Fax 266-8215; Email gp.pandey@cbmr.res.in; Web http://www.cbmr.res.in]; Medal: Professor TR Seshadri 70th Birthday Commemoration (2003); Lecture: Professor S Swaminathan 60th Birthday Commemoration (2013); Council: Ad Mem 2009, 2013; SC: III.

1987: PANDIAN, Thavamani Jegajothivel (b 1939), PhD, Dr rer nat (Kiel, Germany), DSc (CIFE, Mumbai), Sp: Animal Sciences & Fish Genetics; FASc, FNASc, FNAAS, FTWAS, INSA Honorary Scientist, formerly National Professor, School of Biological Sciences, Madurai Kamaraj University, Madurai 625021; 9, Old Natham Road, Madurai 625014 [Tel (0452) 264-0139 (R), 98-421-64139 (M); Email tjpandian16@gmail.com]; Council: Mem 1990, Ed Pub 1991-94; SC: VIII.

2009: PANDIT, Aniruddha Bhalchandra (b 1957), PhD (Tech), Sp: Chemical Engineering, Design of Multiphase Reactors, Bubble Dynamics and Cavitation Phenomena; FASc, FNASc, FNAE, FTWAS, UGC Research Scientist C (Professor’s Grade), Chemical Engineering Department, Institute of Chemical Technology, Mumbai 400019; E-3, Prashant Co-op Housing Society, Senapati Bapat Marg, Mahim, Mumbai 400016 [Tel (022) 3361-1111 (O), 2430-2660 (R); Fax 3361-1020; Email ab.pandit@ictmumbai.edu.in, nanapandit@yahoo.co.uk, dr.pandit@gmail.com]; Award: INSA Teachers Award (2012); Medal: Vishwakarma (2015); SC: V.

2006: PANDIT, Rahul (b 1956), PhD (Illinois), Sp: Statistical Mechanics of Phase Transitions, Condensed Matter Theory, Spatiotemporal Chaos, Mathematical Models for Cardiac Tissue and Turbulence; FTWAS, Professor, Department of Physics, Indian Institute of Science, Bengaluru 560012 [Tel (080) 2293-2863, 2293-2249 (O), 2664-789 (R); Fax 2360-2602; Email rahul@physics.iisc.ernet.in; Web http://www.physics.iisc.ernet.in/~rahul]; Medal: INSA Young Scientist (1988); SC: II.

2009: PANDITA, Pran Nath (b 1949), PhD, Sp: Theoretical High Energy Physics; FASc, FNASc, Jc Bose National Fellow, DAE Raja Ramanna Fellow, Centre for High Energy Physics, Indian Institute of Science, Bengaluru 560012; former Professor and Head, Department of Physics, North Eastern Hill University, Mawkynroh Umshing, Shillong 793022; H.No. 10, Lane 2, Bharat Nagar, Bantalab, Jammu 181123 [Tel 94-361-02186 (M); Email pandita@iucaa.ernet.in]; SC: II.

1986: PANDYA, Sudhir Pradyumna (b 1928), PhD, Sp: Nuclear Physics; FASc, 24, Mithila Society, Near Shreyas Foundation, Ambawadi, Ahmedabad 380001 [Email sudhir.pandya@yahoo.com]; INSA Senior Scientist (1989-91); SC: II.
2010 : PARANJAPE, Kapil Hari (b 1960), PhD, Sp: Geometry; Professor of Mathematics, Indian Institute of Science Education and Research, Mohali, Sector 81, SAS Nagar, Manauli PO 140306, Punjab; D/5, IISER, Knowledge City, Sector 81, SAS Nagar, Manauli PO 140306 [Tel (0172) 229-3110 (O); Email kapil@iisermohali.ac.in]; SC: I.

1990 : PARIMALA, Raman (b 1948), PhD, Sp: Algebra; FASc, Professor, Department of Mathematics and Computer Science, Emory University, 400 Dowman Drive W 401, Atlanta, GA 30322, USA; 848, Artwood Road, GA 30307, USA [Tel (001-404) 727-7577 (O), 444-8870 (R); Fax 727-5611; Email parimala@mathcs.emory.edu]; Medal: Srinivasa Ramanujan (2006); Lecture: JL Nehru Birth Centenary (2004); Council: Mem 2000-02; SC: I.

2004 : PARNAIK, Veena K (b 1953), PhD, Sp: Cell and Molecular Biology, FASc, JC Bose National Fellow, CSIR-Centre for Cellular & Molecular Biology, Uppal Road, Hyderabad 500007; 103, Vinay Vihar, Str No 11, Tarnaka, Hyderabad 500017 [Tel (040) 2719-2614, 2716-0222 (O), 98-850-86220 (M); Fax 2716-0591, 2716-0311; Email veenap@ccmb.res.in, veenaparnaik@gmail.com; Web http://www.ccmb.res.in]; SC: VIII.

1986 : PARODA, Rajendra Singh (b 1942), PhD, DSc (hc), Sp: Plant Breeding & Genetics; FNAS, FNAAS, FTWAS, Chairman, Trust for Advancement of Agricultural Sciences (TAAS), Avenue II, IARI, Pusa Campus, New Delhi 110 012; formerly Secretary, DARE & DG, ICAR, Executive Secretary, Asia-Pacific Association of Agricultural Research Institutions (APAARI), Chairman, Haryana Farmers' Commission [Tel (011) 6543-7870 (O), (0124) 257-7486 (R), 98-101-91486 (M); Fax 2584-3243; Email raj.paroda@gmail.com, taasiari@gmail.com]; Medal: Silver Jubilee Commemoration (2000); Council: Ad Mem 1999; SC: XII.

2013 : PARTHASARATHY, Gopalakrishnarao (b 1958), PhD, Sp: High-Pressure Mineral Physics, Earth and Planetary Science, Nanogeoscience; FRSC, Professor and Chief Scientist, CSIR-National Geophysical Research Institute, Uppal Road, Hyderabad 500007; Quarter No V/12, NGRI Colony, Uppal Road, Hyderabad 500007 [Tel (040) 2701-2817 (O), 2343-4881 (R), 78-936-15248 (M); Fax 2343-4651; Email gpsarathy@ngri.res.in, drg.parthasarathy@gmail.com]; SC: IV.

1976 : PARTHASARATHY, Kalyanapuram Rangachari (b 1936), PhD, Sp: Probability Theory & Quantum Infomation Theory; FASc, FNAsc, FTWAS, Emeritus Scientist (formerly Distinguished Scientist), Indian Statistical Institute, 7, SJS Sansanwal Marg, New Delhi 110016; A-51, Gyandeep Apts, Plot 8, Mayur Vihar, Phase I, Delhi 110091 [Tel (011) 4149-3923 (O), 2279-6447 (R); Fax 4149-3981; Email krp@isid.ac.in]; Professorship: INSA-CV Raman Research Professor (1996-2001); Medal: Srinivasa Ramanujan (2013); Council: Mem 1983-85; SC: I.

1985 : PARTHASARATHY, Rajagopal (b 1945), PhD, DSc (hc), Sp: Representations of Lie Groups; FASc, FNAsc, former Senior Professor, School of Mathematics, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400005; 301, Meghnad, TIFR Hsg Colony, Homi Bhabha Road, Mumbai 400005 [Tel 95-002-33213 (M)]; SC: I.
1995 : PARTHASARATHY, Thiruvenkatachari (b 1941), PhD, Sp: Game Theory & Mathematical Programming; FASc, INSA Senior Scientist, Indian Statistical Institute, 37/110, Nelson Manikham Road, Chennai 600029; No 1, 43rd Street, Nanganallur, Chennai 600061 [Tel (044) 2224-2133 (R)]; SC: I.

1989 : PASSI, Inder Bir Singh (b 1939), PhD (Exon), Sp: Algebra; FASc, FNASc, Professor Emeritus, Panjab University and Honorary Professor, Indian Institute of Science Education and Research, Mohali; Centre for Advanced Study in Mathematics, Panjab University, Chandigarh 160014; 381 Sector 38A, Chandigarh 160014 [Tel (0172) 466-8381 (R), 98-724-48638 (M); Email ibspassi@yahoo.co.in]; Medal: PC Mahalanobis (2011); Council: Mem 2015-; SC: I.

2015 : PATHAK, Himanshu (b 1965), PhD, Sp: Agricultural Sciences; FNAAS, Professor & Principal Scientist, Centre for Environment Science and Climate Resilient Agriculture, Indian Agricultural Research Institute, New Delhi 110012; 6C, Scientist Apartment, Indian Agricultural Research Institute, New Delhi 110012 [Tel (011) 2584-2454 (O), 98-992-47590 (M); Fax 2584-1801; Email hpathak.iari@gmail.com]; SC: XII.

2009 : PATHAK, Kare Narain (b 1941), PhD, Sp: Condensed Matter Physics, Solid State Physics; FASc, FNASc, formerly VC & Professor Emeritus, INSA Senior Scientist, Department of Physics, Panjab University, Chandigarh 160014 [Tel (0172) 253-4468 (O), 269-9944 (R); Fax 278-3336; Email pathak@pu.ac.in, knpathak26@gmail.com]; Council: Mem 2014-; SC: II.

1992 : PATNAIK, Lalit Mohan (b 1946), PhD, DSc, Sp: Computer Science and Engineering, Electronics & Information Technology; FASc, FNASc, FNAE, FTWAS, Honorary Professor, Department of Electronics Systems Engineering, Indian Institute of Science, Bengaluru 560012; formerly VC, Defence Institute of Advanced Technology, Pune; Apartment No 313, Srinket Apts, 19/8, First Cross, MS Ramaiah College Road, Mathikere, Bengaluru 560054 [Tel (080) 2293-2520, 2293-2246 (O), 2360-2635 (R); Email patnaiklm@yahoo.com, lalitblr@gmail.com]; Council: Mem 2004-06; SC: V.

2016 : PATRA, Amit Kumar (b 1966), PhD, Sp: Atmospheric and Ionospheric Physics, Radar Probing Techniques; FASc, Scientist-SG, National Atmospheric Research Laboratory, PO Box 123, Tirupati 517502; E3 NARL Quarters, Prakasam Nagar, SV University Campus Post, Tirupati 517502 [Tel (08585) 272-010 (O), 87-722-48805 (R), 99-596-71098 (M); Fax 272-018; Email akpatra@narl.gov.in]; SC: IV.

1993 : PAUL, Dalim Kumar (b 1939), PhD (Leeds), DSc (Cal), Sp: Geochemistry, Isotope Geology and Petrology; FTWAS, INSA Honorary Scientist, Department of Geology, Presidency College, Kolkata 700073; formerly Director, ISM, Dhanbad; DDG, Geological Survey of India; BF 217, Salt Lake, Kolkata 700064 [Tel (033) 2219-2636 (O), 2337-4673 (R), 98-307-74160 (M); Email dalimpaul@yahoo.co.in]; SC: IV.
2004 : PENTAL, Deepak (b 1951), PhD, DSc (hc) Sp: Breeding of Mustard, Transgenic Crops; FASc, FNASC, FNAAS, Director, Centre for Genetic Manipulation of Crop Plants, University of Delhi, South Campus, New Delhi 110021; Type VB-7, University of Delhi, South Campus, Benito Juarez Road, New Delhi 110021 [Tel (011) 2411-2609, 2411-5203 (O), 2411-2768 (R); Fax 2411-6392; Email dpental@gmail.com]; Visiting Fellowship: JL Nehru Birth Centenary (2008); Council: Mem 2006-08; SC: XII.

2005 : PERIASAMY, Mariappan (b 1952), PhD, Sp: Organic Chemistry, Organometallics and Chiral Reagents Chemistry; FASc, Professor, School of Chemistry, University of Hyderabad, Central University PO, Hyderabad 500046; 158, Doyens Township, Serilingampally, RR District, Hyderabad 500019 [Tel (040) 2313-4814 (O), 2301-0904 (R), Fax 2301-2460; Email mpsc@uohyd.ernet.in, mariappan.periasamy@gmail.com]; Lecture: Professor S Swaminathan 60th Birthday Commemoration (2010); SC: III.

2004 : PERIASAMY, Nallagounder (b 1946), PhD, Sp: Physical Chemistry; FASc, FNASC, Flat No 303 Golf Manor, 126 NAL Wind Tunnel Road, Murugeshpalaya, Bengaluru 560017 [Tel 97-419-12592 (M); Email peri46@gmail.com]; Lecture: Professor RK Asundi Memorial (2009); SC: III.

1986 : PILLAI, Madathil Keralakurup Krishna (b 1932), PhD, Sp: Medical Entomology & Environmental Toxicology; formerly Professor & Head, Department of Zoology, University of Delhi, Delhi; 47, Anupam Apartments, B-13, Vasundhara Enclave, Delhi 110096 [Tel (011) 2261-0894 (R), 99-993-33412 (M)]; SC: VIII.

2016 : PRADEEP, Thalappil (b 1963), PhD, Sp: Molecular and Nanoscale Materials, Nanoscience and Nanotechnology, Molecular Surfaces, Low Energy Ion Scattering, Instrumentation, Water Purification; FASc, FNAE, FNASC, FRSC, Institute Professor, Department of Chemistry, Indian Institute of Technology Madras, Chennai 600036; C4, Third Loop Road, IIT Campus, Chennai 600036 [Tel (044) 2257-4208 (O), 2257-6208 (R), 94-455-60767 (M); Fax 2257-0545/0509; Email pradeep@iitm.ac.in; Web http://www.dstuns.iitm.ac.in/pradeep-research-group.php]; SC: III.

2012 : PRADHAN, Akshay Kumar (b 1956), PhD, Sp: Plant Genetics and Molecular Plant Breeding; FNASC, FNAAS, Professor, Department of Genetics, University of Delhi, South Campus, Benito Juarez Road, New Delhi 110021; 1052, Joy Apartment, Plot No 2, Sector 2, Dwarka Phase 1, New Delhi 110075 [Tel (011) 2411-2322 (O), 98-717-48739 (M); Fax 2411-6392, 2411-2761; Email pradhancgmcp@gmail.com]; SC: XII.

2015 : PRADIP (b 1956), PhD, Sp: Materials Science and Mineral Engineering, Particle Science and Technology; FNAE, Foreign Fellow, NAE (USA), Vice-President, Tata Consultancy Services (TCS), Chief Scientist and Head, Process Engineering Innovation Lab, Tata Research Development & Design Centre (a division of TCS), 548, Hadapsar Industrial Estate, Pune 411013; A3/504, Oxford Village Classic, Wanowrie, Pune 411040 [Tel (020) 6608-6209 (O), 6522-6764 (R), 92-255-18568 (M); Fax 6608-6399; Email pradip.p@tcs.com]; SC: VI.
1984 : PRAKASA RAO, Bhagavatula Lakshmi Surya (b 1942), PhD, Sp: Mathematical Statistics; FASc, FNASc, Ramanujan Chair Professor, CR Rao Advanced Institute of Mathematics, Statistics & Computer Science, University of Hyderabad Campus, Prof. C. R. Rao Road, Gachibowli, Hyderabad 500046; formerly Distinguished Scientist and Director, Indian Statistical Institute, Kolkata; Apt 510, House No 1-1-770/A, Vishnu Residency, C Block, Gandhi Nagar, Hyderabad 500080 [Tel (040) 6463-1799 (O), 2766-0162 (R), 99-491-85041 (M); Email blsprao@gmail.com]; Council: Ed Pub 1991-93; SC: I.

1983 : PRAKASH, Satya (b 1929), PhD, Sp: Plasma Physics, Upper Atmospheric Physics and Space Borne Payloads; FASc, FNASc, formerly Senior Professor, Upper Atmosphere and Space Physics, PRL, Navrangpura, Ahmedabad; 395, Saraswati Nagar, Near Azad Society, Ahmedabad 380015 [Tel (079) 2674-1823 (R), 94-292-05470 (M); Email sprakash_prl@yahoo.com]; SC: II.

2003 : PRASAD, Dipendra (b 1960), PhD (Harvard), Sp: Automorphic Form, Number Theory; FASc, FNASc; Professor, School of Mathematics, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400005; 901, Bhaskara, TIFR Housing Colony, Homi Bhabha Road, Mumbai 400005 [Tel (022) 2278-2236 (O), 2278-3236 (R), 99-309-88824 (M); Fax 2280-4610; Email dprasad@math.tifr.res.in, dipendra_pd@yahoo.com]; SC: I.

1982 : PRASAD, Gopal (b 1945), PhD, Sp: Lie & Algebraic Groups; FASc, Raoul Bott Professor, Department of Mathematics, University of Michigan, Ann Arbor, MI 48109, USA; formerly Professor, School of Mathematics, TIFR, Mumbai; 2863 Leslie Park Cir., Ann Arbor, MI 48105, USA [Tel (734) 764-0372 (O), (734) 585-5487 (R); Fax 763-0937; Email gprasad@umich.edu]; SC: I.

2006 : PRASAD, Guntupalli Veera Raghavendra (b 1958), PhD, Sp: Vertebrate Palaeontology, Biostratigraphy, Palaeobiogeography, Evolution of Mesozoic Mammals; Professor, Department of Geology, Centre for Advanced Studies, University of Delhi, Delhi 110007; A-I/8, Type V Quarters, University of Delhi, Maurice Nagar, Delhi 110007 [Tel (011) 2766-7073 (O), 2766-2568 (R), 98-682-07140 (M); Email guntupalli.vrprasad@gmail.com, pguntupalli@rediffmail.com]; SC: IV.

1987 : PRASAD, Phoolan (b 1944), PhD, Sp: Theory of Wave Propagation, Partial Differential Equations & Fluid Dynamics; FASc, FNASc, NASI-Senior Scientist Platinum Jubilee Fellow, Department of Mathematics, Indian Institute of Science, Bengaluru 560012; 927-28, 7th Cross, HMT Layout, Mathikere PO, Bengaluru 560054 [Tel (080) 2293-2711/2265 (O), 2337-1039 (R), 94-484-61299 (M); Fax 2360-0146; Email prasad@math.iisc.ernet.in; Web http://www.math.iisc.ernet.in/~prasad]; SC: I.

1990 : PRASAD, Rajendra (b 1936), PhD (Mississippi State), Sp: Agronomy, Soil Fertility & Fertilizers, Cropping Systems; FNASc, FNAAS, INSA Honorary Scientist, formerly ICAR National Professor, Division of Agronomy, IARI, New Delhi; 6695 Meghan Rose Way, East Amherst, NY 14051, USA [Tel (+1) 716-868-1540 (R); Email rajuma36@gmail.com]; SC: XII.
2002: **PRASAD, Rajendra** (*b* 1947), PhD, Sp: Membrane Biology, Biochemistry, Fungal Genetics; FASc, FNASC, Director, *Amity Institute of Integrative Sciences and Health & Amity Institute of Biotechnology*, Amity University Haryana, Amity Education Valley, Gurgaon 122413; D-2-002, The Legend, Sector 57, Sushant Lok, Phase-III, Gurgaon 122001 [Tel (0124) 233-7015 Ext 1111 (O), 257-3443 (R); Email rprasad@ggn.amity.edu, rp47jnu@gmail.com; Web http://www.jnu.ac.in/FacultyStaff/ShowProfile.asp?SendUserName=rp]; **Council:** VP 2014--; SC: X.

1994: **PRASAD, Surendra** (*b* 1948), PhD, Sp: Signal Processing & Communications; FASc, FNAE, Professor, *Department of Electrical Engineering, Indian Institute of Technology, Hauz Khas*, New Delhi 110016 [Tel (011) 2659-6201 (O), 2658-2022, 2659-1801 (R); 98-103-50517 (M); Fax 2658-2659; Email sprasad@ee.iitd.ernet.in]; **Lecture:** KS Krishnan Memorial (2010); **Council:** VP 2002-04; SC: V.

1990: **PRASAD, Yellapregada VRK** (*b* 1944), PhD, Sp: Metallurgical Engineering-Mechanical Metallurgy & Processing; formerly Professor, *Department of Materials Engineering, Indian Institute of Science, Bengaluru 560012*; B/2, Hospital Ext, Vinayakanagar Layout, Hebbal, Bengaluru 560024 [Tel (080) 2333-0673, Email prasad_yvrk@hotmail.com]; **SC:** V.

1994: **PRASADA RAO, Palle Deva** (*b* 1941), PhD, Sp: Neuro-endocrinology, Neurobiology & Fisheries; FNASC, INSA Honorary Scientist, National Environmental Engineering Research Institute, Nagpur; formerly Professor & Head, Department of Zoology, Nagpur University, Nagpur; 9-Deotale Layout, Nagpur 440033 [Tel (0712) 224-9010 (R), 94-236-32159 (M); Email prasadaopd@yahoo.com, rao_pdp@neeri.res.in]; **Lecture:** Professor Har Swarup Memorial (2014); **SC:** VIII.

1999: **PRATHAP, Gangan** (*b* 1951), PhD, Sp: Computational Mechanics, Informetrics; FASc, Outstanding Scientist, *National Institute for Interdisciplinary Science and Technology, Thiruvananthapuram 695019*; formerly Director, National Institute of Science Communication and Information Resources, New Delhi; 56, Pebble Gardens, Njandoorkonam, Thiruvananthapuram 695587 [Tel (0471) 251-5268 (O); Email gp@niist.res.in; Web http://www.niist.res.in]; **SC:** V.

2012: **PURI, Sanjay** (*b* 1961), PhD, Sp: Physical Sciences; FASc, Professor, *School of Physical Sciences, Jawaharlal Nehru University, New Delhi 110067*; 106, Uttarakhand, JNU, New Delhi 110067 [Tel (011) 2670-4634 (O), 98-185-52477 (M); Fax 2671-7537; Email puri@mail.jnu.ac.in, purijnu@gmail.com]; **Medal:** INSA Young Scientist (1993); **SC:** II.

1995: **PUROHIT, Aditya Narain** (*b* 1940), PhD, Sp: Environmental Plant Physiology, Physiology and Biochemistry of Medicinal Plants; FNASC, FNAAS, formerly Director and VC, *HAPPRC, HNB Garhwal University*, Srinagar Garhwal 246174, Uttarakhand; “Almi Anchal”, 181/1, Dobhalwala, Dehradun 248001 [Tel (0135) 271-3219 (R); Email adityapurohit19@gmail.com]; **Council:** Mem 2000-02; SC: XII.
2014 : QADRI, Ayub (b 1960), PhD, Sp: Immunology; Staff Scientist VI, National Institute of Immunology, Aruna Asaf Ali Marg, New Delhi 110067; L-4, National Institute of Immunology, Aruna Asaf Ali Marg, New Delhi 110067 [Tel (011) 2670-3733 (O), 99-101-72191 (M); Fax 2674-2125; Email qadriaayub@gmail.com]; SC: IX.

2014 : RADHAKRISHNAN, Jaikumar (b 1964), PhD, Sp: Theoretical Computer Science, Complexity Theory, Discrete Mathematics; FASc, Professor (H), School of Technology and Computer Science, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400005; 201 Meghnad, TIFR, Homi Bhabha Road, Mumbai 400005 [Tel (022) 2278-2311, 2280-4647 (O), 2278-3311 (R), 90-046-80293 (M); Fax 2278-2299; Email jaikumar@tifr.res.in; Web http://www.tcs.tifr.res.in/~jaikumar]; SC: I.

2010 : RADHAKRISHNAN, Thavarool Puthiyedath (b 1960), PhD, Sp: Materials Chemistry; FASc, FNASc, Professor, School of Chemistry, University of Hyderabad, Hyderabad 500046; A-308, Aparna Cyber Commune, Nallagandla, Hyderabad 500019 [Tel (040) 2313-4827, 2301-1068 (O), 2980-2989 (R); Fax 2301-2460; Email tpr@uohyd.ac.in, tprsc@uohyd.ernet.in]; Medal: INSA Young Scientist (1992); SC: III.

1978 : RAGHAVAN, Srinivasacharya (b 1934), PhD, Sp: Number Theory & Automorphic Functions; FASc, formerly Senior Professor of Mathematics, TIFR, Mumbai; 1A, Abhinaya Apartments, 14(New), Sastrinagar First Avenue, Adyar, Chennai 600020 [Tel (044) 2491-4963 (R), 99-629-59466 (M); Email ragrad@gmail.com]; Council: Mem 1981-83; SC: I.

2002 : RAGHAVENDRA, Agepati Srinivasa (b 1950), PhD, Sp: Molecular Plant Physiology and Plant Biochemistry; FASc, FNASc, FNAAS, FTWAS, Professor, School of Life Sciences, Department of Plant Sciences, University of Hyderabad, Hyderabad 500046; Flat M-1701, Aparna Sarovar, Nallagandla, Hachibowli, Hyderabad 500046 [Tel (040) 2301-0630 (O), 6776-6124 (R); Fax 2301-0120; Email asrsl@uohyd.ernet.in, asrsls@gmail.com]; Medal: INSA Young Scientist (1977); Lecture: Professor TS Sadasivan (2006); Council: Mem 2010-12; SC: VII.

1975 : RAGHUNATHAN, Madabusi Santanam (b 1941), PhD, Sp: Lie Groups, Algebraic Groups, Discontinuous Groups; FASc, FNASc, FTWAS, FRS, Distinguished Guest Professor and Head National Mathematics Centre, Department of Mathematics, Indian Institute of Technology Bombay, Powai, Mumbai 400076; 503, Atlantis, Raheja Acropolis-1, Deonar Pada Road, Chembur, Mumbai 400088 [Tel (022) 2576-9453 (O), 2550-4766 (R); Fax 2572-3480; Email mrs@math.iitb.ac.in]; Professorship: INSA-SN Bose Research Professor (1994-96); Medal: Srinivasa Ramanujan (1991); Aryabhata (2006); Council: Mem 1984-86; SC: I.

2010 : RAI, Lal Chand (b 1950), PhD, Sp: Phycology, Microbiology, Abiotic Stress Proteomics and Genomics of Cynobacteria; FNASc, FNAAS, JC Bose National Fellow, formerly Head & Coordinator, Centre of Advanced Study in Botany, Molecular Biology Section, Banaras Hindu University, Varanasi 221005; B 30/486 27-28, Mani Niketan, Madhav Market, Lanka, Varanasi 221005 [Tel (0542) 670-1110 (O), 236-7520 (R), 94-152-25821 (M); Fax 236-8174; Email lcrbhu15@gmail.com, lcrai@bhu.ac.in]; Medal: Professor SB Saksena Memorial (2011); SC: VII.
2009: **RAI, Shyam Sundar** (b 1954), PhD, Sp: Geophysical System Modelling, Tectonophysics and Electromagnetic Exploration; FASc, FNASc, Chief Scientist, CSIR-National Geophysical Research Institute, Uppal Road, Hyderabad 500007; Professor and Chair, Earth and Climate Science Programme, Indian Institute of Science Education & Research, Homi Bhabha Road, Pune 411008; VI/1, NGRI Colony, Uppal Road, Hyderabad 500007 [Tel (040) 2343-4627, 2343-4815 (R), 94-904-61705 (M); Fax 2717-1564, 2343-4651; Email shyamsrai@iiserpune.ac.in, shyamsrai@gmail.com]; SC: IV.

2005: **RAINA, Satish Kumar** (b 1947), PhD, Sp: Agricultural Biotechnology; Chief Advisor, Nath Biogene (India) Ltd., Nath House, Nath Road, PB No 318, Anurangabad 431005 [Tel (0240) 237-6314-17 (EPBX), 237-6586 (O), 235-6907 (R), 93-262-08377 (M); Fax 237-6188]; SC: XII.

1981: **RAJA GOPAL, Erode Subramanian** (b 1936), PhD, DSc (hc) Sp: Low Temperature & Solid State Physics; FASc, FNASc, Emeritus Scientist, Department of Physics, Indian Institute of Science, Bengaluru 560012; formerly Director NPL; 100/1, XI Cross, 7th Main Corner, Malleswaram, Bengaluru 560003 [Tel (080) 2293-2529 (O), 2334-7449 (R), 98-800-93745 (M); Fax 2360-2620, 2360-0683, 2360-0085; Email gopal@physics.iisc.ernet.in]; Medal: HJ Bhabha (1993); INSA Honorary Scientist (2006); SC: II.

2015: **RAJAM, Manchikatla Venkat** (b 1955), PhD, Sp: Plant Biotechnology, Polyamine Physiology and RNA Interference; FNASc, FNAAS, Professor & Head, Department of Genetics, University of Delhi, South Campus, Benito Juarez Marg, New Delhi 110021; Flat No. 2E, Shivalika Apartments, Sector 9, Plot No. 16, Dwarka, New Delhi 110075 [Tel (011) 2411-0866 (O), 2507-5497 (R), 98-181-08515 (M); Fax 2411-2437; Email venkat.rajam@south.du.ac.in, rajam.mv@gmail.com]; SC: VII.

1999: **RAJAMANI, Vedharaman** (b 1944), PhD, Sp: Geochemistry; FASc, Emeritus Professor, School of Environmental Sciences, Jawaharlal Nehru University, New Delhi 110067; 1209, Sector A, Pocket B, Vasant Kunj, New Delhi 110070 [Tel (011) 2610-7676 Ext 4311, 2670-4311 (O), 2689-3159 (R), 99-101-81299 (M); Fax 2616-5886; Email rajav1946@gmail.com]; Council: Mem 2012-14; SC: IV.

2012: **RAJAN, Balaji Sundar** (b 1958), PhD, Sp: Electrical Engineering (Communications); FNASc, FNAE, INAE Chair Professor, Department of Electrical Communication Engineering, Indian Institute of Science, Bengaluru 560012; E-19, New Housing Colony, IISc Campus, Bengaluru 560012 [Tel (080) 2293-2254 (O), 2360-2085 (R), 98-459-88753 (M); Fax 2360-0563; Email bsrajan@ece.iisc.ernet.in, bsrajanb@yahoo.com]; SC: V.

2015: **RAJAN, Conjeeveram Srirangachari** (b 1961), PhD, Sp: Arithmetic Geometry, Automorphic forms, Representation theory; FASc, Professor (H), School of Mathematics, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400005; 907 Bhaskara, TIFR Colony, Homi Bhabha Road, Mumbai 400005 [Tel (022) 2278-2665 (O), 2280-4643 (R), 98-690-63353 (M); Fax 2280-4610; Email rajan@math.tifr.res.in]; SC: I.
1985: RAJAPPAR, Srinivasachari (b 1934), PhD, Sp: Organic Chemistry; FASc, B-1, Melody Apts, Plot No 12, ICS Colony, Pune 411007 [Tel (020) 2553-6395 (R); Email p_rajappa@vsnl.com]; SC: III.

1985: RAJARAMAN, Ramamurti (b 1939), PhD, Sp: Theoretical Physics, Nuclear Policies; FASc, Emeritus Professor of Theoretical Physics, School of Physical Sciences, Jawaharlal Nehru University, New Delhi 110067; B-2395, Sector B, Pocket 28&3, Vasant Kunj, New Delhi 110070 [Tel (011) 2670-4785 (O), 2612-3485 (R), 98-181-60651 (M); Email doug0700@mail.jnu.ac.in, doug1968@hotmail.com]; Medal: SN Bose (1995); Lecture: Dr GP Chatterjee Memorial (1989); Council: Mem 2004-06, VP 2010-12; SC: II.

1982: RAJARAMAN, Vaidyeswaran (b 1933), PhD, DSc (hc), Sp: Computer Science; FASc, FNASC, FNAE, Honorary Professor, Supercomputer Education and Research Centre, Indian Institute of Science, Bengaluru 560012; 140, 6th Main, 6th Cross Road, JRD Tata Nagar, Near Kodigehalli, Bengaluru 560092 [Tel (080) 2360-0805, 2360-0811, 2293-2532 (O), 2341-9672 (R); Fax 2360-0805; Email rajaram@serc.iisc.ernet.in]; Medal: SH Zaheer (1998); Council: Mem 1986-88; SC: V.

1985: RAJASEKARAN, Guruswamy (b 1936), PhD, Sp: High Energy Physics & Quantum Field Theory; FASc, FNASC, Institute of Mathematical Sciences, CIT Campus, Chennai 600113; 20, XI Cross Street, Indira Nagar, Chennai 600020 [Tel (044) 2254-1856 (O), 2441-3395 (R); Fax 2254-1586; Email graj@imsc.res.in]; Medal: SN Bose (1998); SC: II.

2012: RAJASEKHARAN, Ram (b 1960), PhD, Sp: Plant Lipid Metabolism; FASc, FNASC, FNAAS, Director, CSIR-Central Food Technological Research Institute, Cheluvamba Mansion, Mysore 570020 [Tel (0821) 251-7760 (O), 94-832-51260 (M); Fax 251-6308; Email ram@cftri.com]; SC: VII.

1988: RAMA (b 1929), PhD, Sp: Isotope Hydrology; FASc, FNAAS, formerly Professor, TIFR, Mumbai & Emeritus Scientist (CSIR), NGRI, Hyderabad; Y-4, Sec 9, CBD, New Mumbai 400614 [Tel (022) 2757-0081 (R); Email rama139@yahoo.co.in]; SC: IV.

1986: RAMA RAO, Alla Venkata (b 1935), PhD (Tech), DSc, Sp: Organic Chemistry, Medicinal Chemistry, Drug Technology, Chiral Synthesis & Technology and Natural Products; FASc, FTWAS, Director, A V Rama Rao Research Foundation, Chairman & Managing Director, Avra Laboratories Pvt. Ltd., Avra House, 7-102/54 Sai Enclave, Habsiguda, Hyderabad 500007, formerly Director, IICT, Hyderabad [Tel (040) 2717-9147, 2715-0856 (O), 2717-3360 (R); Fax 2717-5605, 2717-9149; Email ramarao@avralab.com; Web http://www.avramarao.com]; Medal: Vishwakarma (1991); Council: Mem 1995-97; SC: III.
1974: RAMACHANDRA, Kanakanahalli (b 1933), PhD, Sp: Classical Analytic Theory of Numbers; FASc, FNASC, INSA Honorary Scientist and Honorary Visiting Professor, NIAS, IISc, Bengaluru; formerly Senior Professor, School of Mathematics, Mumbai; 955, Selberg House, II Cross, III Main (D-Block), Rajaji Nagar II Stage, Bengaluru 560010 [Tel (080) 2218-5000, 2218-5123 (O); Fax 2218-5028]; Medal: Srinivasa Ramanujan (1997); INSA Senior Scientist (1998-2000); SC: I.

1974: RAMACHANDRAN, Arcot (b 1923), PhD, Dr Ing (hc), DSc (hc), Sp: Thermal Engineering & Heat Transfer; FASc, FNAE, formerly Under Secretary General, UN Centre for Human Settlements (Habitat), Secretary, DST & DG, CSIR, Chairman, TERI, New Delhi; 3, Crescent Road, High Grounds, Bengaluru 560001 [Telefax (080) 2225-5780 (R); Email arcotsusila@gmail.com]; Council: Ad Mem 1974-78; SC: V.

1989: RAMACHANDRAN, Balasubrahmanyan (b 1932), PhD (USA), Sp: Analytical Probability Theory; formerly Professor, ISI, New Delhi; “Kaveri”, No. 29, Fourth Cross Street, RK Nagar, Chennai 600028 [Tel (044) 2461-8280 (R); Email brama1933@yahoo.com]; INSA Senior Scientist (1993-97); SC: I.

2016: RAMADAS, Trivandrum Ramakrishnan (b 1955), PhD, Sp: Algebraic and Differential Geometry, Mathematical Physics; FASc, Distinguished Professor, Chennai Mathematical Institute, H1 SIPCOT IT Park, Siruseri, Kelambakkam 603103; 17F Jasper, Olympia Opaline, Navalur 600130 [Tel (044) 6748-0941 (O), 87-545-76434 (M); Email ramadas@cmi.ac.in]; SC: I.

1970: RAMAIAH, Nanduri Atchuta (b 1923), PhD, Sp: Physical Chemistry & Sugar Chemistry; formerly Director, National Sugar Institute, Kanpur; 14 Ocean View Layout, Vishakhapatnam 530003 [Tel (0891) 561-225 (R)]; SC: III.

2009: RAMAKRISHNA, Balakrishnan Siddartha (b 1952), MD, DM (Gastro), PhD, Sp: Gastroenterology; FASc, FAMS, Professor of Gastroenterology and Head, Clinical Gastroenterology and Hepatology Unit, Department of Gastrointestinal Sciences, Christian Medical College, Vellore 632004; 441, Janatha Road, CMC Campus, Vellore 632002 [Tel (0416) 228-2052 (O), 228-4233 (R); Fax 223-2035; Email rama@cmcvellore.ac.in]; SC: XI.

1992: RAMAKRISHNAN, Chandrasekharan (b 1939), PhD, Sp: Molecular Biophysics; FASc, Professor (Retd.), Molecular Biophysics Unit, IISc, Bengaluru 560012; Kausthubam, 212, 7th Cross 6th Main, Tata Nagar, Bengaluru 560092 [Tel (080) 2293-3452 (O), 2351-7566 (R), 98-457-52493 (M); Email ramkisak@yahoo.co.in, ramkicyc@gmail.com]; SC: X.
1980 : RAMAKRISHNAN, Palayanoor Sivaswamy (b 1936), PhD, Sp: Ecology & Sustainable Development; FASc, FNASc, FNAAS, FTWAS, INSA Honorary Scientist, School of Environmental Sciences, Jawaharlal Nehru University, New Delhi 110067; I-21, South City Phase I, Gurgaon 122001 [Tel (011) 2670-4326 (O), (0124) 408-5970 (R), 99-585-14140 (M); Fax 2674-1262; Email psr@mail.jnu.ac.in, krishnanpoonam@gmail.com]; Lecture: JL Nehru Birth Centenary (1994); Council: Mem 1992-93; SC: VII.

1984 : RAMAKRISHNAN, Tiruppattur Venkatachalamurti (b 1941), PhD (Columbia), Sp: Theoretical Condensed Matter Physics and Statistical Mechanics; FASc, FTWAS, FRS, DAE Homi Bhabha Chair, Department of Physics, Banaras Hindu University, Varanasi 221005; DG/G-3, BHU Campus, Varanasi 221005 [Tel (0542) 2367-005 (O), 2367-008 (R); Email tvrama@bhu.ac.in]; Professorship: INSA-Srinivasa Ramanujan Research Professor; Lecture: KS Krishnan Memorial (1995); Visiting Fellowship: JL Nehru Birth Centenary (2006); Council: VP 2001-03; SC: II.

1988 : RAMAMURTHI, Rallapalli (b 1936), PhD, DSc, Sp: Animal Physiology, Biodiversity & Environmental Biology; FNASc, FNAAS, FNAE, INSA Honorary Scientist, Department of Fishery Science and formerly VC, S.V. University, Tirupati; Chairman, Regional Centre of Expertise at Tirupati on Education for Sustainable Development, U.N. University, Tokyo; Distinguished Scientist, Academy of Gandhian Studies; A-9 Vaikuntapuram, MR Palli, Tirupati 517502 [Tel (0877) 224-1907 (O), 98-494-88390 (M); Fax 224-2079; Email rrallapallius@yahoo.com, gauthama.rallapalli@gmail.com]; Council: Ad Mem 2008, 2012; SC: VIII.

2013 : RAMAMURTHY, Thandavarayan (b 1953), PhD, Sp: Microbiology and Molecular Microbiology; FNASc, National Chair, Translational Health Science and Technology Institute (THSTI), PO Box no #04, Faridabad 121001; A-13, Cluster IX, Purvanchal Housing Estate, Sector III, Salt Lake City, Kolkata 700091 [Tel (0129) 287-6473 (O), 94-321-14945 (M); Fax 287-6500; Email tramu@thsti.res.in, rama1murthy@yahoo.com]; SC: IX.

1987 : RAMAMURTHY, Valangiman Subramanian (b 1942), PhD (Bombay), Sp: Nuclear Physics, Atomic, Molecular, Ion Beam Applications & Science & Technology Policy; FASc, FNASc, FNAE, FTWAS, Hon. FIETE, Director, National Institute of Advanced Studies, IISc Campus, Bengaluru 560012; formerly Secretary, DST, New Delhi [Tel (080) 2360-1969, 2218-5075 (O), 2351-5920 (R), 99-000-02178 (M); Fax 2218-5076, 2573-3804; Email vsramamurthy@nic.in, vsramamurthy@nias.iisc.ernet.in]; Medal: Meghnad Saha (2009); Council: Ad Mem 1996-2006; SC: II.

1990 : RAMAMURTI, Viswanatha (b 1938), MTech, PhD, Sp: Mechanical Engineering, Stress Analysis, Vibration; FASc, FNAE, formerly Professor IIT Madras; Old No 2, New No.5, Fourth Main Road, Kasturba Nagar, Chennai 600020 [Tel (044) 2441-2590 (R), 98-846-62621 (M); Email ramamurti@hotmail.com]; Medal: SH Zaheer (1995); Lecture: Dr Biren Roy Memorial (2007); Council: Mem 1995-97; SC: V.
2012 : RAMAMURTY, Upadrasta (b 1967), PhD, Sp: Mechanical Behavior of Materials, Advanced Materials and Nanotechnology; FASc, FNAE, Professor, Department of Materials Engineering, Indian Institute of Science, Bengaluru 560012; # EV 201, Vigyanapura, New BEL Road, Sanjaynagar, Bengaluru 560094 [Tel (080) 2293-3241 (O), 97-314-40608 (M); Fax 2360-0472; Email ramu@materials.iisc.ernet.in, satwiku@gmail.com]; SC: V.

1998 : RAMAN, Rajiva (b 1948), PhD, Sp: Molecular Cytogenetics, Human Genetics; FASc, FNASc, formerly Professor and CSIR Emeritus Scientist, Department of Zoology, Banaras Hindu University, Varanasi 221005; 8, Mahamana Puri, PO BHU, Varanasi 221005 [Tel (0542) 670-2522 (Lab), 257-0967 (R); Telefax 236-8174, 236-8457; Email rajiva.raman@gmail.com, raman@bhu.ac.in]; Medal: SL Hora (2005); Council: Mem 2007-09; SC: VIII.

1985 : RAMANAMURTHY, Poolla Venkata (b 1929), PhD, Sp: High Energy Astrophysics & Cosmic Rays; formerly Senior Professor, TIFR, Mumbai; Flat 704, Vigyan, Plot 23, Sector 17, Vashi, Navi Mumbai 400703 [Tel (022) 2789-9065 (R); Email pvrmurthy@yahoo.com]; SC: II.

1977 : RAMANAN, Sundararaman (b 1937), PhD, Sp: Algebraic & Differential Geometry; FASc, FNA, Adjunct Professor, Chennai Mathematical Institute, Visiting Professor, Institute of Mathematical Sciences, Chennai 600113; formerly Distinguished Professor, TIFR, Mumbai [Tel (044) 2254-3376 (O), 2434-1169 (R), 94-445-49919 (M); Email sramanan@cmi.ac.in, ramanan@imsc.res.in]; Council: Mem 1993-95; SC: I.

2005 : RAMASAMI, Thirumalachari (b 1948), PhD, Sp: Inorganic and Leather Chemistry; FASc, FNASC, FNAE, FTWAS, formerly Secretary, Department of Science and Technology, Government of India; B-5, Lake View Road, IIT Staff Quarters, Chennai 600036 [Tel 98-182-28329 (M); Email samisrisailam@gmail.com]; Medal: Meghnad Saha (2012); Council: Ad Mem 2007-10; SC: III.

1989 : RAMASARMA, Tangirala (b 1932), PhD, Sp: Biochemistry, Biological Oxidation; INSA Honorary Scientist, formerly Professor, Biochemistry Department, IISc, Bengaluru; 408 Shashikiran Apts, 18th Cross, Malleswaram, Bengaluru 560055 [Tel (080) 2293-2309 (O), 2334-6134 (R); Email ramasarma_1932@ rediffmail.com, trs@biochem.iisc.ernet.in]; SC: X.

2005 : RAMASESHA, Suryanarayana Sastry (b 1950), PhD, Sp: Theoretical Chemistry; FASc, FTWAS, Honorary Professor, Solid State and Structural Chemistry Unit, Indian Institute of Science, Bengaluru 560012; DQ-9, Duplex Quarters, Indian Institute of Science Campus, Malleshwaram, Bengaluru 560012 [Tel (080) 2293-2925 (O), 2360-2068 (R); Fax 2360-1310; Email ramasesh@sscuiisc.ernet.in; Web http://www.sscu.iisc.ernet.in]; Medal: INSA Young Scientist (1978); SC: III.
2008 : RAMASWAMY, Ramakrishna (b 1953), PhD, Sp: Nonlinear Science, Computational Biology and Bioinformatics; FASc, FTWAS, Professor, School of Physical Sciences, Jawaharlal Nehru University, New Delhi 110067 [Tel (011) 2673-8964 (O), 2674-1109 (R), 78-930-93737 (M); Email ramaswamy@jnu.ac.in; Web http://nldsps.jnu.ac.in]; Council: VP 2015--; SC: M.

2004 : RAMASWAMY, Sriram Rajagopal (b 1957), PhD, Sp: Condensed Matter, Statistical and Biological Physics; FASc, Centre Director and Senior Professor, TIFR Centre for Interdisciplinary Sciences, Tata Institute of Fundamental Research, Hyderabad 500075; N-804 Aparna Sarovar, Kanchi Gachibowli Road, Nallagandla, Hyderabad 500019 [Tel (040) 2419-5003 (O), 6776-8933 (R); Fax 2419-5041; Email sriram@tifrh.res.in]; SC: II.

2010 : RAMDORAI, Sujatha (b 1962) PhD, Sp: Algebra, Geometry, Number Theory; FASc, FNASC, Professor, Mathematics Department, University of British Columbia, 1984, Mathematics Road, Vancouver, V6T1Z2; 550/12, Dodsworth Enclave, Borewell Road, 5th Cross Whitefield, Bengaluru 560066 [Tel (080) 2845-0186 (R), 99-200-18274 (M); Email sujatha@math.ubc.ca]; Medal: INSA Young Scientist (1993); Council: Mem 2014--; SC: IV.

2001 : RAMESH, Rengaswamy (b 1956), PhD, Sp: Stable Isotope Palaeoclimatology, Mass Spectrometry, Oceanography; FASc, FNASC, FTWAS, Outstanding Scientist and Project Director, ISRO-GBP, Geosciences Division, Room 265, Physical Research Laboratory, Navrangpura, Ahmedabad 380009; B501, Suryavanshi Towers, b/h Management Enclave, Nehru Park, Vastrapur, Ahmedabad 380015 [Tel (079) 2631-4265 (O), 2676-3980 (R); Fax 2631-4900; Email rramesh@prl.res.in, kartaveeryarjuna@gmail.com; Web http://www.prl.res.in/~stail/ramesh.html]; Medal: INSA Young Scientist (1987); Council: Mem 2014--; SC: V.

2016 : RANADE, Vivek Vinayak (b 1963), PhD, Sp: Chemical Engineering, Multiphase Reactors, Process Intensification, CFD; FASc, FNACE, Deputy Director and Chair, Chemical Engineering & Process Development Division, CSIR-National Chemical Laboratory, Dr Homi Bhaba Road, Pune 411008; 17 Wireless Colony, Aundh, Pune 411007 [Tel (020) 2590-2170 (O), 2590-2404 (R), 98-232-33738 (M); Fax 2590-2621; Email vv.ranade@ncl.res.in]; SC: V.

1994 : RANDHAWA, Harbans Singh (b 1933), PhD, Sp: Medical Mycology, Microbiology; INSA Honorary Scientist, formerly Professor of Medical Mycology and Director, Vallabhbhai Patel Chest Institute, University of Delhi, Post Box No 2101, Delhi 110007; 198 Vaishali, Pitampura, New Delhi 110088 [Tel (011) 2766-7560 (O), 2731-5981 (R), 99-112-35977 (M); Fax 2766-7420; Email hsrandh5@yahoo.co.in, h.rand@yahoo.co.in]; SC: XI.

2006 : RANGANATH, Hassan Annegowda (b 1948), PhD, Sp: Zoology, Genetics and Evolution; FASc, FNASC, Visiting Professor, Division of Biological Sciences, Indian Institute of Science, Bengaluru 560012; Distinguished Professor for Life, University of Mysore; formerly Director, National Assessment and Accreditation Council (NAAC); Vice Chancellor, Bangalore University; No. 221, Centenary Visitors House (CVH), Indian Institute of Science, Bengaluru 560012 [Tel 99-023-00909 (M); Email haranganath@gmail.com]; Medal: INSA Young Scientist (1978); SC: VIII.
1981 : RANGANATHAN, Srinivasa (b 1941), PhD (Cantab), Sp: Physical Metallurgy & Materials Science; FASc, FNASC, FNAE, FTWAS, Distinguished Professor, Department of Materials Engineering, Indian Institute of Science, Bengaluru 560012 [Tel (080) 2360-1198 (O), 2351-8521 (R); Fax 2360-1198; Email rangu2001@yahoo.com, rangu@materials.iisc.ernet.in; Web http://www.materials.iisc.ernet.in/faculty/sr.html]; Lecture: INSA Prize for Materials Science (1991); SC: V.

1981 : RANGANATHAN, Subramania (b 1934), PhD, Sp: Organic Chemistry & Molecular Biology; FASc, FNASC, Distinguished Scientist, CSIR-Indian Institute of Chemical Technology, Uppal Road, Hyderabad 500007; Honorary Professor, JNCASR, Bengaluru; No 3C, IICT Hostel, Hyderabad 500007 [Tel (040) 2719-1648 (O), 2716-0040 (R), 90-000-90847 (M); Fax 2716-0757; Email srgiict@gmail.com]; Award: INSA Teachers Award (2014); Lecture: Professor S Swaminathan 60th Birthday Commemoration (1996); INSA Senior Scientist (1994-99); SC: III.

1989 : RANGASWAMY, Nanjangud Sreekantaiah (b 1932), PhD, Sp: Experimental Embryology & Tissue Culture; FASc, FNASC, formerly Professor, Department of Botany, University of Delhi; KC-29B, Ashok Vihar, Phase I, Delhi 110052 [Tel (011) 2722-2636 (R); Email rlmc68@yahoo.co.in]; SC: VII.

2008 : RANU, Brindaban Chandra (b 1949), PhD, Sp: Organic Synthesis, Green Chemistry; FASc, JC Bose National Fellow, Department of Organic Chemistry, Indian Association for the Cultivation of Science, Jadavpur, Kolkata 700032; E2, Basundhara, 19/922, Raja SC Mullick Road, Kolkata 700086 [Tel (033) 2473-4971 Ext 1404 (O), 2435-0097 (R), 94-330-53856 (M); Fax 2473-2805; Email ocbr@iacs.res.in, bcranu@gmail.com]; SC: III.

1999 : RAO, Addicam Jagannadha (b 1942), PhD, Sp: Reproductive Biology; FASc, FNASC, FAMS, INSA Senior Scientist, Department of Biochemistry, Department of Molecular Reproduction, Development and Genetics, Indian Institute of Science, Bengaluru 560012; 247, 1st Cross, 3rd Main, Hanumanthanagar, Bengaluru [Tel (080) 2293-2308, 2360-8660 (O), 2650-7124 (R); Fax 2360-0814, 2360-8660; Email ajrao@biochem.iisc.ernet.in, ajrao_2000@yahoo.com, ajrao2006@gmail.com]; Lecture: Professor MRN Prasad Memorial (2004); Council: Mem 2015-; SC: VIII.

2010 : RAO, Basuthkar Jagadeeshwar (b 1956), PhD, Sp: Molecular basis of Genome Dynamics Biophysics of Genome Repair Complexes; FASc, FNASC, Senior Professor, Department of Biological Sciences, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400005; 704-Meghnad, TIFR-Housing Colony, Homi Bhabha Road, Mumbai 400005 [Tel (022) 2278-2606, 2278-2255 (O), 2280-4704 (R), 90-045-88909 (M); Fax 2280-4610, 2280-4611; Email bjrao@tifr.res.in]; SC: X.
1954 : RAO, Calympudi Radhakrishna (b 1920), PhD, ScD, DSc (hc), D Litt (hc), Sp: Statistics & Matrix Algebra; FASc, FNASc, FTWAS, FRs, Fellow, NAS US, Lithuanian Acad. Sc, European Acad. of Sc, National Medal of Science Laureate, USA, formerly Director, ISI; Adjunct Professor, University of Pittsburgh; Eberly Emeritus Professor of Statistics, Penn. State Univ; Research Professor, Univ at Buffalo, 29 Old Orchard Street, Williamsville, NY 14221, USA; CRRRAO AIMSCS, University of Hyderabad Campus, Prof CR Rao Road, Hyderabad 500046; 10-2-289/78, Sanjeevani Shantinagar, Hyderabad 500028 [Telefax (040) 2301-3118, 6463-1799 (O), 93-978-06860 (M); Email crr1@psu.edu]; Medal: Meghnad Saha (1969); Srinivasa Ramanujan (2003); Council: Mem 1963-64, VP 1973-74; SC: I.

2016 : RAO, Chebrolu Pulla (b 1954), PhD, Sp: Inorganic Chemistry; FNASc, FASc, Institute Chair Professor, Department of Chemistry, Indian Institute of Technology Bombay, Powai, Mumbai 400076; B-289, Nilgiri, Central Area, IIT Campus, Powai, Mumbai 400076 [Tel (022) 2576-7162 (O), 2576-8162, 2572-6742 (R), 99-690-22554 (M); Fax 2572-3480; Email cpraoo@iitb.ac.in, cpraoo@chem.iitb.ac.in, cpraooiitb@gmail.com]; SC: III.

1974 : RAO, Chintamani Nagesa Ramachandra (b 1934), PhD (Purdue), DSc (Mysore), DSc (hc), ScD (hc), LLD (hc), DLitt (hc) Sp: Solid State Chemistry, Spectroscopy & Molecular Structure; FRS, Foreign Assoc US NAS, Pontifical Acad Sci, French Academy, Japan, Spain, Polish, Brazil, Korean, Russian, Czechoslovakian, Bangladesh, Slovak & Serbian Academies, American Philosophical Soc, African Acad, Royal Soc of Canada; National Research Professor, Linus Pauling Research Professor and Honorary President, Jawaharlal Nehru Centre for Advanced Scientific Research, Jakkur, Bengaluru 560064; formerly Director, IISc, Bengaluru; JNC President’s House, IISc Campus, Bengaluru 560012 [Tel (080) 2365-3075, 2208-2761 (O), 2360-1410 (R); Fax 2208-2760; Email cnrrao@jnca.or.ac.in; Web http://www.jnca.or.ac.in/cnrrao]; Professorship: INSA-Albert Einstein Research Professor (1995-99); Medal: SN Bose (1980), Meghnad Saha (1990); INSA Medal for Promotion & Service to Science (2006); Lecture: Blackett Memorial (1990); DS Kothari Memorial (2002); Council: Mem 1976-78, VP 1983-84, Pres 1985-86, Ad Mem 1987-88; SC: III.

2007 : RAO, Desirazu Narasimha (b 1954), PhD, Sp: Protein-DNA Interactions; FASc, FNASc, Professor, Department of Biochemistry, Indian Institute of Science, Bengaluru 560012; 35/2, 1st Floor, 4th Cross, RM V Extension, Bengaluru 560080 [Tel (080) 2293-2538, 2293-2478 (O), 2361-1677, 2293-3009 (R); Fax 2360-0683, 2360-0814; Email dnrao@biochem.iisc.ernet.in]; SC: X.

1986 : RAO, Kalya Jagannatha (b 1940), PhD, DSc, DSc (hc University Bordeaux), DLit (hc), Sp: Physical Chemistry; FASc, FNASc, Emeritus Professor, Solid State and Structural Chemistry Unit, Indian Institute of Science, Bengaluru 560012; 25, ‘Srinidhi’ NTI Layout, Nagasetthallai, Bengaluru 560094 [Tel (080) 2293-2583, 2360-2897 (O), 2341-1129 (R), 98-801-55726 (M); Fax 2360-1310; Email kalyajrao@yahoo.co.in]; Lecture: INSA Prize for Materials Science (1999); SC: III.
2000 : RAO, Kanury Venkata Subba (b 1958), PhD, Sp: Immunology; FASc, FNASc, Head, Immunology Group, International Center for Genetic Engineering & Biotechnology, Aruna Asaf Ali Marg, New Delhi 110067; E-2226, Palam Vihar, Gurgaon 122017 [Tel (011) 2617-6680 (O), (0124) 236-7332 (R); Fax 2671-5114; Email kanury@icgeb.res.in]; Lecture: JL Nehru Birth Centenary (2007); SC: XI.

2016 : RAO, Khareedu Venkateswara (b 1958), PhD, Sp: Plant Molecular Biology; FNASc, Professor, Centre for Plant Molecular Biology, Osmania University, Hyderabad 500007; Plot No. 19, H No. 8-3-315/25A, Maruthinagar, Youufguda, Hyderabad 500045 [Tel (040) 2709-8087 (O), 2374-5253 (R), 93-913-20822 (M); Fax 2208-2758, 2208-2766; Email rao_kv1@rediffmail.com]; SC: VII.

1992 : RAO, Manchanahalli Rangaswamy Satyanarayana (b 1948), PhD, Sp: Molecular & Cell Biology, Genomics and Human Molecular Genetics; FASc, FNASc, FAMS, FTWAS, Honorary Professor, Jawaharlal Nehru Centre for Advanced Scientific Research, Jakkur PO, Bengaluru 560064; No 527, 9th Cross, Tata Nagar, Kodigehalli, Bengaluru 560092 [Tel (080) 2208-2864, 2208-2754 (O), 2351-9131 (R); Fax 2208-2758, 2208-2766; Email mrsrao@jncasr.ac.in]; Medal: JC Bose (2001); Lecture: JL Nehru Birth Centenary (2000); Council: Mem 1999-01, Ad Mem 2011; SC: X.

1984 : RAO, Naropantul Appaji (b 1934), PhD, Sp: Enzyme Regulation and Kinetics & Human Genetics; FASc, Member, Poland Acad of Arts & Sciences, Department of Biochemistry, Indian Institute of Science, Bengaluru 560012; 9, Sharada Colony, Basaveshwara Nagar, Bengaluru 560079 [Tel (080) 2360-1561 (Lab) 2293-2310 (O), 2348-6560 (R); Fax 2360-0814 (Dept), 2360-0683 (IIsc); Email bcnar@biochem.iisc.ernet.in]; Medal: JC Bose (1989); Lecture: JL Nehru Birth Centenary (2001); Council: Mem 1999-01, Ad Mem 2011; SC: X.

1979 : RAO, Neelamraju Ganga Prasada (b 1927), PhD, DSc (hc), Sp: Genetics & Plant Breeding; FNAsc, FNAAS, formerly Chairman, ASRB, New Delhi & VC, Marathwada Agricultural University, Parbhani, Maharashtra; HIG (OG), Block 10, Flat 4, Bagblingampally, Hyderabad 500044 [Tel (040) 2761-8184 (R)]; SC: XII.

1980 : RAO, Palle Rama (b 1937), PhD, DSc (hc), Sp: Physical & Mechanical Metallurgy; FASc, FNASc, FNAE, FTWAS, Foreign Mem, Royal Acad Engg (UK), Ukranian Acad Sc & US National Acad Engg, Chairman, Governing Council, International Advanced Research Centre for Powder Metallurgy & New Materials (ARCI), Balapur PO, RR Dist., Hyderabad 500005; formerly VC, University of Hyderabad; Chairman, Atomic Energy Regulatory Board, Mumbai; Distinguished Scientist, DRDO, New Delhi & Secretary, DST; “Naimisam”, Flat No. 301, Plot No.22, 8-3-1022, Srinagar Colony, Hyderabad 500073 [Tel (040) 2444-3167 (O), 6661-4475 (R); Fax 2444-3168; Email ramaraop37@gmail.com]; Medal: Meghnad Saha (2004); Lecture: INSA Prize for Materials Science (1989), SK Mitra Memorial (2001); Council: Mem 1985-87, Ad Mem 1989-95, 1997; SC: V.
1983 : RAO, Paranandi Venkata Suryanarayana (b 1936), PhD, Sp: Computer Science, Speech & Script Recognition; FASc, FNASc, FNAE, Adviser, Tata Consultancy Services Ltd., Plot No.14, Sector 24, Near Appetite Hotel, Opposite Sanpada Railway Station, Vashi, Turbhe, Navi Mumbai 400705; 601, Vigyan, Plot No. 23, Sector 17, Vashi, Navi Mumbai 400703 [Tel (022) 6513-5260 (O), 6516-3251, 56 (Lab), 2789-0712, 6511-8666 (R); Fax 2783-9926; Email pvs.rao@tcs.com]; SC: V.

2015 : RAO, Ravi Achutha (b 1954), PhD, Sp: Classical K-theory; Professor (H), School of Mathematics, Tata Institute of Fundamental Research, 1 Homi Bhabha Road, Mumbai 400005; A-8, Goodwill Assurance Building, Manmala Tank Road, Mahim, Mumbai 400016 [Tel (022) 2278-2470 (O), 2430-9827 (R), 98-333-63678 (M); Fax 2280-4610; Email ravi@math.tifr.res.in]; SC: I.

2004 : RAO, R Raghavendra (b 1945), Sp: Plant Taxonomy, Biodiversity, Phytogeography, Conservation and Ethnobotany; FASc, FNASc, INSA Honorary Scientist; No. 303, Sharada Nivas, 15th Cross, 6th main, II Stage, Indira Nagar, Bengaluru 560038 [Tel (080) 2527-0129 (R), 94-488-52356 (M); Email raocimap@gmail.com]; SC: VII.

1983 : RAO, Salem Ramachandrarao Venkatasubba (b 1927), PhD, Sp: Cytogenetics; FNASc, formerly Professor & Head, Zoology Department, University of Delhi; Room No 117, VLN Prabhudalaya, 748-A Nisarga Layout, Bannerghatta PO, Jigni Hobli, Bengaluru 560083 [Tel (080) 2782-4413, 2205-7452, 93-419-89403, 99-864-61227 (M); Email sharada_papu@hotmail.com, sharadapapu@yahoo.co.in]; INSA Senior Scientist (1995-99); SC: VIII.

1979 : RAO, Udipi Ramachandra (b 1932), PhD, DSc (hc), Sp: Space Technology & Space Applications; FASc, FNASc, FNAE, FTWAS, Former Chairman, ISRO & Secretary, Department of Space, Antariksha Bhavan, New BEL Road, Bengaluru 560231; Chairman, Governing Council, Physical Research Laboratory, Ahmedabad, Department of Space, Governing Council, IITM, Pune; Chairman, Karnataka Science & Technology Academy; Co-Chairman, Governing Council, NCAOR, Goa; 3367-E, 13th Main, HAL II Stage, Indira Nagar, Bengaluru 560038 [Tel (080) 2341-6406 (O), 2526-1566 (R); Fax 2341-0705; Email urrao.isro@hotmail.com, urrao@isro.gov.in]; Medal: PC Mahalanobis (1987); Council: Ad Mem 1996; SC: II.

2015 : RAO, Valipe Ramgopal (b 1965), Dr Ing, Sp: Nanoelectronics; FASc, FNASc, FNASc, P.K. Kelkar Chair Professor, Department of Electrical Engineering, Indian Institute of Technology Bombay, Powai, Mumbai 400076; A-15 Bungalow, Hill Side, IIT Campus, IIT Bombay, Powai, Mumbai 400076 [Tel (022) 2576-7456 (O), 2576-8456 (R), 98-690-34490 (M); Fax 2572-3707; Email rrao@ee.iitb.ac.in; Web http://www.ee.iitb.ac.in/~rrao/]; SC: V.

1981 : RAO, Vallurupalli Sita Raghavendra (b 1931), PhD, Sp: Bio-Polymers; FASc, formerly Professor, IISc, Bengaluru 560012; 12907 Crookston Lane 43, Rockville, MD20851, USA [Tel 301-496-1365 (O), 301-816-0412 (R)]; SC: X.
2007 : RAO, Venigalla Purnachandra (b 1955), PhD, Sp: Marine Geology, Sedimentology; FASc, Chief Scientist, CSIR-National Institute of Oceanography, Dona Paula, Goa 403004; E-1, NIO Quarters, Dona Paula 403004, Goa [Tel (0832) 245-0505 (O), 245-3471 (R), 94-224-16008 (M); Fax 245-0609; Email vpra@nio.org]; SC: IV.

1975 : RASTOGI, Raghunath Prasad (b 1926), PhD, DSc (hc) Sp: Theoretical and Experimental Non-equilibrium Physical Chemistry, Rocket Propellant Chemistry; FASc, FNASc, INSA Honorary Scientist, Emeritus Professor, Gorakhpur University, Gorakhpur 273009; formerly VC, BHU, Varanasi; (i) 295/281 Ka, Asherfabad, Lucknow 226003; (ii) Y-1004/5 Golden Rays, Shastrinagar, Andheri (W), Mumbai 400053 [Tel (022) 2636-2548, (0522) 226 9638 (R); Email rprastogi@yahoo.com]; Lecture: Professor S Swaminathan 60th Birthday Commemoration (1992); INSA Senior Scientist (1995-99); SC: III.

1982 : RASTOGI, Ram Gopal (b 1929), PhD, Sp: Space Physics and Interplanetary Medium, Magnetosphere and Ionosphere; FASc, FNASc, INSA Honorary Scientist, Visiting Professor, PRL, Ahmedabad, formerly Director IIG, Mumbai; 22B Lad Housing Society, Sandesh Press Road, Bodakdev, Ahmedabad 380004 [Tel (079) 2631-4055 (O), 2685-0958 (R), 96-249-24030 (M); Fax 2630-1502; Email parvs@prl.res.in, profrgrastogi@yahoo.com]; Medal: KR Ramanathan (2002); INSA Senior Scientist (1995-2000); SC: IV.

1987 : RATNASAMY, Paul (b 1942), PhD, Sp: Catalysis; FASc, FNASc, FTWAS, CSIR-National Chemical Laboratory, Pune 411008; Flat No.4, Lalit Apartment, Gulmohar Park, ITI Road Anudh, Pune 411007 [Tel (020) 2588-6122 (O), 2589-8058 (R), 73-500-05192 (M); Fax 2588-6122, 2589-3355; Email paulratnasamy@gmail.com; Web http://www.ncl-india.org]; Professorship: INSA-Srinivasa Ramanujan Research Professor (2004-09); Medal: Vishwakarma (1994); SC: V.

2008 : RAVINDRA KUMAR, Gattamraju (b 1961), PhD, Sp: Physics (Nonlinear optics, study of matter in intense laser fields); FASc, Senior Professor, Tata Institute of Fundamental Research, Homi Bhabha Road, Colaba, Mumbai 400005; 207, Bhaskara, TIFR Colony, Homi Bhabha Road, Mumbai 400005 [Tel (022) 2278-2381 (O), 2280-4609, 2278-3381 (R); Email grk@tifr.res.in; Web http://tifr.res.in/~uphill]; SC: II.

2005 : RAVINDRANATH, Vijayalakshmi (b 1953), PhD, Sp: Neuroscience, FASc, FNASc, FTWAS, FAMS, Professor and Chair, Centre for Neuroscience, Indian Institute of Science, Bengaluru 560012; 301, Vaishnavi Springs, 49/5, Ranga Rao Road, Shankarapurm, Bengaluru 560004 [Tel (080) 2293-3433 (O), 2661-5001 (R); Fax 2360-3323; Email viji@cns.iisc.ernet.in, viji.ravindranath@gmail.com; Web http://www.cns.iisc.ernet.in]; Medal: Professor KP Bhargava Memorial (2000); Council: Mem 2008-10; SC: XI.
2014 : RAY, Deb Shankar (b 1954), PhD, Sp: Theoretical Chemistry; FASc, Senior Professor, Department of Physical Chemistry, Indian Association for the Cultivation of Science, 2A & 2B, Raja SC Mullick Road, Jadavpur, Kolkata 700032; P47 MeghnadAbasan, Kolkata 700101 [Tel (033) 247-3542 (O), 2571-2906 (R), 97-481-68172 (M); Fax 2473-2805; Email debshankar.iacs@gmail.com, pcdsr@iacs.res.in; Web http://www.iacs.res.in/physchem/pcdsr/]; Medal: INSA Young Scientist (1984); SC: III.

2002 : RAYCHAUDHURI, Amitava (b 1952), PhD, Sp: Particle Physics including Astroparticle Physics; FASc, FNASc, Sir Tarak Nath Palit Professor of Physics, University of Calcutta, 92 Acharya Prafulla Chandra Road, Kolkata 700009; formerly Director, Harish-Chandra Research Institute, Allahabad; Flat No. 10/6, Block C, Green Tower, Golf Green, Kolkata 700095 [Tel (033) 2352-5631 (O), 2473-7519 (R), 98-312-43624 (M); Email palitprof@gmail.com, amitavaraychaudhuri@yahoo.com]; Medal: INSA Young Scientist (1982); SC: II.

2001 : RAYCHAUDHURI, Arup Kumar (b 1952), PhD, Sp: Physics, Low Temperature Physics, Physics of Nanomaterials, Scanning Probe Microscopy; FASc, FNASc, Distinguished Professor Emeritus and former Director, SN Bose National Centre for Basic Sciences, JD Block, Sector III, Salt Lake, Kolkata 700098; formerly Professor, IISc and Director, NPL, New Delhi; SV-1, P-347 Lake Town, Block A, Kolkata 700089 [Tel (033) 2335-5705, 2335-1313 Ext 467, 208 (O); Fax 2335-2733; Email arup@bose.res.in]; Medal: HJ Bhabha (2008); Council: Ad Mem 2014; SC: II.

1992 : REDDY, Borra Madhava (b 1934), DSc, Sp: Atmospheric Sciences & Radio Communications; INSA Honorary Scientist, CSIR-National Geophysical Research Institute, Uppal Road, Hyderabad 500007; formerly Head, Radio Science Division, CSIR-NPL, New Delhi; 302-N Span Vamsy Home, I-10-119/1 Mayuri Marg, Begumpet, Hyderabad 500016 [Tel (040) 2343-4652 (O), 2776-0542 (R); Fax 2343-4651; Email borramreddy@rediffmail.com]; Medal: KR Ramanathan (1999); SC: IV.

1989 : REDDY, Chillakuru Abhirama (b 1931), DSc, Sp: Space Physics & Atmospheric Dynamics; formerly Director, Space Physics Lab, VSSC, Thiruvananthapuram; Flat No. 91, Daisy Tower, L&T Serene Country, Gachibowli, Hyderabad 500032 [Tel (040) 2300-3455 (R); Email carreddy2@yahoo.com]; SC: IV.

1985 : REDDY, Chintala Raja Ram Mohan (b 1929), PhD, DSc, DSc (hc), Sp: Pathology & Epidemiology; FAMS, FASc, Consultant Pathologist Care Hospital, Banjara, Hyderabad 560034; 404, Mount Kailash Apts, Road No 4, Banjara Hills, Hyderabad 500034 [Tel (040) 5566-8888 (O), 2335-3657 (R), 92-465-30752 (M); Email crrmreddy@yahoo.com]; SC: XI.
1984 : REDDY, Gidnahalli Karagappa Narayana (b 1928), PhD (Lond), Sp: Coordination Chemistry, Organometallics & Catalysis; FNASc, formerly Professor & Head, Department of Chemistry, Bangalore University & VC, Karnataka University, Dharwad; 622, Rajkumar Road, II Block, Rajaji Nagar, Bengaluru 560010 [Tel (080) 2332-4546 (R); Email gkn_reddy@hotmail.com]; SC: III.

1993 : REDDY, Vellenki Umapathi (b 1939), PhD, Sp: Signal Processing & Communications; FASc, FNAE, FIEE, 37 Aparna Orchids, Near HITEX Ground, Izzat Nagar, Kondapur, Hyderabad 500084 [Tel (040) 2311-4725 (R), 98-481-35781 (M); Email vur10839@gmail.com]; SC: V.

1994 : REDDY, Vinodini (b 1934), MD, DCH, Sp: Nutrition; FAMS, FIAP, FIUNS, formerly Director, NIN, Hyderabad; 503 Mount Meru Apts, Banjara Hills, Road No.7, Hyderabad 500 034 [Telefax (040) 2335-8986 (R); Email vinodinireddy@hotmail.com]; SC: XI.

2008 : RINDANI, Saurabh Dilsukhray (b 1952), PhD, Sp: Particle Physics; FASc, FNASc, Senior Professor, Theoretical Physics Division, Physical Research Laboratory, Navrangpura, Ahmedabad 380009; M 404, Garden Residency 3, South Bopal Road, Bopal, Ahmedabad 380058 [Tel (079) 2631-4462 (O), (02717) 243-107 (R), 94-270-18152 (M); Email saurabh@prl.res.in; Web http://www.prl.res.in/~saurabh]; SC: II.

1997 : ROUT, Damodar (b 1944), MS, MCh, Sp: Neurosurgery, Microneurosurgery, Microvascular Surgery & Neurosciences; FAMS, Chairman & Director, Department of Neurosurgery, Sri Ramachandra University, Porur, Chennai 600116; Plot No. 1264, Jayalakshmi Nagar, IV Street, Kattupakkam, Chennai 600056 [Tel (044) 4592-8579, 2476-8403 (O), 4380-1109 (R); Fax 2476-7008; Email dr.d.rout@gmail.com]; SC: XI.

1990 : ROY, Ashit Baran (b 1938), PhD, Sp: Precambrian Geology, Tectonics; FASc, FWAST, INSA Honorary Scientist, formerly Professor, Department of Geology, Mohanlal Sukhadia University, Udaipur; Niloy Apartment, Flat 3/2G, 46A, R.N. Das Road, Kolkata 700031 [Tel (033) 2405-3671 (O), 94-330-87685 (M); Email abroy_g@yahoo.com, ashitbaranroy@gmail.com]; SC: IV.

1993 : ROY, Durga Prasad (b 1941), PhD, Sp: Theoretical High Energy Physics; FASc, FNASc, INSA Senior Scientist, Homi Bhabha Centre for Science Education, Tata Institute of Fundamental Research, Mumbai 400088; 706-Vigyan, Sector-17, Vashi, Navi Mumbai 400703 [Tel (022) 2507-2440 (O), 2789-8101 (R), 97-697-33915 (M); Fax 2556-6803; Email dproy@hbce.tifr.res.in, dproy1@gmail.com; Medal: SN Bose (2007)]; SC: II.

1992 : ROY, Probir (b 1942), MA (Cantab), PhD (Stanford), Sp: Astroparticle Physics & Particle Physics: Field Theory & Phenomenology; FASc, FNASc, INSA Senior Scientist, Centre for Astroparticle Physics & Space Science, Bose Institute, Sector 5, Bidhanagar, Kolkata 700091; formerly Senior Professor & Chair, Department of Theoretical Physics, TIFR, Mumbai; CK 147, Sector 2, Bidhanagar, Kolkata 700091 [Tel (033) 2359-8896 (R), 94-325-97896 (M); Fax 2337-4637; Email probirrana@gmail.com; Web http://www.theory.tifr.res.in/~probir]; SC: II.
2016 : ROY, Rajendra Prasad (b 1962), PhD, Sp: Biochemistry, Synthetic Protein Chemistry, Chemical Biology; FNASc, FASc, Staff Scientist VII, National Institute of Immunology, Aruna Asaf Ali Marg, New Delhi 110067; A-10, NII Campus, Aruna Asaf Ali Marg, New Delhi 110067 [Tel (011) 2670-3698 (O), 2674-1142 (R), 98-105-77789 (M); Fax 2674-2125; Email rproy@nii.res.in]; SC: X.

1989 : ROY, Shasanka Mohan (b 1941), PhD, Sp: Foundations of Quantum Theory & Particle Physics; FASc, FNASc, FTWAS, INSA Senior Scientist, Homi Bhabha Centre for Science Education, Tata Institute of Fundamental Research, VN Purav Marg, Mankhurd, Mumbai 400088; 501 Vigyan, Plot 23, Sector 17, Navi Mumbai, 400703 [Tel (022) 2788-8961 (R); Email shasanka1@yahoo.co.in; Web http://www.theory.theory.tifr.res.in/~shasanka]; Medal: SN Bose (2012); SC: II.

2005 : ROY, Siddhartha (b 1954) PhD, Sp: Biophysics, Biochemistry, Structural Biology, Chemical Biology; FASc, Senior Professor and Dean of Studies, Bose Institute, P-1/12, C.I.T. Scheme VII M, Kolkata 700054; Flat No. A-32, 49/49, Prince Ghulam Mohammed Shah Road, Kolkata 700033 [Tel (033) 2569-3330 (O); Email sidroy@jcbose.ac.in, sidroykolkata@gmail.com]; Lecture: Professor Vishwa Nath Memorial (2009); SC: X.

2014 : ROY, Syamal (b 1954), PhD, Sp: Parasitology, Immunology; FASc, FNASc, JC Bose National Fellow, Professor of Biological Sciences, AcSIR & Chief Scientist, CSIR-Indian Institute of Chemical Biology, 4, Raja SC Mullick Road, Jadavpur, Kolkata 700032; 199 Jodhpur Park, Kolkata 700068 [Tel (033) 2499-0395 (O), 2472-5624 (R), 98-745-32967 (M); Fax 2473-5197, 2472-3967; Email sroy@iicb.res.in]; SC: VIII.

1978 : RUDRAIAH, Nanjundappa (b 1932), MA (UOT, Canada), PhD (UWO, Canada) DSc (bc), Sp: Applied Mathematics, Fluid Mechanics; FASc, FNASc, FIAM (UK), FUWA (India), FIAPS, Honorary Professor, UGC-Centre for Fluid Mechanics, Department of Mathematics, Bangalore University & Hon Director, National Research Institute for Applied Mathematics, Bengaluru; formerly VC, Gulbarga University, Gulbarga; formerly Professor and Head, Principal, Central College, Bangalore University; 492/G, 7th Cross, 7th Block (West), Jayanagar, Bengaluru 560070 [Tel (080) 2221-9714, 2296-1421 (O), 2676-4356 (R), 94-483-89763 (M); Fax 2676-4356, 2221-9714; Email rudraiahn@hotmail.com]; Lecture: Professor VV Narlikar Memorial (2000); INSA Senior Scientist (1996-2001); SC: I.

1989 : SACHAR, Ramesh Chandra (b 1929), PhD, Sp: Biochemistry & Molecular Biology; FNAAS, formerly Professor, Department of Botany, University of Delhi, Delhi; E-14/4 Vasant Vihar, New Delhi 110057 [Tel (011) 2614-8837 (R), 98-735-52769 (M)]; SC: VII.

2004 : SADASHIVA, Bookinkere Kapanipathaiya (b 1946), PhD, Sp: Synthesis and Characterization of Liquid Crystalline Materials; 289, 10th Main Road, 3rd Block, Jayanagar, Bengaluru 560011 [Tel (080) 2663-0502 (R), 99-005-79995 (M); Email sadashivbk@yahoo.co.in]; SC: M.
1992 : SAHNI, Ashok (b 1941), PhD (Minnesota), Sp: Geology, Vertebrate Palaeontology & Biostratigraphy; FTWAS, FASc, FNASC, Professor Emeritus, Panjab University, Chandigarh; 98, Mahatma Gandhi Marg, Lucknow 226001 [Tel (0522) 223-5385 (R), 99-560-29934 (M); Email ashok.sahni@gmail.com]; Medal: DN Wadia (2009); Council: Mem 1998-2000; SC: IV.

2015 : SAHNI, Girish (b 1956), PhD, Sp: Enzymology, Protein Engineering; FASc, FNASC, Director General, CSIR and Secretary, DSIR, Anusandhan Bhawan, 2, Rafi Marg, New Delhi 110001 [Tel (011) 2371-0472, 2371-7053 (O), 98-883-71548 (M); Fax 2371-0618; Email dgcsir@csir.res.in, dg@csir.res.in]; Mem 1998-2000; SC: IV.

2011 : SAHNI, Varun (b 1956), PhD, Sp: Theoretical Physics; FASc, FNASC, Distinguished Professor, Inter-University Centre for Astronomy and Astrophysics (IUCAA) Ganeshkhind, Pune 411007; 6 Akashganga, IUCAA Housing Colony, Pune University Campus, Pune 411007 [Tel (020) 2560-4112 (O), 2560-4406 (R); Email varun@iucaa.in]; Medal: HJ Bhabha (2014); SC: II.

2016 : SAHU, Arvind Kesarilalji (b 1963), PhD, Sp: Complement Biology, Molecular Virology; FNASC, Scientist G, National Centre for Cell Science, Pune University Campus, NCCS Complex, Ganeshkhind, Pune 411007; ’Jyotirmay’, 36 Freedom Park, Vishal Nagar, Pimple Nilakh, Pune 411027 [Tel (020) 2570-8083 (O), 94-223-20062 (M); Fax 2569-2259; Email arvindsahu@nccs.res.in; Web http://www.nccs.res.in/DrSahu.html]; SC: IX.

1994 : SAIDAPUR, Srinivas Kishanrao (b 1947), PhD, Sp: Biology of Reproduction, Comparative Endocrinology & Animal Behaviour; FASc, FNASC, FTWAS, formerly Vice-Chancellor, Karnatak University, Dharwad; Plot # 108, Sripad Nagar, Saptapur, Dharwad 580001 [Tel (0836) 277-6789 (R), 96-633-78259, 94-804-05588 (M); Email saidapur@gmail.com]; Lecture: Professor MRN Prasad Memorial (2007), Professor Har Swarup Memorial (2011); Council: Mem 2006-08, VP 2012-14; SC: VIII.

2012 : SALOTRA, Poonam (b 1955), PhD, Sp: Molecular Parasitology and Immunology; FNASC, FTWAS, FAMS, Deputy Director, Scientist F, National Institute of Pathology (ICMR), Safdarjung Hospital Campus, Post Box No 4909, New Delhi 110029; C145, Sarvodaya Enclave, New Delhi 110017 [Tel (011) 2619-8402-6, 2616-6124 (O), 2696-7340 (R), 98-106-75005 (M); Fax 2619-8401, 2616-0135; Email salotra@vsnl.com, instpath@icmr.org.in]; SC: XI.

2004 : SALUNKE, Dinakar Mashnu (b 1955), PhD, Sp: Structural Biology, Macromolecular Crystallography, Molecular Biophysics; FASc, FNASC, FTWAS, Director, International Center for Genetic Engineering and Biotechnology, ICGEB Campus, P.O. Box 10504, Aruna Asaf Ali Marg, New Delhi 110067; B-54, Ground Floor, South End Floors, Sector 49, Sohna Road, Gurgaon 122018 [Tel (011) 2674-2317 (O), 96-507-82444 (M); Fax 2674-2316; Email icgeb.director@gmail.com]; Medal: Professor GN Ramachandran 60th Birthday Commemoration (2009); Council: VP 2013-15; SC: X.
2009 : SAMANTA, Anunay (b 1956), PhD, Sp: Physical Chemistry (Photochemistry, Time-resolved Spectroscopy); FASc, FNASc, Professor, School of Chemistry, University of Hyderabad, Hyderabad 500046; A-2 Faculty Quarters, University of Hyderabad, Hyderabad 500046 [Tel (040) 2313-4813, 2301-1594 (O), 2301-0715 (R), 94-404-99681 (M); Fax 2301-1594; Email anunay@uohyd.ac.in, anunay.samanta@gmail.com]; SC: III.

2015 : SAMPATH, Srinivasan (b 1961), PhD, Sp: Materials Chemistry (Interfacial Chemistry/Electrochemistry); FASc, Professor, Department of Inorganic and Physical Chemistry, Indian Institute of Science, Bengaluru 560012; EV 015, Vigyanpura Quarters, Opp. ISRO Headquarters, RMV II Stage, Off New BEL Road, Bengaluru 560094 [Tel (080) 2293-3315 (O), 2351-1974 (R), 98-862-70646, 94-837-42993 (M); Fax 2360-6867, 2360-1552; Email sampath@ipc.iisc.ernet.in]; SC: VI.

2002 : SAMPATHKUMARAN, Echur Varadadesikan (b 1954), PhD, Sp: Magnetism & Superconductivity; FASc, FNASc, FTWAS, Distinguished Professor, Department of Condensed Matter Physics and Materials Science, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400005; 610 Bhaskara, TIFR Qtrs, Homi Bhabha Road, Mumbai 400005 [Tel (022) 2278-2437/2278-2439 (O), 2280-4977, 2278-3437 (R); Fax 2280-4610, 2280-4611; Email sampath@tifr.res.in; Web http://www.tifr.res.in; Medal: INSA Young Scientist (1986); SC: II.

1997 : SANDHU, Jagir Singh (b 1942), PhD, Sp: Organic Chemistry, Bio Organic Chemistry; FNASc, INSA Honorary Scientist, Department of Chemistry, Punjabi University, Patiala 147002; formerly Director, RRL, Jorhat, Assam; Lalheri Road, Hardev Nagar, Khanna 141401 [Tel (0175) 304-6409-10 (O), (01628) 237-017 (R); Email j_sandhu2002@yahoo.com]; SC: III.

1991 : SANE, Prafullachandra Vishnu (b 1937), PhD (Alberta), Sp: Photosynthesis, Plant Physiology, Biochemistry & Molecular Biology; FASc, FNASc, FNAS, formerly Director, NBRI, Rana Pratap Marg, Lucknow 226001; C-739/B, Sector C, Mahanagar Extension, Lucknow 226006 [Tel (0522) 233-0989 (R); Email rajsane@hotmail.com; Council: Mem 1996-98; SC: VII.

2014 : SANJAPPA, Munivenkatappa (b 1951), PhD, Sp: Plant Taxonomy & Conservation; FASc, FNASc, CSIR Emeritus Scientist, Botanical Garden, University of Agricultural Sciences, GKVK, Bengaluru 560065; C-7, KendriyaVihar, Yelahanka, Bengaluru 562006 [Tel (080) 2333-0153 Ext 302 (O), 2856-0045 (R), 99-780-35160 (M); Fax 2333-0277; Email sanjappam@ymail.com, m.sanjapp@nic.in]; SC: VII.

2013 : SANKARANARAYANAN, Rajan (b 1968), PhD, Sp: Structural Biology, FASc, FNASc, Senior Principal Scientist, Structural Biology Laboratory, CSIR-Centre for Cellular and Molecular Biology, Uppal Road, Hyderabad 500007; Type V Apartment #6, CCMB Staff Quarters, HMT Nagar, Nacharam, Hyderabad 500076 [Tel (040) 2719-2832 (O), 98-664-97744 (M); Fax 2716-0591; Email sankar@ccmb.res.in]; SC: X.
1971 : SANTAPPAG, Mushi (b 1923), PhD (Lond & Manchester), DSc (bc), DLitt (bc), Sp: Photochemistry, Kinetics of Oxidation, Complexometry, High Polymers (Synthetic), Science and Technology of Leather; FASc, FNASc, formerly VC, Madras University & SV University, Tirupati; Member, UGC (1972-75); Director, CSIR-CLRI, Chennai; Scientific Advisor, Tamil Nadu Pollution Control Board; 73 (old), 8 (new), III Main Road, Kasturba Nagar, Adyar, Chennai 600020 [Tel (044) 2441-5163 (R)]; INSA Senior Scientist (1985-87); Council: Mem 1973-75; SC: III.

2001 : SANYAL, Milan Kumar (b 1954), PhD, Sp: Condensed Matter Physics, Surface Physics & Synchrotron X-ray Scattering; FASc, FNASC, FTWAS, Professor, Saha Institute of Nuclear Physics, 1/AF, Bidhannagar, Kolkata 700064; AE 473, Bidhan Nagar, Kolkata 700064 [Tel (033) 2321-4763 (O), 2321-5453 (R); Fax 2337-4637; Email milank.sanyal@saha.ac.in, milank.sanyal@gmail.com; Web http://www.saha.ac.in/cs/www/faculty-new.htm]; Council: Mem 2010-12; SC: II.

1988 : SANYAL, Suhas Chandra (b 1942), MD, PhD, FRC (Path), Sp: Medical Microbiology, Infection Control, Antimicrobial Therapy, Ecology; FASc, FAMS, formerly Professor & Head, Department of Microbiology, BHU, Varanasi and Senior Consultant in Microbiology at the Specialized Hospitals in Kuwait; Urita 09-0303, Nabami, 1050/1 Survey Park, Kolkata 700075 [Tel (033) 2418-8005 (R), 98-302-16875 (M); Email scsanyal@hotmail.com]; Lecture: BN Chopra (1992); SC: XI.

1995 : SARAN, Anil (b 1940), DPhil (Sc), Sp: Molecular Biophysics & Biomolecular NMR; FNASc, INSA Honorary Scientist, formerly Professor H, TIFR, Mumbai 400098; 41, New Cosmos Co-operative Housing Society, Juhu-Versova Link Road, Andheri (West), Mumbai 400053 [Tel (022) 2628-8483 (R), 98-191-11024 (M); Email anilsaran@gmail.com, anil@mailhost.tifr.res.in]; SC: X.

2008 : SARIN, Manmohan (b 1951), PhD, Sp: Chemical Oceanography, Atmospheric and Aerosol Chemistry; FASc, FNASc, INSA Senior Scientist, Geosciences Division, Physical Research Laboratory, Navrangpura, Ahmedabad 380009; No A-301, Shashwat Apartments, Nr. Bodakdev Municipal office, Bodakdev, Ahmedabad 380054 [Tel (079) 2631-4306 (O), 2685-8711 (R), 94-267-27301 (M); Fax 2631-4900; Email sarin@prl.res.in]; SC: V.

2004 : SARIN, Shiv Kumar (b 1952), MD, DM, Sp: Hepatology and Gastroenterology; Senior Professor and Head, Department of Hepatology & Director, Institute of Liver and Biliary Sciences, D-1, Vasant Kunj, New Delhi 110070; 63, New Moti Bagh, New Delhi 110023 [Tel (011) 4630-0000 (O), 2687-3563 (R); Email shivsarin@gmail.com]; Lecture: Dr Y SubbaRow Memorial (2005); SC: XI.

2012 : SARKAR, Arindya (b 1959), PhD, Sp: Stable Isotope Geochemistry, Palaeoclimatology, Geochronology and Sedimentology; Professor, Department of Geology & Geophysics, Indian Institute of Technology, Kharagpur 721302; A-21, IIT, Kharagpur 721302 [Tel (0322) 283-392 (O) 283-393 (R), 94-340-4377 (M); Fax 282-268; Email arindya@iitkgp.ernet.in, sarkaranindya@hotmail.com]; Medal: INSA Young Scientist (1990); SC: IV.
2016 : SARKAR, Chitra (b 1955), MBBS, MD, Sp: Neuropathology and Neuro-oncology; FASc, FNASc, FRCPATH, FAMS, Professor, Room No. 1083/1083A, 1st Floor, Teaching Block, Department of Pathology, All India Institute of Medical Sciences, New Delhi 110029; C-II/9, Ansari Nagar (East), AIIMS Campus, New Delhi 110029 [Tel (011) 2659-3371 (O), 2658-8390 (R), 98-101-81945, 99-688-56940 (M); Fax 2658-8663; Email sarkar.chitra@gmail.com]; SC: XI.

2011 : SARKAR, Debi Prasad (b 1958), PhD, Sp: Biochemistry, Molecular Virology, Molecular Cell Biology, Cell Signaling, Biotechnology & Membrane Biology; FASc, FNASc, JC Bose National Fellow, Professor & former Head & Dean (Faculty of Interdisciplinary and Applied Sciences), Department of Biochemistry, University of Delhi, South Campus, New Delhi 110021 [Tel (011) 2411-1967 (O), 2411-3869 (R), 98-106-96767 (M); Fax 2411-5270; Email dpsarkar59@gmail.com, dpsarkar59@rediffmail.com, debi.sarkar@south.du.ac.in]; SC: X.

1999 : SARKAR, Pranab Kumar (b 1939), PhD, Sp: Neurodegenerative Diseases, Molecular Neurobiology, Neuroendocrinology; FASc, INSA Honorary Scientist, Division of Neurobiology, CSIR-Indian Institute of Chemical Biology, 4, Raja SC Mullick Road, Jadavpur, Kolkata 700032; BD 186, Salt Lake, Kolkata 700 064 [Tel (033) 2499-5707 (O), 2337-2927 (R), 94-330-60022 (M); Fax 2473-5197; Email pk_sarkar@hotmail.com]; SC: X.

2007 : SARKAR, Utpal (b 1956), PhD, Sp: Theoretical Particle Physics; FASc, FNASc, Outstanding Scientist, Theoretical Physics Group, Physical Research Laboratory, Navrangpura, Ahmedabad 380009; E-12 PRL Qrs, Vikramnagar, Ambli Bhopal Road, Ahmedabad 380009 [Tel (079) 2631-4476 (O), 98-985-86326 (M); Fax 2631-4460; Email utpal@prl.res.in, utpal.sarkar.prl@gmail.com]; Medal: INSA Young Scientist (1988); SC: II.

2001 : SARMA, Dipankar Das (b 1955), PhD, Sp: Electronic Structure of Solid; FASc, FNASc, FTWAS, Professor, Solid State and Structural Chemistry Unit & Centre for Condensed Matter Theory, Indian Institute of Science, Bengaluru 560012 [Tel (080) 2360-7576, 2293-2945 (O), 2360-3061 (R); Fax 2360-1310; Email sarma@sscuiisc.ernet.in; Web http://www.sscuiisc.ernet.in/DDSarma/]; Medal: INSA Young Scientist (1983); Lecture: Dr Jagdish Shankar Memorial (2006), Professor KR Rao Memorial (2008); Council: Mem 2009-11; SC: M.

1990 : SARMA, Vallury Visweswara Subrahmanya (b 1944), ME, PhD, Sp: Computer Science, Intelligent Systems and Indian Logic; FASc, FNAE, 2182 Siva, 8th Main Road, E-Block, Rajajinagar, 2nd Stage, Bengaluru 560010 [Tel (080) 2332-1876, 2332-1873 (R); Email vallury.sarma@gmail.com]; SC: V.

1980 : SASISEKHARAN, Vishwanathan (b 1933), PhD, Sp: Biomolecular Structure & Function; FASc, formerly Professor, Molecular Biophysics Unit, IISc, Bengaluru 560012; Medal: JC Bose (1983); SC: X.
1982 : SASTRY, Pidaparty Seshadri (b 1934), PhD, Sp: Biological Chemistry & Biomedical Research; FAMS, 402, Apsara Apts, Sreenagar Colony, Hyderabad 500873 [Tel (040) 2374-5248 (R); Email pssastry@gmail.com]; Lecture: BC Guha Memorial (1993); INSA Senior Scientist (1996-99); SC: X.

2016 : SASTRY, Srikanth (b 1964), PhD, Sp: Statistical Mechanics, Soft Condensed Matter Physics, Chemical Physics; FAc, FNAs, Professor, Theoretical Sciences Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Jakkur Campus, Bengaluru 560064; No. 5 (JP), 6th Cross, L.I.C Colony, Jayanagar III Block (East), Bengaluru 560011 [Tel (080) 2208-2838 (O), 2360-0275 (R), 94-483-60274 (M); Fax 2360-0865; Email sastry@jncasr.ac.in; Web http://www.jncasr.ac.in/sastry]; SC: II.

2011 : SATEHEESH, Sreedharan Krishnakumari (b 1970), PhD, Sp: Atmospheric Aerosol & Climate; FAs, FNAs, Professor, Centre for Atmospheric and Oceanic Science, Indian Institute of Science, Bengaluru 560012; D227, New Housing Colony, Indian Institute of Science, Bengaluru 560012 [Tel (080) 2293-3070 (O), 2360-0275 (R), 94-483-60274 (M); Fax 2360-0865; Email satheesh@caos.iisc.ernet.in; profsks@gmail.com]; Medal: INSA Young Scientist (2002); SC: IV.

1993 : SATHYAMURTHY, Narayanasami (b 1951), PhD, Sp: Theoretical, Molecular Reaction Dynamics; FAs, FTWAs, Director, Indian Institute of Science Education and Research (IISER) Mohali, Sector 81, SAS Nagar Manauli PO, 140306 [Telefax (0172) 224-0266 (O), 224-0113 (R), 97-791-44905 (M), Email nsath@iitk.ac.in, nsath@iisermohali.ac.in]; Medal: INSA Young Scientist (1980); Council: VP 2010-12; SC: III.

2005 : SAVITHRI, Handanahal Subbarao (b 1951), PhD, Sp: Plant Molecular Virology, Enzymology, Protein Chemistry; FAs, FNAs, Professor, Department of Biochemistry, Indian Institute of Science, Bengaluru 560012; No. 531, Beladingalu, 14th Main, I Stage, I Phase, Gokul, Bengaluru 560054 [Tel (080) 2360-1561 (O), 2337-2981 (R), 94-483-79380 (M); Fax 2360-0814; Email bchss@biochem.iisc.ernet.in; Web http://www.biochem.iisc.ernet.in/~bchss/]; SC: VII.

1996 : SAWHNEY, Surinder Kumar (b 1943), PhD, Sp: Plant Biochemistry; Professor (Retd), E-7/1, Nehru Ground, Faridabad, Haryana 121001 [Tel (0129) 241-0908 (R); Email bliss46@rediff.com]; SC: VII.

1973 : SAXENA, Kailash Narain (b 1927), DPhil, Sp: Entomology: Insect Behaviour and Management; FNAAS, formerly DDG, The International Ctr of Insect Physiology & Ecology (ICIPE), Nairobi, Kenya; Professor & Head, Zoology Department, University of Delhi; Editor-in-chief, Arthropod Management Tests, Entomological Society of America; 1675, Blackfoot Drive, Fremont, CA 94539 USA [Tel (510) 979-0077; Email saxenak@hotmail.com]; Council: Ed Pub 1975-78; SC: VIII.
2003 : SAXENA, Rajiv Krishna (b 1951) PhD, Sp: Immunology, Nanotoxicology, Nanosciences, Biotechnology, Pulmonary Immune Responses and Effect of Environmental Pollutants, Erythrocyte Turnover; FASc, FNASc, Acting President/Vice President, South Asian University (SAU), New Delhi; Professor and Dean, Faculty of Life Sciences and Biotechnology, SAU, Akbar Bhawan, Chanakyapuri, New Delhi 110021; 27 Empire Estate, Sultanpur, MG Road, New Delhi 110030 [Tel (011) 2412-2510 (O), 6502-8822 (R); Fax 2412-2511; Email rajivksaxena@hotmail.com, rksaxena@southasianuniversity.org; Web http://www.SAU.ac.in; www.rajivsaxena.info]; SC: VIII.

2002 : SEBASTIAN, Kizhakeyil Lukose (b 1950), PhD, Sp: Theoretical Chemistry; FASc, Professor, Department of Inorganic and Physical Chemistry, Indian Institute of Science, Bengaluru 560012; 7/02, IISc Campus, Bengaluru 560012 [Tel (080) 2293-2385 (O), 2308-9636 (R); Fax 2360-0683; Email kls@ipc.iisc.ernet.in; Web http://ipc.iisc.ernet.in/~kls]; SC: III.

2006 : SEN, Abhijit (b 1946), PhD, Sp: Plasma Physics and Non Linear Dynamics; S Chandrasekhar-Chair Professor, Institute for Plasma Research, Bhat, Gandhinagar 382428; 1, Payal Apartment, Behind GLS Grounds, Ellisbridge, Ahmedabad 380006 [Tel (079) 2396-9023 (O), 2692-6749 (R), 98-250-51578 (M); Fax 2396-9016; Email abhijit@ipr.res.in, senabhijit@gmail.com]; Medal: INSA Young Scientist (1976); SC: M.

1996 : SEN, Ashoke (b 1956), PhD, Sp: High Energy Physics; FASc, FNASc, FRS, Harish-Chandra Research Institute, Chhatnag Road, Jhusi, Allahabad 211019 [Tel (0532) 227-4302 (O), 227-4002 (R); Fax 569-576; Email sen@mri.ernet.in; Web http://www.mri.ernet.in/~sen]; SC: II.

2010 : SEN, Diptiman (b 1959), PhD, Sp: Theoretical Condensed Matter Physics, Quantum Field Theory; FASc, FNASc, Professor, Centre for High Energy Physics, Indian Institute of Science, Bengaluru 560012; E 12, Housing Colony, Indian Institute of Science, Bengaluru 560012 [Tel (080) 2293-2974 (O); Fax 2360-0683; Email diptiman@cts.iisc.ernet.in; Web http://cts.iisc.ernet.in/Personnel/diptiman.html]; SC: II.

2011 : SEN, Kalidas (b 1948), PhD, Sp: Chemical Physics; FASc, Professor, School of Chemistry, University of Hyderabad, Hyderabad 500046 [Tel (040) 2313-4809 (O), 96-520-09749 (M); Fax 2301-2460; Email kalidas.sen@gmail.com; sensc@uohyd.ernet.in]; Medal: INSA Young Scientist (1978); SC: III.

2012 : SEN, Sandeep (b 1962), PhD, Sp: Computer Science (Algorithms); FASc, Professor, Department of Computer Science & Engineering, Indian Institute of Technology, Hauz Khas, New Delhi 110016; 42 Vikramshila, IIT Campus, New Delhi 110016 [Tel (011) 2659-1293 (O), 2659-1605 (R), 98-681-14462 (M); Email ssen@cse.iitd.ernet.in]; SC: V.

1979 : SEN, Sisir Kumar (b 1929), PhD (Chicago), Sp: Metamorphic Petrology & Geochemistry; FNASc; formerly Professor & Dean, IIT, Kharagpur; H4, Indraprastha Apartments, Plot No 114 IP Extension, Patparganj, Delhi 110092 [Tel (011) 4223-3512 (R), 99-716-61943 (M); Email sksen201030@gmail.com]; Medal: DN Wadia (2012); INSA Senior Scientist (1994-99); SC: IV.
1989: SEN, Soumitra Kumar (b 1936), PhD, DSc, Sp: Genetics, Plant Molecular Biology & Biotechnology; Advanced Laboratory for Plant Genetic Engineering, Indian Institute of Technology, Kharagpur 721302; formerly Professor, Plant Molecular & Cellular Genetics, Bose Institute, Kolkata; Quarter No. C1-151, IIT Kharagpur, Kharagpur 721302 [Tel (03222) 277-028 (O), 277-074 (R); Fax 277-890; Email soumitrakumar.sen@gmail.com, soumitra@hijli.iitkgp.ernet.in]; SC: VII.

2011: SENGUPTA, Pulak (b 1963) PhD, Sp: Metamorphic Petrology and Precambrian Geology; FASc, DAAD Visiting Professor, Professor of Geology, Department of Geological Sciences, Jadavpur University, Kolkata 700032; 43/6/11 Jheel Road, Kolkata 700031 [Tel 97-483-59495 (M); Email pulaksg@gmail.com]; Medal: INSA Young Scientist (1991); SC: IV.

1995: SENGUPTA, Sudipta (b 1946), PhD, Sp: Structural Geology & Precambrian Geology; INSA Senior Scientist, Professor, Department of Geological Sciences, Jadavpur University, Kolkata 700032; C-27, 5th Floor, Swinhoe Apartment, 12/1 Swinhoe Street, Kolkata 700019 [Tel (033) 2457-2712 (O), 2440-5471 (R), 98-302-30144 (M); Fax 2413-7121; Email sudipta20@gmail.com, sudiptasg@yahoo.com]; Medal: DN Wadia (2015); Council: Mem 2001-03; SC: IV.

1982: SENGUPTA, Supriya Mohan (b 1932), DSc, Sp: Sedimentary Geology & Physical Stratigraphy; formerly Professor of Geology, ISI Kolkata and IIT, Kharagpur; Dakshini Apartment 601, D-87/1, BP Township, Kolkata 700094 [Tel 97-345-45755, 98-745-40110 (M)]; INSA Senior Scientist (1993-97), INSA Honorary Scientist (2001-04); SC: IV.

1973: SESHADRI, Conjeevaram Srirangachari (b 1932), PhD (Chennai), DSc (bc), Sp: Algebraic Geometry & Algebraic Groups; FASc, FTWAS, FRS, Director-Emeritus, Chennai Mathematical Institute, Plot H1, SIPCOT IT Park, Siruseri, Kelambakkam 603103; A1 Sonali Apartments, Old No. 11, New No. 35, Beach Road, Besant Nagar, Chennai 600090 [Tel (044) 2747-0226-30, 3298-3441/42 (O), 2446-4572 (R); Fax 2747-0225; Email css@cmi.ac.in; Web http://www.cmi.ac.in]; Medal: Srinivasa Ramanujan (1985), SS Bhatnagar (1995); Council: Mem 1987-89; SC: I.

1998: SETH, Prahlad Kishore (b 1943), PhD, Sp: Biochemical Pharmacology & Toxicology, Neurotoxicology, Neurochemistry, Biotechnology; FNASc, FAMS, Chief Executive Officer, Biotechnology Park & Former Director, ITRC, Sector G, Kursi Road, Jankipuram, Lucknow 226021; Sector-G, Jankipuram Kursi Road, Lucknow 226021 [Tel (0522) 405-3004, 236-5050 (O), 278-6437, 278-8024 (R), 98-390-10166 (M); Fax 401-2081; Email pkseth@hotmail.com, prahladseth@gmail.com; Web http://biotechpark.org.in]; Council: Ad Mem 2008, 2014; SC: XI.

1990: SETHUNATHAN, Nambrattil (b 1937), PhD, Sp: Environmental Microbiology; FASc, FNASc, FNAAS, formerly Visiting Scientist, CSIRO Land and Water, PMB 2, Glen Osmond, SA 5064, Australia and Principal Scientist and Head, Soil Science and Microbiology, CRRI, Cuttack; 2244, West River Rock Trail, Anthem, AZ 85086, USA [Tel (+1) 623 551 6015 (M); Email sethunathan@hotmail.com]; INSA Senior Scientist (1998-2001); Council: Mem 1995-97; SC: XII.
1996 : SETTY, B Sreenivasulu *(b 1936)*, PhD, Sp: Reproductive Biology, Fertility Regulation; FNASC, formerly Senior Dy Director & Head, Division of Endocrinology, CDRI, Lucknow; *Flat No. 304, Seshagiri Mansion, Near MRO, 6-3-628/3&4, Anand Nagar Colony, Khairatabad, Hyderabad 500004* [Tel (040) 2337-2917 (R), 93-910-16206 (M); Email dr_settybs@yahoo.co.in]; SC: VIII.

1980 : SHAH, Jaysukh Jagmohandas *(b 1924)*, PhD, Sp: Plant Anatomy & Wood Science; formerly Head, Professor of Botany, Department of Biosciences, Sardar Patel University, Vallabh Vidyanagar 388120; *29, HIG, Freedom Fighter Nagar, Near Samta Soc, Vadodara 390023* [Tel (0265) 239-2921 (R), 98-250-17882 (M); Email jjshah87@yahoo.in]; INSA Senior Scientist (1985-87); SC: VII.

1987 : SHAH, Raman Vadilal *(b 1926)*, PhD, Sp: Comp Anatomy, General Developmental Physiology; formerly Professor, Head, Department of Zoology, Faculty of Sciences, MS University of Baroda, Vadodara 390008; *7, Indraprastha, New Sama Road, Vadodara 390008* [Tel (0265) 278-1346 (R)]; SC: VIII.

2008 : SHAHA, Chandrima *(b 1952)*, PhD, Sp: Cell Biology, Biochemistry; FASc, FNASC, Director, *National Institute of Immunology, Aruna Asaf Ali Marg, New Delhi 110 067*; Head, *Cell Death and Differentiation Research Laboratory*, Director’s Residence, NII Campus, Aruna Asaf Ali Marg, New Delhi 110067 [Tel (011) 2671-7102, 2671-7103 (O), 2674-2528, 2674-2480 (R), 99-584-2001 (M); Fax 2671-7104, 2674-2125; Email cshaha@nii.ac.in; Web http://www1.nii.res.in/research/chandrima-shaha]; **Medal:** Chandrakala Hora Memorial (2013); **Lecture:** Professor Darshan Ranganathan Memorial (2010); **Council:** Ad Mem 2015, VP 2016-; SC: X.

2007 : SHANBHAG, Bhagyashri Achut *(b 1950)*, PhD, Sp: Biology of Reproduction and Endocrinology, Behavioral Ecology; FASc, FNASC, INSA Senior Scientist, *Department of Marine Biology, Karnataka University Post Graduate Centre, Kodibag, Karwar, Karnataka 581303*; House No 4682 A1, Bhujle Compound, Kodibag Main Road, Kodibag, Karwar 581303, Karnataka [Tel (08382) 226-377 (R), 94-481-84536 (M); Email bhagyashrishanbhag@gmail.com]; SC: VIII.

1996 : SHARAN, Maithili *(b 1953)*, PhD, Sp: Applied Mathematics: Atmospheric Science; FNASC, FNAE, Professor, *Centre for Atmospheric Sciences, Indian Institute of Technology, Hauz Khas, New Delhi 110016*; 3, West Avenue, IIT Campus, New Delhi 110016 [Tel (011) 2659-1312 (O), 2651-5480, 2659-1946 (R); Fax 2658-2037; Email mathilis@cas.iitd.ernet.in]; **Medal:** INSA Young Scientist (1984); SC: I.

2004 : SHARMA, Anurag *(b 1955)*, PhD, Sp: Photonics: Fiber & Integrated Optics, Gradient-Index Optics, Applied Optics; FASc, FNASC, FNAE, Professor, *Department of Physics, Indian Institute of Technology, Hauz Khas, New Delhi 110016*; 4, C-Street, IIT Campus, New Delhi 110016 [Tel (011) 2659-1350 (O), 2686-7022, 2659-1929 (R); Fax 2658-1114; Email asharma@physics.iitd.ac.in]; **Medal:** INSA Young Scientist (1986); AK Bose Memorial (1991); SC: V.
1970 : SHARMA, Arun Kumar (b 1924), DSc, DSc (hc), Sp: Cytogenetics, Cytochemistry & Cell Biology; FASc, FNASC, FNAAS, FTWAS, Corr Fellow, Arg Acad Sc, Corr Acad Puerto Rico Acad Sc, Hon Professor, CAS on Cell & Chromosome Research, Botany Department, Calcutta University, 35 Ballygunge Circular Road, Kolkata 700019; 2F2, Meghmallar, 18/3, Gariahat Road, Kolkata 700019 [Tel (033) 2461-5445 (O), 2440-5802 (R); Fax 2461-4849; Email nuclaks@gmail.com]; Professorship: INSA-Golden Jubilee Research Professor (1985-90); Medals: Silver Jubilee Commemoration (1976), Meghnad Saha (1998); Council: Mem 1974-76, VP 1977-78, Pres 1983-84, Ad Mem 1980, 1985-86; SC: VII.

2004 : SHARMA, Ashutosh (b 1961), PhD, Sp: Nanotechnology, Patterning and Self-Organization of Soft Materials, Meso-mechanics, Colloid and Interface Science, Thin Films, Membranes, Functional Materials; FASc, FNASC, FNAE, FTWAS, Secretary, Department of Science and Technology, Technology Bhavan, New Mehrauli Road, New Delhi 110016 [Tel (011) 2651-1439 (O); Email dstsec@nic.in; Web http://www.dst.gov.in]; Institute Chair Professor, Department of Chemical Engineering, Indian Institute of Technology, Kanpur 208016 [Tel (0512) 259-7026 (O); Email ashutos@iitk.ac.in; Web http://www.iitk.ac.in/che/as.htm]; Medal: SH Zaheer (2011); Council: Mem 2014-; SC: VII.

2014 : SHARMA, Eklabya (b 1958), PhD, Sp: Ecology; FNASC, Director Programme Operations, International Centre for Integrated Mountain Development (ICIMOD), GPO 3226, Khumaltar, Lalitpur, Kathmandu, Nepal; Sharma Cottage, St. Mary’s Hill, Kurseong, Darjeeling, West Bengal 734220 [Tel (00977) (1) 500-3222 Ext 208 (O), 554-9235 (R), 98-010-27522 (M); Fax 500-3299; Email eklabya.sharma@icimod.org]; Medal: INSA Young Scientist (1988); SC: VII.

1978 : SHARMA, Kamal Nath (b 1929), MD, Sp: Neurophysiology, Health Care Management; FASc, FAMS, Executive Director, Gokula Education Foundation (Health Sciences), MS Ramaiah Medical Institutions and Hospitals, MSRIT Post, Bengaluru 560054; formerly Director, Brain Research & Human Development Centre, University of Delhi and Principal, University College of Medical Sciences, Delhi; 503, 12th Cross, 6th A Main, HIG Colony, RMV II Stage, Bengaluru 560094 [Telefax (080) 2360-6031 (O), 2341-4004 (R); Fax 2360-5541, 2360-3301; Email drsharmakn@yahoo.com, drkns@msrhospitals.com]; SC: XI.

1976 : SHARMA, Man Mohan (b 1937), PhD (Cantab), DSc (hc), DEng (hc), Sp: Multiphase Reactions and Reactors; FASc, FTWAS, FREng, FRSE, Foreign Assoc USNA Engg, FNASC (Hon), Intl Fellow Royal Acad Eng, Emeritus Professor of Eminence and formerly Professor of Chemical Engg & Director, Institute of Chemical Technology, Mumbai 400019; 2/3, Jaswant Baug (Runwal Park), Behind Akbarally, Chembur, Mumbai 400071 [Tel (022) 2529-1539, 2529-6876; Email profmmsharma@gmail.com]; Medal: Vishwakarma (1985), Meghnad Saha (1994), INSA Medal for Promotion & Service to Science (2008); Lecture: Sir JC Bose Memorial (1994); Council: Mem 1980-82, VP 1987-88, Pres 1989-90, Ad Mem 1991-92; SC: V.
2015 : SHARMA, Pushkar (b 1969), PhD, Sp: Signal Transduction, Biochemistry, Malaria, Neuroscience; FNASc, Staff Scientist-VI, National Institute of Immunology, Aruna Asaf Ali Marg, New Delhi 110067; A3, National Institute of Immunology, New Delhi 110067 [Tel (011) 2670-3791 (O), 98-107-25454 (M); Fax 2674-2125; Email pushkar@nii.ac.in; Web http://www1.nii.res.in/research/pushkar-sharma]; SC: X.

1992 : SHARMA, Ram Swaroop (b 1937), DPhil (Basel), Sp: Metamorphic Petrology & Precambrian Geology; FASc, INSA Honorary Scientist, 70/36 Pratapnagar, Sector 7, Sanganer (RHB), Jaipur 302033 [Tel (0141) 279-0317 (R), 94-148-88025 (M); Fax 270-2792; Email sharma.r.sw@gmail.com]; SC: IV.

1999 : SHARMA, Rameshwar Prasad (b 1940) PhD, Sp: Genetics, Cytogenetics and Plant Biotechnology; FASc, FNASc, FNAAS, formerly Project Director & INSA Senior Scientist, National Centre on Plant Biotechnology, Indian Agricultural Research Institute, New Delhi 110012; C-II-204, Eldeco Ananda Apartments, Block-D, Sector 48, Noida 201301 [Tel (011) 2584-1787, 2584-2789 Ext 286 (O), 98-106-78220 (M); Email rpsnrp4b@yahoo.co.in]; Medal: Silver Jubilee Commemoration (2013); Council: Mem 2001-03; SC: XII.

2015 : SHARMA, Shobhona (b 1953), PhD, Sp: Parasite Biology and Immunology; FASc, Senior Professor (I) and Chair, Department of Biological Sciences, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400005; 701 Bhaskara, TIFR Housing Complex, Homi Bhabha Road, Mumbai 400005 [Tel (022) 2278-2625 (O), 2280-4745 (R), 99-872-60961 (M); Fax 2280-4610; Email sharma@tifr.res.in, shobhona@gmail.com; Web http://www.tifr.res.in/~dbs/faculty/S_Sharma.html]; SC: IX.

2013 : SHARMA, Surendra Kumar (b 1951), MD, PhD, Sp: General Medicine, Pulmonary, Critical Care and Sleep Medicine; FASc, FNASc, FAMS, Professor & Head, Department of Medicine, Room No 3097, Third Floor, Teaching Block, All India Institute of Medical Sciences, Ansari Nagar, New Delhi 110029; C1/7, Ansari Nagar (East), AIIMS Campus, New Delhi 110029 [Tel (011) 2659-4415, 2659-3303 (O), 2658-8154 (R), 98-990-88092 (M); Fax 2658-9994; Email sksharma.aiims@gmail.com, sksharma@aiims.ac.in, surensk@gmail.com]; SC: XI.

2016 : SHARMA, Surinder Mohan (b 1952), PhD, Sp: Materials Behavior under High Pressures and Development of Synchrotron Beamlines; FNASc, FASc, DAE Distinguished Scientist & Director, Physics Group & Head, High Pressure & Synchrotron Radiation Physics Division, Purnima Laboratories, Bhabha Atomic Research Centre, Mumbai 400085; 4F, Udayagiri, Anushaktinagar, Mumbai 400094 [Tel (022) 2559-3690, 2559-3883 (O), 2556-7483 (R), 98-197-67483 (M); Fax 2559-2183, 2550-5141; Email smsharma@barc.gov.in]; SC: VI.

1988 : SHARMA, Tikaram (b 1935), PhD, Sp: Evolutionary Molecular Genetics & Cytogenetics; CSIR Emeritus Scientist, INSA Honorary Scientist; formerly Professor & Director, Centre for Life Sciences, University of North Bengal, Professor & Head, Zoology Department, BHU, Coordinator, CAS, Zoology Department, BHU; ‘Srishti’, Shanti Path, PO & Vill St Mary’s Hill, Kurseong, Darjeeling 734220, West Bengal [Tel (0354) 233-1048 (R); Email tsharma123@yahoo.co.in]; SC: VIII.
2013: SHARMA, Tilak Raj (b 1965), PhD, Sp: Plant Biotechnology and Disease Resistance; FNASC, FNAAS, Project Director, National Research Centre on Plant Biotechnology, LBS Centre, Room No 39, IARI, Pusa Campus, New Delhi 110012; B-5, Type V-A, Pusa Campus, IARI, New Delhi 110012 [Tel (011) 2584-8783, 2584-1787 Ext 200 (O), 98-183-86057 (M); Fax 2584-3984; Email trsharma1965@gmail.com, trsharma@nrcpb.org]; SC: XII.

2013: SHARMA, Vijay Kumar (b 1967), PhD, Sp: Chronobiology; FASc, Professor and Chairman, Evolutionary & Organismal Biology Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Jakkur PO, Bengaluru 560064; #72, “Sowparnika”, Phase 3, Royal Enclave, Srirampura Village, Jakkur PO, Bengaluru 560064 [Tel (080) 2208-2843 (O), 2362-2772 (R), 94-484-50067 (M); Fax 2208-2766; Email vsharma@jncasr.ac.in, vksharmas@gmail.com]; Medal: INSA Young Scientist (1998), AK Bose Memorial (2001); SC: VIII.

2003: SHARMA, Vishnu Dutt (b 1949), PhD, Sp: Quasilinear Systems of Hyperbolic Partial Differential Equations and Nonlinear Wave Phenomena; FNASC, Professor, Department of Mathematics, Indian Institute of Technology Bombay, Powai, Mumbai 400076; C-CSRE-149, IIT Campus, Powai, Mumbai 400076 [Tel (022) 2576-7482, 2576-7451 (O), 2576-8482, 2572-0076 (R); Fax 2572-3480; Email vsharma@math.iitb.ac.in; Web http://www.math.iitb.ac.in/~vsharma]; SC: I.

2006: SHARMA, Yagya Dutta (b 1951), PhD, Sp: Molecular Parasitology, Malaria, Molecular Epidemiology; FASC, FNASC, Professor & Head, Department of Biotechnology, All India Institute of Medical Sciences, Ansari Nagar, New Delhi 110029; C-I/9, AIIMS Campus, Ansari Nagar, New Delhi 110029 [Tel (011) 2658-8145, 2659-4609 (O), 2659-4509 (R); Fax 2658-9286; Email ydsharma_aiims@yahoo.com, ydsharma@hotmail.com; Web http://www.aiims.ac.in]; Council: Mem 2015--; SC: VIII.

2007: SHASHIDHARA, Lingadahalli Subrahmanya (b 1963), PhD, Sp: Genetics and Developmental Biology; FASc, FNASC, Professor and Coordinator (Biology), Indian Institute of Science Education and Research (IISER), Dr Homi Bhabha Road, Pune 411008; No B702, IISER Campus, Dr Homi Bhabha Road, Pune 411008 [Tel (020) 2590-8001 (O), 98-234-32303 (M); Fax 2589-9790; Email ls.shashidhara@iiserpune.ac.in]; Council: Mem 2015--; SC: VIII.

1999: SHASTRY, Balajapalli Sriram (b 1950), PhD, Sp: Condensed Matter Theory, Statistical Mechanics; FASc, FNAS, FTWAS, Fellow Am Phy Soc, Distinguished Professor of Physics, Department of Physics, University of California, Santa Cruz, CA 95064, USA [Tel (831) 459-5849 (O); Fax 459-3043; Email sriram@physics.ucsc.edu]; Council: Mem 2003-05; SC: II.

1984: SHASTRY, Sishta Venkata Seetharama (b 1928), MS, PhD, Sp: Genetics, Plant Breeding & Taxonomy; FASc, FNAAS, formerly Asst Professor & Botanist, IARI, New Delhi; Project Co-ordinator (Rice), ICAR, New Delhi; Sr Agricultural Officer and Exec Secretary IRC, FAO (UN) Rome; Director of Research, International Institute of Tropical Agriculture, Nigeria; “Ashoka” 202, Gautami Apartments, Baskathpura, Hyderabad 500027 [Tel (040) 2755-1666, 99-897-11982 (M); Email svshashastry@yahoo.co.in]; SC: XII.
1998 : SHETYE, Satish Ramnath (b 1950), PhD (Washington), Sp: Physical Oceanography; FASc, FNASc, Yashoda, House No. C-14/162, Tonca, Caranzalem, Goa 403002 [Tel (0832) 246-1660 (R), 98-224-85057 (M); Email satishrshetye@gmail.com]; Council: Mem 2005-07; SC: IV.

1994 : SHIVANNA, Kundaranahalli Ramalingaiah (b 1940), PhD, Sp: Reproductive Biology particularly Pollen Biology and Biotechnology, and Conservation Biology; FASc, FNASc, FNAAS, INSA Honorary Scientist and Honorary Senior Fellow, ATREE (Ashoka Trust for Research in Ecology and the Environment), Royal Enclave, Srirampura, Jakkur Post, Bengaluru 560064; formerly Professor and Head, Department of Botany, University of Delhi; Odekar Farms, Nandidhalli, Via Thovinakere, Tumkur District, Karnataka 572138 [Tel (080) 2363-5555 (O), 94-495-43848 (R); Fax 2353-0070; Email shivanna@atree.org]; Lecture: Professor Panchanan Maheshwari Memorial (2004); INSA Senior Scientist (2003-08); SC: VII.

1986 : SHOREY, Tarlok Nath (b 1945), PhD, Sp: Number Theory; FASc, FNASc, Distinguished Professor, Department of Mathematics, Indian Institute of Technology Bombay, Powai, Mumbai 400076; C-16, Building No 2, IIT Campus, IIT Bombay, Powai, Mumbai 400076 [Tel (022) 2576-9451 (O), 2572-6623 (R); Email shorey@math.iitb.ac.in]; SC: I.

1963 : SHRIKHANDE, Sharadchandra Shankar (b 1917), PhD, Sp: Combinatorics & Graph Theory; formerly Director, Mehta Research Institute, Allahabad; G12, Harshada Apartments, Laxminagar, Nagpur 440022 [Tel (0712) 232-334 (R)]; Council: Mem 1969-71; SC: I.

2007 : SHUKLA, Ashok Kumar (b 1947), PhD, Sp: Materials Electrochemistry with special emphasis on Batteries, Fuel Cells and Electrochemical Supercapacitors; FASc, FNASc, FNAE, FECS, Honorary Professor, Solid State and Structural Chemistry Unit, Indian Institute of Science, Bengaluru 560012 [Tel (080) 2360-3282, 2293-2795 (O), 2337-4075 (R); Fax 2360-1310; Email akshukla2006@gmail.com, shukla@sscu.iisc.ernet.in]; SC: M.

2004 : SHYAM LAL (b 1951), PhD, Sp: Atmospheric Science; FASc, FNASc, Honorary Scientist, Physical Research Laboratory, Navrangpura, Ahmedabad 380009; A9 Sterling Row House, Gurukul Road, Memnagar, Ahmedabad 380052 [Tel (079) 2631-4671 (O), 2745-3120 (R); Fax 2631-4659; Email shyam@prl.res.in]; SC: IV.

1995 : SHYAMASUNDAR, Rudrapatna Kallikote (b 1950), ME, PhD, Sp: Computer Science; FASc, FNASc, FNAE, FTWAS, JC Bose National Fellow & Distinguished Visiting Professor, Department of Computer Science and Engineering, Indian Institute of Technology Bombay, Powai, Mumbai 400076; B 185, ANANTA, IIT Bombay, Powai, Mumbai 400076 [Tel (022) 2576-7904 (O), 2572-0001 (R), 98-183-20188, 99-871-30188 (M); Fax 2572-3480; Email shyamasundar@gmail.com; Web http://www.tcs.tifr.res.in/~shyam]; SC: V.
1995 : SIDDIQ, Ebrahimali Abubacker (b 1937), PhD, DSc (hc), Sp: Genetics & Plant Breeding; FNASc, FNAAS, Hon Professor, Institute of Biotechnology & Professor, Jayashankar Telangana State Agricultural University, Rajendranagar, Hyderabad 500030; Plot No. 81, “Jasmine”, Happy Homes Colony, Upparapalli Hyderguda PO, Hyderabad 500048 [Tel (040) 2401-8625 (R), 90-323-26727 (M); Email easiddiq@rediffmail.com, easiddiq@gmail.com]; Medal: Silver Jubilee Commemoration (1997), SL Hora (2011); Council: Mem 1998-2000, Ad Mem 2006; SC: XII.

2011 : SIDDIQI, Imran (b 1957), PhD, Sp: Plant Molecular Genetics; Scientist Gr IV (5) and Group Leader, CSIR-Centre for Cellular and Molecular Biology, Uppal Road, Hyderabad 500007; 1-2-83 St No 1, Kakatiyanagar, Habshiguda, Uppal Road, Hyderabad 500007 [Tel (040) 2719-2570 (O), 98-666-33195 (M); Fax 2716-0591; Email imran@ccmb.res.in, imransiddi@gmail.com]; SC: VII.

1988 : SIKKA, Satinder Kumar (b 1942), PhD, Sp: High Pressure, Shockwaves, Neutron Diffraction & Energy Bands; FASc, FNASC, INSA Honorary Scientist and Scientific Consultant (formerly Scientific Secretary), Office of the Principal Scientific Adviser to the Govt. of India; formerly DAE Homi Bhabha Chair Professor and Distinguished Scientist and Director, Atomic and Condensed Matter Physics Group, BARC, Mumbai; House No 538, Sector 17, Faridabad 121002 [Tel (0129) 408-6016 (R), 99-588-57056 (M); Email sksikka@nic.in]; Medal: HJ Bhabha (2005); SC: II.

1999 : SIMON, Rajiah (b 1948), PhD, Sp: Classical and Quantum Optics, Foundations of Quantum Mechanics, and Quantum Information Theory; FASc, Senior Professor, The Institute of Mathematical Sciences, CIT Campus, Chennai 600113; No 3/358A, Kuppam Main Road, Venkateswara Nagar, Kottivakkam, Chennai 600041 [Tel (044) 2254-1856 (O), 2451-0280 (R), 94-441-11865 (M); Fax 2254-1586; Email simon@imsc.res.in]; SC: II.

1999 : SINGH, Ajit Iqbal (b 1943), PhD, Sp: Functional Analysis, Harmonic Analysis, Quantum Information Theory; FNASc, INSA Honorary Scientist, Apt. 102, Block II, Sixth Floor, Din Apartments, Plot No. 7, Sector 4, Dwarka, New Delhi 110075 [Tel (011) 4501-9316 (R), 92-120-68046 (M); Email ajitis@gmail.com]; Council: Mem 2006-08; SC: I.

1992 : SINGH, Balwant (b 1940), PhD, Sp: Algebraic Geometry & Commutative Algebra; FASc, Senior Scientist, UM-DAE Centre for Excellence in Basic Sciences, Mumbai University Campus, Kalina, Mumbai 400098; 105, Vaigyanik Society, Plots 58-59, Sector 14, Vashi, Navi Mumbai 400703 [Tel (022) 2653-2136 (O), 2788-2238 (R); Email balwantbagga@gmail.com]; SC: I.

2014 : SINGH, Bhim (b 1956), PhD, Sp: Electrical Engineering; FNASC, FNAE, Professor, Department of Electrical Engineering, Indian Institute of Technology, Hauz Khas, New Delhi 110016; 7 New Campus, IIT Delhi, Hauz Khas, New Delhi 110016 [Tel (011) 2659-1045 (O), 2651-6223, 2659-1890 (R), 98-115-02125 (M); Fax 2658-1606, 2658-1264; Email bsingh@ee.iitd.ac.in, bhim_singh@yahoo.com, bhimsinghr@gmail.com]; SC: V.
2005 : SINGH, Bijay (b 1950), PhD, Sp: Soil Fertility and Chemistry; FNAAS, INSA Senior Scientist, Department of Soil Science, Punjab Agricultural University, Ludhiana 141004; 69, Green Field, Ludhiana 141002 [Tel (0161) 240-1960 Ext 317 (O), 98-155-69369 (M); Fax 240-0945; Email bijaysingh20@hotmail.com]; Medal: Professor KS Bilgrami Memorial (2009); Lecture: Professor BD Tilak (2014); Council: Mem 2010-12; SC: XII.

1983 : SINGH, Digvijai (b 1934), MS, PhD, Sp: Mechanical System Dynamics & Tribology; FASc, FNASC, FNAE, formerly VC, University of Roorkee, Director, IIT Roorkee, Roorkee, Vice Chairman, AICTE, New Delhi and Director, CRRI, New Delhi; 1002, Sunbreeze Apts, Tower II, Vaishali, Sector V, Plot 3, Ghaziabad 201010 [Tel (0120) 412-7783 (R); Email dvsingh@comcast.net]; Lecture: Dr GP Chatterjee Memorial (1996); Council: Mem 1992, F Sec 1993-94; SC: V.

1995 : SINGH, Harjit (b 1938), PhD, Sp: Organic Chemistry; FASc, FNASC, Professor Emeritus, Department of Chemistry, Guru Nanak Dev University, Amritsar 143005; 151, Defence Enclave, Amritsar 143001 [Tel (0183) 258-802-9 Ext 3194 (O), 94-656-70668 (M), (+1) 70-372-96849 (M); Fax 258-820; Email harjit_gndu@yahoo.co.in]; Medal: Professor TR Seshadri 70th Birthday Commemoration (2000); Council: Mem 1997-99; SC: III.

2012 : SINGH, Harkesh Bahadur (b 1956), PhD (LKO), PhD (Aston), Sp: Organometallic Chemistry, Inorganic Chemistry; FASc, FNASC, Professor, Department of Chemistry, Indian Institute of Technology Bombay, Powai, Mumbai 400076; B-305, Blue Nile Pacific Enclave, Near Hiranandani Hospital, Powai, Mumbai 400076 [Tel (022) 2576-7190 (O), 2577-0675 (R), 93-238-40676 (M); Fax 2572-3480, 2576-7152; Email chhbsia@chem.iitb.ac.in]; SC: III.

1995 : SINGH, Indra Bir (b 1943), Dr rer nat, Sp: Sedimentology, Marine Geology, Basin and Facies Analysis, Quaternary Geology; INSA Honorary Scientist, Professor, Department of Geology, Lucknow University, Lucknow 226007; 17-11-2C, Metrocity, Nishatganj, Lucknow 226006 [Tel (0522) 274-0015 (O), 307-1969 (R), 94-555-50814 (M); Fax 274-0037; Email indrabir@yahoo.com]; INSA Senior Scientist (2008-13); SC: IV.

1984 : SINGH, Jamuna Sharan (b 1941), PhD, Sp: Ecology, Ecosystems Analysis & Ecophysiology; FASc, FNASC, FTWAS, INSA Senior Scientist, Professor Emeritus, Department of Botany, Banaras Hindu University, Varanasi 221005; N 4/11 A-2-B-T, Rajiv Nagar Colony, Karamundi, Varanasi 221005 [Tel (0542) 236-8399 (O), 257-0120 (R), 93-351-78355 (M); Fax 236-8174; Email singh.js1@gmail.com, singh_js1@yahoo.com, jssingh@bhu.ac.in]; Medal: Professor SB Saksena Memorial (1999); Lecture: BN Chopra (2010); Council: Mem 1989-91; SC: VII.

1994 : SINGH, Lalji (b 1947), PhD, DSc, Sp: Molecular Biology, DNA Fingerprinting, Wildlife Conservation; FASc, FNASC, FNAAS, FTWAS, Bhatnagar Fellow (CSIR), formerly Vice Chancellor, Banaras Hindu University, Varanasi 221005; formerly Director, CCMB, Hyderabad [Tel (0542) 236-8938 (O); Fax 236-9100, 236-9951; Email vcbhu1@gmail.com]; Medal: INSA Young Scientist (1974); Lecture: Professor Vishwa Nath Memorial (1995); SC: X.
1986 : SINGH, Mahendra Pal (b 1931), PhD (Maryland), Sp: Applied Mathematics, Air Pollution Modelling and Biofluid Dynamics; FNASc, formerly Professor, IIT Delhi; Founding Director, Ansal Institute of Technology, Gurgaon; Executive Director, Ansal Institute of Technology and Management, Sector-C, Pocket 9, Sushant Golf City, Lucknow 226002; 101/01 Silver Oak Apts, DLF Qutub Enclave, Phase I, Gurgaon 1222002 [Tel (0124) 408-7186 (O), 436-0833 (R), 99-715-11155 (M); Email profmpsingh33@gmail.com, execdir@aitlucknow.edu.in, mpsingh3@hotmail.com]; SC: I.

2009 : SINGH, Mewa (b 1951), PhD, Sp: Ecology, Animal Behaviour; FASc, FNASc, Ramanna Fellow, Distinguished Professor, Department of Psychology, University of Mysore, Manasagangotri, Mysore 570006; 193, Kuvempu Raste, RT Nagar, Ramakrishnana Nagar PO, Mysore 570022 [Telefax (0821) 241-9372 (O), 290-3129 (R), 94-486-03506 (M); Email mewasinghltm@gmail.com]; SC: VIII.

2011 : SINGH, Nagendra Kumar (b 1958) PhD, Sp: Plant Genomics, Transgenic Development, Molecular Breeding, Grain Quality in Rice and Wheat; FNAAS, National Professor and BP Pal Chair in Genetics and Plant Breeding, NRC on Plant Biotechnology, Indian Agricultural Research Institute, New Delhi 110012; 148 DDA SFS Flats, Sector 5, Pocket 1, Dwarka, New Delhi 110075 [Tel (011) 2584-1186 (O), 2808-1376 (R); Fax 2584-3914; Email nksingh@nrcpb.org, nksingh4@gmail.com]; SC: XII.

2010 : SINGH, Narpinder (b 1962), PhD, Sp: Food Science and Technology; FNASc, FNAAS, FAFST Professor & Coordinator (UGC-SAP), Department of Food Science & Technology, Guru Nanak Dev University, Amritsar 143005; 101 Kabir Park, Amritsar [Tel (0183) 225-8802-09 Ext 3216 (O), 225-5433 (R), 94-647-77980 (M); Fax 225-8820; Email narpinders@yahoo.com]; Medal: INSA Young Scientist (1993); SC: XII.

1988 : SINGH, Nirmal Tej (b 1933), PhD, Sp: Soil Science; FNAAS, formerly Director, CSSRI, Karnal; 123D Kitchlu Nagar, Ludhiana141001 [Tel (0161) 470-188 (R)]; INSA Senior Scientist (1994-98); Council: Mem Jan-Oct 2009; SC: XII.

1990 : SINGH, Pawan Kumar (b 1945), PhD, Sp: Plant Sciences, Microbiology, Algology, Sustainable Agriculture, Research Management; FNAAS, INSA Senior Scientist, Department of Botany, BHU, Varanasi, formerly Vice Chancellor, CSAUA&T, Kanpur; Joint Director (Research) & Project Director & Director, IARI, New Delhi; Joint Director & Director, CRRI, Cuttack; House No B3/22, Shivala, Post Shivala, Varanasi 221001 [Tel (0542) 227-7705 (R), 94-157-14584 (M); Fax 670-1124; Email pkksalgae@yahoo.co.in]; Council: Mem 2010-2011; SC: VII.

1997 : SINGH, Randhir (b 1944), PhD, Sp: Plant Biochemistry & Biotechnology; FASc, FNASc, FNAAS, Director General, Doon Valley Group of Institutes, Sector 17, Near Fire Brigade Station, Outside Jundla Gate, Karnal 132001, Haryana and former Dean, College of Basic Sciences & Humanities, CCS Haryana Agricultural University, Hisar; 1717, Sector 3, Urban Estate, Kurukshetra [Tel (0184) 227-0060/61 (O), 82-954-21000 (M); Fax 225-4670; Email randhirbiotech@yahoo.com]; Medal: Professor KS Bilgrami Memorial (2001); Council: Mem 2008-09; SC: XII.
1992 : SINGH, Rangil (b 1935), PhD, Sp: Plant Biochemistry (Metabolism of Carbohydrates and their Bio-regulation during Growth and Development of Cereals, Legumes, Forages and other Commercial Crops); FNAAS, formerly Head of Biochemistry Department, College of Basic Sciences & Humanitites, PAU, Ludhiana and Director Research, SKUAST, Jammu; 75/2, Trikuta Nagar, Jammu 180012 [Tel (0191) 247-7013 (R), 94-191-83562 (M)]; INSA Senior Scientist (1996-2000); SC: XII.

1991 : SINGH, Rishi Narain (b 1943), PhD, Sp: Geophysics, Geophysical and Environmental Modelling; FASc, INSA Honorary Scientist, CSIR-National Geophysical Research Institute, Uppal Road, Hyderabad 500007; formerly Scientist-in-Charge, CMMACS, Bengaluru and Director, NEERI, Nagpur; 1-4-53/2, Street No 8/3, Habsiguda, Hyderabad 500007 [Tel (040) 2343-4604 (O), 2715-0570 (R); Fax 2343-4651; Email rishiprem@hotmail.com, rnsingh@ngri.res.in]; Council: Mem 2000-2002; SC: IV.

1991 : SINGH, Sarvajit (b 1939), PhD, Sp: Theoretical Seismology & Applied Mathematics; FASc, FNASC, INSA Honorary Scientist, Professor Emeritus, Department of Mathematics, Maharshi Dayanand University, Rohtak, Haryana; 22A, Navvyg Adarsh Apartments, F Block, Vikaspuri, New Delhi 110018 [Tel (011) 2854-9222 (R), 93-122-50454 (M); Email s_j_singh@yahoo.com]; SC: I.

1996 : SINGH, Sita Ram (b 1942), PhD, Sp: Soil and Water Engineering, Irrigation and Drainage Engineering, Ground Water Modelling; FNAE, FNAAS, INSA Senior Scientist, formerly Vice Chancellor, RAU, Pusa, Director, ICAR Research Complex for Eastern Region, Patna; Director, Water Technology Centre for Eastern Region, Bhubaneswar; Senior Research Engineer cum Head, Dept. of Soil & Water Engg, PAU Ludhiana; House No 561, Sector 2, Udyan II, ELDECO Colony, Rae Bareli Road, Lucknow 226025 [Tel 99-356-31990 (M); Email strmsingh@yahoo.com]; SC: XII.

2003 : SINGH, Surendra Pratap (b 1945), PhD, Sp: Ecology, Ecosystem Services and Climate Change; INSA Senior Scientist, formerly Professor and Head, Department of Botany, Kumaon University, Nainital and VC, HN Bahuguna Garhwal University, Srinagar; Advisor, Planning Commission, Uttarakhand State, 411/1, Vasant Vihar, Dehradun 248006 [Telefax (0135) 2763-3403, 97-587-65300 (M); Email surps@yahoo.com]; Council: Mem 2012-14; SC: VII.

2001 : SINGH, Tej Pal (b 1944), PhD, DSc (hc), Sp: Structural Biology, Protein Structures, Peptide Design and Drug Discovery; FASc, FNASC, FTWAS, INSA Senior Scientist, DBT-Distinguished Biotechnology Research Professor, Department of Biophysics, All India Institute of Medical Sciences, New Delhi 110029; 163, City View Apartments, Plot 119, Sector 35, NOIDA 201301 [Telefax (011) 2658-8931 (O), (0120) 297-0172 (R), 93-122-49508 (M); Email tpsingh.aiims@gmail.com]; Medal: Professor GN Ramachandran 60th Birthday Commemoration (2006); Lecture: JL Nehru Birth Centenary (2011); Council: VP 2007-09; Editor-in-Chief, Proceeding of the Indian National Science Academy (2011-13); SC: X.

2011 : SINGH, Vinod Kumar (b 1959), PhD, Sp: Organic Chemistry; FASc, FNASC, Director, Indian Institute of Science Education and Research Bhopal, Bhopal Bypass Road, Bhauni, Bhopal 462066 [Tel (0755) 669-2316 (O), 669-2400 (R), 99-811-44455 (M); Fax 669-2392; Email vinodks@iitk.ac.in; Web http://home.iitk.ac.in/~vinodks/]; Council: Mem 2014--; SC: III.
1975 : SINGH, Virendra (b 1938), PhD, Sp: Theoretical Physics, High Energy Physics, Foundation of Quantum Mechanics, History and Philosophy of Science; FASc, FNASc, FTWAS, formerly Professor of Eminence and Director, TIFR, Mumbai 400005; 51, New Cosmos, Juhu-Versova Link Road, Andheri (W), Mumbai 400053 [Tel (022) 2671-6681 (R); Email vsingh1937@gmail.com, vsingh@theory.tifr.res.in; Web http://www.theory.tifr.res.in]; Professorship: INSA-CV Raman Research Professor (2003-08); SC: II.

2004 : SINGH, Vishwakarma (b 1951), PhD, Sp: Organic Chemistry; Professor, Department of Chemistry, Indian Institute of Technology Bombay, Powai, Mumbai 400076; C-144, CSRE Building Hill Side, IIT Campus, Powai, Mumbai 400076 [Tel (022) 2576-7168 (O), 2576-8168 (R), Fax 2572-3480; Email vks@chem.iitb.ac.in]; SC: III.

2009 : SINGH, Yadvinder (b 1951), PhD, Sp: Soil Science; FNAAS, INSA Senior Scientist, Department of Soil Science, Punjab Agricultural University, Ludhiana 141004; formerly Head, Department of Soils, PAU, Ludhiana; 23, Professor Colony, Near Agar Nagar A, Ludhiana 141012 [Tel (0161) 240-1960 Ext.317(O), 255-1674 (R), 98-722-18185 (M), Fax 240-0945; Email yadvinder16@rediffmail.com]; Medal: Professor KS Bilgrami Memorial (2015); SC: XII.

2006 : SINGH, Yashwant (b 1944), DPhil, Sp: Condensed Matter Theory, Theoretical Biology; FASc, FNASc, INSA Senior Scientist, Distinguished Professor, Department of Physics, Banaras Hindu University, Varanasi 221005; N-8/236, R-54, Ganesh Dham Colony, Nevada, Varanasi 221005 [Tel (0542) 670-1562 (O), 94-159-91459 (M); Fax 236-8174, 236-9889; Email ysingh@bhu.ac.in, singh.yas44@gmail.com]; SC: II.

2013 : SINGH, Yogendra (b 1957), PhD, Sp: Bacterial Pathogenesis, Bacterial Protein Toxins, Signal Transduction in Bacteria; FASc, FNASc, Chief Scientist, CSIR-Institute of Genomics & Integrative Biology, Mall Road, Delhi 110007 ; BA-11, Shalimar Bagh (West), Delhi 110088 [Tel (011) 2766-6156 (O), 98-710-95673 (M); Fax 2766-7471; Email ysingh@igib.res.in]; SC: IX.

1989 : SINGHI, Navin Kumar Madhavprasad (b 1949), PhD, Sp: Discrete Mathematics & Computer Science; FASc, Distinguished Professor, Department of Mathematics, Indian Institute of Technology Bombay, Powai, Mumbai 400076; 1601 Montreal Tower, B-31 Shastri Nagar, Lokhandwala, Andheri (West), Mumbai 400053 [Tel 93-241-11460 (O), (022) 2633-7165 (R); Email navin@math.iitb.ac.in]; Medal: INSA Young Scientist (1977); SC: I.

2000 : SINGHVI, Ashok Kumar (b 1950), PhD, Sp: Quaternary Climate and Geochronology, Radiation Effects and Dosimetry; FASc, FNASc, FTWAS, Vice-President, INQUA (2015-19); Honorary Scientist, AMOPH Division, Physical Research Laboratory, Navrangpura, Ahmedabad 380009; B-31, Shakti Enclave, Satya Marg, Bodakdev, Ahmedabad 380054 [Tel (079) 2631-4366 (O), 2685-5831 (R), 90-990-61962 (M); Fax 2631-4900; Email singhvi@prl.res.in, 2aksprl11@gmail.com]; Medal: Professor K Naha Memorial (2007); Council: Mem 2006-08; SC: IV.
1978 : SINHA, Akhoury Purnendu Bhusan (b 1928), PhD, Sp: Solid State Chemistry; FASc, c/o Morris Research Inc, 1918, Univ Avenue, Berkeley, CA 94704, USA; SC: III.

1966 : SINHA, Awadh Kishore Prasad (b 1918), PhD (Michigan), Sp: Social, Experimental and Personality; formerly Chief Psychologist & Director, Institute of Psychological Research, Ministry of Defence (GoI), Director, Institute of Psychological Res & Service, Patna University, Senior Professor & Head, Department of Psychology, Rajasthan and Ravishankar University; Road No 3, Rajendra Nagar, Patna 800016 [Tel (0612) 267-1177 (R)]; SC: XI.

1989 : SINHA, Bikash Chandra (b 1945), PhD, DSc, Sp: Nuclear Physics, High Energy Physics, Quark Gluon Plasma, Early Universe Cosmology; FASc, FNASc, FTWAS, F.Inst. P (UK), INSA Honorary Scientist, DAE Homi Bhabha Professor, formerly Director, Variable Energy Cyclotron Centre, Department of Atomic Energy, Sector-1, Block-AF, Bidhan Nagar, Kolkata 700064; formerly Director, SINP, Kolkata 700064; 2/4 B Sarat Bose Road, Kolkata 700020 [Tel (033) 2337-0032, 2337-1230 (O), 2475-2206, 2475-9927 (R); Fax 2334-6871; Email bikash@vecc.gov.in]; Medal: Meghnad Saha (2015); Council: Mem 2001-03, Ad Mem 2016; SC: II.

1994 : SINHA, Kalyan Bidhan (b 1944), PhD, Sp: Spectral Theory & Non-Commutative Geometry & Stochastic Processes; FASc, FTWAS, SERB-Distinguished Fellow and Honorary Professor, Jawaharlal Nehru Centre for Advanced Scientific Research, PO Jakkur, Bengaluru 560064; formerly Distinguished Scientist and Director, ISI; formerly Bhatnagar Fellow of CSIR; Distinguished Associate, IISc [Tel (080) 2208-2997 (O), 2366-5608 (R); Fax 2208-2897, 2362-2762; Email kbs_jaya@yahoo.co.in, kbs@jncasr.ac.in]; Lecture: Professor VV Narlikar Memorial (2009); Council: Mem 2003-05; SC: I.

1979 : SINHA, Krityunjai Prasad (b 1929), PhD (Poona & Bristol), Sp: Theoretical Research on Various Phenomena and Condensed Matter Nuclear Science; FASc, FNASc, INSA Honorary Scientist, Emeritus Professor, Department of Physics, IISc, Bengaluru; formerly Senior Professor, Div of Physics & Mathematical Sc, IISc, Bengaluru & Director, Institute for Self-Organizing Complex Systems, Shillong; D-105, Sterling Residency, Dollar Colony, RMV II Stage, Bengaluru 560094 [Tel (080) 2351-8553 (R); Email kritpsinha@gmail.com, kpsin03@yahoo.com]; INSA Senior Scientist (1990-93); SC: II.

2009 : SINHA, Somdatta (b 1951), PhD, Sp: Theoretical and Computational Biology, Complex Systems; FASc, FNASc, Professor of Biology, Indian Institute of Science Education and Research (IISER) Mohali, Sector 81, Knowledge City, PO Manauli SAS Nagar, Mohali 140306 [Tel 89-687-44849 (M); Fax (0172) 224-0266, 224-0124; Email ssinha@iisermohali.ac.in, somdattasinha@gmail.com]; SC: M.
2007 : SINHA, Subrata (b 1958), MD PhD, Sp: Molecular Oncology; Director, National Brain Research Centre, Nainwal Mode, Manesar 122050, Haryana [Tel (0124) 233-8929 (O), 98-119-01376 (M); Fax 233-8928; Email director@nbrc.ac.in, subrata.sinha@nbrc.ac.in]; Lecture: Professor Vishwa Nath Memorial (2015); SC: XI.

2015 : SINHA, Sudeshna (b 1962), PhD, Sp: Nonlinear Dynamics, Chaos and Complex Systems; FASc, Professor, Indian Institute of Science Education and Research (IISER) Mohali, Knowledge City, Sector-81, SAS Nagar, Manauli P.O. 140306 [Telefax (0172) 224-0266 (O), 99-156-62755 (M); Email sudeshna@iisermohali.ac.in]; SC: II.

1992 : SINHA, Vishwa Raman Prasad (b 1938), PhD, Sp: Fish Biology, Reproductive Physiology & Aquatic Productivity Management and Fisheries Research Management; FNASc, FNAAS, formerly Director and founder VC, CIFE, Mumbai, formerly Consultant to the World Bank & UN/FAO, presently CEO, Cplogin LLC and Teclinics, LLC, Pittsburgh, USA; 1895 Pioneer Drive, Sewickley, PA 15143, USA [Tel (001) 412-596-3902, 727-777-8568, 412-367-2030 (M); Fax 412-367-1854; Email vishwaraman@hotmail.com, drvrpsinha@yahoo.com]; SC: VIII.

2013 : SIVA RAM MURTHY, Chebiyyam (b 1960), PhD, Sp: Computer Science (Parallel and Distributed Computing, Real-Time Systems, Computer Networks); FNASc, FNAE, FIEEE, FTWAS, Professor, Department of Computer Science and Engineering, Indian Institute of Technology Madras, Chennai 600036; No. 263/33, Block 2, 3E, Ceebros Orchid, Velachery Main Road, Chennai 600042 [Tel (044) 2257-4361 (O), 4233-4427 (R), 94-444-98619 (M); Fax 2257-4352; Email murthy@iitm.ac.in]; Medal: INSA Young Scientist (1991); SC: V.

1998 : SIVARAM, Swaminathan (b 1946), PhD, DSc (bc, Purdue), Sp: Polymer Science; FASc, FNASc, FNAE, FTWAS, CSIR Bhatnagar Fellow, A201, Polymers and Advanced Materials Laboratory, CSIR-National Chemical Laboratory, Dr Homi Bhabha Road, Pune 411008; Apt 10, Gulmohar Glory, 5, Gulmohar Park, ITI Road, Aundh, Pune 411007 [Tel (020) 2590-3260 (D), 2590-2614 (R), 2589-3629, 4120-5731 (R); Fax 2590-2615; Email s.sivaram@ncl.res.in; Web http://www.swaminathansivaram.in]; Medal: Vishwakarma (2003); Council: VP 2004-06; SC: V.

1986 : SIVARAMAN, Churya (b 1923), PhD, Sp: Molecular Enzymology and Enzyme Technology, FASc, formerly Dy Director, NCL, Pune; 111, Anand Park, Aundh, Pune 411007 [Tel (020) 2588-6626 (R); Email churya.sivaraman@gmail.com]; SC: X.

2012 : SOBTI, Ranbir Chander (b 1948), PhD, DSc, Sp: Cell Biology, Molecular Genetics Cytogenetics, Animals and Humans; FNASc, FNAAS, FAMS, FTWAS, Vice-Chancellor, Babasaheb Bhimrao Ambedkar University, Vidyai Vihar, Raebareli Road, Lucknow 226025; formerly VC, Panjab University, Chandigarh; Immediate Past President, Indian Science Congress Association [Tel (0522) 244-0820, 299-8747 (O), 244-0821, 296-8833 (R); Email vc@bbau.ac.in, rcsobti@bbau.ac.in]; Medal: INSA Young Scientist (1977); Council: Ad Mem 2014, 2015; SC: VIII.
1978: SODHA, Mahendra Singh (b 1932), DPhil, Sp: Plasmas, Optics & Energy; FNASc, Visiting Professor in Physics and Education, Department of Education Building, Lucknow University, Lucknow 226007; formerly VC, Indore, Lucknow and Bhopal Universities; B113, Nirala Nagar, Lucknow 226020 [Tel (0522) 278-8033 (R), 98-397-05081 (M); Email msodha@rediffmail.com]; SC: II.

2009: SOMASUNDARAM, Kumaravel (b 1962), PhD, Sp: Cancer Biology, Virology, Genetics; FASc, FNASC, Professor, Department of Microbiology and Cell Biology, Indian Institute of Science, Bengaluru 560012; E17, Faculty Quarters, IISc Campus, Indian Institute of Science, Bengaluru 560012 [Tel (080) 2360-7171 (O), 2293-2973 (Lab); Fax 2360-2697; Email skumar@mcb.iisc.ernet.in, ksomasundaram1@gmail.com]; SC: XI.

1983: SOMAYAJULU, Bhamidipati Lakshmidhara Kanakadri (b 1937), PhD, Sp: Geochemistry, Geochronology and Oceanography; FASc, FNASC, FTWAS, 3 New Aangan Apartments, Near LJ Commerce College, Vastrapur, Ahmedabad 380015 [Tel (079) 2674-7807 (R); Email lakshmidhara@yahoo.com]; Lecture: JL Nehru Birth Centenary (1997); Council: Mem 1988-90; SC: IV.

2009: SONTI, Ramesh Venkata (b 1960), PhD, Sp: Pathogen-plant Interactions; FASc, FNASC, FNAAS, Chief Scientist, CSIR-Centre for Cellular and Molecular Biology, Uppal Road, Hyderabad 500007; Type V, Apartment No. 3, CCMB Staff Quarters, HMT Nagar, Nacharam, Hyderabad 500076 [Tel (040) 2719-2577 (O), 2715-0821 (R), 94-410-55295 (M); Fax 2716-0591; Email sonti@ccmb.res.in]; SC: VII.

1996: SOOD, Ajay Kumar (b 1951), PhD, Sp: Condensed Matter Physics; FASc, FNASC, FTWAS, FRS, Professor, Department of Physics, Indian Institute of Science, Bengaluru 560012; DQ-3, New Housing Colony, IISc Campus, Bengaluru 560012 [Tel (080) 2360-2238, 2293-2964 (O), 2360-8323, 2293-2927 (R); Fax 2360-2602; Email asood@physics.iisc.ernet.in; Web http://www.physics.iisc.ernet.in/~asood]; Medal: HJ Bhabha (2002); Lecture: Professor KR Rao Memorial (2000); Council: VP 2008-10; SC: II.

1994: SOPORY, Sudhir Kumar (b 1948), PhD, Sp: Molecular Plant Physiology; FASc, FNASC, FNAAS, FTWAS, House No 584, Sector 14, Faridabad 121007, Haryana [Tel (0129) 222-2208 (R); Email sopory@hotmail.com]; Lecture: Professor Panchanan Maheshwari Memorial (2000), SK Mitra Memorial (2012), JL Nehru Birth Centenary (2014); Council: VP 2004-06; SC: VII.

2011: SOWDHAMINI, Ramanathan (b 1964), PhD, Sp: Structural Bioinformatics, Protein Sequence Analysis, Genome Analysis, Function Prediction, FASc, Associate Professor, National Centre for Biological Sciences, Tata Institute of Fundamental Research, Bengaluru 560065; C3, Mallige Apartments, National Centre for Biological Sciences, TIFR, UAS-GKV Campus, Bellary Road, Bengaluru 560065 [Tel (080) 2366-6001, 2366-6250 (O), 2366-6473 (R); Email mini@ncbs.res.in; Web http://caps.ncbs.res.in]; SC: X.
1976 : SREEKANTAN, Badanaval Venkata (b 1925), PhD, Sp: Cosmic Rays, High Energy Astrophysics; FASc, Honorary Visiting Professor, National Institute of Advanced Studies, IISc Campus, Bengaluru 560012; formerly Director, TIFR, Mumbai; Usha Kiran, 231, 15th Cross Road, Malleswaram, Bengaluru 560003 [Tel (080) 2218-5082 (O), 2334-7434 (R); Fax 2360-6634; Email bvssreekantan@gmail.com, bvs@nias.iisc.ernet.in]; Professorship: INSA-Srinivasa Ramanujan Research Professor (1987-92); Medal: HJ Bhabha (1978); Lecture: Blackett Memorial (1978); SC: II.

1992 : SRIDHARAN, Asuri (b 1937), PhD (Purdue), DSc (IISc), Sp: Engineering, Properties of Clays; FASc, FNAE, Distinguished Alumni of Purdue University and Indian Institute of Science, INSA Honorary Scientist and Professor Emeritus, Department of Civil Engg., Indian Institute of Science, Bengaluru 560012; formerly Dy Director & Advisor, IISc; “Saptagiri” No. 40, West Park Road, between 13th & 14th Cross, Malleswaram, Bengaluru 560003 [Tel (080) 2334-1046 (R), 98-458-06379 (M); Email asridhan@yahoo.com, sridharanasuri@yahoo.com]; Medal: PC Mahalanobis (2005); INSA Senior Scientist (2003-07); Council: Mem 2009-11; SC: V.

1980 : SRIDHARAN, Ramaiyengar (b 1935), PhD, Sp: Algebra; FASc, INSA Senior Scientist, Chennai Mathematical Institute, H1, Sipoot IT Park, Siruseri, Kelambakkam 603103 [Email rsridhar@cmi.ac.in]; Council: Mem 1990-92; SC: I.

1994 : SRIMAL, Rikhab Chand (b 1937), MD, Sp: Pharmacology, Natural Products & Toxicology; FNASc, FAMS, formerly Director, IITR, Lucknow; B-4, Sarita Vihar, New Delhi 110076 [Tel (011) 4140-2719 (R), 98-991-93701 (M); Email rcsrimal@yahoo.com, rcsrimal@hotmail.com]; SC: XI.

2009 : SRINIVAS, Vasudevan (b 1958), PhD, Sp: Algebra, Algebraic Geometry; Senior Professor, School of Mathematics, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400005; 601 Satyendra, TIFR Colony, Homi Bhabha Road, Mumbai 400005 [Tel (022) 2278-2217 (O), 2280-4966 (R); Fax 2280-4610/11; Email srinivas@math.tifr.res.in]; Medal: INSA Young Scientist (1987); SC: I.

1999 : SRINIVASAN, Jayaraman (b 1947), PhD, Sp: Thermal Sciences, Atmospheric Sciences; FASc, FNAE, Chairman, Divecha Centre for Climate Change, Professor, Centre for Atmospheric and Oceanic Sciences, Indian Institute of Science, Bengaluru 560012; 004, Chandrika Apartments, 64, East Park Road, Malleswaram, Bengaluru 560003 [Tel (080) 2293-3068 (O), 2331-4998 (R); Fax 2360-0865; Email jayes@caos.iisc.ernet.in]; SC: V.

1985 : SRINIVASAN, Mandakolathor Subramanya (b 1938), PhD, Sp: Oceanic Biostratigraphy & Paleoceanography; FASc, FNASc, FTWAS, Professor Emeritus, Centre of Advanced Study in Geology, Banaras Hindu University, Varanasi 221005; formerly Head, Department of Geology, BHU & Director, Academic Staff College, BHU, Varanasi; HIG Flat No. 42/4, Kabir Nagar, Durga Kund, Varanasi 221005 [Tel (0542) 230-7311 Ext 47 (O), 231-1887 (R); Fax 236-8174; Email mssrinivasan@rediffmail.com]; Council: Mem 1993-94; SC: IV.
1995 : SRINIVASAN, Mandayam Chakravarti (b 1935), PhD, Sp: Mycology, Industrial Microbiology & Enzyme Technology; formerly Emeritus Scientist, Biochemical Sciences Division, NCL, Pune; *Row House No. 17, “Planet Millennium”, Pimple Saudagar, Pune 411027* [Tel (020) 2740-4147 (R), 98-231-42469 (M); Email mcsaroja@gmail.com, srinivasanmc@gmail.com]; SC: VII.

1996 : SRINIVASAN, Ramaswamiah (b 1943), PhD, Sp: Precambrian Geology, Sedimentation & Structure; FASc, FNAsc, formerly Scientist F, NGRI, Hyderabad; *No. 114, Kshithija Ramanashree Nagar, Bannerghatta Road Post, Bengaluru 560076* [Tel (080) 2643-2614, 96-323-19090 (M); Email srinimalu@gmail.com]; SC: IV.

1987 : SRIVASTAVA, Chandra Mani (b 1932), PhD, DIC (Lond), Sp: Ferromagnetic Relaxation & Superconductivity; FNAsc, Professor Emeritus, Department of Physics, Indian Institute of Technology Bombay, Powai, Mumbai 400076; formerly Professor of Physics & Head, Advanced Ctr for Research in Electronics & Materials Science, IIT, Mumbai; *604, Prerana, Opposite IIT Main Gate, Powai, Mumbai 400076* [Tel (022) 2572-2545, 2572-6530 (O), 2578-7127 (R); Email srivascm@iitb.ac.in]; SC: II.

2012 : SRIVASTAVA, Deepak Chandra (b 1956), PhD, Sp: Structural Geology, Precambrian Geology and Fluid-inclusions; FASc, FNAsc, Professor, *Department of Earth Sciences, Indian Institute of Technology, Roorkee 247667; 205/4, Saraswati Kunj, IIT, Roorkee 247667* [Tel (01332) 285-558 (O), 285-112 (R), 94-56-381281 (M); Fax 285-638; Email dpkesfes@iitr.ernet.in, dpkesfes@gmail.com]; SC: IV.

2016 : SRIVASTAVA, Dinesh Kumar (b 1952), PhD, Sp: Theoretical Nuclear Physics; FNAsc, Distinguished Scientist & Director, *Variable Energy Cyclotron Centre, 1/AF, Bidhan Nagar, Kolkata 700064* and Senior Professor & Chair, Board of Studies (Physical Sciences), Homi Bhabha National Institute (Deemed University); *C3/44, Kendriya Vihar, V.I.P. Road, Mondal Ganthi, Kolkata 700052* [Tel (033) 2359-0488, 2334-5125 (O), 2525-0032 (R), 98-361-76868 (M); Fax 2334-6871; Email dinesh@vecc.gov.in, srivastava.dinesh.kumar@gmail.com]; SC: II.

1994 : SRIVASTAVA, Onkar Nath (b 1942), PhD, Sp: Physics of Materials; Hydrogen Energy, Nano Science and Technology, Professor of Physics, *Department of Physics, Banaras Hindu University, Varanasi 221005; B-26, Sampoornanand Nagar, Sigra, Varanasi* [Tel (0542) 236-8468, 230-7307 (O), 222-3047 (R); Fax 236-9889; Email heponsphy@gmail.com]; Council: Mem 2013-15; SC: II.

1977 : SRIVASTAVA, Pratap Narain (b 1927), DPhil, DSc (bc), Sp: Radiation Biology; FNAsc, FAMS, First Chancellor, Manipur Central University, Imphal, Chairman, National Board of Accreditation, Govt. of India, New Delhi and Professor Emeritus, JNU, New Delhi; formerly VC, JNU, Member Planning Commission, Govt. of India, New Delhi and Chairman, Governing Body, VP Chest Institute, University of Delhi; *163 National Media Centre, NH 8, Gurgaon 122002* [Tel (0124) 235-6188, 235-5972 (R); Fax 235-5972; Email pns07@yahoo.com]; Medal: Aryabhata (1989); Council: Treas 1985-88; SC: VIII.
1987: SUBBA RAO, Ganugapati Sree Rama (b 1937), PhD (Manchester), DSc (Andhra), Sp: Organic Chemistry; FASc, INSA Honorary Scientist, Department of Organic Chemistry, Indian Institute of Science, Bengaluru 560012; IA, Pradhan Apartments, 16/5, 18th Cross Malleswaram, Bengaluru 560055 [Tel (080) 2293-2403 (O), 2346-6430 (R), 98-863-10603 (M); Fax 2360-0529; Email gsrs@orgchem.iisc.ernet.in, gsrsrao@gmail.com]; Medal: Professor TR Seshadri 70th Birthday Commemoration (1997), Golden Jubilee Commemoration (Chem Sc) (2004); INSA Senior Scientist (2003-07); Council: Mem 2001-03; SC: III.

1992: SUBBA RAO, Gundlapalli Venkata (b 1940), PhD, Sp: Solid State Chemistry & Materials Science; FASc, 12, Westlake Drive, South Barrington, IL 60010, USA [Tel 001-847-426-3987; Email gvsr2012@gmail.com]; SC: III.

1983: SUBBA RAO, Nanjappa Shamanna (b 1926), PhD, Sp: Soil Microbiology & Biofertilizers; FNAAS, formerly Project Director, IARI, New Delhi; Apt 201, Block I, Jain Prakriti Apts, 63, Kanakapura Main Road, 7th Block, Jayanagar, Bengaluru 560070 [Tel (080) 2693-2702 (R)]; INSA Senior Scientist (1997-99); SC: XII.

1995: SUBBA RAO, Pillarisetti V (b 1937), PhD, Sp: Biochemistry, Immunology; President Research, Bigtec Private Limited, JK Towers, Sangam Circle, 46th Cross, Jayanagar VIII Block, Bengaluru 560082; 41/3 Aarabi Apts, 6th Main, 13th Cross Road, Malleswaram, Bengaluru 560003 [Tel (080) 4017-0174 (O), 2334-8568 (R), 94-484-68566 (M); Fax 4017-0102; Email pvs@bigtec.co.in, pvs_rao@yahoo.com]; SC: X.

1978: SUBBARAO, Eleswarapu Chinna (b 1928), MS, PhD, Sp: Materials Science, R&D Management; FASc, FNAE, Chief Consulting Advisor, Tata Research Development and Design Centre, 54B, Hadaspar Industrial Estate, Pune 411013; Daamini, 6 Pallod Farms, Baner Road, Pune 411045 [Tel (020) 6608-6267 (O), 98-509-65686 (M); Fax 6608-6399; Email ec.subbarao@tcs.com, ecsubbarao@gmail.com]; Lecture: INSA Prize for Materials Science (1995); Council: Mem 1982-84; SC: V.

2003: SUBBARAO, Kalluri (b 1939), PhD, DSc, Sp: Neurochemistry, Molecular Biology of Aging; FNASC, FAMS, INSA Honorary Scientist, School of Medical Sciences, University of Hyderabad, Hyderabad 500046; Apt No G-203, Jayabheri Silicon County, High Tech City Road, Kothaguda PO, Hyderabad 500084 [Tel (040) 2313-4180 (O), 4020-0071 (R), 94-407-34284 (M); Email ksrbrain@gmail.com]; SC: XI.

1995: SUBBARAO, Sarala Karumuri (b 1943), PhD, Sp: Insect Genetics, Cytogenetics, Molecular Entomology & Epidemiology, Transmission Dynamics and Control of Vector-borne Diseases with Special Interest in Malarriology; FNASC, Consultant, Vector Borne Diseases Science Forum, Epidemiology and Communicable Diseases Division, Indian Council of Medical Research, New Delhi 110029; formerly Director, National Institute of Malaria Research, New Delhi; Apt. 704, Block 13, Eastend Apartments, Mayur Vihar Phase 1 Extension, Delhi 110096 [Tel (011) 4309-4675 (O), 98-106-05455 (M); Email subbaraosk@gmail.com]; SC: VIII.
1992 : SUBRAHMANYAM, Nekkalapudi Chinna (b 1943), PhD, Sp: Plant Molecular Biology & Genetics; FASc, FNAAS, formerly Professor & Dean, School of Life Sciences, University of Hyderabad, Hyderabad; Unit 3, 44 Grange Park Avenue, Doncaster, Victoria, Australia 3108 [Tel 61-3-9848-9850 (R), Fax 9848-9850; Email naveena.nekkalapudi@statetrustees.com.au]; SC: VII.

1960 : SUBRAMANIAN, Chiryathumadom Venkatachalier (b 1924), PhD, DSc, Sp: Mycology, Plant Pathology & Evolution; FASc, FNAAS, Corr Mem, Belgian Royal Acad For Sc, formerly Senior Professor & Director, CAS in Botany, Madras Univ; A-8, Damayanthi Apts, 17 South Mada Street, Nungambakkam, Chennai 600034 [Tel (044) 2823-4941 (R); Email cvsubra1952@yahoo.co.in]; Lecture: Professor TS Sadasivan (1988); INSA Senior Scientist (1989-92); Council: Mem 1970-71; SC: VII.

1990 : SUBRAMANIAN, Sankaran (b 1942), PhD (Leicester), Sp: NMR, EPR, Theoretical Chemistry, Magnetic Resonance Imaging; FASc, Emeritus Professor, Department of Chemistry, Indian Institute of Science Education and Research, Thiruvananthapuram 695016; Adjunct Professor, Department of Chemistry, Indian Institute of Technology Madras, Chennai 600036 [Tel (044) 2243-0942 (R), 95-001-12796 (M); Email subukannan@gmail.com, subramsa@iisertvm.ac.in]; SC: III.

1995 : SUBRAMONIAM, Thanumalayaperumal (b 1941), PhD, DSc, Sp: Invertebrate Reproductive Biology & Cryobiology; FAAS, FNASC, Senior Scientist, Centre for Climate Change Studies, Sathyabama University, Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai 600119; 3/552, 3rd Cross Street, LP Nagar, Kottiwakkam, Chennai 600041; [Tel (044) 2450-3150-3155 (O), 2451-0560 (R); Fax 2450-2344; Email tsbl71@hotmail.com]; Medal: Chandrakala Hora Memorial (2002); Lecture: Professor Har Swarup Memorial (2008); SC: VIII.

1973 : SUDARSHAN, Ennackal Chandy George (b 1931), PhD (Rochester), DSc, DSc (hc), Sp: Particles, Quantized Fields and Dynamics Foundations; FASc, Mem, European Academy of Science and Letters; Mem, Academie Internationale de Philosophie des Sciences, FTWAS, Department of Physics, Texas University, Austin, Tx 78712; 12216 Antoinette Place Austin, 78727, USA [Tel (512) 471-5229 (O), 834-1722 (R); Fax 471-9637; Email sudarshan@physics.utexas.edu]; Medal: SN Bose (1977); SC: II.

1968 : SUKH DEV (b 1923), PhD, DSc, DSc (hc), Sp: Organic Chemistry, Natural Products, Drug Discovery, Technology Development; FASc, FTWAS, 120, ISCON Mega City, Bhavnagar 364001, Gujarat [Tel (0278) 649-9072 (R); Email sdlala1924@gmail.com]; Professorship: INSA-SN Bose Research Professor (1988-93); Medal: Vishwakarma (1979), Professor TR Seshadri 70th Birthday Commemoration (1982), Meghnad Saha (1987); Council: Mem 1986-88; SC: III.

1995 : SUKHATME, Suhas Pandurang (b 1938), SM, ScD, Sp: Heat Transfer & Energy; FASc, FNAE, Professor Emeritus, Mech Engg Department, Indian Institute of Technology Bombay, Powai, Mumbai 400076; Flat 2A/8C Anjaneya Coop. Housing Society Ltd., Orchard Avenue, Opp Hirmandani School, Powai, Mumbai 400076 [Tel (022) 2576-7518 (O), 2570-1052 (R); Email sukhatme@iitb.ac.in, spsiitb@yahoo.co.uk]; Lecture: DS Kothari Memorial (2005); Council: Mem 1998-2000; SC: V.
2005 : SUKUMAR, Raman (b 1955), PhD, Sp: Ecology; FASc, Professor, Centre for Ecological Sciences, Indian Institute of Sciences, Bengaluru 560012; 713/714, Shobha Windfall Apts., Jakkur Road, Sahakarnagar PO, Amrutha Halli, Bengaluru 560092 [Tel (080) 2360-0382 (O), 4091-4760 (R); Fax 2360-2280; Email rsuku@ces.iisc.ernet.in]; SC: VIII.

2013 : SUNDAR, CS (b 1952), PhD, Sp: Materials Science and Condensed Matter Physics, Positron Annihilation Spectroscopy; FASc, FNASC, JC Bose National Fellow, Material Science Group, Indira Gandhi Centre for Atomic Research, Kalpakkam 603102; 1, 2nd Avenue, DAE-Township, Kalpakkam 603102 [Tel (044) 2748-0069 (O), 2748-1192 (R), 97-905-22807 (M); Fax 2748-0081; Email css@igcar.gov.in, sundarcss@gmail.com]; SC: VI.

2006 : SUNDAR, Shyam (b 1953), MD, Sp: Medicine, Infectious Diseases, Visceral Leishmaniasis, HIV Medicine; FASc, FNASC, FAMS, FRCP, FTWAS, Professor of Medicine, Institute of Medical Sciences, Banaras Hindu University, Varanasi 221005; 6, SK Gupta Nagar, Lanka, Varanasi 221005 [Tel (0542) 236-7795 (R); Fax 236-7568; Email drshyamsundar@hotmail.com, doctorshyamsundar@gmail.com]; Council: Mem 2012-14; SC: XI.

1996 : SUNDARARAJAN, G (b 1953), PhD, Sp: Surface Engineering & Deformation Behaviour; FASc, FNASC, FNAE, Director, International Advanced Research Centre for Powder Metallurgy and New Materials (ARCI), Balapur PO, Hyderabad 500005 & Professor, Department of Metallurgical and Materials Engg, IIT, Chennai 600036; Flat No. 401, Lokeshwari Residency, 1-4-94, Snehanagar Colony, Street No 8, Habsiguda, Hyderabad 500007 [Tel (040) 2444-3167 (O), 2717-6029 (R); Fax 2444-3168; Email director@arci.res.in, gsundar@arci.res.in]; Medal: INSA Young Scientist (1985); Lecture: INSA Prize for Materials Science (2007); Council: Mem 2012-14; SC: V.

2004 : SUNDER, Viakalathur Shankar (b 1952), PhD, Sp: Subfactors, Operator Algebras, Functional Analysis; FASc, FNASC, FNAE, Professor, Institute of Mathematical Sciences, CIT Campus, Taramani, Chennai 600113; E1, Block III, Shivani Apts, 40 East Coast Road, Thiruvanmiyur, Chennai 600041 [Tel (044) 2254-3210 (O), 2451-6082 (R); Fax 2254-1586; Email sunder@imsc.res.in]; SC: I.

2010 : SURAPPA, Mirle K (b 1951), PhD, Sp: Material Processing, Solidification Processing of Metal Matrix Composites, Tribology of MMCs; FNAE, Professor, Department of Materials Engineering, Indian Institute of Science, Bengaluru 560012 [Tel (080) 2293-2697 (O), 94-781-00300 (M); Email mirle@materials.iisc.ernet.in]; SC: V.

2010 : SURESH, Kattera Appanna (b 1948), PhD, Sp: Soft Condensed Matter (Physics of Liquid Crystals and Surface Science); FNASC, Scientist of Eminence, Centre for Nano and Soft Matter Sciences (CNSMS), PB No. 1329, Prof. UR Rao Road, Jalahalli, Bengaluru 560013; No. 92, 4 Main Road, Amarjyothi Layout, Cholanagar, RT Nagar Post, Bengaluru 560032 [Tel (080) 2345-6404, 2838-2924 (O), 2333-0887 (R); Fax 2838-2044; Email suresh@csmr.res.in, skattera@yahoo.com]; SC: II.
2012 : **SURESH, Venapally** *(b 1966)*, PhD, Sp: Algebra and Algebraic Geometry; FASc, Professor, Department of Mathematics & Statistics, University of Hyderabad 500046; 5-5-1025/102, Mallikarjuna Nagar North, LB Nagar, Hyderabad 500068 [Tel (040) 2301-1469 (O), 93-910-13585 (M); Fax 2301-1469; Email suresh.venapally@gmail.com]; **Medal:** INSA Young Scientist (1997); SC: I.

1990 : **SUROLIA, Avadhesha** *(b 1947)*, PhD, Sp: Protein Chemistry, Protein Folding, Function & Design for Therapeutics; FASc, FNASC, FTWAS, Professor, Molecular Biophysics Unit, Indian Institute of Science, Bengaluru 560012; formerly Director, NII, New Delhi [Tel (080) 2293-2714, 2360-2763; Fax 2360-0535; Email surolia@mbu.iisc.ernet.in]; **Medal:** INSA Young Scientist (1976), Professor GN Ramachandran 60th Birthday Commemoration (2000); **Lecture:** JL Nehru Birth Centenary (2008); SC: X.

1963 : **SWAMINATHAN, Monkombu Sambasivan** *(b 1925)*, PhD (Cantab), DSc *(bc)*, Sp: Genetics & Agriculture; FASc, FRS, Foreign Fellow Russian Acad, Foreign Assoc US NAS, FTWAS, former MP (Rajya Sabha), UNESCO Professor in Ecotechnology and Chairman, MS Swaminathan Research Foundation, 3rd Cross Street, Taramani, Chennai 600113; 21, Ratna Nagar, Teynampet, Chennai 600018 [Tel (044) 2254-2790, 2254-1229, 2224-1698 (O), 2434-5312 (R); Fax 2254-1319; Email swami@mssrf.res.in, msswami@vsnl.net]; **Medals:** Silver Jubilee Commemoration (1973), Meghnad Saha (1981); **Lecture:** Blackett Memorial (1982); **Council:** Mem 1967-Aug 68, Sec 1969-72, Ad Mem 1976; SC: XII.

1978 : **SWAMINATHAN, Sambasiva** *(b 1923)*, PhD (Illinois), Sp: Organic Chemistry – Synthetic & Applied; FASc, formerly Professor, Department of Organic Chemistry, Madras University, Chennai; New No. 6 (old 23), 12th Cross Street, Shastrinagar, Chennai 600020 [Tel (044) 2491-1858 (R); Email swaminathan1923@yahoo.co.in]; INSA Senior Scientist (1986-88); SC: III.

2003 : **SWARUP, Ghanshyam** *(b 1953)*, PhD, Sp: Molecular and Cell Biology, Molecular Basis of Disease, Cell Signalling, Membrane Vesicle Trafficking; FASc, Scientist, CSIR-Centre for Cellular and Molecular Biology, Uppal Road, Hyderabad 500007; Flat No. 303, Eashanya Residency, Sai Enclave, Hanshiguda, Hyderabad 500007 [Tel (040) 2719-2616, 2716-0222 Ext 2616 (O), 99-891-33201 (M); Fax 2716-0311; Email gshyam@ccmb.res.in; Web http://www.ccmb.res.in]; SC: X.

1975 : **SWARUP, Govind** *(b 1929)*, PhD (Stanford), DSc (Hons) (Roorkee, Varanasi, Ravi Shankar), Sp: Radio Astronomy; FASc, FNASC, FTWAS, FRSc, Honorary Fellow, TIFR; INSA Honorary Scientist, formerly Professor of Eminence & Director, NCRA & Project Director, GMRT & Homi Bhabha Senior Fellow, National Centre for Radio Astrophysics, TIFR, Pune University Campus, Post Bag 3, Ganeshkhind, Pune 411007; 10 Cozy Retreat, Lane No. 3, Sindhi Society Compound, Aundh, Pune 411007 [Tel (020) 2571-9277, 2571-9000 (O), 2585-1630 (R); Fax 2569-7257, 2569-2149; Email gswarup29@gmail.com]; **Medal:** PC Mahalanobis (1984), INSA–Vainu Bappu Memorial (1987), CV Raman (1993); **Council:** Mem 1985; SC: II.
1985 : SWARUP, Krishna (*b* 1927), DPhil, Sp: Vertebrate Endocrinology & Physiology of Fish Reproduction; FNASC, formerly Professor and Head, Department of Zoology, Gorakhpur University; *Behind Govt. Inter College (Boys), Indira Nagar, Basti 272001* [Tel (05542) 282-393 (R)]; SC: VIII.

1989 : TAKKAR, Pran Nath (*b* 1940), PhD, Sp: Agriculture, Soil Chemistry, Fertility and Plant Nutrition, Micronutrients; FNAAS, INSA Honorary Scientist, formerly Director, IISS, Bhopal; *H-1/114, First Floor, Lajpat Nagar I, New Delhi 110024* [Tel (011) 2981-5537 (R), 99-539-03254 (M); Email pntakkar@gmail.com]; SC: XII.

1971 : TALWAR, Gursaran Parshad (*b* 1926), Docteur es Sciences (Sorbonne Univ., Paris), DSc (*hc*), DSc (*hc*), Sp: Biomedical Research; FASc, FNASC, FAMS, FRCOG (ae London), Fellow World Academy of Art and Science, Mem, Academia Nacional De Medicina, Mexico, Director Research, Talwar Research Foundation; formerly Professor of Eminence, ICGEB; founder Director, NII and Head, Biochemistry, AIIMS, New Delhi; *E-6-8, Neb Valley, Neb Sarai, New Delhi 110068* [Tel (011) 6502-2404/405 (O), 2953-1039, 2953-3229 (R), 88-003-22055 (M); Fax 2953-6768 (O); Email gptalwar@gmail.com]; Medal: SL Hora (1978), Golden Jubilee Commemoration (Biol Sc) (2007); SC: XI.

2005 : TALWAR, Kewal Krishan (*b* 1946), MBBS, MD, DM, DSc (*hc*) Sp: Cardiology; FAMS, FACC, FIACS (Canada), Chairman, Department of Cardiology, Max Healthcare Institute, Saket, New Delhi; Advisor, Health and Medical Education, Government of Punjab; formerly Director, PGIMER, Chandigarh and Professor & Head of Cardiology, AIIMS, New Delhi; President, NAMS (India), New Delhi; Chairman, Board of Governors, Medical Council of India, Dwarka, New Delhi; *C-625, Second Floor, New Friends Colony, New Delhi 110065* [Tel 88-002-32211 (M); Email kktalwar@hotmail.com]; Medal: Aryabhata (2012); SC: XI.

1989 : TANDON, Badri Nath (*b* 1931), MD, Sp: Hepatology, Gastroenterology & Child Development; FAMS, Chairman, Metro Centre for Liver & Digestive Diseases, Noida; formerly Dean, AIIMS, New Delhi; “Rukmani”, A-2, Sector 26, *Noida 201301* [Tel (0120) 255-0538, 255-6097-98 (R); Fax 648-0548; Email drbntandon@gmail.com, drvivektandon@vsnl.com]; SC: XI.

1979 : TANDON, Prakash Narain (*b* 1928), MS, FRCS, DSc (*hc*), Sp: Neurosurgery; FASc, FNASC, FTWAS, FAMS, FRSM, Mem, Norsk Videnskap Acad; President, National Brain Research Centre Society, Beside NSG Campus, Nainwal Mode, Manesar 122050; Professor Emeritus, Department of Neurosurgery, AIIMS, New Delhi 110029; *Jagriti Enclave, Vikas Marg Ext, Delhi 110092* [Tel (0124) 233-8929 (O), (011) 2216-3272, 2215-0578 (R); Email tandon@nbrc.ac.in]; Medal: Shri Dhanwantari Prize (1986), CV Raman (1997), INSA Medal for Promotion & Service to Science (2011); Council: Sec 1981-84, VP 1989-90, Pres 1991-92; SC: XI.
1999 : **TANDON, Sampat Kumar** (*b* 1945), PhD, Sp: Physical Stratigraphy, Quaternary Geology, Fluvial Sedimentology and River Science; FASc, FNASc, FTWAS, DN Wadia Chair Professor, *Department of Earth Sciences*, *Indian Institute of Technology Kanpur, Kanpur 208016*; formerly Professor, Department of Geology and Pro-Vice Chancellor, University of Delhi [Tel (0512) 259-6592 (O), 98-104-37365 (M); Email sktand@rediffmail.com, sktand@iitk.ac.in]; Medal: INSA Young Scientist (1974); SC: IV.

1990 : **TEWARI, Hrishi Bhu** (*b* 1930), DPhil, PhD (Emory, USA), DSc, Sp: Cell Biology, Histochemistry & Neurochemistry; FNASc, formerly Senior Professor & Head, Department of Zoology & Dean, Sukhadia University, Udaipur; *HIG, 4/477, Hsg Board Colony, Goverdhan Villas, Udaipur 313001* [Tel (0294) 264-0872, 320-1423 (R), 93-514-12109 (M)]; SC: VIII.

2016 : **THANGARAJ, Kumarasamy** (*b* 1963), PhD, Sp: Population Genetics and Evolutionary Biology, Clinical and Medical Genetics, Ancient DNA and Forensic Genetics; FASc, Senior Principal Scientist, *CSIR-Centre for Cellular and Molecular Biology, Uppal Road, Hyderabad 500007*; 102, Surya Residency, Road No. 3, Snehapuri Colony, Nacharam, Hyderabad 500076 [Tel (040) 2719-2634 (O), 2717-3822 (R), 99-082-13822 (M); Fax 2796-0591; Email thangs@ccmb.res.in]; SC: XI.

2007 : **THANGAVELU, Sundaram** (*b* 1957), PhD, Sp: Harmonic Analysis; FASc, Professor, *Department of Mathematics, Indian Institute of Science, Bengaluru 560012*; NE 316, IISc, Bengaluru 560012 [Tel (080) 2293-3206 (O), 2360-1132 (R); Fax 2360-0146; Email veluma@math.iisc.ernet.in, amulev@gmail.com]; Council: Mem 2012-14; SC: I.

1978 : **THAPLIYAL, Jagdamba Prasad** (*b* 1922), PhD, Sp: Comparative Endocrinology, Chronobiology & Embryology; FNASc, formerly Professor & Head, Zoology Department, BHU, Varanasi & NEHU, Shillong; C-32, *Nehru Shatabdi Hospital, PO Jayant, District Sidhi, MP 486890* [Tel (0542) 232-3972 (R)]; Council: Mem 1987-89; SC: VIII.

1989 : **THATHACHAR, Mandayam Anandampillai Lakshmi** (*b* 1939), ME, PhD, Sp: Systems Science; FASc, FNAE, formerly Professor, Department of Electrical Engg, IISc, Bengaluru; 23, *10th Cross, Swimming Pool Ext, Malleswaram, Bengaluru 560003* [Tel (080) 2336-7263 (R); Email maltarcharind@yahoo.com; Web http://www.minchu.iisc.ernet.in]; SC: V.

2009 : **THELMA, Bittianda Kuttapa** (*b* 1955), PhD, Sp: Cytogenetics, Human Genetics and Medical Genomics; FASc, FNASc, Professor, *Department of Genetics, University of Delhi, South Campus, Benito Juarej Road, Delhi 110021*; Type VA, Teachers Flats, University of Delhi, South Campus, New Delhi 110021 [Tel (011) 2411-8201, 2411-7399 (O), 2411-3548 (R); Fax 2411-2761; Email thelmabk@gmail.com, thelmabk@yahoo.co.in]; Medal: SL Hora (2014); Council: Mem 2016--; SC: VIII.
TRIPATHI, Anil Kumar (b 1959), PhD, Sp: Molecular Microbiology (Agricultural & Environmental); FNASC, FNAAS, Director, CSIR-Central Institute for Medicinal and Aromatic Plants, Lucknow 226015 & Professor, School of Biotechnology, Faculty of Science, Banaras Hindu University, Varanasi 221005; Director’s Residence, CIMAP Colony, Sector-7, Vikas Nagar, Lucknow 226022 [Tel (0522) 271-9083 (O), 273-9197 (R), 94-515-25811 (M); Fax 271-6141; Email director@cimap.res.in, tripathanil@rediffmail.com]; SC: IX.

TRIPATHI, Radhey Shyam (b 1942), PhD, Sp: Plant Ecology (Population Ecology, Weed Biology, Forest Ecology, Biodiversity Management, Invasion Biology); FNASC, INSA Honorary Scientist, CSIR-National Botanical Research Institute, Rana Pratap Marg, Lucknow 226001; formerly Professor & Head, Department of Botany, Coordinator, UGC-SAP Programme in Botany and Dean, School of Life Sciences, NEHU, Shillong and Director/Coordinator, NAEB Regional Centre of MoEF at NEHU, Shillong; “Amarawati”, 10/58, Sector 10, Indira Nagar, Lucknow 226016 [Tel (0522) 271-3137 (R), 98-392 21015 (M); Email tripathirs@yahoo.co.uk]; INSA Senior Scientist (2005-09); SC: VII.

TRIPATHY, Baishnab Charan (b 1952), PhD, Sp: Plant Physiology, Plant Biotechnology, FNASC, FNAAS, Professor and Dean, School of Life Sciences, Jawaharlal Nehru University, New Delhi 110067; formerly Vice-Chancellor, Ravenshaw University, Cuttack, Odisha [Tel (011) 2670-4524 (O), 2674-2484 (R), 98-181-04924, 78-944-00787 (M); Email bctripathy@mail.jnu.ac.in, baishnabtripathy@yahoo.com; Web http://www.jnu.ac.in]; SC: VII.

TRIVEDI, Sandip Parimal (b 1963), PhD, Sp: String Theory and Particle Physics; FASc; Director, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400005; 604, Bhaskara, TIFR Housing Complex, Dr Homi Bhabha Road, Mumbai 400005 [Tel (022) 2278-2424, 2278-2244 (O), 98-672-22878 (M); Fax 2280-4610; Email trivedi.sp@gmail.com, director@tifr.res.in]; Council: Mem 2016-; SC: II.

TULI, Rakesh (b 1953), PhD, Sp: Biochemistry & Molecular Genetics of Agriculturally & Medicinally Important Plants, Genomic Diversity in Plants for Precision Breeding; Food and Nutrition Biotechnology; FASc, FNASC, FNAAS, JC Bose National Fellow & Senior Research Advisor, University Institute of Engineering & Technology, Panjab University, Chandigarh 160015 [Tel (0172) 253-4996 (O), 260-2374 (R), 99-150-35511 (M); Fax 254-7986; Email rakeshtuli@hotmail.com]; Medal: INSA Young Scientist (1983); SL Hora (2008); SC: XII.

TUTEJA, Narendra (b 1955), PhD, DSc, Sp: Plant Molecular Biology, Plant Biotechnology, Signal Transduction, DNA/RNA Helicases, Plant Abiotic Stress Tolerance, Plant-Microbes Interactions; FASc, FNASC, FNAAS, FTWAS; Professor & Director, Amity Institute of Microbial Technology, Amity University, Noida 201313; Visiting Scientist & former Group Leader & Senior Scientist, International Centre for Genetic Engineering and Biotechnology (ICGEB), Aruna Asaf Ali Marg, New Delhi 110067; B1/1581, Vasant Kunj, New Delhi 110070 [Tel (0120) 439-6935 (O), 98-112-33550 (M); Fax 243-1268; Email ntuteja@amity.edu, narendra@icgeb.res.in; Web www.amity.edu/aimt, https://scholar.google.co.in/citations?user=R1QS5FgAAAAJ&hl=en]; SC: VII.
1999 : TYAGI, Akhilesh Kumar (b 1956), PhD, Sp: Plant Genomics and Biotechnology; FASc, FNAsc, FNAAS, FTWAS, Director, National Institute of Plant Genome Research (NIPGR), Aruna Asaf Ali Marg, PO Box 10531, New Delhi 110067; Director’s Bungalow, NIPGR, New Delhi 110067 [Tel (011) 2674-2267, 2673-5169 (O), 2674-2263, 2673-5123 (R); Fax 2674-1759; Email akhilesh@genomeindia.org, director@nipgr.ac.in; Web http://www.nipgr.ac.in]; Lecture: BN Chopra (2007); Council: Mem 2009, VP 2010-11; SC: VII.

2002 : TYAGI, Anil Kumar (b 1951), PhD, Sp: Biochemistry, Molecular Biology; FASc, FNAsc, Vice Chancellor, GGS Indraprastha University, Sector 16C, Dwarka, New Delhi 110029; formerly Professor, Department of Biochemistry, University of Delhi; C-II/24, East Ansari Nagar, AIIMS Campus, New Delhi 110029 [Tel (011) 2530-2104/105 (O), 2659-4544 (R); Fax 2803-5243; Email akt1003@rediffmail.com]; SC: X.

2011 : TYAGI, Jaya Sivaswami (b 1954), PhD, Sp: Mycobacteriology, Molecular Biology; FASc, FNAsc, Professor, Department of Biotechnology, All India Institute of Medical Sciences, Ansari Nagar, New Delhi 110029 & Honorary Visiting Professor, Centre for Bio-design and Diagnostics, THSTI, Gurgaon 122016; C-II/24, Ansari Nagar, New Delhi 110029 [Telefax (011) 2658-8491 (O), 2659-4544 (R), 98-104-09761 (M); Email jstyagi@gmail.com]; Council: Mem 2015-; SC: X.

2006 : UDAYAKUMAR, Makarla (b 1946), PhD, Sp: Crop Physiology, Plant Molecular Biology; FASc, FNAsc, FNAAS, INSA Senior Scientist, Coordinator, Professor, Department of Crop Physiology, University of Agricultural Sciences, GKVK, Bengaluru 560065; No 246, 1st N Block, 9th Cross, Rajaji Nagar, Bengaluru 560010 [Tel (080) 2333-0153 Ext 25 (O), 2347-4560, 2337-3357 (R), 94-483-76357 (M); Fax 2363-6713; Email udayakumar_m@yahoo.com]; Council: Mem 2013-15; SC: VII.

1984 : UDGAONKAR, Bhalchandra Madhav (b 1927), MSc, Sp: Theoretical Physics; FASc, formerly Senior Professor, TIFR, Mumbai & Chairman, Homi Bhabha Centre for Science Education; 705, Vigyan, Plot No 23, Sector 17, Vashi, Navi Mumbai 400703 [Tel (022) 2556-7711 (O), 2789-0807 (R); Fax 2556-6803; Email hbcdir@hbcse.tifr.res.in]; SC: II.

2002 : UDGAONKAR, Jayant B (b 1960), PhD, Sp: Physical Biochemistry; Senior Professor, National Centre for Biological Sciences, Tata Institute of Fundamental Research, GKVK Post, Bellary Road, Bengaluru 560065 [Tel (080) 2366-6150 (O), 2363-6673 (R); Fax 2363-6862, 2363-6662; Email jayant@ncbs.res.in; Web http://www.ncbs.res.in]; SC: X.

2006 : UPADHYAYA, Kailash Chandra (b 1946), PhD, Sp: Molecular Genetics and Genomics, Plant Molecular Biology and Biotechnology; FNAsc, formerly Professor & Dean, School of Life Sciences, Jawaharlal Nehru University, New Delhi and VC, Maharaja Sayajirao University of Baroda, Vadodara; C-601, Rudra Apartments, Plot No. 12, Sector 6, Dwarka, New Delhi 110075 [Tel (011) 4244-8653 (R), 98-711-87171 (M); Email kcupadhyaya@yahoo.com, kcupadhyaya@gmail.com]; SC: VII.
2015 : VAIDYA, Vidita Ashok (b 1970), PhD, Sp: Neuroscience; Associate Professor (G), Department of Biological Sciences, Tata Institute of Fundamental Research, 1, Homi Bhabha Road, Colaba, Mumbai 400005; 308, Bhaskara, Tata Institute of Fundamental Research, 2, Homi Bhabha Road, Colaba, Mumbai 400005 [Tel (022) 2278-2608 (O), 2280-4859 (R), 84-549-48703 (M); Fax 2280-4610; Email vvaidya@tifr.res.in]; SC: VIII.

1980 : VALDIYA, Khadg Singh (b 1937), PhD, Sp: Neotectonics, Sedimentology & Environmental Geology; FASc, FNASc, FTWAS, Honorary Professor, JNCASR, Bengaluru 560064; 302, Sterling Apartments, 10 Pappanna Street, Off St. Marks Road, Bengaluru 560007 [Tel (080) 2208-2787 (O), 6562-9285, 4112-0784 (R); Fax 2208-2766; Email valdiya@jncasr.ac.in, ksvaldiya@gmail.com]; Professorship: INSA-Golden Jubilee Research Professor (2003-08); Medal: DN Wadia (1994); Lecture: SK Mitra Memorial (1992), JL Nehru Birth Centenary (2003); Council: Mem 1984-86, Ad Mem 2000; SC: IV.

1984 : VALIATHAN, Martanda Varma Sankaran (b 1934), ChM, FRCS (Eng), FRCS (Canada), FRCP (Lond), DSc (bc), Sp: Cardiac Surgery; FASc, FNASc, FNASc, FTWAS, National Research Professor, Manipal University, Manipal Life Sciences Centre Building, Planetarium Complex, Manipal, Karnataka 576104 ; “Ashima Kutir” 11th Cross, Dasharath Nagar, Manipal 576104 [Tel (0820) 292-2342, 257-1201 Ext. 22342 (O), 257-0491 (R); Fax 257-1919, 257-0062, 257-0061; Email ms.valiathan@manipal.edu, msvaliathan@gmail.com]; Medal: Shri Dhanwantari Prize (1991), Aryabhata (1996), INSA Medal for Promotion & Service to Science (2014); Lecture: Etienne Wolf-Ramanujan (2013); Council: Mem 1991-93, VP 1997-99, Pres 2002-04; SC: XI.

2010 : VANKAR, Yashwant Dattatraya (b 1950), PhD, Sp: Organic Chemistry; FASc, Professor, Department of Chemistry, Indian Institute of Technology, Kanpur 208016; House No 410, Type IV, IIT Kanpur Campus, Kanpur 208016 [Tel (0512) 259-7492 (O), 259-7169 (Lab), 259-0021, 259-8493 (R), 99-350-62562 (M); Fax 259-7436; Email vankar@iitk.ac.in, ydvankar@gmail.com]; SC: III.

2007 : VARADARAJAN, Raghavan (b 1960), PhD, Sp: Protein Structure and Folding; FASc, Professor, Molecular Biophysics Unit, Indian Institute of Science, Bengaluru 560012; E-6, IISc Campus, Bengaluru 560012 [Tel (080) 2293-2612 (O); Fax 2360-0535; Email varadar@mbu.iisc.ernet.in]; SC: X.

1983 : VARADARAJAN, Srinivasan (b 1928), PhD (Delhi, Cantab), DSc (bc), DLitt (bc), Sp: Organic and Biological Chemistry, Molecular Biology, Biotechnology, Engineering Design, Technology Development Transfer, Manufacture, Market Development, New Product Development and Application, Human Nutrition, Policy, Energy, Management Systems; FASc, FNASE, FNASE (Hon), FTWAS, formerly President, Ind. Acad. Sci., Ind. Nat. Acad. Engg, Nutrition Soc. CMD IPCL & EIL; Indian Vaccine Cooperation Ltd.; Secretary, Government of India, DST and DSIR; Vice Chairman, Biotechnology Board & OIDB; Chief Consultant, Planning Commission of India; DG, CSIR and Chairman, Nat. Council of Science Museums; 4A, Girdhar Apts, 28, Feroz Shah Road, New Delhi 110001 [Tel (011) 2323-0828, 2322-1932-50 (O), 2371-2512, 2371-3137 (R); Fax 2323-1095; Email esoffice@insa.nic.in, varadr@gmail.com]; Medal: CV Raman (2001), INSA Medal for Promotion & Service to Science (2004), Platinum Jubilee Chair for Promotion and Service to Science (2009-2014); Council: Ad Mem 1983-84, VP 1991-92, Pres 1996-98; SC: X.
1987 : **VARMA, Anupam** (*b* 1940), PhD, Sp: Plant Virology, Plant Pathology, Biotechnology, Education; FNASc, FNAAS, Adjunct Professor, formerly National Professor, *Advanced Centre for Plant Virology*, *Division of Plant Pathology*, *Indian Agricultural Research Institute*, New Delhi 110012; 253, Jaimaa Apartments, Plot 16, Sector 5, Dwarka, New Delhi 110075; 136 Housing Board Colony, Bindranab, Palampur 176061 (HP) [Tel (011) 2584-2134 (O), 2507-2511 (R), 98-102-17141 (M); Fax 2584-2134; Email anupamvarma@vsnl.net, av.acpv@gmail.com, anupamvarma40@hotmail.com]; **Medal**: SS Bhatnagar (2010); **Lecture**: Professor TS Sadasivan (2002); **Council**: Mem 1999-01, VP 2005-07; **SC**: VII.

1985 : **VARMA, Ram Kumar** (*b* 1935), PhD, Sp: Plasma Physics, Classical & Quantum Mechanics; FASc, FNASc, Emeritus Professor, formerly Director, PRL, Ahmedabad; 303, Saraswati Nagar, Ahmedabad 380015 [Tel (079) 2631-4459 (O), 2674-9242 (R); Fax 2631-4460; Email ramkvarma@gmail.com]; **SC**: II.

2014 : **VARSHNEY, Rajeev Kumar** (*b* 1973), PhD, Sp: Crop Genomics and Molecular Breeding (Agricultural Biotechnology); FNAAS, Research Program Director-Grain Legumes and Director, *Centre of Excellence in Genomics*, CEG Building #300, *International Crops Research Institute for Semi-Arid Tropics (ICRISAT)*, Patancheru 502324, Telangana; Villa # 127, Vasudeva Bloomfield Ecstasy, Tellapur Road, Gopanpally, Hyderabad 502032 [Tel (040) 3071-3305 (O), 99-499-94070 (M); Fax 3071-3074/75; Email r.k.varshney@cgiar.org, varshney.raj@gmail.com]; **Medal**: INSA Young Scientist (2008); **SC**: XII.

2008 : **VARSHNEY, Umesh** (*b* 1957), PhD, Sp: Molecular Biology; FASc, FNASc, Professor and Chairman, *Department of Microbiology and Cell Biology*, and Dean, Undergraduate Programme, *Indian Institute of Science*, Bengaluru 560012; 33A, NTI Layout, Ist Main, RMV 2nd Stage, Bengaluru 560094 [Tel (080) 2293-2686, 2360-0169 (O), 2341-7828 (R); Fax 2360-2697; Email varshney@mcbl.iisc.ernet.in; Web http://www.mcbl.iisc.ernet.in]; **SC**: X.

2012 : **VASUDEVAN, Sukumaran** (*b* 1953), PhD, Sp: Physical Chemistry; FASc, Professor, *Department of Inorganic and Physical Chemistry*, *Indian Institute of Science*, Bengaluru 560012; 2072, Prestige Kensinton Gardens, 17 HMT Main Road, Bengaluru 560013 [Tel (080) 2293-2382, 2293-2661 (O); Fax 2360-1552; Email svipc@ipc.iisc.ernet.in]; **SC**: III.

2016 : **VEERAPPA GOWDA, Gaddemane Dyavappa** (*b* 1955), PhD, Sp: Partial Differential Equations in Particular, Conservation Laws and Hamilton-Jacobi Equations, Theory and Numerics; Professor, *TIFR Centre for Applicable Mathematics*, Sharda Nagar, Chikkabommassandra, PB No. 6503, Bengaluru 560065; # 1262, BENAKA, 10th Main, 1st Cross, Judicial Layout, GKV Post, Bengaluru 560065 [Tel (080) 6695-3743 (O), 2856-5106 (R), 97-408-18971 (M); Fax 6695-3799; Email gowda@math.tifrbng.res.in]; **SC**: I.
2008 : VELUTHAMBI, Karuppannan (b 1953), PhD, Sp: Plant Sciences, Plant Biotechnology, Plant Virology, FASc, FNASc, formerly Professor & UGC-BSR Faculty Fellow, School of Biotechnology, Madurai Kamaraj University, Madurai 625021; Plot 3, North 1st Street, Kalvi Nagar, Madurai 625021 [Tel (0452) 245-8683 (O), 245-8458 (R), 94-439-27365 (M); Fax 245-9105; Email kveluthambi@rediffmail.com]; Council: Mem 2016-; SC: VII.

1999 : VENKATACHALAPPA, Mandikarappa (b 1947), PhD, Sp: Applied Mathematics: Fluid Mechanics, Magneto-hydrodynamics; FNASc, formerly Professor, Centre for Advanced Studies Programme, Department of Mathematics, Bangalore University, Bengaluru 560001; No. 653, 13th Cross, 27th Main, HSR Layout, Sector 1, Agara, Bengaluru 560102 [Tel (080) 2258-1906 (R), 98-454-48381 (M); Email mvenkatachalappa@hotmail.com]; SC: I.

1977 : VENKATARAMAN, Ganesan (b 1932), PhD, Sp: Condensed Matter Physics; FASc, FNAS, R1 A2, Prasanthi Nilayam, Anantapur District 515134, AP [Tel (08555) 287-499 (R); Email gvraman108@gmail.com]; Medal: Indira Gandhi Prize for Popularization of Science (1994); SC: II.

2004 : VENKATARAMANA, Tyakal Nanjundiah (b 1958) PhD, Sp: Algebraic Groups, Arithmetic Groups, Automorphic Forms; School of Mathematics, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400005; 602, Meghnad Shah Homi Bhabha Road, Mumbai 400005 [Tel (022) 2278-2224 (O), 2280-4831 (R); Email venky@math.tifr.res.in]; SC: I.

1989 : VENKATESAN, Kailasam (b 1932), AIISc, PhD, Sp: Chemical Crystallography; FASc, formerly Professor, Department of Organic Chemistry, IISc, Bengaluru 560012; Himagiri Apts D1, 77, 4th Main Road, Malleswaram, Bengaluru 56005 [Tel (080) 2293-2403 (O), 2334-8736 (R); Fax 334-1683; Email kvenoc15@yahoo.com, kv@orgchem.iisc.ernet.in]; INSA Senior Scientist (1992-97); SC: III.

1990 : VENKATESH, Yedatore Venkatakrishnaiya (b 1942), ME, PhD, Sp: System Theory, Signal Processing, Machine & Computer Vision and Neural Networks, Biometrics and Hyperspectral Satellite Image Analysis; FASc, FNASE, formerly Chairman, Division of Electrical Sciences, Dean, Faculty of Engineering, Tata-Chem Professor and Professor, Department of Electrical Engineering, Indian Institute of Science, Bengaluru 560012; Visiting Research Professor, Department of Electrical and Computer Engineering and Interactive Digital Media Institute, National University of Singapore, Singapore; 521, 5th Cross, 8th ‘A’ Main, Tata Nagar (Kodigehalli), Bengaluru 560092 [Email y_v_venkatesh@yahoo.co.in, yv.venkatesh@gmail.com]; SC: V.

2013 : VERMA, Jugal Kishore (b 1958), PhD, Sp: Mathematics (Algebra); FNASc, Professor, Department of Mathematics, Indian Institute of Technology Bombay, Powai, Mumbai 400076; B-119, Central Area, IIT, Powai, Mumbai 400076 [Tel (022) 2576-7478 (O), 2576-8478 (R), 98-1930-7484 (M); Fax 2572-3480; Email jkv@math.iitb.ac.in]; SC: I.
2016 : VERMA, Sandeep (b 1966), PhD, Sp: Bioorganic Chemistry, Chemical Biology; FNASc, FASc, FRSC, JC Bose National Fellow, Shri Deva Raj Endowed Chair Professor, Head, Department of Chemistry, Indian Institute of Technology Kanpur, Kanpur 208016; H No. 625, Indian Institute of Technology Kanpur, Kanpur 208016 [Tel (0512) 679-7643 (O), 99-350-81810 (M); Fax 679-6806; Email sverma@iitk.ac.in]; SC: III.

1994 : VIDYASAGAR, Mathukumalli (b 1947), PhD (Wisconsin), Sp: Control Theory, Statistical Learning Theory, Computational Biology, Quantitative Finance; FASc, FNAE, FTWAS, FRs, Executive Vice President (Advanced Technology), Tata Consultancy Services, No 1, Software Units Layout, Madhapur, Hyderabad 500081; House No. 8-2-686/55D, Banjara Hills, Road No 12, Hyderabad 500034 [Tel (040) 6667-3001 (O), 6557-2444 (R); Fax 6667-2222; Email m.vidyasagar@tcs.com; Web http://www.atc.tcs.co.in/~sagar]; Lecture: JL Nehru Birth Centenary (2005); SC: V.

1987 : VIJAYAN, Mamannamana (b 1941), PhD, Sp: Molecular Biophysics, Biological Crystallography and Structural Biology; FASc, FNASc, FTWAS, INSA-Albert Einstein Centenary Research Professor, Molecular Biophysics Unit, Indian Institute of Science, Bengaluru 560012; formerly Associate Director, IISc, Bengaluru; 195 (Old No 49/7), 16 Cross, 4th Main, Malleswaram, Bengaluru 560055 [Tel (080) 2360-0765 (Lab), 2334-0031 (R); Fax 2360-0535; Email mv@mbu.iisc.ernet.in; Web http://mbu.iisc.ernet.in/~mvlab]; Medal: Professor GN Ramachandran 60th Birthday Commemoration (1994); Lecture: KS Krishnan Memorial (2001); Visiting Fellowship: JL Nehru Birth Centenary (1999); Council: VP 2005-07, Pres. 2008-10; SC: X.

1980 : VIJAYARAGHAVAN, Ramanuja (b 1931), PhD, Sp: Solid State Physics; FASc, FNASC, 305, Vaigyanik Coop Hsg Soc, Plot 58-59, Sector 14, Vasbi, New Mumbai 400073 [Tel (022) 2215-2971 (O), 2766-7554 (R); Fax 2215-2110, 2578-3254; Email rv@tifr.res.in]; INSA Senior Scientist (1996-2001); SC: II.

1999 : VIJAYRAGHAVAN, Krishnaswamy (b 1954), PhD, Sp: Developmental Biology and Genetics; FASc, FRS, Secretary, Department of Biotechnology, Govt of India, Block 2, Room No. 722, CGO Complex, Lodhi Road, New Delhi 110003 [Tel (011) 2436-2950, 2436-2881 (O); Fax 2436-0747; Email vijay.dbt@nic.in]; Lecture: JL Nehru Birth Centenary (2007); SC: VIII.

2008 : VIJAYRAGHAVAN, Usha (b 1961), PhD, Sp: Molecular Genetics, Plant Development; FASc, Professor, Department of Microbiology & Cell Biology, Indian Institute of Science, Bengaluru 560012; 106, 6th Cross, RMV Stage II, Bengaluru 560094 [Tel (080) 2360-0168 (O), 2341-8504 (R), 98-443-32445 (M); Email uvr@mcbi.iisc.ernet.in]; SC: VII.

1993 : VIRK, Daljit Singh (b 1944), PhD & DSc (Birmingham), Sp: Genetics and Plant Breeding; FNASc, FNAAS, FSB, Adjunct Professor, Eternal University, Baru Sahib, HP 173101 & Senior Research Fellow, School of Environment, Natural Resources and Geography (SENRGy), College of Natural Sciences, Bangor Univ., Bangor, LL57 2UW, UK; formerly Professor (Sr Millet Breeder), Department of Plant Breeding, PAU, Ludhiana; 18, South Brae Close, Littleover, Derby DE 23 1WD, England and 123 D, Kitchlu Nagar, Ludhiana 141001 [Tel (044-1332) 766-629 (R), (044) 77-990-57846 (M); Email dsvirk2012@gmail.com, d.s.virk@bangor.ac.uk]; SC: XII.
1988 : VISWANADHAM, Nukala (b 1943), PhD, Sp: Global Manufacturing and Service Networks, Logistics; FASc, FTWAS, INSÁ Senior Scientist, Indian Institute of Science, Bengaluru 560012; 529, 2nd Main Road, RMV Extension Stage II, Bengaluru 560094 [Tel (080) 2293-2693 (O), 2351-9864 (R); Email n.viswanadham@gmail.com]; SC: V.

2013 : VISWESWARIAH, Sandhya Srikant (b 1957), PhD, Sp: Biochemistry, Cell Biology; FASc, JC Bose National Fellow, Department of Molecular Reproduction, Development and Genetics, Co-Chair, Centre for Biosystems Science and Engineering, Indian Institute of Sciences, Bengaluru 560012; 801 (27), 36A Cross, 20th Main Jayanagar 4T Block, Bengaluru 560041 [Tel (080) 2293-2542, 2360-1522 (O), 99-028-18616 (M); Fax 2360-0999; Email sandhya@ mrdg.iisc.ernet.in, s.sandhya@gmail.com]; Medal: INSA Young Scientist (1988); SC: X.

2009 : VIYOGI, Yogendra Pathak (b 1948), PhD, Sp: Experimental Nuclear Physics; FNASc, DAE Raja Ramanna Fellow, Variable Energy Cyclotron Centre, Kolkata, formerly Outstanding Scientist, VECC, Kolkata and formerly Director, Institute of Physics, Bhubaneswar; Block 8, Flat 2B, Diamond City North, Kolkata 700055 [Tel (033) 2318-2316 (O), 2280-6163 (M); Email viyogi@gmail.com]; SC: II.

1986 : WADIA, Noshir Hormusji (b 1925), MD, FRCP (Lond), DSc (Hons), Sp: Neurology; FASc, FAMS, Director Emeritus, Department of Neurology, Jaslok Hospital & Research Centre, 15, Dr G Deshmukh Marg, Mumbai 400026 and Consultant for Life JJ Group of Hospitals and Grant Medical College; formerly Professor of Neurology, Grant Medical College and Honorary Neurologist JJ Group of Hospitals; 70 “Om Ratan”, Pochkhanawala Road, Worli, Mumbai 400030 [Tel (022) 2496-4799, 2496-6045 (R); Email wadianh@gmail.com]; Medal: SS Bhatnagar (2003), Shree Dhanwantari Prize (2006); SC: XI.

1997 : WADIA, Spenta Rustom (b 1950), PhD, Sp: String Theory, High Energy Physics, Quantum Gravity; FASc, FNASc, FTWAS, Distinguished Professor & Director, International Centre for Theoretical Sciences, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400005; 810, Bhaskara, TIFR Hsg Complex, Homi Bhabha Road, Mumbai 400005 [Tel (022) 2278-2216 (O), 2280-4723 (R); Fax 2280-4610; Email wadia@tifr.res.in; Web http://www.theory.tifr.res.in/~wadia]; SC: II.

2014 : WAGHMARE, Umesh Vasudeo (b 1968), PhD, Sp: Theory, Modeling and Simulations of Materials; FASc, FNASc, Professor, Theoretical Sciences Unit, Jazaharal Nehru Centre for Advanced Scientific Research (JNCASR), Jakkur PO, Bengaluru 560064; 43, Maitreya, 4th Cross, Sector A, Amruth Nagar, Amruthahalli, Bengaluru 560092 [Tel (080) 2208-2842 (O), 2362-2774 (R), 94-482-8711 (M); Fax 2208-2767; Email waghmare@jncasr.ac.in]; SC: II.

2011 : WATVE, Milind Gajanan (b 1957), PhD, Sp: Evolutionary Biology, Ecology and Theoretical Biology; FASc, FNASc, Professor, Biology, Indian Institute of Science Education and Research (IISER), Dr Homi Bhabha Road, Pune 411008; E-1-8, Girija Shankar Vihar, Karve Nagar, Pune 411052 [Tel (020) 2590-8093 (O), 2543-1019 (R), 98-229-10198 (M); Email milind@iiserpune.ac.in]; SC: VIII.
2007 : YADAV, Ganapati Dadasaheb (b 1952), PhD (Tech) Sp: Chemical Engineering, Green Chemistry and Engineering, Catalytic Science and Engineering, Energy Engineering; FNASC, FTWAS, Vice Chancellor and RT Mody Distinguished Professor, Institute of Chemical Technology, Nathalal Parekh Marg, Matunga, Mumbai 400019; Vice Chancellor’s Residence, Above Main Building, Institute of Chemical Technology, Nathalal Parekh Marg, Matunga, Mumbai 400019 [Tel (022) 3361-1111/2222 (Board), 3361-1001 (D), 3361-1010 (R), 98-330-90510 (M); Fax 3361-1002/1020; Email gdyadav@ictmumbai.edu.in, gdyadav@yahoo.com, vc@ictmumbai.edu.in]; SC: V.

1998 : YADAV, Jhillu Singh (b 1950), PhD, Sp: Organic Chemistry; FASC, FNASC, FTWAS, CSIR Bhatnagar and JC Bose Fellow, former Director, CSIR-IICT, Semiochemicals Lab, IICT, Tarnaka, Hyderabad 500607; C-3 Quarters, IICT Campus, Tarnaka, Uppal Road, Hyderabad 500607 [Tel (040) 2719-3241 (O), 2719-3636 (R), 94-408-02800 (M); Fax 2716-0512; Email jsyadav@iict.res.in, yadavfna@gmail.com; Web http://www.iictindia.org/jsy/index.html]; Lecture: Professor S Swaminathan 60th Birthday Commemoration (2002); SC: III.

1985 : YADAVA, Jai Narain Singh (b 1930), MVSc, PhD, Sp: Veterinary Microbiology, Immunology, Bacterial Genetics, Molecular Biology, Biotechnology, Zoonoses; FNAAS, formerly Emeritus Scientist (CSIR), CDRI Lucknow; 2-B/5 (Opposite Modern Enclave), Chand-Ganj-Garden, Lucknow 226024 [Tel (0522) 332-561 (R)]; SC: XII.

2012: YASHONATH, Subramanian (b 1956), PhD, Sp: Theoretical Chemistry, Physical Chemistry; FASC, Professor, Solid State and Structural Chemistry Unit, Indian Institute of Science, Bengaluru 560012; 1769, 15 Main, 34 Cross, Banashankari, 2nd Stage, Bengaluru 560070 [Tel (080) 2293-2568 (D), 2293-2519 Ext 2032 (O); Fax 2360-1310; Email yashonath@ssc.u.iisc.ernet.in]; SC: III.

1999 : YEGNANARAYANA, Bayya (b 1944), PhD, Sp: Signal Processing, Speech, Vision and Neural Networks; FASC, FNASE, FIEEE, Institute Professor, International Institute of Information Technology, Gachibowli, Hyderabad 500032; 201, Savitri Nilayam, Lane 23, Road 1, Ravindranagar Colony, Habsiguda, Hyderabad 500007 [Tel (040) 6653-1271 (O), 2715-4526 (R), 94-418-86526 (M); Fax 6653-1413; Email yegna@iiit.ac.in, bayya.yegna@gmail.com; Web http://www.iiit.ac.in]; Medal: SH Zaheer (2014); SC: V.
FOREIGN FELLOWS 2016

1997: ADHYA, Sankar L (b 1937), PhD (Wisconsin), PhD (Calcutta), DSc (hc), Sp: Genetics, Biochemistry, Prokaryotes, Bacteriophages; Member, Nat Acad Sci, USA; Fellow, American Academy of Arts and Sciences; Fellow, American Association of Advancement of Science; Fellow, Am Acad Microbiology; Full Member, Center for Models of Life, Neils Bohr Institute, Copenhagen, Denmark; Chief, Developmental Genetics Section, Center for Cancer Research, National Cancer Institute, National Institutes of Health, Bethesda, MD 20892-4255, USA; Adjunct Professor, George Washington University, Washington, DC [Tel (301) 496-2495; Fax 480-7387; Email sadhya@helix.nih.gov, adhyas@mail.nih.gov].

2013: AHMED, Rafi (b 1948), PhD, Sp: Molecular Understanding of Immunological Memory in Infection and Vaccination; Fellow, American Academy of Microbiology; Fellow, American Association for the Advancement of Science; Fellow, US Nat Acad of Sc, Director, Emory Vaccine Center, Professor and GRA Eminent Scholar, Department of Microbiology & Immunology, Emory University School of Medicine, Emory University, G211 Rollins Research Building, Atlanta, GA 30322, USA; 1811 Durand Mill Dr NE, Atlanta, GA 30307, USA [Tel (404) 727-3571 (O), 727-4700; Email rahmed@emory.edu].

2004: ALBERTS, Bruce (b 1938), PhD, Sp: Biochemistry and Cell Biology, Chancellor’s Leadership Chair in Biochemistry and Biophysics for Science and Education, University of California, San Francisco; formerly Editor-in-Chief, Science Magazine (2008-13), United States Science Envoy (2009-11); President Emeritus, US National Academy of Sciences (1993-2005), UCSF MC 2200, Genentech Hall N312, 600-16th Street, San Francisco, CA, USA 94158-2517 [Tel (001-415) 476-0806 (O); Email bruce.alberts@ucsf.edu, balberts@ucsf.edu].

2007: ALLEGRE, Claude Jean (b 1937), PhD, Sp: Earth and Planetary Sciences; Institut Physique du Globe, 1 rue Jussieu, 75005 Paris (France) [Tel 33 1 83 95 76 47 (O), 33 1 43 26 86 16 (R), 33 6 70 58 61 34 (M); Email allegre@ipgp.fr].

2007: ALLENDE, Jorge Eduardo (b 1934), PhD. Sp: Biochemistry and Molecular Biology, Program of Cell and Molecular Biology; Institute of Biomedical Sciences, Faculty of Medicine, University of Chile, Santiago, Chile.

2008: ANDERSON, Philip Warren (b 1923), PhD, NL, Professor, Department of Physics, Princeton University, Princeton NJ 08544, USA.
1993 : ATIYAH, Sir Michael Francis (b 1929), PhD, ScD (hc), Sp: Mathematics; FRS, President of the Royal Society, London (1990-95), President, Royal Society of Edinburgh (2005-2008), Foreign Assoc, NAS (USA), Russian Acad Sc & Acad des Sc, France, Honorary Professor, School of Mathematics, University of Edinburgh, James Clerk Maxwell Building, Peter Guthrie Tait Road, Edinburgh, EH9 3FD; formerly Master, Trinity College, Cambridge; 3/8 West Grange Gardens, Edinburgh, EH9 2RA [Tel +44 131 650 4883 (O), 667-0898 (R); Fax 650-6553; Email m.atiyah@ed.ac.uk]; Medal: JL Nehru Birth Centenary (1993).

1982 : AYENSU, Edward Solomon (b 1935), PhD, FLS, FGAAS, FTWAS, FAAS, Sp: Plant Biology, Conservation and Development; Chairman, Council for Scientific and Industrial Research (CSIR), Ghana; President, Pan African Union for Science and Technology; Executive Chairman, Welsing Ventures Limited; Chairman, Haber Mining Ghana Limited; Executive Chairman, ESA Associates Ltd, Science, Technology and Economic Consultants; formerly Chairman, World Bank Inspection Panel; formerly Chairman, Ghana National Biodiversity Committee; Mem, International Advisory Council on Global Scientific Communications, UNESCO; Chairman, Ad-hoc Working Group on Biodiversity, 4th Circular Road, Number 1, 4th Circular Close, SNNIT Cantonments Estates, Cantonments, Accra, Ghana; PO Box 16525 – Airport, Accra, Ghana [Tel (233-21) 778-677, 775-554, (233-24) 435-4070 (M); Fax (233-21) 761-316, 773-116; Email eayensu@ghana.com].

1980 : BAKER, Alan (b 1939), PhD, Sp: Mathematics; FRS, Hon Mem, Hungarian Acad Sc, Emeritus Professor of Pure Mathematics, University of Cambridge, and Fellow, Trinity College, Cambridge, CB2 1TQ, UK [Tel (44-1223) 338-400 (O); Email a.baker@dpmms.cam.ac.uk].

2006 : BARRANTES, Francisco José (b 1944), MD, PhD, Sp: Neurobiology, Neurosciences; Director, Laboratory of Molecular Neurobiology, Institute of Biomedical Research, Faculty of Medicine, Catholic University of Argentina and Argentinian Res Council (CONICET), Av. Alicia Moreau de Justo 1600, 3 piso, C1107AFF – Buenos Aires, Argentina [Tel +54 11 4349-0200 Ext 2116 (O); Fax +54 11 4338-0886; Email rtfjb1@gmail.com, rtfjb1@yahoo.com].

2003 : BATE, Christopher Michael (b 1943), PhD, Sp: Developmental Neurobiology; FRS, Emeritus Professor, Department of Zoology, University of Cambridge, Downing Street, Cambridge CB2 3EJ, UK; Girton Cottage, Manor Farm Road, Girton, Cambridge CB3 ORX [Tel (01223) 336-639 (O), 277-781 (R); Fax 336-676; Email cmb16@hermes.cam.ac.uk].

1994 : BATTERSBY, Sir Alan Rushton (b 1925), DSc, ScD, Sp: Bioorganic Chemistry; Emeritus Professor, University Chemical Lab, University of Cambridge, Lensfield Road, Cambridge, CB2 1EW, UK [Tel (44-1223) 336-400; Fax 336-362; Email arb1005@cam.ac.uk; Web http://www.ch.cam.ac.uk].
2009 : **BEACHY, Roger N** (*b* 1944), PhD, Sp: Plant Molecular Biology, Virology, Biotechnology; Member, US National Academy of Sciences, The World Academy of Sciences, American Society for Plant Biology, American Association for Advancement of Science, International Association of Plant Biotechnology; Executive Director, *World Food Center, University of California, Davis (USA)*; National Science Board, National Science Foundation; Professor, *Department of Biology, Washington University, St. Louis, Missouri (USA)* [Email rbeachy@ucdavis.edu].

![Roger N. Beachy](image)

2015 : **BHARGAVA, Manjul** (*b* 1974), PhD, Sp: Number Theory; FNASC, Fellow, American Mathematical Society, US National Academy of Science, Professor, *Department of Mathematics, Princeton University, Princeton, NJ 08544, USA* [Tel (+1) (609) 258-4192 (O); Fax 258-1367; Email bhargava@math.princeton.edu].

![Manjul Bhargava](image)

1978 : **BLAMONT, Jacques Emile** (*b* 1926), DSc, de l’ Acad Sc, Foreign Associate, Nat. Acad. Sci., USA, Professor Emeritus, University of Paris; Advisor to the Director General, *French Space Agency, CNES, 2 Place Maurice Quentin, 75039 Paris Cedex 01; 24 Rue Chaptal, 75009 Paris* [Tel (33-01) 4476-7612 (R); Fax 4476-7865; Email jacques.blamont@cnes.fr].

![Jacques Emile Blamont](image)

2010 : **BLUM, Hubert E** (*b* 1944), Department of Medicine II, University Hospital of Freiburg, Hugstetterstrasse 55, D-79106 Freiburg, Germany; Hebelstrasse 23, D-79104 Freiburg, Germany [Tel 0049-761-2703-4030; Fax 0049-761-2703-6100, Email hubert.blum@uniklinik-freiburg.de].

![Hubert E. Blum](image)

1995 : **BLUNDELL, Sir Tom Leon** (*b* 1942), DPhil (Oxon), Sp: Structural Biology, X-ray Crystallography, Biochemistry; FRS, Fellow, Med Sci, Emeritus Professor and Director of Research, *Department of Biochemistry, University of Cambridge, 80 Tennis Court Road, Cambridge CB2 1GA* [Tel (44-1223) 333-628; Email tbl20@cam.ac.uk].

![Sir Tom Leon Blundell](image)

1992 : **BRESLOW, Ronald Charles David** (*b* 1931), AB, AM, PhD, Sp: Organic & Bioorganic Chemistry; Nat Acad Sc, USA, Am Acad Arts & Sc, Am Phil Soc, Roy Soc Chem (Hon), Korean Chem Soc (Hon), Roy Soc (Hon Foreign Member), Japanese Chem Soc (Hon), Eur Acad Sc, SL Mitchell Professor of Chemistry and University Professor, *Department of Chemistry, Columbia University, 3000 Broadway, New York, NY 10027, USA* [Tel (212) 854-2170; Fax 854-2755; Email rb33@columbia.edu].

![Ronald Charles David Breslow](image)

2012 : **CAZENAVE, Anny** (*b* 1944), PhD, Sp: Satellite Geodesy and Space Research in Earth Sciences; Member, French Academy of Sciences, Foreign Member, National Academy of Sciences, USA; Member, Academia Europaea, Member, European Academy for Aeronautics and Space, Foreign Fellow, National Academy of Sciences of India, Allahabad and Fellow, American Geophysical Union; Senior Scientist, *Laboratoire d’ Etudes en Géophysique et Océanographie Spatiale (LEGOS), Centre National d’Etudes Spatiales (CNES), 18 Avenue Edouard Belin, 31401, Toulouse Cedex 4, France* [Tel +33 5 61 33 29 22; Fax +33 5 61 25 32 05; Email anny.cazenave@legos.obs-mip.fr, anny.cazenave@cnes.fr].

![Anny Cazenave](image)
2000 : COHEN-TANNOURDJ, Claude (b 1933) PhD, NL, Sp: Atomic Molecular and Optical Physics; Member, Academie des Sciences, Honorary Research Professor, Honorary Professor, College de France, Ecole Normale Superieure, Laboratoire Kastler Brossel 24, rue Lhomond, 75231 Paris Cedex 05, France; 38 rue des Cordelieres, 75013, Paris, France [Tel + 33 (0)1 47 07 77 83 (O), + 33 (0)1 45 35 02 18; Fax + 33 (0)1 44 34 34 94; Email claude.cohen-tannoudji@lkb.ens.fr].

2015 : COLWELL, Rita Rossi (b 1934), DSc (hc), Sp: Microbial Genomics, Microbial Ecology, Molecular Genetics; FNASc, FRSC, Fellow, US National Academy of Sciences, Fellow, American Academy of Arts and Sciences, Fellow, American Association for the Advancement of Science; Fellow, Am Acad Microbiology, Distinguished University Professor, University of Maryland, College Park, 3103 Biomolecular Sciences Building 296, College Park, Maryland 20742, USA and John Hopkins Bloomberg School of Public Health, Baltimore, Maryland; 5010 River Hill Road, Bethesda, Maryland 20816, USA [Tel (+1) 301 405-9550 (O); Email rcolwell@umiacs.umd.edu].

1991 : DAVIDSON, John F (b 1926), ScD (Cantab), PhD (Cantab), DSc (hc), Sp: Fluidization, Multi-Phase Flow; Foreign Assoc, US Nat Acad Eng, Associate Russian Academy of Engineering, Professor Emeritus, formerly Shell Professor, Department of Chemical Engineering, University of Cambridge, Pembroke Street, Cambridge CB2 3RA; 5 Luard Close, Cambridge England CB2 8PL [Tel (44-1223) 334-775 (O), 246-104 (R); Fax 334-796; Email jfd1000@cam.ac.uk].

1988 : DE JAGER, Cornelis (b 1921), PhD (Utrecht), PhD (hc), Sp: Space Research and Astrophysics; Emeritus Professor, Space Research University of Utrecht, Molenstraat 22, 1791 DL Den Burg, Royal Netherlands Institute for Sea Research, PO Box 59, 1790 AB DEN BURG, The Netherlands, NL [Tel (31-222) 320-816 (R); Email info@cdejager.com; Web http://www.cdejager.com].

2016 : ELLIS, Jonathan R (b 1946), PhD, Sp: Particle Physics, Cosmology, Astrophysics and Quantum Gravity; FRS, Scientist, Clerk Maxwell Professor of Theoretical Physics, Physics Department, King’s College, Strand, London WC2R 2LS, UK [Tel +44 (020) 7848-2470 (O); Email john.ellis@cern.ch; Web http://www.kcl.ac.uk/nms/depts/physics/people/academicstaff/ellis.aspx].

2007 : ERNST, Richard R (b 1933), PhD, NL, Sp: Fourier Transform NMR Spectroscopy, Scientific Analysis of Budhist Paintings; Link Between Art and Science; Professor Emeritus, ETH Zurich Laboratorium für Physikalische Chemie, Wolfgang Pauli-Strasse, 10 HCI D217, 8093 Zurich, Switzerland [Tel (41) 44-632-4368 (O), (41) 52-242-7807(R); Fax (41) 44632-1257; Email ernst@nmr.phys.chem.ethz.ch].

2013 : FLEMING, Graham R. (b 1949), PhD, Sp: Physical Chemistry and Chemical Physics; FRS, Fellow, Am Acad Arts & Sc, Member, Nat Acad Sc, USA, Vice Chancellor for Research and Melvin Calvin Distinguished Professor of Chemistry, Department of Chemistry, 119 California Hall # 1500, University of California, Berkeley, California 94720-1500, USA [Tel (510) 643-2735; Fax 642-6340; Email fleming@cchem.berkeley.edu, grfleming@lbl.gov].
1984: GELL-MANN Murray (b 1929), PhD, ScD (hc) NL, Sp: Elementary Particle Theory, Simplicity & Complexity; Hon Mem, French Physical Society, For Mem, Society of London, For Mem, Pakistan Acad Sc, For Mem, Russian Acad Sc, Member, National Acad Sc, USA, Member, American Association for the Advancement of Science, Sp: Elementary Particle Theory, Simplicity & Complexity; Distinguished Fellow, Santa Fe Institute, 1399 Hyde Park Road, Santa Fe, New Mexico 87501; RA Millikan Professor Emeritus of Theoretical Physics, California Institute of Technology [Tel 505-984-8800; Fax 505-982-0565; Email laurie@santafe.edu; Web http://www.santafe.edu/sfi/People/mgm/].

2012: GLEITER, Herbert (b 1938), PhD, Sp: Nano materials, Solid State Physics, Materials Science; Fellow, Japanese Society for the Promotion of Science; Honorary Member, German Materials Society; Fellow, Materials Research Society; Fellow and Honorary Member, Materials Research Society of India, Member, German National Academy of Sciences, Leopoldina; US National Academy of Engineering; American Academy of Arts and Sciences; Indian National Academy of Engineering; Indian Academy of Sciences; European Academy of Sciences; Academia Europaea; European Academy of Sciences and Arts; Tamil Nadu Academy of Sciences; Global Academy of Engineering; Honorary Doctorates of the Universities Darmstadt, Muenster, ETH Zuerich, City University of Hong Kong; Director Emeritus and Institute Professor, Institute of Nanotechnology, Karlsruhe Institute of Technology, Hermann-von-Helmholtz-Platz, D-76344 Karlsruhe-Eggenstein, Germany [Tel +49 (0721) 6082-6351; Email herbert.gleiter@kit.edu].

1991: GROS, François (b 1925), PhD, Sp: Molecular & Developmental Biology; FTWAS, Hon Sc, Am Acad Arts & Sc, Acad. of Med Sciences (UK), Acad Roy de Belgique, Acad Athens, Academy of Russia, Acad Nazelle Scienze (Ital), (Hon)Permanent Secretary, Institut de France, Académié des Sciences, 23 Quai de Conti 75006 Paris (France); Hon Director General, Pasteur Institute, 25 Rue Du Docteur Roux, F 75724, Paris; formerly Science Adviser to Prime Minister; formerly Professor of Cell Biochemistry, Collège de France; 102, Rue de la Tour 75116 Paris (France) [Tel (331-44) 414-557 (O); Fax 414-374; Email francois.gros@academie-sciences.fr]; Medal: JL Nehru Birth Centenary (1999).

2008: GROSS, David J (b 1941), PhD, NL, Sp: String Theory; Chancellor’s Chair Professor of Theoretical Physics, Kavli Institute for Theoretical Physics, University of California at Santa Barbara, CA 93106-4030, USA.

2011: HACKER, Jorg Hinrich (b 1952), Prof Dr Dr h.c.mult.; Sp: Analysis of the Molecular Biology and Evolution of Pathogenicity Factors, Analysis of the Spread and Variability of Pathogenic Microorganisms, Study of the Interactions between Microbes and Host Cells; Member, Göttingen Academy of Sciences and Humanities, Member, EMBO, Member, Bavarian Academy of Sciences and Humanities, Member, Berlin Brandenburg Academy of Science and Humanities, Member, European Academy of Sciences and Arts, Salzburg, Fellow, Am Acad Microbiology, Fellow, Sackler Institute for Advanced Studies, Israel and Foreign Member of the Max Planck Society; President, German National Academy of Sciences Leopoldina, Jägerberg 1, 06108 Halle/Saale [Tel +49 345-47239-15; Fax +49 345-47239 19; Email joerg.hacker@leopoldina.org].
1979 : HADZI, Dusan (b 1921), PhD (Chemistry), DPhil (hc, Uppsala) Sp: Molecular Structure and Spectroscopy, Quantum Chemistry; F Slovenian ASc, EF Croatian ASc, CF Serbian ASc, CF Macedonian ASc, Honorary Fellow (2001), National Institute of Chemistry, Hajdrihova 19, SI-1001 Ljubljana, Slovenia; formerly Professor of Structural Chem, Univ of Ljubljana; Teslova 21, SI-1000 Ljubljana, Slovenia [Tel (386-1) 476-0270 (O), 425-4759 (R); Fax 476-0300; Email dusan.hadzi@ki.si].

1990 : HAGENMULLER, Paul (b 1921), PhD, PhD (hc), Sp: Solid State Chemistry; Commandeur French Légion d’Honneur, Commandeur French Ordre Nat du Merite, Officer German Medal of Merit 1st Class, IAS, Foreign Mem, Acad Sc Sweden, Russia, Germany (Leopoldina and Göttingen), Poland, Bulgaria, Brazil, Medit Acad Ceramics, European Acad, TWAS, New York Acad Sc, Corresp Mem, French Acad Sc, Hon Professor, Chinese Acad Sc and East China and Guangzhou Univ, Hon Director, ICMCB Institute-CNRS, Univ Bordeaux I, 87 Avenue du, Dr Albert Schweitzer, 33608 Pessac, France [Tel (33-5) 400-06325 (O); Fax 400-06324; Email hagen@icmcb.bordeaux.cnrs.fr].

1982 : HEWISH, Antony (b 1924), PhD, NL, Sp: Radioastronomy; FRS, Emeritus Professor of Radioastronomy, University of Cambridge, Cavendish Laboratory, Madingley Road, Cambridge, CB3 0HE; 1 Redwood Lodge, Grange Road, Cambridge CB3 0HE [Tel 44-1223-350736 (O); Fax 354-599; Email ah120@mrao.cam.ac.uk]; Medal: INSA-Vainu Bappu Memorial (1996).

1984 : HOFFMANN, Roald (b 1937), PhD, Sp: Chemistry; Fellow, NAS (USA), Am Acad Art Sc, Frank HT Rhodes Professor of Humane Letters and Chemistry, Emeritus, Dept. of Chemistry, Cornell University, Baker Laboratory, Ithaca New York 14853-1301, USA [Tel (607) 255-3419 (O); Fax 255-5707; Email rh34@cornell.edu].

2012 : HOHN, Barbara (b 1939), PhD, Sp: Biology of Agrobacterium tumefaciens, Genetic Stability / Flexibility of Plant Genomes; Foreign Member, Royal Society, Member, Austrian Academy of Sciences, Member, EMBO, Plant Molecular Biologist & Professor, Friedrich Miescher Institute for Biomedical Research, Maulbeerstrasse 66, CH-4058, Basel Switzerland; Hangstrasse 35, CH-4144 Arlesheim, Switzerland [Tel +41 61 697 6682, +41 61 705 7502; Email hohnba1@fmi.ch].

1988 : HOPWOOD, Sir David (Alan) (b 1933), PhD, DSc, Sp: Genetics of Streptomyces; FRS, Hon Mem, Hung Acad Sc, Emeritus Professor of Genetics, University of East Anglia, Norwich & Emeritus Fellow, Department of Molecular Microbiology, John Innes Centre, Norwich Research Park, Colney, Norwich NR4 7UH, UK; 244 Unthank Road, Norwich, NR2 2AH,UK [Tel (44-1603) 450-000; Fax 450-018; Email david.hopwood@jic.ac.uk; Web http://www.jic.ac.uk/staff/davidhopwood].
2014 : **HUBER, Robert** (*b* 1937), PhD, NL, Sp: Structural Biology; FMRS, FRS, Fellow, National Academy of Sciences, Leopoldina, Germany and American Academy of Microbiology, Member, Deutsche Chemische Gesellschaft, Gesellschaft für Biologische Chemie, EMBO, Bayerische Akademie der Wissenschaften, Deutsche Akademie der Naturforscher, Leopoldina, European Academy of Arts, Science and Humanities, Accademia Nazionale dei Lincei, Rome and Orden Pour le Mérite für Wissenschaften und Künste, Research Professor Emeritus, *Max-Planck Institute for Biochemistry, AM Klopferspitze 18, D-82152 Martinsried, Germany* [Tel 0049-89-8578-2677 (O); Fax 8578-3516; Email huber@biochem.mpg.de].

2015 : **JAIN, Rakesh Kumar** (*b* 1950), PhD, Sp: Bioengineering, Tumor Biology, Drug Delivery, In Vivo Imaging; Founding Fellow, American Institute for Medical and Biological Engineering, Member, National Academy of Medicine, National Academy of Engineering, American Academy of Arts and Sciences, National Academy of Sciences, Andrew Werk Cook Professor of Radiation Oncology (Tumor Biology), Director, *Edwin L Steele Laboratory for Tumor Biology, Department of Radiation Oncology, Affiliated Faculty, Harvard-MIT Division of Health Sciences and Technology, Harvard Medical School and Massachusetts General Hospital, 100 Blossom Street, Cox 7, Boston, MA 02114, USA; 14 Squirrel Road, Wellesley, MA 02481, USA* [Tel (+1) (617) 726-4083 (O); Fax 724-1819; Email jain@steele.mgh.harvard.edu; Web http://steele.mgh.harvard.edu].

1996 : **JORTNER, Joshua** (*b* 1933), PhD Sc (*hc*), Sp: Chemical Physics, Solid State Physics; Academies, Nat-Israel Acad Sc and Humanities, International-Acad Quantum Molecular Sc, Am Phil Soc, R Danish Acad Sc and Letters, Am Acad Arts and Sc, Polish Acad Sc, Romanian Acad Sc, European Acad Sc and Arts, Nat Acad Sc (USA), Russian Acad Sc, Leopoldina Acad Sc, Royal Netherlands Acad Arts Sci, Learned Society of the Czech Republic, Chemical Research Society of India; formerly President, Israel AcadSc and Humanities, Past President IUPAC, *School of Chemistry, Raymond and Beverly Sackler Faculty of Exact Sciences, Ramat Aviv, Tel Aviv University, Tel Aviv 69978, Israel* [Tel (972) 3-640-8322; Fax (972) 3-641-5054; Email jortner@chemsg1.tau.ac.il; Web www.tau.ac.il/chemistry/jortner].

2014 : **KAILATH, Thomas** (*b* 1935), ScD, Sp: Information Systems (Communications, Control, Computing, Signal Processing); FASc, FNASC, FNAE, Member, US National Academy of Sciences, US National Academy of Engineering and American Academy of Arts and Sciences, Foreign Member, Royal Society of London, Royal Spanish Academy of Engineering, Hitachi America Professor of Engineering, Emeritus, Information Systems Laboratory, Department of Electrical Engineering, Stanford, CA 94305-9510, USA; 346 *Green Oaks, Dr Atherton, CA 94027-2116* [Tel (001-650) 494-9401 (O); Email kailath@stanford.edu, profkailath@yahoo.com; Web www.stanford.edu/~tkailath].

2004 : **KATRITZKY, Alan Roy** (*b* 1928), Sp: Organic Synthesis, Heterocyclic Chemistry, Mechanistic Organic Chemistry; FRS, Kenan Professor of Chemistry, *University of Florida, Department of Chemistry, PO Box 117200, Gainesville, FL 32611-7200, USA* [Tel (352) 392-0554 (O); Fax (352) 392-9199; Email katritzky@chem.ufl.edu].
2013 : KLEINER, Matthias (b 1955), PhD, Sp: Material Science and Material Processing Modeling, Simulation and Control Production Engineering Lightweight Construction; Fellow, German Acad of Natural Scientists Leopoldina, Fellow, Acatech-Council of Technical Sciences of the Union of German Academies of Sciences and Humanities, Fellow, Academia Europ, Fellow, European Academy of Sciences and Arts and Fellow, CIRP-The International Academy for the Production Engineering, President, Leibniz Association, Chausseestraße 111, D-10115 Berlin, Germany [Tel +49 30 206049-40 (O), +49 171 316-9546 (M); Fax 206049-55; Email matthias.kleiner@leibniz-gemeinschaft.de].

1997 : LACHMANN, Sir Peter Julius (b 1931), ScD, FRCP, FRC Path, Sp: Immunology; FRS, FMedSci, Foreign Mem Norwegian Acad Sc & Letters, Honorary Mem Czech Academy of Medicine, Mem Academia Europae; Founder President, Academy of Medical Sciences (1998-2002), Emeritus Sheila Joan Smith Professor of Immunology, University of Cambridge, Department of Veterinary Medicine, Madingley Road, Cambridge CB3 0ES; 36 Conduit Head Road, Cambridge CB30EY, UK [Tel (44-1223) 766-242 (O), 354-433 (R), 79-417-60460 (M); Fax 766-244 (O), 300-169 (R); Email pjl1000@cam.ac.uk].

1998 : LEE, Yuan T (b 1936), PhD, NL, Sp: Physical Chemistry (Chemical Dynamics & Photo Chemistry); Foreign Member, National Academy of Sciences, Royal Swedish Academy of Engineering Sciences, Bangladesh Academy of Sciences, Honorary Foreign Member, The Korean Academy of Science and Technology, Honorary Member, Chemical Research Society of India, The Japan Academy, The Hungarian Academy of Sciences, Science Council of Japan; External Member, Max Planck Institute fur Stromungsforschung; Corresponding Member, Gottingen Academy of Sciences; Fellow, American Academy of Arts and Science, Third World Academy of Sciences, Honorary Fellow, RIKEN of Japan; Academician, Academia Sinica; Pontifical Academy of Sciences; President Emeritus and Distinguished Research Fellow, Academia Sinica; Immediate Past President of ICSU; Genomic Research Center, Academia Sinica, 7th Floor, 128, Section 2, Academia Road, Nankang, Taipei 115, Taiwan [Tel (886-2) 2789-8802; Fax 2789-8801; Email ytlee@gate.sinica.edu.tw]. Medal: JL Nehru Birth Centenary (2004).

2011 : LEGGETT, Anthony James (b 1938), PhD, NL, Sp: Condensed Matter Physics, particularly High Temperature Superconductivity, Superfluidity and Foundations of Quantum Mechanics; Member, National Academy of Sciences, USA, Member, American Philosophical Society, Member, American Academy of Arts and Sciences, Foreign Member, Russian Academy of Science, Fellow, Royal Society, UK, Fellow, Institute of Physics, Fellow, American Physical Society and Honorary Fellow, Institute of Physics, Professor of Physics, John D and Catherine T MacArthur Professor of Physics, University of Illinois, Urbana-Champaign, Urbana, Illinois, USA [Tel +1 (217) 333-2077; Fax 333-9819; Email aleggett@illinois.edu].

2010 : LEY, Steven V (b 1945), Sp: Organic Chemistry; FRS, Fellow, Acad Medical Sci, UK; Professor, Department of Chemistry, Cambridge University, Lensfield Road, Cambridge CB2 1EW [Tel (01223) 336-398; Fax 336-442; Email svl1000@cam.ac.uk].
1999 : LLEWELLYN SMITH, Christopher Hubert (b 1942), DPhil (Oxon), Sp: Theoretical Particle Physics, Fusion Energy; FRS, Academia Europea, Director of Energy Research, Oxford University, Theoretical Physics, 1 Keble Road OX1 3NP, UK [Tel 44 (0) 1865-275847; Email c.llewellyn-smith@physics.ox.ac.uk].

1980 : MASSEVITCH, Alla Genrikhovna (b 1918), Doctor Physical Mathematical Sciences, ScEm, Sp: Astrophysics and Satellite Geodesy; For Mem, R Astron Soc, Austrian Acad Sc, Mem, International Acad Astronautics, Chief Scientist, Astronomical Institute, Russia, Academy of Sciences; 48 Pyatniskaya St, Moscow, Russia 109045 [Tel (7-095) 251-3980 (O), 208-9333 (R); Fax 230-2081; Email agm@inasan.rssi.ru].

1986 : McKENZIE, Dan Peter (b 1942), PhD, DSc (hc), Sp: Earth & Planetary Sciences; FRS, Nat Acad Sc (USA), Member of the Campanions of Honour (CH), Emeritus Professor of Earth Sciences, Department of Earth Sciences, Bullard Laboratories, Cambridge Univ, Madingley Road, Cambridge CB3 OEZ UK [Tel (44-1223) 337-177(O); Fax 360-779; Email mckenzie@madingley.org].

1990 : MITCHISON, Nicholas Avrion (b 1928), DPhil, Hon MD, Sp: Immunology; Department of Immunology, UCL Medical School Windeyer Building, Cleveland Street, London WC1P 6DB [Tel +44-(0) 20-7679-9337; Fax +44-(0) 20-7679-9357; Email n.mitchison@ucl.ac.uk].

1983 : MIYAKE, Saburo (b 1924), Dr of Science, Sp: Cosmic Rays; Hon Fellow, TIFR and Foreign Fellow, Nat Acad Sc India, Professor Emeritus, Kanagawa University; University of Tokyo, Osaka City University; 6-16-3 Mukougaoka Uenoshiba Sakai-shi, Osaka, 543, Japan [Tel (0722) 781-606 (R); Email miyake@alpha.sci.osaka-cu.ac.jp].

2010 : MÜLLER, Achim (b 1938), Sp: Inorganic Chemistry; Professor, Faculty of Chemistry, University of Bielefeld, Postfach 10 01 31, 33501 Bielefeld, Germany [Tel +49 (0) 172 5220891 (M); Fax +49 (0) 521 106 6003; Email a.mueller@uni-bielefeld.de].

1989 : NAGAKURA, Saburo (b 1920), DSc, Sp: Molecular Science; Japan Acad, Int Acad Quantum Mol Sc, Deutsche Akad Naturforscher, Leopoldina, R Swedish Acad Sc, Ind Acad Sc, Korean Acad Sc & Tech, Member and President (2001-07), Japan Academy, 7-32, Ueno Park, Taito-ku, Tokyo 1100007, Japan; 2-7-13 Higashi-cho, Kichijoji, Musashino, Tokyo 1800002, Japan [Tel (813) 3822-2101 (O), (81-422) 225-777; Fax (813) 3822-2105]; Medal: JL Nehru Birth Centenary (1996).

1980 : NOSSAL, Sir Gustav Joseph Victor (b 1931), AC, CBE, MBBS, PhD (Melb), MD (hc), DSc (hc), LLD (hc), Sp: Medical Biology and Immunology; FRCP, FRACP, FRCPA, FRACOG (Hon), FRCPath, FRACGP, FRSE, FTSE, FAA, FRS, Consultant, World Health Organization and Bill and Melinda Gates Foundation; formerly Director, The Walter and Eliza Hall Institute of Med Res and Professor of Med Biology, The University of Melbourne, Department of Pathology, The University of Melbourne, Parkville, Victoria 3010, Australia [Tel (+61-3) 9853-8256; Email gnossal@bigpond.net.au].
2011 : **OGAWA, Seiji** (*b* 1934), PhD, Sp: Functional MRI; Member, National Academy of Sciences, USA, Member, National Academy of Medicine, Honorary Member, Japanese Society of Magnetic Resonance in Medicine, Honorary Member, Japanese Society of Nuclear Magnetic Resonance, Honorary Member, National Magnetic Resonance Society of India and Fellow, International Society for Magnetic Resonance in Medicine, Director, Ogawa Laboratories for Brain Functions Research, Hamano Life Science Research Foundation, Tokyo, Japan [Tel 81 3 5919 3992 (O), +81 467 31 4350 (R); Fax 81 (0)3 5919 3993; Email ogawa@hlsrf.or.jp].

2005 : **OLAH, George A** (*b* 1927), NL, Sp: Hydrocarbon and Fuels, Synthetic and Mechanistic Organic Chemistry; FRS, Distinguished Professor of Organic Chemistry, Founding Director, Loker Hydrocarbon Research Institute, University of Southern California, Los Angeles, CA 90089-1661, USA [Tel (213) 740-5976 (O); Fax 740-5087; Email olah@usc.edu].

2001 : **O’NIONS, Robert Keith** (*b* 1944), Director General, Science and Innovation, Department for Innovation, Universities and Skills, 1 Victoria St., London, SW1H OET, UK and Department of Earth Sciences, University of Oxford, OX1 3PR, UK [Tel (+44) 207-215-3803; Email keith.onions@dius.gsi.gov.uk].

2009 : **PALIS, Jacob Jr** (*b* 1940), PhD, Sp: Mathematics : Dynamical Systems, Their Stability and Scenarios to Chaos; President, Academy of Sciences for Developing World (TWAS), Vice-President Brazil Academy of Sciences, Member, Chinese Academy of Sciences, European Academy of Sciences and Norwgean Academy of Sciences, Foreign-Member, Mexican Academy of Sciences, French Academy of Sciences and US National Academy of Sciences, Estrada Dona Castorina, 110 Rio de Janeiro-Brazil 22460-32 [Tel (+55 21) 2529-5136; Fax 2512-4115; Email jpalis@impa.br].

1993 : **PARR, Robert G** (*b* 1921), PhD, Dr (*hc*), Sp: Quantum Chemistry; NAS (USA), Am Acad Arts & Sc, Wassily Hoeffding Professor of Chemical Physics, *Department of Chemistry*, *The University of North Carolina at Chapel Hill*, Chapel Hill, NC 27599-3290, USA; 701 Kenmore Road, Chapel Hill, North Carolina, 27514, USA [Tel (919) 962-1577 (O), 929-2609; Fax 962-2388; Email rgparr@email.unc.edu].

1994 : **PASCAL, Jean Pierre** (*b* 1944), DSc, Sp: Forest Ecology, Biodiversity, Biogeography; FNASc, formerly Director of Research, National Centre for Scientific Research; 43, Avenue Rockefeller, 69003, Lyon, France [Tel (33) (0) 47235-1241 (R); Email andree.pascal@yahoo.fr].
1982 : PATEL, Chandra Kumar Naranbhai (b 1938), PhD, ScD (hc), Sp: Laser, Quantum Electronics, Defense and Homeland Security Optoelectronics; NAS (USA), NAE (USA), Am Acad Arts & Sc., Recipient US National Medal of Science; Past President, Am Phys Soc., Sigma Xi, President, CEO and Chairman of the Bd., Pranalytica, Inc., 1101 Colorado Avenue, Santa Monica, CA 90401-3009, USA, Professor, Department of Physics & Astronomy, UCLA, USA; 1171 Roberto Lane, Los Angeles, CA 90077, USA [Tel (310) 458-3345 (O), 614-7390 (R); Fax 458-0171; Email patel@pranalytica.com].

1991 : PEACOCK, William James (b 1937), AC, PhD, DSc Ag (hc), DSc (hc); Sp: Plant Molecular Biology, Crop Improvement; FAA, FRS, FAIAST, FTSE, Foreign Assoc, Nat Acad Sc (USA), Chief Scientist Australian Government (2006-2008), President, Australian Academy of Science (2002-2006), CSIRO Fellow and Distinguished Professor, University of Technology Sydney, CSIRO Agriculture, GPO Box 1600, Canberra ACT 2601, Australia [Tel (61-2) 6246-5250 (O), 6281-4485 (R); Fax 6246-4866; Email jim.peacock@csiro.au].

2011 : PISIER, Gilles Jean Georges (b 1950), PhD, Sp: Functional Analysis, Probability, Harmonic Analysis, Operator Theory, C*-Algebras; Elected Membre Correspondant, Académie des Sciences de Paris, Elected Académico Correspondiente, Real Academia de Zaragoza, Elected Membre, Académie des Sciences de Paris, Elected Foreign Member, Polish Academy of Science, Emeritus Professor, Université Pierre et Marie Curie, Paris VI, France, Distinguished Professor at Texas A&M University, Texas [Tel 001 979 845-7278; Email pisier@math.tamu.edu, gilles.pisier@imj-prg.fr].

1994 : PLATONOV, Vladimir Petrovich (b 1939), PhD, Sp: Algebraic Groups and Algebraic Number Theory; Academician, Russian Academy of Sciences, National Academy of Sciences of Belarus, Chief Scientist of the Scientific Research Institute for System Analysis of the Russian Academy of Sciences, Nabimovskii Prospect, 36, Building 1, Moscow 117 218, Russia [Email platonov@niisi.ras.ru].

2011 : POLANYI, JC (b 1928), PhD, NL, Sp: Molecular Reaction Dynamics; Member, Queen’s Privy Council for Canada, Fellow, Royal Society, Canada; Fellow, Royal Society, London, Fellow, Royal Society, Edinburgh, Fellow, American Academy of Arts and Sciences, Fellow, US National Academy of Sciences, Fellow, Pontifical Academy of Rome and Fellow, Russian Academy of Sciences; University Professor, Department of Chemistry, University of Toronto, Toronto, Canada [Tel +1-416-978-3580; Fax 416-978-7580; Email jpolanyi@chem.utoronto.ca].

2008 : PURCELL, Robert Harry (b 1935), formerly Chief, Hepatitis Viruses Section, Laboratory of Infectious Diseases, 50 South Drive, Bldg 50, Rm 6535, National Institute for Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, 20892-8009, USA [Tel (301) 496-5090; Fax 402-0524].
2009 : RAM MURTY, Maruti (b 1953), PhD, Sp: Number Theory; Fellow Royal Society of Canada, American Mathematical Society, Canadian Mathematical Society; Department of Mathematics, Jeffery Hall, Queen’s University, Kingston, Ontario, K7L 3N6, Canada; Suite 1006, 5 Gore Street, Kingston, Ontario, K7L0A1, Canada [Tel 613-533-2413 (O), 613-548-4381 (R); Fax 613-533-2964].

2009 : RAMAKRISHNAN, Venkatraman (b 1952), PhD, FRS, Sp: Structural Biology, Molecular Biology; Member, National Academy of Sciences (USA); Nobel Prize (2009), President, Royal Society; Joint Head, Structural Studies Division, MRC Laboratory of Molecular Biology, Cambridge, CB2 0QH, England [Tel +44(0) 1223 402 214; Email ramak@mrc-lmb.cam.ac.uk]; Medal: JL Nehru Birth Centenary (2016).

1992 : RAMSAY, John Graham (b 1931), DSc (Lond), PhD (Lond), Dr. (hc) Univ. Rennes, France, FRS, CBE, Hon Professor of Geology, Department of Earth Sciences, University of Cardiff; Emeritus Professor of Geology, Geologisches Institute, ETH Zentrum, CH-8092, Zurich, Switzerland; 2nd address-Cratoule, Issirac, F-30760, St Julien de Peyrolas, France [Tel 33 4 66 82 32 28; France 04 66 823228; Email ramsay-dietrich@wanadoo.fr].

1990 : RAVEN, Peter H (b 1936), PhD, DSc (hc), Sp: Systematic Botany, Evolution, Conservation; President Emeritus, Missouri Botanical Garden, PO Box 299, St Louis, MO 63166-0299, USA [Tel (314) 577-9577 (O); Fax 577-9596; Email peter.raven@mobot.org].

1988 : REDDY, Raj (b 1937), BE (Civil Engg), MTech, PhD, DSc (hc), Sp: Human-Computer Interaction and Artificial Intelligence, Spoken Language Systems, Gigabit Networks, Universal Digital Libraries, and Distance Learning; Fellow, IEEE, Acoust Soc of Am, AAAI, Mem, Nat Acad Engg, Am Acad Arts & Sc, University Professor of Computer Science and Robotics, Carnegie Mellon University, 5325, Wean Hall, Pittsburgh, Pa 15217, USA [Tel (412) 268-7170 (O), 268-2572 (R); Fax 683-5348; Email rr@cmu.edu].

1993 : REMBOLD, Heinz (b 1928), Head (Retd) and Professor of Biochemistry, Max-Planck-Institute for Biochemistry, D-82152, Martinsried; Luise-Kiesselbach-Platz 2, Münchentift, Haus St. Josef, D-81377, München, Germany [Telefax (+49 89) 723-9487; Email heinz.rembold@web.de].

1989 : RIMAN, Josef Vavrinec (b 1925), MD, PhD, DSc (Chem), DSc (Biol, hc), Sp: Biochemistry & Molecular Biology of Retroviruses; Full Mem, Central European Acad Sc & Art, CS Acad Sc, Hon Mem, Hungarian Acad Sc, Biol Chem Soc, Foreign Mem, Bulgarian Acad Sc, Acad Sc USSR, Russian Acad Sc, Acad Sc GDR, GW Leibniz Soc, Germany, Leading Scientist, Director-Founder, Institute of Molecular Genetics (formerly President), Czechoslovak Academy of Sciences, Flemming n 2, Prague 6 16637, Czech Republic; Neberovska St 18, 16000 Prague 6, Czech Republic [Tel (00420) 23333-5626 (R) (Czech Republic); Email riman@img.cas.cz].
1995: ROSSMANN, Michael G (b 1930), PhD, PhD (hc), Sp: Crystallography, Viruses, Proteins; Member, US National Academy of Science, R SocLond, Hanley Professor of Biological Sciences, Purdue University, Department of Biological Sciences, 915 W. State Street, West Lafayette, IN 47907-2054, USA; 1208 Wiley Drive, West Lafayette, IN 47906 [Tel (765) 494-4911 (O), 743-9457 (R), +1-765-409-0238 (M); Fax 496-1189; Email mr@purdue.edu; Web http://www.bilbo.bio.purdue.edu/~viruswww/Rossmann_home/rstest.html].

2008: SREENIVASAN, Katepalli R (b 1946), University Professor, Physics Department and Courant Institute of Mathematical Sciences, New York University, Provost and Acting President NYU-Poly, Bobst Library, 70 Washington Square South, New York, NY 10012, USA [Email katepalli.sreenivasan@nyu.edu].

2013: SRIDHAR, Tamarapu (b 1949), PhD, Sp: Chemical Engineering; Fellow, Aust Acad of Technological Sc & Engg, Fellow, Aust Acad Sc, Fellow, Institute of Chemical Engineers, UK, Sir John Monash Distinguished Professor and Dean of Engineering, Vice President (China and India Initiatives), Monash University, Wellington Road, Clayton, Victoria 3800, Australia; 67 Palm Beach Drive, Patterson Lakes, Victoria 3197, Australia [Tel (0613) 9772-1028, 905-3427; Fax 9905-9649; Email tam.sridhar@eng.monash.edu.au].

2016: SUR, Mriganka (b 1953), PhD, Sp: Neuroscience; FRS, FTWAS, FAAS, FNASC, Newton Professor of Neuroscience, Director, Simons Centre for the Social Brain, Department of Brain and Cognitive Sciences, Massachusetts Institute of Technology, 43 Vassar Street, 46-6237, Cambridge, MA 02139, USA [Tel (617) 253-8784 (O); Fax 253-9829; Email msur@mit.edu; Web http://web.mit.edu/bcs/people/sur.html, http://web.mit.edu/scsb].

2014: SURESH, Subra (b 1956), ScD, Sp: Mechanical Behaviour of Materials, Cell Biophysics and Human Diseases, Science and Academic Policy and Administration; FASc, FTWAS, FNAE, Fellow, American Academy of Arts and Sciences, Member, US National Academy of Sciences, National Academy of Sciences, National Academy of Medicine, German National Academy of Sciences, Spanish Royal Academy of Sciences, Royal Swedish Academy of Engineering Sciences, President, Carnegie Mellon University, Office of the President, 5000 Forbes Avenue, Pittsburgh, PA 15213, USA; formerly Director, US National Science Foundation[Tel 001-412-268-2200 (O); Email president@cmu.edu].

2010: TAKEDA, Yoshifumi (b 1935), MD, PhD, Sp: Bacterial Enteric Toxins and Diarrhoeal Diseases; Emeritus Member, National Institute of Infectious Diseases; 2-1-3 Nukuikitamachi, Koganei, Tokyo 184-0015, Japan [Email takeda@noguchihideyo.or.jp].

1978: TATA, Jamshed Rustom (b 1930), D-es-Sc, Sp: Molecular and Developmental Biology, Endocrinology; FNASC, FTWAS, FRS, formerly Head, Department of Developmental Biochemistry, MRC Nat Institute of Med Res, Mill Hill, London NW7 IAA, UK; 15, Bittacy Park Avenue, London NW7 2HA, UK [Tel (44-20) 8346-6291 (R); Fax 8906-4477; Email jrtata134@clara.co.uk, jtata@nimr.mrc.ac.uk, Jamshed.Tata@crick.ac.uk].
1985 : THOMAS, Sir John Meurig (b 1932), PhD, DSc, Sp: Solid State, Catalysis, Surfaces, Materials Science; FRS, FRE, Hon Professor in Solid State Chemistry, Department of Materials Science & Metallurgy, University of Cambridge, 27 Charles Babbage St, Cambridge CB30FS, UK; Emeritus, Professor and formerly Director of Chemistry, The Royal Institution of Great Britain and of Davy Faraday Research Laboratory, 21 Albemarle Street, London, W1X 4BS, UK [Tel (+44 1223) 334300 (O); Fax 334567; Email jmt2@cam.ac.uk].

2016 : VALE, Ronald (b 1959), PhD, Sp: Biophysics; FAAAS, Fellow, US National Academy of Sciences, Professor and Chair, Department of Cellular and Molecular Pharmacology, Investigator, Howard Hughes Medical Institute (HHMI), The University of California, San Francisco, GH-N312E, MC 2200, 600 16th Street, San Francisco, CA, 94158-2517, USA [Tel +1 (415) 476-6380 (O); Fax 476-5233; Email vale@cmp.ucsf.edu; Web http://valelab.ucsf.edu].

2008 : VARADHAN, SR Srinivasa (b 1940), Professor of Mathematics and Frank J Gould Professor of Science, Courant Institute of Mathematics, New York 10012, USA.

2005 : VERMA, Inder M (b 1947), PhD, Sp: Molecular Biology; Professor of Molecular Biology, American Cancer Society, Laboratory of Genetics, The Salk Institute, 10010 North Torrey Pines Road, La Jolla, CA 92037 [Tel 858-453-4100 Ext 1462; Fax 558-7454; Email verma@salk.edu].

1994 : VIJH, Ashok Kumar (b 1938), OC, CQ, KC StJ, PhD, LL.D (hc), DSc (hc), Sp: Electrochemistry, Interfacial Materials Science; FRS, President, The Academy of Science of The Royal Society of Canada, FTWAS, European Acad Arts, Sc & Humanities, Nat Acad Sc, India, Academie Francophone d’Ingenieurs (Paris), Maître De Recherche, Institute de Recherche Hydro-Quebec (IREQ), 1800 blvd. Lionel Boulet, Varennes Quebec, Canada, J3X 1SI; 291 De la Commune Ouest, # 45, Montreal, Qc, Canada, H2Y2E1 [Tel (450) 652-8234 (O), (514) 282-0408 (R); Fax (450) 652-8424; Email ashok@ireq.ca].

2001 : WHITESIDES, George M (b 1939), Sp: Organic and Physical Chemistry, Material Science, Biochemistry, Surface Science, Self-Assembly; Woodford L and Ann A Flowers University Professor, Department of Chemistry, Harvard University, 12 Oxford Street, Cambridge, MA 02138-2902, USA [Tel (617) 495-9430 (O); Fax 495-9857; Email gwhitesides@gmwgroup.harvard.edu].

2009 : WIESEL, Torsten (b 1924), MD, NL, Sp: Neurobiology; Member, US National Academy of Sciences, Royal Swedish Academy of Sciences (Sweden), For Fellow of the Royal Society (UK), Recipient of the National Medal for Science (USA), Recipient of the order of Rising Sun, Grand Cordon (Japan), Nobel Prize in Physiology or Medicine (1981); Chair, Board of Governors, International Okinawa Institute of Science and Technology (2011-); Professor & President Emeritus, The Rockefeller University, 1230 York Avenue, New York, NY 10065; formerly Secretary General, the International Human Frontier Science Programme Organization, 12, Quai Saint-Jean, BP 10034, 67080 Strasbourg Cedex, France [Tel +1 (212) 327-7093 (O); Fax 327-8988; Email wiesel@rockefeller.edu].
1991: **WOLFENDALE, Sir Arnold** (b 1927), PhD, DSc (hc), Sp: Cosmic Radiation, Cosmic Ray Muons and Neutrinos, Gamma Ray Astronomy, High Energy Astrophysics, Climate Science; FRAS, FRS, For Fellow, Nat Acad Sc, India, R Soc S A, 14th Astronomer Royal; formerly President, European Physical Soc, Institute of Physics and Royal Astronomical Society; Professor of Physics, R Institution of Great Britain; Emeritus Professor, Department of Physics, University of Durham, Rochester Building, Science Laboratories, South Road, Durham, DH1 3LE, England [Tel+44(O)191 334-3580 (O), 384-5642 (R); Fax 334-5823; Email a.w.wolfendale@durham.ac.uk]; **Medal**: INSA-Vainu Bappu Memorial (2013).

1990: **WÜTHRICH, Kurt** (b 1938), DPhil, DPhil (hc), D Med (hc), D Chem (hc), D Sci (hc), Dr (hc), NL, Sp: Structural Biology, Structural Genomics, NMR Spectroscopy; Deutsche Akademie der Naturforscher Leopoldina, Academia Europae, For Assoc, Nat Acad Sc, USA, Latvian Acad. Sc., Nordrhein–Westfälische Akademie der Wissenschaften, Korean Acad Sc and Technology, Hon Fellow, Nat Acad Sc, India, The Royal Society of Chemistry, UK, The Royal Society of Edinburgh, UK, For Hon Mem, Am Acad Arts & Sc, Associé Etranger, Académie des Sciences Institut de France, Hon Mem Schweizerische Akademie der Technischen Wissenschaften, Hungarian Acad Sc, World Acad of Young Scientists, European Acad of Sc and Arts, Foreign Member, The Royal Society, UK, Corresponding Mem, Academia Brasileira de Ciências, Professor of Biophysics, *Institute of Molecular Biology & Biophysics, ETH, Zurich, CH-8093 Zurich, Switzerland*; Fliederstr 7, CH-8304, Wallisellen, Switzerland [Tel (+41-44) 633-2473 (O); Fax (+41-44) 633-1151; Email Wuthrich@mol.biol.ethz.ch]; Professor Structural Biology, The Scripps Research Institute, 10550 North Torrey Pines Road, La Jolla, CA 920379, USA [Tel (+1-858) 784-801; Fax 784-8014; Email wuthrich@scripps.edu].

1991: **WYLLIE, Peter John** (b 1930), PhD, DSc (hc), Sp: Experimental Petrology, Subduction, Kimberlites, Carbonatites; FRS, Foreign Assoc, NAS (USA), Fellow, Am Acad Arts & Sc, For Fellow, Nat Acad Sc, India, For Mem, Russian Acad Sci, Chinese Acad Sci, Academia Europea, Honorary Member of Mineralogical Soc of Great Britain and Ireland, Mineralogical Soc of Russia; Indian Geophysical Union, German Geological Society; Honorary Fellow of the International Union of Geodesy and Geophysics and Corresponding Fellow of Edinburgh Geological Society, Professor of Geology (Emeritus), *Division of Geological & Planetary Sciences, The California Institute of Technology, Pasadena, CA 91125, USA* [Email wyllie@gps.caltech.edu; Web http://www.gps.caltech.edu/~wyllie].

2010: **YANG, Huanming** (b 1952), PhD, Sp: Genomics; Professor & Chairman, BGI-Shenzhen, Beishan Industrial Zone, Yantian District, Shenzhen 518083, China [Tel (86-0755) 3630-7888 (O); Fax 3630-7273].

2003: **ZEWAIL, Ahmed H** (b 1946), PhD, DSc(hc), LLD (hc), NL, Sp: Chemical Dynamics; *Linus Pauling Professor of Chemical Physics, California Institute of Technology, Pasadena, California, USA; 1200 East California Boulevard, Mail Code 127-72, Pasadena, California 91125, USA* [Tel (626) 395-6536, 395-2345 (O); Fax 792-8456; Email zewail@caltech.edu].
PRAVASI FELLOWS 2016

2015 : CHAKRAVARTI, Aravinda (b 1954), PhD, Sp: Human Molecular Genetics, Genetic Medicine; FASc, Director & Professor of Medicine, Pediatrics, Molecular Biology & Genetics, Centre for Complex Disease Genomics, McKusick-Nathans Institute of Genetic Medicine, Johns Hopkins University School of Medicine, Miller Research Building, Room 579, 733 North Broadway, Baltimore, MD 21205, USA [Tel (+1) (410) 502-7525 (O); Fax 502-7544; Email achakra1@jhmi.edu, aravinda@jhmi.edu].

2015 : KAMAT, Prashant Vasudev (b 1953), PhD, Sp: Physical Chemistry, Nanoscience, Renewable Energy; Fellow, American Association for the Advancement of Science, Faculty, John A Zahm Professor of Science, Department of Chemistry and Biochemistry, 223B Radiation Laboratory, University of Notre Dame, Notre Dame, IN 46556, USA; 17116 Springwood Drive, Granger, IN 46530 [Tel (+1) (574) 631-5411 (O); Fax 631-8068; Email pkamat@nd.edu; Web http://www.nd.edu/~kamatlab].

2016 : PAULRAJ, Arogyaswami Joseph (b 1944), PhD, Sp: Communications Theory, Information Theory and Wireless Systems; Marconi Fellow, FIEEE, FNAE, FNASc, FASc, FTWAS, Member, US National Academy of Engineering, Emeritus Professor, Department of Electrical Engineering, Stanford University, Stanford CA 94305, USA; 821 Tolman Dr, Stanford CA 94305, USA [Tel +1 (650) 387-4553 (O); Email apaulraj@stanford.edu; Web http://www.stanford.edu/~apaulraj/].

2016 : SHARMA, Amit Prakash (b 1968), PhD, Sp: Biochemistry, Biophysics, Structural Parasitology; FNASc, FASc, FTWAS, JC Bose National Fellow, Staff Scientist & Group Leader, International Centre for Genetic Engineering and Biotechnology, Aruna Asaf Ali Marg, New Delhi 110067; C5/10, Vasant Kunj, New Delhi 110070 [Tel (011) 2674-1731 (O), 98-101-11336 (M); Fax 2674-1731; Email amit.icgeb@gmail.com].
FELLOWS ELECTED 2015
(Effective from 01 January 2016)

Anuranjan Anand (b 05.04.1965), PhD, Professor and Chair, Molecular Biology and Genetics Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Bengaluru.

For his discovery of genetic loci behind epilepsy and hearing loss specific genes like EIG8 and HWE3 and has shown the involvement of mutations in non-channel genes in epilepsy.

Tariq Aziz (b 02.04.1953), PhD, Senior Professor (I), Tata Institute of Fundamental Research, Mumbai.

For his contributions to b-tagging at LEP and established neural networks for particle physics analyses.

Vikraman Balaji (b 15.09.1962), PhD, Professor, Chennai Mathematical Institute, Kelambakkam.

For his major contributions to the theory of moduli of vector bundles over curves and algebraic varieties and for extending to higher dimensions the celebrated work of MS Narasimhan and CS Seshadri about the unitary representations of the fundamental groups of algebraic curves and vector bundles over them.

Sanghamitra Bandyopadhyay (b 17.04.1968), PhD, Director, Indian Statistical Institute, Kolkata.

For her contributions to genetic algorithm based clustering with applications to image processing and computational biology.

BV Rajarama Bhat (b 16.01.1966), PhD, Professor & Head, Stat-Math Unit, Indian Statistical Institute, Bengaluru.

For his work relating to the theory of E-0-semigroup to Hilbert C*-modules and for his subsequent work on sum systems that led to significant extensions of Tsirelsen’s probabilistic constructions of such semigroups of type 2 and 3.

Renee Maria Borges (b 25.02.1959), PhD, Professor and Chairperson, Centre for Ecological Sciences, Indian Institute of Science, Bengaluru.

For her novel findings in sensory ecology of nocturnal bees and has significantly contributed to the chemical ecology of figs and fig wasps.

Vani Brahmachari (b 06.06.1955), PhD, Professor, Epigenetics and Developmental Biology Group, Dr BR Ambedkar Center for Biomedical Research, University of Delhi, Delhi.

For her understanding of epigenetic mechanisms of genomic imprinting and for discovering a novel chromatin remodeling gene, INO 80.
Asit Kumar Chakraborti (*b* 15.08.1954), PhD, Professor & Head of Department, Department of Medicinal Chemistry, National Institute of Pharmaceutical Education and Research, Punjab.

For his notable contribution in unraveling the function of ionic liquids in catalysis and green synthetic methodologies.

Niranjan Chakraborty (*b* 24.02.1958), PhD, Staff Scientist-VII, National Institute of Plant Genome Research (NIPGR), New Delhi.

For his work using proteomics approach, on molecular mechanisms underlying plant responses to adverse environmental conditions which led to the identification of differentially regulated organelle-specific proteins for modulating responses of crops for better adaptation to stress.

Charusita Chakravarty (*b* 05.05.1964), PhD, Professor, Department of Chemistry, Indian Institute of Technology Delhi, New Delhi.

For her significant contributions in the area of order-disorder phase transitions and use of energy landscape analysis in phase transition in bulk liquids and finite clusters as well as implementation of quantum effects in path-integral Monte Carlo calculation.

Gautam Kumar Dey (*b* 08.06.1957), PhD, Professor & Dean-Academic (Engg. Sciences), Homi Bhabha National Institute, BARC, Mumbai.

For his monumental work on zirconium based amorphous alloys and engineering materials such as zirconium and nickel based alloys and for employing a variety of novel TEM techniques to unfold complex microstructures.

Suman Kumar Dhar (*b* 06.03.1968), PhD, Professor, Special Centre for Molecular Medicine, Jawaharlal Nehru University, New Delhi.

For his fundamental contributions to DNA replication in two human pathogens, *Plasmodium falciparum* and *Helicobacter pylori* leading to identification of unique replicating helicase of *H. pylori* as a potential drug target and for identifying key molecules in replication of *P. falciparum* and drugs that have shown promise in both *in vitro* and animal models.

Kanak Lata Dikshit (*b* 01.07.1951), PhD, former Chief Scientist, CSIR-Institute of Microbial Technology, Chandigarh.

For her life time contributions in the area of microbial hemoglobin through characterization of HbO in *Mycobacterium tuberculosis* and her applied work on thrombolytic proteins led to the development of a process which has been licensed to industry.

Balasubramanian Gopal (*b* 31.08.1970), PhD, Professor, Molecular Biophysics Unit, Indian Institute of Science, Bengaluru.

For his contributions to understanding of structure-function mechanisms controlling transcription in prokaryotes, using extra-cytoplasmic function sigma factors of *Mycobacterium tuberculosis* as model.
Gagandeep Kang (b 03.11.1962), PhD, Professor and Head, The Wellcome Trust Research Laboratory, Division of Gastrointestinal Sciences, Christian Medical College, Vellore.

For her outstanding investigation in community trial of the Rota virus vaccine and being the key person to generate data, relevant for policy makers, on disease burden, vaccine efficacy and safety.

Pulugurtha Bharadwaja Kirti (b 15.09.1953), PhD, Professor, Department of Plant Sciences, University of Hyderabad, Hyderabad.

For his work on somatic hybridization involving Indian mustard and its wild relatives that resulted in useful male sterile lines, two of which have been utilized for developing commercial mustard hybrids and for his contribution to characterisation of defence related gene in wild species of *Arachis*, which provided novel insights in defence response and has practical relevance.

Kalobaran Maiti (b 21.10.1967), PhD, Professor H, Department of Condensed Matter Physics and Materials Science, Tata Institute of Fundamental Research, Mumbai.

For his outstanding contributions in materials research using state-of-the-art electron spectroscopic instrument and for discovering new routes to study correlated electron systems which has unraveled many long-standing issues in materials science.

Sangita Mukhopadhyay (b 01.01.1966), PhD, Staff Scientist VI, Centre for DNA Fingerprinting and Diagnostics, Hyderabad.

For her pioneering contributions to mechanistic understanding of hijacking of host signaling pathways by *M. tuberculosis* proteins for its own benefit.

Amlan Jyoti Pal (b 26.05.1960), PhD, Senior Professor, Department of Solid State Physics, Indian Association for the Cultivation of Science, Kolkata.

For his research on low dimensional structures—both ‘soft’ organic materials, as well as inorganic structures that has shown how these molecules can be organized by supramolecular engineering and how these molecular arrangements may be exploited for applications ranging from solar photovoltaics to organic transistors and memory devices.

Amit Kumar Patra (b 20.04.1966), PhD, Scientist-SG, National Atmospheric Research Laboratory, Tirupati.

For his outstanding contributions towards the influence of the coupled processes between the E and F regions on the development of plasma irregularities in the low latitude ionospheric E region and for observing new class of 150-km echoes due to small scale structures in the low latitude ionosphere and for proposing an interchange instability process involving a descending metallic ion layer as a generation mechanism.

Thalappil Pradeep (b 08.07.1963), PhD, Institute Professor, Department of Chemistry, Indian Institute of Technology Madras, Chennai.

For his significant contributions in the area of material chemistry, specially in the area of metal nanoparticles and the novel applications of these for catalysis, water purification and other areas.
Trivandrum Ramakrishnan Ramadas (b 30.03.1955), PhD, Distinguished Professor, Chennai Mathematical Institute, Kelambakkam.

For his path-breaking contributions to mathematical physics, algebraic geometry and their varied intersections and for some of his influential works in the areas of Chern-Simons gauge theory, Jones polynomials, moduli of vector bundles and Frobenius splitting.

Vivek Vinayak Ranade (b 15.10.1963), PhD, Deputy Director and Chair, Chemical Engineering & Process Development Division, CSIR-National Chemical Laboratory, Pune.

For his contribution to studies of multiphase flows in a variety of reactors.

Chebrolu Pulla Rao (b 13.05.1954), PhD, Institute Chair Professor, Department of Chemistry, Indian Institute of Technology Bombay, Mumbai.

For his significant contribution in bio-inorganic mimetics using carbohydrate and calixarene based ligands.

Khareedu Venkateswara Rao (b 10.02.1958), PhD, Professor, Centre for Plant Molecular Biology, Osmania University, Hyderabad.

For his outstanding research on the development of transgenic crops resistant to pests and pathogens and for isolating stress-inducible genes from pigeon pea which would be useful for protecting crop plants against abiotic stress.

Rajendra Prasad Roy (b 26.01.1962), PhD, Staff Scientist VII, National Institute of Immunology, New Delhi.

For his innovative contributions in the area of chemical biology & biochemistry to develop novel chemo-enzymatic strategies for applications in protein engineering, elucidating the mechanistic details of sortase-catalyzed reactions and for revealing that macromolecular crowding can act as a driving force for reverse proteolysis.

Arvind Kesarilalji Sahu (b 19.06.1963), PhD, Scientist G, National Centre for Cell Science, Pune.

For his seminal contributions to the understanding of how virally encoded complement regulator-like proteins protect viruses against the host’s complement attack and for mapping the functional determinants and species specificity in viral complement regulators.

Chitra Sarkar (b 11.09.1955), MBBS, MD, FRC (Path), Professor, Department of Pathology, All India Institute of Medical Sciences, New Delhi.

For her outstanding work on the pathobiology of brain tumors, particularly gliomas and has identified unique molecular alterations in pediatric glioma and oligodendroglioma.

Srikanth Sastry (b 01.05.1964), PhD, Professor, Theoretical Sciences Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Bengaluru.

For his seminal contributions to the study of glass-forming liquids, glasses, and other structurally arrested states and to the phase behavior of liquid water and silicon.
Surinder Mohan Sharma (*b* 15.04.1952), PhD, DAE Distinguished Scientist & Director, Physics Group & Head, High Pressure & Synchrotron Radiation Physics Division, Purnima Laboratories, Bhabha Atomic Research Centre, Mumbai.

For his sustained work on studying materials under extreme environments that has established some unique phase transitions, particularly high pressure amorphization and for developing three synchrotron beam lines, namely X-ray diffraction under extreme conditions, protein crystallography and IR absorption.

Dinesh Kumar Srivastava (*b* 20.06.1952), PhD, Distinguished Scientist & Director, Variable Energy Cyclotron Centre, Kolkata.

For his pioneering work on the electromagnetic signatures of the formation of quark-gluon plasma in relativistic collisions of nuclei and for the formation of quark-gluon plasma, evaluation of its temperature and the understanding of its spectra.

Kumarasamy Thangaraj (*b* 02.06.1963), PhD, Senior Principal Scientist, CSIR-Centre for Cellular and Molecular Biology, Hyderabad.

For his major contributions to origin of Indian populations that can be classified into two divergent groups and for discovering association of *MyBp3* mutation to cardiac myopathy and the association of *RAF1* mutation with childhood cardiomyopathy among South Asians.

Gaddemane Dyavappa Veerappa Gowda (*b* 20.07.1955), PhD, Professor, TIFR-Centre for Applicable Mathematics, Bengaluru.

For his fundamental work in the areas of hyperbolic conservation laws, control theory and numerical approximation of conservation laws and for obtaining an explicit formula for the entropy weak solution of convex conservation laws with boundary conditions, extending the earlier work of Hopf and Lax for the initial value problem.

Sandeep Verma (*b* 24.06.1966), PhD, Head, Department of Chemistry, Indian Institute of Technology Kanpur, Kanpur.

For his significant contributions in conceptualizing new approaches to bio-mimetic soft materials and synthetic models of protein aggregation.
FOREIGN FELLOWS ELECTED 2015  
(Effective from 01 January 2016)

Jonathan R Ellis (b. 1946), Scientist, Clerk Maxwell Professor of Theoretical Physics, Physics Department, King’s College, Strand, London WC2R 2LS, UK.

For his contributions in the research fields of particle physics, astrophysics, cosmology and quantum gravity. His novel ideas helped in the discovery of the gluon. He pioneered phenomenological studies of supersymmetry and dark matter, string models, quantum gravity and the Higgs boson, and helped to set up the CERN India Cooperation Programme with DST.

Mriganka Sur (b. 1953), Newton Professor of Neuroscience and Director, Simons Center for the Social Brain, Department of Brain and Cognitive Sciences, Massachusetts Institute of Technology, Cambridge, USA.

For his work on plasticity dynamics of the cerebral cortex, experimental and computational approaches to neural networks and processing, cognitive neuroscience and developmental disorders of the brains. His demonstration of the visual and auditory system complementarily is a path breaking event in neuroscience.

Ronald Vale (b. 1959), Professor and Chair, Department of Cellular and Molecular Biology Investigator, Howard Hughes Medical Institute (HHMI), The University of California, San Francisco, USA.

For his pioneer discovery of motor proteins and understanding of their structure and function using single molecule biophysics. He is deeply committed to developing high quality resources for science education and has pioneered iBioseminars, a source for online lectures in biology by eminent scientists from all over the world and “microscopy4kids”, a project to supply microscope with digital camera costing below US $100 for school education.
PRAVASI FELLOWS ELECTED 2015
(Effective from 01 January 2016)

Arogyaswami Joseph Paulraj (b. 1944), Professor, Department of Electrical Engineering, Stanford University, Stanford, USA.

For his contributions in wireless communications, in particular the development of MIMO technology, a practical technique for simultaneously sending and receiving several data signals on the same radio channel. This has revolutionized high speed wireless services, and is at the core of the current high speed WiFi and 4G mobile phones.

Amit Prakash Sharma (b. 1968), Staff Scientist & Group Leader, International Centre for Genetic Engineering and Biotechnology, New Delhi.

For his contributions in understanding the structural principles that define molecular functions of malarial parasite’s proteins. His work on exploring novel targets for structure based drug design against malaria is commendable.
FELLOWSHIP-SECTIONAL COMMITTEEWISE

SECTIONAL COMMITTEE-I


Total Fellows: 77

<table>
<thead>
<tr>
<th>Name</th>
<th>Specialization</th>
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<tbody>
<tr>
<td>Adimurthi A</td>
<td>Partial Differential Equations</td>
</tr>
<tr>
<td>Agrawal M</td>
<td>Theory of Computation</td>
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<tr>
<td>Balaji V*</td>
<td>Mathematics</td>
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<tr>
<td>Balasubramanian R</td>
<td>Theory of Numbers</td>
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<tr>
<td>Bambah RP</td>
<td>Number Theory and Discrete Geometry</td>
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<tr>
<td>Bapat RB</td>
<td>Combinatorial Matrix Theory, Generalised Inverses</td>
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<td>Bhat BVR*</td>
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<tr>
<td>Bhatia R</td>
<td>Mathematics: Matrix Analysis, Functional Analysis, Harmonic Analysis</td>
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<td>Bhutani OP</td>
<td>Applied Mathematics, Symmetries and Differential Equations</td>
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<td>Biswas I</td>
<td>Algebraic Geometry</td>
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<tr>
<td>Bose Arup</td>
<td>Statistics and Probability</td>
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<tr>
<td>Bujurke NM</td>
<td>Applied Mathematics, Fluid Mechanics, Computational Techniques, Physiological Fluid Flows, Wavelets</td>
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<tr>
<td>Chandrasekharan K</td>
<td>Analysis and Theory of Numbers</td>
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<td>Chaudhuri P</td>
<td>Statistics</td>
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<td>Chawla MM</td>
<td>Financial Mathematics, Computational PDEs, ODEs, Parallel Algorithms in Linear Algebra</td>
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<td>Dani SG</td>
<td>Ergodic Theory, Lie Groups, Probability Measures on Groups, History of Mathematics</td>
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<td>Dey Alobe</td>
<td>Statistics</td>
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<td>Ghosh JK</td>
<td>Mathematical Statistics &amp; Application</td>
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<td>Gurjar RV</td>
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<td>Hans-Gill RJ</td>
<td>Geometry of Numbers, Number Theory, Discrete Geometry</td>
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<td>Jain MK</td>
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<td>Jain PC</td>
<td>Numerical Mathematics, Computational Algorithms</td>
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<tr>
<td>Joseph KT</td>
<td>Hyperbolic Conservation Laws and Parabolic PDES, Boundary Layers and Delta Shocks</td>
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\*w.e.f. 01.01.2016
<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Kallianpur G</td>
<td>Probability and Stochastic Processes</td>
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<tr>
<td>Kannan V</td>
<td>Mathematical Analysis and Topology</td>
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<td>Karandikar RL</td>
<td>Probability and Statistics</td>
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<tr>
<td>Khanduja SK</td>
<td>Algebra, Algebraic Number Theory</td>
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<tr>
<td>Misra G</td>
<td>Operator Theory</td>
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<tr>
<td>Mukerjee R</td>
<td>Statistics (Design of Experiments, Asymptotic Theory, Survey Sampling)</td>
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<tr>
<td>Mukunda N</td>
<td>Mechanics, Optics, Mathematical Physics</td>
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<tr>
<td>Nadkarni MG</td>
<td>Harmonic Analysis and Ergodic Theory</td>
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<tr>
<td>Narasimhan MS</td>
<td>Analysis, Differential Geometry, Algebraic Geometry</td>
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<td>Paranjape K</td>
<td>Geometry</td>
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<td>Parimala R</td>
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<td>Parthasarathy KR</td>
<td>Probability Theory &amp; Quantum Information Theory</td>
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<td>Parthasarathy R</td>
<td>Representations of Lie Groups</td>
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<td>Parthasarathy T</td>
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<td>Prasad Dipendra</td>
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<td>Lie &amp; Algebraic Group</td>
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<td>Prasad P</td>
<td>Theory of Wave Propagation, Partial Differential Equations &amp; Fluid Dynamics</td>
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<tr>
<td>Radhakrishnan J</td>
<td>Theoretical Computer Science, Complexity Theory, Discrete Mathematics</td>
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<td>Raghavan S</td>
<td>Number Theory, Automorphic Functions</td>
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<td>Raghunathan MS</td>
<td>Lie Groups, Algebraic Groups, Discontinuous Groups</td>
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<td>Rajan CS</td>
<td>Arithmetic Geometry, Automorphic forms, Representation theory</td>
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<tr>
<td>Ramachandra K</td>
<td>Classical Analytic Theory of Numbers</td>
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<td>Ramachandran B</td>
<td>Analytical Probability Theory</td>
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<tr>
<td>Ramadas TR</td>
<td>Algebraic and Differential Geometry, Mathematical Physics</td>
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<td>Ramanan S</td>
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<td>Rao CR</td>
<td>Statistics, Matrix Algebra</td>
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<td>Rao Ravi A</td>
<td>Classical K-theory</td>
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<tr>
<td>Rudraiah N</td>
<td>Applied Mathematics, Fluid Mechanics</td>
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<td>Seshadri CS</td>
<td>Algebraic Geometry, Algebraic Groups</td>
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<tr>
<td>Sharan Maithili</td>
<td>Applied Mathematics: Atmospheric Science</td>
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<tr>
<td>Sharma VD</td>
<td>Quasilinear Systems of Hyperbolic Partial Differential Equations and Nonlinear Wave Phenomena</td>
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### Fellowship-Sectional Committeewise

<table>
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<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Shorey TN</td>
<td>Number Theory</td>
</tr>
<tr>
<td>Shrikhande SS</td>
<td>Combinatorics and Graph Theory</td>
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<tr>
<td>Singh AI</td>
<td>Functional Analysis, Harmonic Analysis, Quantum Information Theory</td>
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<tr>
<td>Singh Balwant</td>
<td>Algebraic Geometry, Commutative Algebra</td>
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<tr>
<td>Singh MP</td>
<td>Applied Mathematics, Air Pollution Modelling, Bio-fluid Dynamics</td>
</tr>
<tr>
<td>Singh SJ</td>
<td>Theoretical Seismology, Applied Mathematics</td>
</tr>
<tr>
<td>Singhi NKM</td>
<td>Discrete Mathematics &amp; Computer Science</td>
</tr>
<tr>
<td>Sinha KB</td>
<td>Spectral Theory &amp; Non-commutative Geometry &amp; Stochastic Processes</td>
</tr>
<tr>
<td>Sridharan R</td>
<td>Algebra</td>
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<tr>
<td>Srinivas V</td>
<td>Algebra/ Algebraic Geometry</td>
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<tr>
<td>Sujatha R</td>
<td>Algebra, Geometry, Number Theory</td>
</tr>
<tr>
<td>Sunder VS</td>
<td>Subfactors, Operator Algebras, Functional Analysis</td>
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<tr>
<td>Suresh V</td>
<td>Algebra and Algebraic Geometry</td>
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<tr>
<td>Thangavelu S</td>
<td>Harmonic Analysis</td>
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<tr>
<td>Veerappa Gowda GD*</td>
<td>Partial Differential Equations in Particular, Conservation Laws and Hamilton-Jacobi Equations, Theory and Numerics</td>
</tr>
<tr>
<td>Venkatachalappa M</td>
<td>Applied Mathematics: Fluid Mechanics, Magnetohydrodynamics</td>
</tr>
<tr>
<td>Venkataramana TN</td>
<td>Algebraic Groups, Automorphic Forms</td>
</tr>
<tr>
<td>Verma JK</td>
<td>Mathematics (Algebra)</td>
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</tbody>
</table>

### SECTIONAL COMMITTEE-II

**Physics:** Astronomy, Astrophysics, Condensed Matter Physics, Nuclear and High Energy Physics, Atomic, Molecular and Optical Physics, Statistical Physics, Space Physics

Total Fellows: 136

<table>
<thead>
<tr>
<th>Name</th>
<th>Specialization</th>
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<tbody>
<tr>
<td>Agarwal GS</td>
<td>Quantum Optics, Laser Physics, Statistical Mechanics, Plasmonics</td>
</tr>
<tr>
<td>Agrawal BK</td>
<td>Condensed Matter Physics, Nanostructures and Superconductivity</td>
</tr>
<tr>
<td>Ananthakrishnan S</td>
<td>Radio Astronomy</td>
</tr>
<tr>
<td>Antia HM</td>
<td>Solar Physics and Numerical Techniques</td>
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<tr>
<td>Apparao KMV</td>
<td>Astronomy, Astrophysics, Space Physics</td>
</tr>
<tr>
<td>Ayyub P</td>
<td>Condensed Matter Physics (Nanostructured Materials)</td>
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<tr>
<td>Aziz T*</td>
<td>Experimental High Energy Physics</td>
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<tr>
<td>Banerjee Sunanda</td>
<td>Experimental High Energy Physics</td>
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<tr>
<td>Name</td>
<td>Research Interests</td>
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</tr>
<tr>
<td>Barma M</td>
<td>Statistical Physics &amp; Condensed Matter Physics</td>
</tr>
<tr>
<td>Baskaran G</td>
<td>Condensed Matter Physics, Statistical Mechanics and Theoretical Biology</td>
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<tr>
<td>Bhat SV</td>
<td>Physics of Materials</td>
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<tr>
<td>Bhatnagar AK</td>
<td>Experimental Solid State &amp; Materials Science, Superconductivity, Magnetism, Thin Films, Glassy Materials, Nanomaterials</td>
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<tr>
<td>Bhattacharjee SM</td>
<td>Theoretical Condensed Matter Physics</td>
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<tr>
<td>Bhattacharyya G</td>
<td>High Energy Physics (Theory)</td>
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<tr>
<td>Bhawalkar DD</td>
<td>Lasers and their Applications</td>
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<tr>
<td>Budhani RC</td>
<td>Physics, Physics of Materials (Experimental-Superconductivity, magnetism and transport in thin films, multilayers and superlattices)</td>
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<td>Buti B</td>
<td>Plasma Physics</td>
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<td>Chidambaram R</td>
<td>Materials Science and Crystallography, High Pressure Physics and Nuclear Technology</td>
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<td>Chitre SM</td>
<td>Theoretical Astrophysics</td>
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<td>Chopra KL</td>
<td>Solid State Physics, Science and Technology of Thin Films and Nanomatter</td>
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<td>Choudhuri AR</td>
<td>Theoretical Astrophysics, Solar Physics, Magnetohydrodynamics</td>
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<td>Statistical Physics, Biological Physics</td>
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<td>Cowsik R</td>
<td>Astrophysics, Elementary Particles Cosmology, Gravitation</td>
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<td>Dasannacharya BA</td>
<td>Condensed Matter Physics, Neutron &amp; X-ray Scattering</td>
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<td>Dasgupta C</td>
<td>Theoretical Condensed Matter Physics and Statistical Mechanics</td>
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<tr>
<td>Datta A</td>
<td>Particle Physics</td>
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<td>Dattagupta S</td>
<td>Structure and Dynamics of Condensed Matter</td>
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<td>Dhar Deepak</td>
<td>Statistical Physics</td>
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<td>Dighe A</td>
<td>High Energy Physics</td>
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<td>Gavai RV</td>
<td>Theoretical High Energy Physics, Quantum Field Theory on Lattice, Quark-Gluon Plasma, Heavy-Ion Collisions and Phase Transitions in Early Universe</td>
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<td>Ghosh BG</td>
<td>Condensed Matter Physics</td>
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<td>Godbole Rohini M</td>
<td>Theoretical High Energy Physics</td>
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<td>Gopakumar R</td>
<td>Theoretical Physics</td>
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<tr>
<td>Gupta LC</td>
<td>Superconductivity, Borocarbides, Valence Fluctuations, Magnetism</td>
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<tr>
<td>Gupta S</td>
<td>Theoretical High Energy Physics, Statistical Mechanics in Quantum Field Theory, Quantum Chromodynamics and Strong Interactions</td>
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<td>Gupta SN</td>
<td>High Energy Physics</td>
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<tr>
<td>Hariharan P</td>
<td>Optics</td>
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<td>Jayannavar AM</td>
<td>Condensed Matter Physics (Theory)</td>
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<td>Jha SS</td>
<td>Solid State Physics and Optoelectronics</td>
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<td>Jog CJ</td>
<td>Astrophysics of Galaxies</td>
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<td>Joshi PS</td>
<td>Gravitation Theory and Cosmology</td>
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<td>Kailas S</td>
<td>Accelerator Based Nuclear Physics and Applications</td>
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<td>Kapoor SS</td>
<td>Nuclear Physics, Particle Detectors, Particle Accelerators &amp; Applications</td>
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<td>Kaul RK</td>
<td>Quantum Field Theory &amp; High Energy Physics</td>
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<td>Kaul SN</td>
<td>Condensed Matter Physics, Materials Science</td>
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<td>Kaw PK</td>
<td>Nonlinear Plasma Theory</td>
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<td>Khare A</td>
<td>Plasma Physics, Statistical Mechanics, Critical Phenomenon</td>
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<td>Neutron Physics</td>
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<td>Krishan Lal</td>
<td>Physics of Materials</td>
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<tr>
<td>Krishna G</td>
<td>Radio Astronomy (Radio Galaxies and Quasars)</td>
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<tr>
<td>Krishna P</td>
<td>Crystallography, Crystal Growth, Science and Society, Education</td>
</tr>
<tr>
<td>Krishnamurthy HR</td>
<td>Theoretical Condensed Matter Physics, especially Quantum Many-Body Theory &amp; Statistical Physics</td>
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<tr>
<td>Kulkarni SK</td>
<td>Nanotechnology, Materials Science, Surface Science</td>
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<tr>
<td>Kumar N</td>
<td>Disordered Systems, Localization, Superconductivity</td>
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<td>Kundu A</td>
<td>Theoretical &amp; Mathematical Physics: Nonlinear Classical and Quantum Integrable Systems</td>
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<td>Lakshmanan M</td>
<td>Nonlinear Dynamics &amp; Theoretical Physics</td>
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<td>Lawande SV</td>
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<td>Madhusudana NV</td>
<td>Liquid Crystals</td>
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<tr>
<td>Maharana J</td>
<td>String Theory and Quantum Gravity</td>
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<td>Maiti K*</td>
<td>Condensed Matter Physics</td>
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<tr>
<td>Malik SK</td>
<td>Magnetism, Valence Fluctuation &amp; Superconductivity</td>
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<td>Mathews PM</td>
<td>Geodynamics, Relativistic fields, Stochastic Processes</td>
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<td>Mathur D</td>
<td>Atomic and Molecular Physics, Biological Physics</td>
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<td>Menon MGK</td>
<td>Physics</td>
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<td>Mitra AN</td>
<td>Quarks, Particles, Nuclei &amp; Fields</td>
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<td>Mitra P</td>
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<td>Experimental Particle Physics, Accelerator Based and Non-Accelerator Based</td>
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<td>Nagarajan R</td>
<td>Superconductivity, Valence Fluctuation, Mossabauer Spectroscopy, Instrumentation</td>
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<td>Spatiotemporal Chaos, Mathematical Models for Cardiac Tissue and Turbulence</td>
</tr>
<tr>
<td>Pandita PN</td>
<td>Theoretical High Energy Physics</td>
</tr>
<tr>
<td>Pandya SP</td>
<td>Nuclear Physics</td>
</tr>
<tr>
<td>Pathak KN</td>
<td>Condensed Matter Physics/ Solid State Physics</td>
</tr>
<tr>
<td>Prakash S</td>
<td>Plasma Physics, Upper Atmospheric Physics and Space Borne Payload</td>
</tr>
<tr>
<td>Puri S</td>
<td>Physical Sciences</td>
</tr>
<tr>
<td>Raja Gopal ES</td>
<td>Low Temperature &amp; Solid State Physics</td>
</tr>
<tr>
<td>Rajaraman R</td>
<td>Theoretical Physics, Nuclear Policies</td>
</tr>
<tr>
<td>Rajasekaran G</td>
<td>High Energy Physics &amp; Quantum Field Theory</td>
</tr>
<tr>
<td>Ramakrishnan TV</td>
<td>Theoretical Condensed Matter Physics and Statistical Mechanics</td>
</tr>
<tr>
<td>Ramamurthy VS</td>
<td>Nuclear Physics, Ion Beam Applications &amp; Science and Technology Policy</td>
</tr>
<tr>
<td>Ramanamurthy PV</td>
<td>High Energy Astrophysics &amp; Cosmic Rays</td>
</tr>
<tr>
<td>Ramaswamy SR</td>
<td>Condensed Matter, Statistical &amp; Biological Physics</td>
</tr>
<tr>
<td>Rao UR</td>
<td>Space Technology &amp; Space Applications</td>
</tr>
<tr>
<td>Ravindra Kumar G</td>
<td>Non linear Optics, Study of matter in intense Laser fields</td>
</tr>
<tr>
<td>Raychaudhuri A</td>
<td>Particle Physics including Astroparticle Physics</td>
</tr>
<tr>
<td>Raychaudhuri AK</td>
<td>Physics, Low Temperature Physics, Physics of Nanomaterials, Scanning Probe</td>
</tr>
<tr>
<td></td>
<td>Microscopy</td>
</tr>
<tr>
<td>Rindani SD</td>
<td>Particle Physics</td>
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<tr>
<td>Name</td>
<td>Specialization</td>
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<td>-------------------------------------------------------------------------------</td>
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<tr>
<td>Roy DP</td>
<td>Theoretical High Energy Physics</td>
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<tr>
<td>Roy P</td>
<td>Astroparticle Physics &amp; Particle Physics: Field Theory &amp; Phenomenology</td>
</tr>
<tr>
<td>Roy SM</td>
<td>Foundations of Quantum Theory &amp; Particle Physics</td>
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<tr>
<td>Sahni V</td>
<td>Theoretical Physics</td>
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<tr>
<td>Sampathkumaran EV</td>
<td>Magnetism &amp; Superconductivity</td>
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<tr>
<td>Sanyal MK</td>
<td>Condensed Matter Physics, Surface Physics &amp; Synchrotron X-ray Scattering</td>
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<tr>
<td>Sarkar U</td>
<td>Theoretical Particle Physics</td>
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<tr>
<td>Sastry S*</td>
<td>Statistical Mechanics, Soft Condensed Matter Physics, Chemical Physics</td>
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<td>Sen Ashoke</td>
<td>High Energy Physics</td>
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<tr>
<td>Sen D</td>
<td>Theoretical Condensed Matter Physics, Quantum Field Theory</td>
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<tr>
<td>Shastry BS</td>
<td>Condensed Matter Theory &amp; Statistical Mechanics</td>
</tr>
<tr>
<td>Sikka SK</td>
<td>High Pressure, Shockwaves, Neutron Diffraction &amp; Energy Bands</td>
</tr>
<tr>
<td>Simon R</td>
<td>Classical and Quantum Optics, Foundations of Quantum Mechanics, Quantum Information Theory</td>
</tr>
<tr>
<td>Singh V</td>
<td>Theoretical Physics, High Energy Physics, Foundation of Quantum Mechanics, History and Philosophy of Science</td>
</tr>
<tr>
<td>Singh Yashwant</td>
<td>Condensed Matter Theory, Theoretical Biology</td>
</tr>
<tr>
<td>Sinha BC</td>
<td>Nuclear Physics, High Energy Physics, Quark Gluon Plasma, Early Universe Cosmology</td>
</tr>
<tr>
<td>Sinha KP</td>
<td>Theoretical research on various Phenomena and Condensed Matter, Nuclear Science</td>
</tr>
<tr>
<td>Sinha S</td>
<td>Nonlinear Dynamics, Chaos and Complex Systems</td>
</tr>
<tr>
<td>Sodha MS</td>
<td>Plasmas, Optics &amp; Energy</td>
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<tr>
<td>Sood AK</td>
<td>Condensed Matter Physics</td>
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<tr>
<td>Sreekantan BV</td>
<td>Cosmic Rays, High Energy Astrophysics</td>
</tr>
<tr>
<td>Srivastava CM</td>
<td>Ferromagnetic Relaxation &amp; Superconductivity</td>
</tr>
<tr>
<td>Srivastava DK*</td>
<td>Theoretical Nuclear Physics</td>
</tr>
<tr>
<td>Srivastava ON</td>
<td>Physics of Materials, Hydrogen Energy, Nano Science &amp; Technology</td>
</tr>
<tr>
<td>Sudarshan ECG</td>
<td>Particles, Quantized Fields, Dynamics Foundations</td>
</tr>
<tr>
<td>Suresh KA</td>
<td>Soft Condensed Matter (Physics of Liquid Crystals and Surface Science)</td>
</tr>
<tr>
<td>Swarup G</td>
<td>Radio Astronomy</td>
</tr>
<tr>
<td>Trivedi SP</td>
<td>String Theory and Particle Physics</td>
</tr>
</tbody>
</table>
Udgaonkar BM  Theoretical Physics  
Varma RK  Plasma Physics, Classical & Quantum Mechanics  
Venkataraman G  Condensed Matter Physics  
Vijayaraghavan R  Solid State Physics  
Viyogi YP  Physics  
Wadia SR  String Theory, High Energy Physics, Quantum Gravity  
Waghmare UV  Theory, Modeling and Simulations of Materials

SECTONAL COMMITTEE-III

Chemical Sciences: Analytical, Inorganic, Organic, Physical and Theoretical Chemistry

Total Fellows: 127

Name Specialization

Agarwala UC  Inorganic Chemistry
Ahluwalia JC  Physical Chemistry, Thermodynamics and Biopolymers
Ajayaghosh A  Organic (Materials) Chemistry
Anand Nitya  Medicinal Chemistry
Bagchi B  Physical Chemistry of Condensed Matter, Molecular Relaxation in Liquids, Dynamics of Complex Systems, Biophysics
Balasubramanian KK  Organic Chemistry
Basak A  Organic Chemistry
Basavaiah D  Organic Chemistry, Baylis-Hillman Chemistry and Chiral Catalysis
Bhaduri S  Inorganic and Organometallic Chemistry and Homogeneous Catalysis
Bhakuni DS  Natural Products, Bio-Organic and Medicinal Chemistry
Bhardwaj PK  Inorganic Chemistry
Bhatt MV  Physical Organic, Organic Chemistry
Bhattacharya S  Chemistry
Bhattacharyya K  Physical Chemistry, Ultrafast Laser Spectroscopy, Confocal Microscopy
Chadha MS  Organic and Bio-Organic Chemistry
Chakraborti AK*  Organic Chemistry
Chakraborty TK  Organic Synthesis, Peptides, Peptidomimetics
Chakravarty AR  Bioinorganic and Medicinal Inorganic Chemistry
Chakravarty C*  Chemical Sciences
Chakravorty A  Inorganic & Structural Chemistry, History of Chemistry
Chandra A  Theoretical Physical Chemistry
Chandrakumar N  Magnetic Resonance Spectroscopy & Imaging, Chemical Physics,
<table>
<thead>
<tr>
<th>Name</th>
<th>Research Areas</th>
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<tbody>
<tr>
<td>Chandrasekaran S</td>
<td>Physical Chemistry, Instrumentation</td>
</tr>
<tr>
<td>Chandrasekhar J</td>
<td>Organic Synthesis, Organometallic Chemistry, Catalysis</td>
</tr>
<tr>
<td>Chandrasekhar S</td>
<td>Computational Chemistry, Theoretical Organic Chemistry</td>
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<tr>
<td>Chandrasekhar V</td>
<td>Organic Chemistry (Chemical Sciences)</td>
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<tr>
<td>Chandrashekar TK</td>
<td>Inorganic Chemistry of Biomolecules</td>
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<tr>
<td>Chattaraj PK</td>
<td>Theoretical Chemistry, Nonlinear Dynamics</td>
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<tr>
<td>Chatteraj DK</td>
<td>Surface Chemistry, Biophysical Chemistry</td>
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<tr>
<td>Chaudhuri MK</td>
<td>Inorganic Chemistry</td>
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<tr>
<td>Choudary BM</td>
<td>Catalysts and Nano-materials to Nano-Medicines</td>
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<tr>
<td>Chowdhury M</td>
<td>Physical Chemistry</td>
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<tr>
<td>Deb BM</td>
<td>Theoretical Chemistry, Chemical Physics</td>
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<tr>
<td>Desiraju GR</td>
<td>Structural Chemistry</td>
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<tr>
<td>Dogra SK</td>
<td>Physical Chemistry and Photo Chemistry</td>
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<tr>
<td>Gadre SR</td>
<td>Theoretical and Computational Quantum Chemistry</td>
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<tr>
<td>Gandhi RP</td>
<td>Organic Chemistry</td>
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<tr>
<td>Ganesh KN</td>
<td>Bio-organic Chemistry</td>
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<tr>
<td>George MV</td>
<td>Organic Reactions &amp; Photochemistry, Laser Chemistry</td>
</tr>
<tr>
<td>George Thomas K</td>
<td>Physical Chemistry, Photochemistry, Photophysics and Material Science</td>
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<tr>
<td>Ghosh S</td>
<td>Synthetic Organic Chemistry</td>
</tr>
<tr>
<td>Ghosh SK</td>
<td>Theoretical Chemistry, Computational Materials Science, Soft Condensed Matter Physics</td>
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<tr>
<td>Gopalakrishnan J</td>
<td>Solid State Inorganic Chemistry</td>
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<tr>
<td>Gopinathan MS</td>
<td>Quantum Chemistry and Non-linear Dynamics</td>
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<tr>
<td>Goswami S</td>
<td>Inorganic Chemistry, Coordination Chemistry of Organic pi-Radical Ligands, Proton Reduction, Chemistry of Functional Materials</td>
</tr>
<tr>
<td>Guru Row TN</td>
<td>X-Ray Crystallography, Structural Chemistry</td>
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<tr>
<td>Hosur RV</td>
<td>Biophysical Chemistry, NMR, Structural Biology</td>
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<td>Ila H</td>
<td>Synthetic and Medicinal Chemistry</td>
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<td>Iqbal Javed</td>
<td>Organic and Organometallic Chemistry</td>
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<td>Jain AC</td>
<td>Organic &amp; Bio-organic Chemistry</td>
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<td>Jain DVS</td>
<td>Physical &amp; Theoretical Chemistry</td>
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<td>Jemmis ED</td>
<td>Theoretical and Computational Chemistry</td>
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<tr>
<td>Joshi BS</td>
<td>Organic Chemistry, Chemistry of Natural Products</td>
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<tr>
<td>Junjappa H</td>
<td>Synthetic and Mechanistic Organic Chemistry</td>
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</tbody>
</table>
Kartha VB Analytical Spectroscopy, Atomic & Molecular Physics, Laser Biomedical Applications
Kasturi TR Synthetic & Mechanistic Organic Chemistry
Katiyar SS Enzymology, Biotechnology and Chemistry
Kessar SV Synthetic Organic Chemistry
Khan MMT Inorganic Chemistry, Homogeneous Catalysis
Khetrapal CL Chemical Physics, Spectroscopy & NMR
Krishnamurthy SS Inorganic and Organometallic Chemistry
Krishnan V Inorganic & Bioinorganic Chemistry
Kumar A Physical Chemistry, Thermodynamics, Physical-Organic Chemistry
Kumar P Synthetic Organic Chemistry
Kumara Swamy KC Chemistry Inorganic/Organic
Lakshmikantam M Catalysis, Materials and Process Chemistry
Maitra Uday Organic Chemistry: Supramolecular Chemistry, Chemistry of Bile Acids, Organo and Hydrogels
Manoharan PT Physical Inorganic Chemistry, Nanoscience & Spectroscopy
Mehta G Organic Chemistry
Mitra S Bioinorganic Chemistry, Biological Chemistry
Mittal JP Radiation and Photochemistry, Chemical Dynamics & Laser Chemistry
Moulik SP Surface and Biophysical Chemistry
Mukherjee D Theoretical Chemistry, Theoretical Spectroscopy
Mukherjee RN Inorganic Chemistry, Bio-Inorganic Chemistry
Murugavel R Inorganic Chemistry
Nag K Inorganic Chemistry
Nagarajan K Natural Products Chemistry, Medicinal & Pesticide Chemistry
Nangia A Organic Chemistry, Crystal Engineering
Narasimhan NS Organometallics & Organic Synthesis
Natarajan P Inorganic Photochemistry & Laser Flash Photolysis
Natarajan S Inorganic Materials Chemistry
Nigam HL Inorganic Chemistry, Electrochemistry & Spectroscopy
Pakrashi SC Natural Products & Herbal Drugs
Pal Sourav Theoretical Chemistry, Electronic Structure Theory, Ab initio Quantum Chemistry
Palaniandavar M Bioinorganic Chemistry of DNA, Copper and Iron: Activation of Molecular Oxygen, Functional Models for Metalloproteins, Interaction of Metal Complexes with DNA and Proteins, Metal-based Anticancer Drugs
Palit DK Radiation and Photochemistry, Ultrafast Spectroscopy and Chemical Reaction Dynamics
Fellowship-Sectional Committeewise

Pandey GP Organic Chemistry
Periasamy M Organic Chemistry, Organometallic and Chiral Reagents Chemistry
Periasamy N Physical Chemistry
Pradeep T* Molecular and Nanoscale Materials, Nanoscience and Nanotechnology, Molecular Surfaces, Low Energy Ion Scattering, Instrumentation, Water Purification
Radhakrishnan TP Materials Chemistry
Rajappa S Organic Chemistry
Ramaiah NA Physical Chemistry & Sugar Chemistry
Ramarao AV Organic Chemistry, Medicinal Chemistry, Drug Technology, Chiral Synthesis & Technology, Natural Products
Ramasami T Inorganic & Leather Chemistry
Ramasesha SS Theoretical Chemistry
Ranganathan S Organic Chemistry & Molecular Biology
Ranu BC Organic Synthesis, Green Chemistry
Rao CNR Solid State Chemistry & Spectroscopy, Molecular Structures
Rao CP* Inorganic Chemistry
Rao KJ Physical Chemistry
Rastogi RP Theoretical and Experimental Non-equilibrium Physical Chemistry, Rocket Propellant Chemistry
Ray DS Theoretical Chemistry
Reddy GKN Coordination Chemistry, Organometallics & Catalysis
Samanta A Physical Chemistry (Photochemistry, Time-resolved Spectroscopy)
Sandhu JS Organic Chemistry, Bioorganic Chemistry
Santappa M Photochemistry, Kinetics of Oxidation, Complexometry, High Polymers (Synthetic), Science and Technology of Leather
Sathyamurthy N Theoretical, Molecular Reaction Dynamics
Sebastian KL Theoretical Chemistry
Sen KD Chemical Physics
Singh Harjit Organic Chemistry
Singh HB Organometallic Chemistry, Inorganic Chemistry
Singh V Organic Chemistry
Singh VK Organic Chemistry
Sinha APB Solid State Chemistry
Subbarao GSR Organic Chemistry
Subba Rao GV Solid State Chemistry & Materials Science
Subramanian S NMR, EPR, Theoretical Chemistry, Magnetic Resonance Imaging
Sukh Dev Organic Chemistry, Natural Products, Drug Discovery, Technology
The Year Book 2016

Development
Swaminathan S Organic Chemistry-Synthetic and Applied
Vankar YD Organic Chemistry
Vasudevan S Physical Chemistry
Venkatesan K Chemical Crystallography
Verma S* Bioorganic Chemistry, Chemical Biology
Yadav JS Organic Chemistry
Yashonath S Theoretical Chemistry, Physical Chemistry

SECTIONAL COMMITTEE-IV


<table>
<thead>
<tr>
<th>Name</th>
<th>Specialization</th>
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<tbody>
<tr>
<td>Ahmad T</td>
<td>Igneous Petrology-Geochemistry &amp; Himalayan Geology</td>
</tr>
<tr>
<td>Aswathanarayana U</td>
<td>Nuclear Geology, Natural Resources &amp; Environmental Geochemistry</td>
</tr>
<tr>
<td>Banerjee DM</td>
<td>Precambrian Sedimentology, Sedimentary Geochemistry</td>
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<tr>
<td>Bhandari N</td>
<td>Earth and Planetary Science</td>
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<tr>
<td>Bhardwaj A</td>
<td>Planetary and Space Science</td>
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<tr>
<td>Bhargava ON</td>
<td>Stratigraphy and Structure with Special Reference to the Himalaya</td>
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<tr>
<td>Bhatia SB</td>
<td>Palaeontology, Micropalaeontology, Stratigraphy</td>
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<tr>
<td>Bhattacharya Abhijit</td>
<td>Petrology, Geochemistry, Tectonics</td>
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<tr>
<td>Bhattacharyya Archana</td>
<td>Ionospheric Physics and Geomagnetism</td>
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<tr>
<td>Bhimasankaram VLS</td>
<td>Applied Geophysics</td>
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<tr>
<td>Dasgupta S</td>
<td>Metamorphic Petrology, Geochemistry, Precambrian Geology</td>
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<tr>
<td>Deb Mihir</td>
<td>Ore Geology, Geochemistry, Precambrian Geology, Mining Environment &amp; Sustainable Development</td>
</tr>
<tr>
<td>Dileep Kumar M</td>
<td>Oceanography</td>
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<tr>
<td>Dimri VP</td>
<td>Geophysical Inversion, Fractals and Signal Processing</td>
</tr>
<tr>
<td>Gadgil S</td>
<td>Atmospheric &amp; Oceanic Science, Evolutionary Biology</td>
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<tr>
<td>Gaur VK</td>
<td>Earth and Planetary Sciences</td>
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<tr>
<td>Gopalan K</td>
<td>Geochronology and Isotope Geology</td>
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<tr>
<td>Goswami BN</td>
<td>Tropical Meterology, Monsoon Dynamics and Predictability of Weather and Climate</td>
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<tr>
<td>Goswami JN</td>
<td>Solar System Studies, Earth and Planetary Sciences</td>
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Total Fellows: 68
<table>
<thead>
<tr>
<th>Name</th>
<th>Research Areas</th>
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<tbody>
<tr>
<td>Gupta Alok K</td>
<td>Experimental Mineralogy and Petrology</td>
</tr>
<tr>
<td>Gupta Anil K</td>
<td>Micropaleontology, Paleomonsoon and Paleoclimatology</td>
</tr>
<tr>
<td>Gupta HK</td>
<td>Seismology, Geophysical Exploration, Ocean Sciences</td>
</tr>
<tr>
<td>Guptasarma D</td>
<td>Electronics, Exploration Geophysics</td>
</tr>
<tr>
<td>Haider SA</td>
<td>Planetary Atmospheres, Ionospheres and Magnetospheres, Cometary Coma and Dust</td>
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<tr>
<td>Jain AK</td>
<td>Geology, Structural Geology and Tectonics</td>
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<tr>
<td>Kamra AK</td>
<td>Atmospheric Sciences</td>
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<tr>
<td>Krishna KS</td>
<td>Marine Geophysics, Lithospheric dynamics, Tectonics, Plate Tectonics</td>
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<tr>
<td>Krishnamoorthy K</td>
<td>Atmospheric Aerosols, Radiative Forcing</td>
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<tr>
<td>Lakhina GS</td>
<td>Geomagnetism and Atmospheric Sciences</td>
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<tr>
<td>Mahajan KK</td>
<td>Radio, Atmospheric and Space Sciences</td>
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<tr>
<td>Mandal N</td>
<td>Structural Geology and Tectonics</td>
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<tr>
<td>Merh SS</td>
<td>Structural Geology, Quarternary Geology</td>
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<tr>
<td>Mishra SK</td>
<td>Dynamic Meteorology, Numerical Modelling</td>
</tr>
<tr>
<td>Mohanty UC</td>
<td>Tropical Meteorology, Numerical Weather Prediction, Monsoon Dynamics, Meso-scale Modelling of Severe Weather and Climate Modelling</td>
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<tr>
<td>Mukhopadhyay D</td>
<td>Structural and Precambrian Geology</td>
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<tr>
<td>Naqvi SWA</td>
<td>Aquatic Biogeochemistry, Chemical Oceanography and Paleoceanography</td>
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<tr>
<td>Parthasarathy G</td>
<td>High-Pressure Mineral Physics, Earth and Planetary Science, Nanogeoscience</td>
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<tr>
<td>Patra AK*</td>
<td>Atmospheric and Ionospheric Physics, Radar Probing Techniques</td>
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<tr>
<td>Paul DK</td>
<td>Geochemistry, Isotope Geology, Petrology</td>
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<tr>
<td>Prasad GVR</td>
<td>Vertebrate Palaeontology, Biostratigraphy, Palaeobiogeography, Evolution of Mesozoic Mammals</td>
</tr>
<tr>
<td>Rai SS</td>
<td>Geophysical System Modelling, Tectonophysics and Electromagnetic Exploration</td>
</tr>
<tr>
<td>Rajamani V</td>
<td>Geochemistry</td>
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<tr>
<td>Rama</td>
<td>Isotope Hydrology</td>
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<tr>
<td>Ramesh R</td>
<td>Stable Isotope Palaeoclimatology, Mass Spectrometry, Oceanography</td>
</tr>
<tr>
<td>Rao VP</td>
<td>Marine Geology/Sedimentology</td>
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<tr>
<td>Rastogi RG</td>
<td>Space Physics and Interplanetary medium, Magnetosphere and Ionosphere</td>
</tr>
<tr>
<td>Reddy BM</td>
<td>Atmospheric Sciences, Radio Communications</td>
</tr>
</tbody>
</table>
Reddy CA  Space Physics, Atmospheric Dynamics  
Roy AB  Precambrian Geology, Tectonics  
Sahni A  Geology, Vertebrate Palaeontology and Biostratigraphy  
Sarkar A  Stable Isotope Geochemistry, Palaeoclimatology, Geochronology and Sedimentology  
Satheesh SK  Atmospheric Aerosol & Climate  
Sen SK  Metamorphic Petrology & Geochemistry  
Sengupta P  Metamorphic Petrology and Precambrian Geology  
Sengupta S  Structural Geology & Precambrian Geology  
Sengupta SM  Sedimentary Geology, Physical Stratigraphy  
Sharma RS  Metamorphic Petrology & Precambrian Geology  
Shetye SR  Physical Oceanography  
Shyam Lal  Atmospheric Sciences  
Singh IB  Sedimentology, Marine Geology, Basin & Facies Analysis Stratigraphy  
Singh RN  Geophysics, Geophysical and Environmental Modelling  
Singhvi AK  Quaternary Climate and Geochronology, Radiation Effects and Dosimetry  
Somayajulu BLK  Geochemistry, Geochronology and Oceanography  
Srinivasan MS  Oceanic Biostratigraphy, Paleoceanography  
Srinivasan R  Precambrian Geology, Sedimentation, Structure  
Srivastava DC  Structural Geology, Precambrian Geology and Fluid-inclusions  
Tandon SK  Physical Stratigraphy, Quaternary Geology, Fluvial Sedimentology and River Science  
Valdiya KS  Neotectonics, Sedimentology, Environmental Geology

**SECTORAL COMMITTEE-V**

*Engineering & Technology: Electronics, Electrical, Mechanical, Chemical, Civil, Aeronautical, Telecommunication and other branches of Engineering, Computer and Information Sciences and Technology Development*

_Total Fellows: 102_

**Name**  
Arunachalam VS  Energy Systems and Development, Science, Technology & Public Policy, Materials Science & Engineering, Defence Technologies  
Arya AS  Earthquake and Structural Engineering  
Balakrishnan N  Aerospace Electronics, Computational Electromagnetics, Polarimetric and Doppler Radars, Information Security, Speech Processing, Signal Coding  
Baldev Raj  Materials Characterization & Performance, Technology Management
Fellowship-Sectional Committeewise

Policies

Bandyopadhyay S* Computer Science (Soft Computing, Pattern Recognition and Computational Biology)

Banerjee D Physical Metallurgy

Banerjee Soumitro Nonlinear Dynamics

Banerjee Srikumar Materials Sciences, Nuclear Engineering

Bhattacharyya AB Micro-Electronics

Bhowmick AK Polymer Science and Engineering

Biswa G Heat Transfer, Computational Fluid Dynamics, Fluid Mechanics

Borkar VS Analysis and Control of Stochastic Systems

Chakrabarti PP Computer Science and Engineering

Chakravorty D Materials Science

Chattopadhyay K Physical Metallurgy and Materials Engineering

Chaudhari RV Homogeneous & Heterogeneous Catalysis, Reaction Engineering, Multiphase Reactors, Biomass conversion to chemicals and fuels

Chaudhuri BB Computer Science and Engineering

Chaudhuri S Computer Vision and Image Processing

Chhabra RP Chemical Engineering

Chockalingam A Electrical Engineering (Communications)

Chokshi AH Metallurgy and Materials Science

Choudhary VR Catalysis and Chemical Reaction Engineering

Das BN Electronics & Communication Engineering, Antenna & Microwave Engineering, Electromagnetics

Deb K Optimization and Evolutionary Computation

Deekshatulu BL Image Processing, Remote Sensing, Control Systems

Desai UB Wireless Communications, Cyber Physical Systems, Internet of Things (IoT), Signal Processing, Image and Video Processing

Dutta P Mechanical Engineering (Heat Transfer, Energy Sciences)


Dutta Roy SC Circuits, Systems & Amp, Signal Processing

Ganguly C Nuclear Fuels & Fuel cycle, Nuclear Materials and Advanced Ceramics

Ghosh A Mechanical Engineering

Goel PS Satellite Control Systems, Space Technology

Gupta NK Plasticity and Impact Mechanics


Jayaram V Materials Science and Engineering
Joshi JB  Chemical Engineering
Kant Tarun  Structural Mechanics
Kapuria S  Structural Mechanics, Multifunctional Structures
Kasturirangan K  Experimental Astronomy, Satellite Technology & Remote Sensing Systems
Khakhar DV  Chemical Engineering
Krishnan R  Physical Metallurgy, Materials Science
Kulkarni BD  Chemical Engineering
Kumar Anurag  Communication Networks: Stochastic Modelling, Analysis Optimisation and Control problems arising in Communication Networks (wireline and wireless), and Distributed Systems
Kumar R  Multiphase Phenomena
Kumaran V  Chemical Engineering
Lele S  Physical Metallurgy and Materials Science
Madras Giridhar  Chemical Engineering
Mallik AK  Vibration Engineering, Kinematics
Mallik RK  Electrical Engineering (Communications)
Manna I  Materials Engineering, Phase transformation, Surface Engineering, Nanofluid
Mashelkar RA  Polymer Science and Engineering
Mittal S  Unsteady Aerodynamics, Finite Elements, High Performance Computing
Munjal ML  Technical Acoustics, Industrial Noise Control, Automotive Noise Control
Nakra BC  Vibration Control & Analysis, Mechatronics
Nanda J  Electrical Engineering, Power System
Narahari Y  Computer Science and Electronic Commerce
Narasimha R  Aerospace and Atmospheric Fluid Mechanics
Narasimhan R  Fracture Mechanics, Computational Solid Mechanics
Pai MA  Power System Dynamics, Power System Control & Power System Computation
Pal NR  Computational Intelligence-Fuzzy Logic, Neural Networks and Evolutionary Computing, Bioinformatics
Pal SK  Computer Science, Soft Computing, Pattern Recognition and Image Processing, Fuzzy & Neural Systems, Data Mining and Web Intelligence, Bioinformatics, Cognitive Machines
Pandit AB  Chemical Engineering, Design of Multiphase Reactors, Bubble Dynamics and Cavitation Phenomena
Patnaik LM  Computer Science and Engineering, Electronics & Information Technology
Prasad S  Signal Processing and Communications
Prasad YVRK  Metallurgical Engineering, Mechanical Metallurgy & Processing
Prathap G  Computational Mechanics, Informetrics
Rajan BS  Electrical Engineering (Communications)
Rajaraman V  Computer Science
Ramachandran A  Thermal Engineering, Heat Transfer
Ramamurth V  Mechanical Engineering, Stress Analysis/Vibration
Ramamurti U  Mechanical Behavior of Materials, Advanced Materials and Nanotechnology
Ranade VV*  Chemical Engineering, Multiphase Reactors, Process Intensification, CFD
Ranganathan S  Physical Metallurgy & Materials Science
Rao P Rama  Physical & Mechanical Metallurgy
Rao PVS  Computer Science, Speech & Script Recognition
Rao VR  Nano-electronics
Ratnasamy P  Catalysis
Reddy VU  Signal Processing and Communications
Sarin M  Chemical Oceanography, Atmospheric & Aerosol Chemistry
Sarma VVS  Computer Science, Intelligent Systems & Indian Logic
Sen S  Computer Science (Algorithms)
Sharma Anurag  Photonics, Fiber and Integrated Optics, Gradient-Index Optics, Applied Optics
Sharma MM  Multiphase Reactions and Reactors
Shyamasundar RK  Computer Science
Singh Bhim  Electrical Engineering
Singh DV  Mechanical System Dynamics, Tribology
Siva Ram Murthy C  Computer Science (Parallel and Distributed Computing, Real-Time Systems, Computer Networks)
Sivaram S  Polymer Science
Sridharan A  Engineering, Properties of Clays
Srinivasan J  Thermal Sciences, Atmospheric Sciences
Subbarao EC  Materials Science, R&D Management
Sukhatme SP  Heat Transfer, Energy
Sundararajan G  Surface Engineering, Deformation Behaviour
Surappa MK  Material Processing, Solidification Processing of Metal Matrix Composites, Tribology of MMCs
Thathachar MAL  Systems Science
Venkatesh YV  System Theory, Signal Processing, Machine & Computer Vision and Neural Networks, Biometrics and Hyper-spectral Satellite Image Analysis
Vidyasagar M  Control Theory, Statistical Learning Theory, Computational Biology, Quantitative Finance
Viswanadham N  Logistics, Global Manufacturing and Service Networks
Yadav GD  Catalysis Science and Engineering, Green Chemistry and Technology
Yegnanarayana B  Signal Processing, Speech, Vision and Neural Networks

SECTIONAL COMMITTEE-VI

Material Sciences & Engineering: Materials including Composites, Nano Materials, Biomaterials, Materials Chemistry and Materials Engineering

Total Fellows: 11

Name  Specialization
Chaplot SL  Condensed Matter Physics
Dey GK*  Development of Zirconium, Niobium and Nickel Based Alloys, Amorphous Alloys, Electron Microscopy, Joining of Materials
Ghosh Aswini  Condensed Matter Physics and Materials Science
Murty BS  Physical Metallurgy, Advanced Materials
Narayan KS  Device Physics, Organic Electronics, Photophysics & Biomolecular Electronics
Pal AJ*  Organic Electronics, Materials Engineering, Device Physics
Pradip  Materials Science and Mineral Engineering, Particle Science and Technology
Sampath S  Materials Chemistry (Interfacial Chemistry/Electrochemistry)
Sharma SM*  Materials Behavior under High Pressures and Development of Synchrotron Beamlines
Sundar CS  Materials Science and Condensed Matter Physics, Positron Annihilation Spectroscopy
SECTIONAL COMMITTEE-VII

**Plant Sciences:** Taxonomy, Structure, Function, Physiology, Development, Genetics, Ecology and Evolution of Plants

*Total Fellows: 67*

<table>
<thead>
<tr>
<th>Name</th>
<th>Specialization</th>
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<tbody>
<tr>
<td>Abrol YP</td>
<td>Agricultural/Environmental Sciences</td>
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<tr>
<td>Ahuja PS</td>
<td>Plant Improvement</td>
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<tr>
<td>Apte SK</td>
<td>Molecular Biology, Biochemistry, Microbial and Plant Biotechnology</td>
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<tr>
<td>Bapat VA</td>
<td>Plant Biotechnology and Genetic Engineering</td>
</tr>
<tr>
<td>Bhatnagar RK</td>
<td>Molecular Biology</td>
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<tr>
<td>Chakraborty N*</td>
<td>Plant Molecular Biology</td>
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<tr>
<td>Chattopadhyay S</td>
<td>Molecular Biology, Biotechnology &amp; Microbial Genetics</td>
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<tr>
<td>Chopra VL</td>
<td>Genetics &amp; Crop Improvement, Biotechnology</td>
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<tr>
<td>Das Sampa</td>
<td>Plant Molecular Biology, Plant Biotechnology</td>
</tr>
<tr>
<td>Dasgupta Indranil</td>
<td>Plant Viruses and Plant-Virus Interactions</td>
</tr>
<tr>
<td>Ganeshaiah KNG</td>
<td>Plant Reproductive Ecology, Conservation Biology, Insect Behaviour &amp; Crop Breeding</td>
</tr>
<tr>
<td>Gnanam A</td>
<td>Biochemistry and Molecular Biology of Chloroplast: Structure, Genetics and Photosynthetic Function</td>
</tr>
<tr>
<td>Grover Anil</td>
<td>Plant Abiotic Stress Responses</td>
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<tr>
<td>Gupta PK</td>
<td>Cytogenetics, Plant Breeding and Biotechnology</td>
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<tr>
<td>Jain SK</td>
<td>Ethnobotany, Plant Taxonomy, Conservation, Medicinal Plants</td>
</tr>
<tr>
<td>Jha B</td>
<td>Plant Molecular Biology &amp; Biotechnology, Stress Genomics, Coastal &amp; Marine Biotechnology, Gene Mining and Translational Research</td>
</tr>
<tr>
<td>Johri MM</td>
<td>Molecular Biology of Plants</td>
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<tr>
<td>Kesavan PC</td>
<td>Radiation Biology, Genetics, Biodiversity, Sustainability Science</td>
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<tr>
<td>Khurana JP</td>
<td>Photobiology and Signal Transduction Mechanisms in Higher Plants, Plant Genomics</td>
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<td>Khurana P</td>
<td>Plant Biotechnology, Molecular Biology, Genomics</td>
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<tr>
<td>Kohli RK</td>
<td>Physiological Ecology, Invasion Plant Ecology, Forestry</td>
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<tr>
<td>Kumar HD</td>
<td>Algology, Ecology, Microbial Biotechnology</td>
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<tr>
<td>Lahiri Majumder AN</td>
<td>Plant Biochemistry and Molecular Biology</td>
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<tr>
<td>Lavana UC</td>
<td>Cytogenetics and Plant Breeding, Molecular Cytogenetics, Molecular Systematics and Chromosome Evolution, Medicinal and Aromatic Plants, Ecotechnology</td>
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<tr>
<td>Maheshwari SC</td>
<td>Botany and Plant Molecular Biology</td>
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</tbody>
</table>
Malik CP  Cytogenetics, Molecular Plant Physiology, Environmental Science, Biotechnology
Meher-Homji VM  Ecology, Bio-climatology, Plant Geography
Mohan Ram HY  Plant Growth & Development, Economic Botany
Mukherjee SK  Plant Molecular Biology
Palni LMS  Plant Physiology & Biotechnology, Plant-Microbe Interactions, Himalayan Issues
Raghavendra AS  Molecular Plant Physiology and Plant Biochemistry
Rai LC  Phycology, Microbiology, Abiotic Stress Proteomics and Genomics of Cynobacteria
Rajam MV  Plant Biotechnology, Polyamine Physiology and RNA Interference
Rajasekharan R  Plant Metabolism
Ramakrishnan PS  Ecology, Sustainable Development
Rangaswamy NS  Experimental Embryology & Tissue Culture
Rao KV  Plant Molecular Biology
Rao RR  Plant Taxonomy, Biodiversity, Phytogeography, Conservation and Ethnobotany
Sachar RC  Biochemistry and Molecular Biology
Sane PV  Photosynthesis, Plant Physiology & Biochemistry, Molecular Biology
Sanjappa M  Plant Taxonomy & Conservation
Savithri HS  Plant Molecular Virology, Enzymology, Protein Chemistry
Sawhney SK  Plant Biochemistry
Sen SK  Genetics, Plant Molecular Biology and Biotechnology
Shah JJ  Plant Anatomy, Wood Science
Sharma AK  Cytogenetics, Cytochemistry & Cell Biology
Sharma Eklabya  Ecology
Shivanna KR  Reproductive Biology Particularly Pollen Biology and Biotechnology and Conservation Biology
Siddiqi I  Plant Molecular Genetics
Singh JS  Ecology, Ecosystems Analysis, Ecophysiology
Singh PK  Plant Sciences, Sustainable Agriculture, Microbiology, Algology, Research Management
Singh SP  Ecology and Ecosystem Services and Climate Change
Sonti RV  Pathogen-plant interactions
Sopory SK  Molecular Plant Physiology
Srinivasan MC  Mycology, Industrial Microbiology, Enzyme Technology
Subrahmanyam NC  Genetics, Plant Molecular Biology
<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Ali Sher</td>
<td>Molecular Genetics of Human and Animal Systems</td>
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<tr>
<td>Ananthakrishnan TN</td>
<td>Entomology, Cecidology and Chemical Ecology</td>
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<tr>
<td>Bamezai RNK</td>
<td>Genetics, Human Genetics</td>
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<td>Bhalla US</td>
<td>Computation Neuro Science, Neuro Biology</td>
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<tr>
<td>Bhattacharya Aloks</td>
<td>Molecular Parasitology, Genomics, Bioinformatics</td>
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<tr>
<td>Bhattacharya Samir</td>
<td>Comparative Endocrinology and Molecular Signaling</td>
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<tr>
<td>Bhisey AN</td>
<td>Cell Biology, Cancer Cytogenetics, Animal Cell Culture</td>
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<tr>
<td>Borges RM*</td>
<td>Evolutionary Ecology</td>
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<tr>
<td>Brahmachari Vani*</td>
<td>Epigenetics and Development Biology, Molecular Genetics</td>
</tr>
<tr>
<td>Dass CMS</td>
<td>Cell Biology, Cellular Ultrastructure &amp; Function, Silkworm Pathology</td>
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<tr>
<td>Datta K</td>
<td>Biochemistry, Molecular &amp; Cell Biology</td>
</tr>
<tr>
<td>Datta Munshi JS</td>
<td>Fish &amp; Fisheries, Ecology and Cell Biology</td>
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<tr>
<td>Dighe RR</td>
<td>Molecular Endocrinology, Reproductive Biology, Biotechnology</td>
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<tr>
<td>Dube Anuradha</td>
<td>Medical Parasitology (Leishmaniasis)</td>
</tr>
<tr>
<td>Dutta GP</td>
<td>Protozoology, Parasitology, Tropical Diseases, Drug Development, Microbiology, Cell Biology</td>
</tr>
</tbody>
</table>

**SECTIONAL COMMITTEE-VIII**

*Animal Sciences: Taxonomy, Structure, Function, Physiology, Development, Genetics, Ecology, Behaviour and Evolution of Animals*

*Total Fellows: 68*
Dutta Gupta A  

Gadagkar R  
Animal Behaviour, Ecology and Evolution

Galande SA  
Chromatin Biology

Garg LC  
Infectious Diseases, Gene Expression, Vaccine Development

Hasan Gaiti  
Molecular Genetics and Intracellular Calcium Signalling

Jairajpuri MS  
Nematology, Parasitology Taxonomy, Biological Diversity

Joshi A  
Evolutionary Genetics and Population Ecology

Joy KP  
Neuroendocrinology, Reproductive Endocrinology

Kamboj VP  
Reproductive Biology, Contraception and Endocrinology

Lakhotia SC  
Cytogenetics & Molecular Genetics, Cell Biology, Ayurvedic Biology

Mahale SD  
Reproductive Physiology

Majumdar SS  
Transgenic Animals and Endocrinology, Animal Biotechnology

Majumder HK  
Molecular Parasitology, Molecular Biology, Biochemistry

Mallick BN  
Physiology, Neurobiology/Neurophysiology of Sleep-wakefulness

Marimuthu G  
Animal Behaviour and Chronobiology

Muralidhar K  
Biochemistry and Endocrinology

Muthukkaruppan V  
Immunology, Angiogenesis, Ocular Diseases

Nagabushnam R  
Animal Physiology, Invertebrate Endocrinology

Nanjundiah V  
Developmental Biology, Evolution, Theoretical Biology

Pandian TJ  
Animal Sciences and Fish Genetics

Parnaik Veena K  
Cell and Molecular Biology

Pillai MKK  
Medical Entomology, Environmental Toxicology

Prasada Rao PD  
Neuroendocrinology, Neurobiology & Fisheries

Ramamurthi R  
Animal Physiology, Biodiversity & Environmental Biology

Raman R  
Molecular Cytogenetics: Human Genetics

Ranganath HA  
Zoology, Genetics and Evolution

Rao AJ  
Reproductive Biology

Rao SRV  
Cytogenetics

Roy Syamal  
Parasitology, Immunology

Saidapur SK  
Biology of Reproduction, Comparative Endocrinology, Animal Behaviour

Saxena KN  
Entomology: Insect Behaviour and Management

Saxena RK  
Immunology, Nanotoxicology, Nanosciences, Biotechnology, Pulmonary Immune Responses and Effect of Environmental Pollutants, Erythrocyte Turnover
Setty BS  Reproductive Biology, Fertility Regulation
Shah RV  Comp. Anatomy, General Development Physiology
Shanbhag BA  Biology of Reproduction and Endocrinology, Behavioral Ecology
Sharma T  Evolutionary Molecular Genetics and Cytogenetics
Sharma VK  Chronobiology
Sharma YD  Molecular Parasitology, Malaria, Molecular Epidemiology
Shashidhara LS  Genetics and Developmental Biology
Singh M  Ecology, Animal Behaviour
Sinha VRP  Fish Biology, Reproductive Physiology & Aquatic Productivity Management and Fisheries Research Management
Sobti RC  Cell Biology, Molecular Genetics Cytogenetics, Animals and Humans
Srivastava PN  Radiation Biology
Subbarao SK  Genetics, Cytogenetics and Malaria
Subramoniam T  Invertebrate Reproductive Biology, Cryobiology
Sukumar R  Ecology
Swarup K  Vertebrate Endocrinology, Physiology of Fish Reproduction
Tewari HB  Cell Biology, Histochemistry, Neurochemistry
Thapliyal JP  Comparative Endocrinology, Chronobiology, Embryology
Thelma BK  Cytogenetics and Human Genetics
Vaidya VA  Neuroscience
Vijayraghavan K  Developmental Biology, Genetics
Watve MG  Evolutionary Biology, Ecology and Theoretical Biology

**SECTIONAL COMMITTEE-IX**

*Microbiology and Immunology: Biology of Viruses, Bacteria and Parasites, Microbial Genetics and Genomics, Immunology*

<table>
<thead>
<tr>
<th>Name</th>
<th>Specialization</th>
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<tbody>
<tr>
<td>Arankalle VA</td>
<td>Virology, Biotechnology, Vaccinology</td>
</tr>
<tr>
<td>Bhatnagar R</td>
<td>Microbiology, Immunology</td>
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<tr>
<td>Chitnis CE</td>
<td>Molecular Parasitology</td>
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<tr>
<td>Dikshit KL*</td>
<td>Molecular Biology, Biochemistry</td>
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<tr>
<td>DurgaRao C</td>
<td>Virology, Cell and Molecular Biology, Biotechnology</td>
</tr>
<tr>
<td>Kasbekar DP</td>
<td>Fungal Genetics and Molecular Biology</td>
</tr>
<tr>
<td>Mitra Debashis</td>
<td>Molecular Virology and Molecular Immunology</td>
</tr>
<tr>
<td>Mukhopadhyay S*</td>
<td>Immunology and Infection Biology</td>
</tr>
</tbody>
</table>

Total Fellows: 14
Qadri Ayub Immunology
Ramamurthy T Microbiology and Molecular Microbiology
Sahu AK Complement Biology, Molecular Virology
Sharma S Parasite Biology and Immunology
Singh Y Bacterial Pathogenesis, Bacterial Protein Toxins, Signal Transduction in Bacteria
Tripathi AK Molecular Microbiology (Agricultural & Environmental)

SECTIONAL COMMITTEE-X

**Cell and Biomolecular Sciences:** Biochemistry, Biophysics, Cell Biology, Molecular Biology, Structural Biology, Bioinformatics, Systems Biology, Biotechnology

*Total Fellows: 101*

<table>
<thead>
<tr>
<th>Name</th>
<th>Specialization</th>
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<tbody>
<tr>
<td>Adhya Samit</td>
<td>Molecular Biology</td>
</tr>
<tr>
<td>Ahmad F</td>
<td>Biophysical Chemistry, Biochemistry</td>
</tr>
<tr>
<td>Bachhawat AK</td>
<td>Microbial Genetics &amp; Biochemistry/Yeast Glutathione &amp; Sulphur Metabolism</td>
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<tr>
<td>Balaram P</td>
<td>Bioorganic Chemistry and Molecular Biophysics</td>
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<tr>
<td>Balasubramanian D</td>
<td>Biophysical Chemistry, Biomolecular Interactions, Ocular Biochemistry, Protein Structure</td>
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<tr>
<td>Bandyopadhyay Uday</td>
<td>Biochemistry and Cell Biology</td>
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<tr>
<td>Banerjee AC</td>
<td>Viral Pathogenesis and Gene Therapy</td>
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<tr>
<td>Banerjee RK</td>
<td>Cell Biology, Molecular Enzymology</td>
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<tr>
<td>Bansal Manju</td>
<td>Molecular Biophysics, Structural and Computational Biology</td>
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<tr>
<td>Basu J</td>
<td>Molecular and Cellular Biology with special reference to Mycobacteria</td>
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<tr>
<td>Basu SK</td>
<td>Biochemistry, Molecular Biology and Genetics</td>
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<tr>
<td>Bhattacharya Sudha</td>
<td>Molecular Biology, Molecular Parasitology</td>
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<tr>
<td>Bhattacharyya B</td>
<td>Structural Biology, Biochemistry &amp; Molecular Spectroscopy</td>
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<tr>
<td>Biswas BB</td>
<td>Molecular Biology, Genetic Engineering</td>
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<tr>
<td>Brahmachari SK</td>
<td>Structural Biology, Functional Genomics, Open Source Drug Discovery</td>
</tr>
<tr>
<td>Chakrabarti P</td>
<td>Molecular Biophysics, X-ray Crystallography and Structural Biology, Bioinformatics</td>
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<tr>
<td>Chandra HGS</td>
<td>Human Genetics, Evolution</td>
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<tr>
<td>Chary KVR</td>
<td>Molecular Biophysics, Structural Biology and NMR Spectroscopy</td>
</tr>
<tr>
<td>Name</td>
<td>Research Interests</td>
</tr>
<tr>
<td>---------------------</td>
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</tr>
<tr>
<td>Chatterjee IB</td>
<td>Biochemistry, Vitamin C, Oxidative Damage, Cigarette smoke-induced lung cancer, Urothelial Cancer, Emphysema and other Tissue Damage, Black tea</td>
</tr>
<tr>
<td>Chatterjee SN</td>
<td>Biophysics, Microbiology, Molecular and Genetic Toxicology, Free Radicals Biology</td>
</tr>
<tr>
<td>Chatterji D</td>
<td>Biophysical Chemistry &amp; Molecular Biology and Nanobiology</td>
</tr>
<tr>
<td>Chattopadhyay A</td>
<td>Membrane Biology, Molecular &amp; Cellular Neurobiology and Fluorescence Spectroscopy &amp; Microscopy</td>
</tr>
<tr>
<td>Chattopadhyay S</td>
<td>Gene Regulation, Cancer Biology and Immunology</td>
</tr>
<tr>
<td>Chauhan VS</td>
<td>Peptide as self organizing system and a drug delivery platforms, Malaria Immunology, Subunit Vaccine and Malaria Drug Development</td>
</tr>
<tr>
<td>Das HK</td>
<td>Biochemistry, Molecular Biology and Recombinant DNA Technology</td>
</tr>
<tr>
<td>Das PK</td>
<td>Biochemistry, Cell Biology, Molecular Parasitology, Drug delivery</td>
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<tr>
<td>Das Saumitra</td>
<td>Molecular Virology and Molecular Biology</td>
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<tr>
<td>Dasgupta CK</td>
<td>Biochemistry and Biophysics</td>
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<tr>
<td>Datta AK</td>
<td>Enzymology, Molecular Biology, Parasitology</td>
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<tr>
<td>Datta Asis</td>
<td>Biochemistry, Molecular Biology &amp; Genetic Engineering</td>
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<tr>
<td>Dhar SK*</td>
<td>Biochemistry, Molecular Biology, Cell Biology, Parasitology</td>
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<tr>
<td>Easwaran KRK</td>
<td>Molecular Biophysics; Membrane Biophysics, Structural Biology</td>
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<tr>
<td>Ghosh B</td>
<td>Biochemistry, Immunology, Molecular Genetics</td>
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<tr>
<td>Gokhale RS</td>
<td>Chemical Biology</td>
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<td>Gopal B*</td>
<td>Structural Biology</td>
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<td>Gopinathan KP</td>
<td>Molecular Biology and Biotechnology</td>
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<td>Govil G</td>
<td>Molecular Biophysics</td>
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<tr>
<td>Gowrishankar J</td>
<td>Microbial Genetics and Physiology, Molecular Biology and Biotechnology</td>
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<tr>
<td>Gupta CM</td>
<td>Membrane Biology, Bio-Organic Chemistry</td>
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<tr>
<td>Gupta KC</td>
<td>Nucleic Acid Chemistry, Nanobiotechnology</td>
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<tr>
<td>Gupta MN</td>
<td>Biochemistry</td>
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<tr>
<td>Hasnain SE</td>
<td>Functional Biology, Molecular Pathogenesis &amp; Dissemination Dynamics of Human Pathogens Particularly <em>M. tuberculosis</em></td>
</tr>
<tr>
<td>Hosur M</td>
<td>Biophysics, X-ray Crystallography</td>
</tr>
<tr>
<td>Jagannathan V</td>
<td>Biochemistry and Plant Tissue Culture</td>
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<tr>
<td>Jayaraman R</td>
<td>Molecular Biology and Microbial Genetics</td>
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<tr>
<td>Kannan KK</td>
<td>Macromolecular Crystallography, Molecular Biology</td>
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<tr>
<td>Kenkare UW</td>
<td>Molecular Biology, Molecular Enzymology, Structural Biochemistry</td>
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<td>Name</td>
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<tr>
<td>Kolaskar AS</td>
<td>Molecular Biophysics &amp; Bioinformatics</td>
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<tr>
<td>Krishnamoorthy G</td>
<td>Biomolecular Dynamics</td>
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<tr>
<td>Kumar Anil</td>
<td>Nuclear Magnetic Resonance Spectroscopy &amp; Applications to Biomolecules &amp; Quantum Computing</td>
</tr>
<tr>
<td>Kumar Sushil</td>
<td>Plant and Microbial Genetics, Genomics Biodiversity and Biosafety, Medicinal and Aromatic Plants Biotechnology</td>
</tr>
<tr>
<td>Kundu TK</td>
<td>Regulation of Gene Expression (Transcription) in Humans with Special Emphasis on Disease and Therapeutics and related Chemical Biology</td>
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<tr>
<td>Mandal NC</td>
<td>Molecular Biology</td>
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<td>Mande SC</td>
<td>Biophysics</td>
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<td>Mayor S</td>
<td>Cell Biology</td>
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<tr>
<td>Mishra GC</td>
<td>Immunology</td>
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<tr>
<td>Mishra RK</td>
<td>Genomics of the non-coding DNA &amp; Epigenetic Regulation and Development</td>
</tr>
<tr>
<td>Mohan Rao C</td>
<td>Biophysical Chemistry and Molecular Biology, Protein Folding in Health and Disease, Molecular Diagnostics and Nanobiology</td>
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<tr>
<td>Mohanty D</td>
<td>Computational Biology &amp; Bioinformatics</td>
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<tr>
<td>Mukhopadhyay A</td>
<td>Cell Biology</td>
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<tr>
<td>Muniyappa K</td>
<td>Molecular Genetics, Molecular Cell Biology, Functional Genomics</td>
</tr>
<tr>
<td>Murthy MRN</td>
<td>X-ray Diffraction, Macromolecular Crystallography, Protein Structure and Function, Virus Structure and Assembly</td>
</tr>
<tr>
<td>Nagaraj R</td>
<td>Peptide Biochemistry, Membrane Biochemistry</td>
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<tr>
<td>Nagaraja V</td>
<td>Molecular Biology of Mycobacteria, Regulation of Gene Expression, Protein, DNA Interactions</td>
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<td>Padayatty JD</td>
<td>Plant Molecular Biology, Recombinant DNA</td>
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<tr>
<td>Padmanaban G</td>
<td>Biochemistry, Molecular Biology, Malaria</td>
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<td>Prasad R</td>
<td>Membrane Biochemistry, Fungal Genetics, Membrane Biology</td>
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<td>Ramakrishnan C</td>
<td>Molecular Biophysics</td>
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<tr>
<td>Ramasarma T</td>
<td>Biochemistry, Biological Oxidation</td>
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<td>Rao BJ</td>
<td>Molecular basis of Genome Dynamics Biophysics of Genome Repair Complexes</td>
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<td>Rao DN</td>
<td>Protein-DNA Interactions</td>
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<td>Rao MRS</td>
<td>Molecular &amp; Cell Biology, Genomics, Human Molecular Genetics</td>
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<tr>
<td>Rao NA</td>
<td>Enzyme Regulation and Kinetics, Human Genetics</td>
</tr>
<tr>
<td>Rao VSR</td>
<td>Bio-Polymers</td>
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<tr>
<td>Roy RP*</td>
<td>Biochemistry, Synthetic Protein Chemistry, Chemical Biology</td>
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<tr>
<td>Roy S</td>
<td>Biophysics, Biochemistry, Structural Biology, Chemical Biology</td>
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<tr>
<td>Name</td>
<td>Research Areas</td>
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<tr>
<td>Sahni G</td>
<td>Enzymology, Protein Engineering</td>
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<tr>
<td>Salunke DM</td>
<td>Structural Biology, Macromolecular Crystallography, Molecular Biophysics</td>
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<tr>
<td>Sarkar DP</td>
<td>Biochemistry, Molecular Virology, Molecular Cell Biology, Cell Signaling, Biotechnology &amp; Membrane Biology</td>
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<td>Sarkar PK</td>
<td>Neurodegenerative Diseases, Molecular Neurobiology, Neuroendocrinology</td>
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<tr>
<td>Sasisekharan V</td>
<td>Biomolecular Structure &amp; Function</td>
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<td>Sastry PS</td>
<td>Biological Chemistry &amp; Biomedical Research</td>
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<td>Shaha C</td>
<td>Cell Biology, Biochemistry</td>
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<tr>
<td>Sharma P</td>
<td>Signal Transduction, Biochemistry, Malaria, Neuroscience</td>
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<td>Singh Lalji</td>
<td>Molecular Biology, DNA Fingerprinting, Wildlife Conservation</td>
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<tr>
<td>Singh TP</td>
<td>Structural Biology, Protein Structures, Peptide Design and Drug Discovery</td>
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<td>Sivaraman C</td>
<td>Molecular Enzymology, Enzyme Technology</td>
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<tr>
<td>Sowdhamini R</td>
<td>Structural Bioinformatics, Protein Sequence Analysis, Genome Analysis, Function Prediction</td>
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<tr>
<td>Subba Rao PV</td>
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<tr>
<td>Surolia A</td>
<td>Protein Chemistry, Protein Folding, Function &amp; Design for Therapeutics</td>
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<td>Swarup G</td>
<td>Molecular and Cell Biology, Molecular basis of disease, Cell Signalling, Membrane Vesicle Trafficking</td>
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<td>Tyagi Anil K</td>
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<td>Tyagi JS</td>
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<tr>
<td>Udgaonkar JB</td>
<td>Physical Biochemistry</td>
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<tr>
<td>Varadarajan R</td>
<td>Protein Structure and Folding</td>
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<td>Varshney U</td>
<td>Molecular Biology</td>
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<tr>
<td>Vijayan M</td>
<td>Molecular Biophysics, Biological Crystallography and Structural Biology</td>
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<tr>
<td>Visweswariah SS</td>
<td>Biochemistry, Cell Biology</td>
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</table>
### SECTIONAL COMMITTEE-XI

**Health Sciences:** Basic and Clinical Medical Sciences, Anthropology, Psychology, Human Genetics, Public Health, Nutrition

**Total Fellows: 82**

<table>
<thead>
<tr>
<th>Name</th>
<th>Specialization</th>
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<tbody>
<tr>
<td>Acharya SK</td>
<td>Gastro enterology, Hepatology</td>
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<tr>
<td>Agarwal KN</td>
<td>Paediatrics-Nutrition Growth &amp; Development</td>
</tr>
<tr>
<td>Agrewala JN</td>
<td>Immunology, Tuberculosis</td>
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<tr>
<td>Ali N</td>
<td>Biochemistry/Immunology</td>
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<tr>
<td>Anand Anuranjan*</td>
<td>Genetics</td>
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<tr>
<td>Anand Ashima</td>
<td>Cardiorespiratory &amp; Neurophysiology</td>
</tr>
<tr>
<td>Bamji Mahtab S</td>
<td>Biochemistry, Nutrition</td>
</tr>
<tr>
<td>Banerjee K</td>
<td>Virology, Immunology and Epidemiology</td>
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<tr>
<td>Bhan MK</td>
<td>Pediatric Gastroenterology, Pediatric infectious Diseases, Nutrition</td>
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<tr>
<td>Bhattacharya SK</td>
<td>Diarrhoeal Diseases, HIV/AIDS, Kala-azar, Infectious Diseases</td>
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<tr>
<td>Bhisey RA</td>
<td>Environmental Carcinogenesis, Molecular Epidemiology</td>
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<tr>
<td>Chakrabarti S</td>
<td>Viral Diseases with Special Emphasis on Genetic Characterization of Viruses and Mechanism of Pathogenesis</td>
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<tr>
<td>Chakraborti PK</td>
<td>Molecular Biology &amp; Biochemistry, Molecular Microbiology</td>
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<tr>
<td>Chaturvedi UC</td>
<td>Medical Microbiology, Virology, Immunology</td>
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<tr>
<td>Chowdhury A</td>
<td>Health Sciences: Hepatology</td>
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<tr>
<td>Das BC</td>
<td>Molecular Oncology, Molecular Virology and Human Molecular Genetics</td>
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<tr>
<td>Das Pradeep</td>
<td>Medical Biotechnology and Molecular Parasitology</td>
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<tr>
<td>Dash D</td>
<td>Biochemistry, Thrombus/Platelet Biology, Translational Nanomedicine</td>
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<tr>
<td>Deo MG</td>
<td>Pathology, Oncology, Molecular Medicine</td>
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<tr>
<td>Dey CS</td>
<td>Cell Biology, Insulin Signaling, Molecular Biology, Diabetes, Drug Resistance in Leishmania</td>
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<td>Dhawan BN</td>
<td>Pharmacology, New Drug Development</td>
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<tr>
<td>Dikshit M</td>
<td>Molecular Pharmacology</td>
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<tr>
<td>Gangal SG</td>
<td>Cancer Immunology, Basic Immunology Genetic Diseases</td>
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<td>Microbiology, Immunology, Biotechnology, Infectious Diseases, Public Health and Policy</td>
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<td>Ghosh A</td>
<td>Molecular Biology of <em>Vibrio cholerae</em></td>
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<td>Giri AK</td>
<td>Genetic Toxicology, Environmental Mutagenesis and Human Genetics and Genomics</td>
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<td>Gopalan C</td>
<td>Nutrition and Medical Research</td>
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<tr>
<td>Gupta SK</td>
<td>Reproductive Biology/Immunology, Immunodiagnostics, Vaccine Development</td>
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<tr>
<td>Jagannathan NR</td>
<td>Clinical and Pre-clinical Cancer Research using Molecular Imaging/MRI &amp; in-vivo NMR Spectroscopy/Functional MRI Studies/NMR Metabolomics/Biophysics</td>
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<tr>
<td>Jameel S</td>
<td>Virology</td>
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<td>John TJ</td>
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<td>Kang G</td>
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<td>Kar Premashis</td>
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<tr>
<td>Katoch VM</td>
<td>Microbiology &amp; Molecular Biology of Mycobacteria/Mycobacteriology</td>
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<tr>
<td>Kaul Deepak</td>
<td>Molecular Medicine, Functional Genomics, Genomic-Immunity</td>
</tr>
<tr>
<td>Kochupillai NP</td>
<td>Endocrinology, Metabolism Diabetes &amp; Biotechnology</td>
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<td>Kondaiah P</td>
<td>Cancer Biology and Biomarkers, Cancer Therapeutics, Gene Regulation by Steroid Hormones</td>
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<td>Krishnaswamy K</td>
<td>Internal Medicine</td>
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<td>Mehra NK</td>
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<td>Mishra AC</td>
<td>Epidemiology &amp; Natural Cycle of Viral Diseases</td>
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<td>Misra UK</td>
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<td>Mittra I</td>
<td>Oncology/Cancer Surgery, Fundamental, Clinical and Public Health Research in Cancer</td>
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<td>Mohan V</td>
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<tr>
<td>Nath Indira</td>
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<td>Nayak NC</td>
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<td>Panda SK</td>
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<td>Ramakrishna BS</td>
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<td>Name</td>
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<tr>
<td>Sanyal SC</td>
<td>Medical Microbiology, Infection Control, Antimicrobial Therapy, Ecology</td>
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<td>Sarkar C*</td>
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<td>Sharma KN</td>
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<td>General Medicine, Pulmonary, Critical care and Sleep Medicine</td>
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<td>Sinha AKP</td>
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<td>Pharmacology, Natural Products, Toxicology</td>
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<tr>
<td>Subba Rao K</td>
<td>Neurochemistry, Molecular Biology of Aging</td>
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<td>Thangaraj K*</td>
<td>Population Genetics and Evolutionary Biology, Clinical and Medical Genetics, Ancient DNA and Forensic Genetics</td>
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<td>Wadia NH</td>
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### SECTIONAL COMMITTEE-XII

**Agricultural Sciences:** Agriculture, Horticulture, Forestry, Fisheries, Veterinary Science

**Total Fellows: 59**

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<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Abrol IP</td>
<td>Soil Science, Sustainable Agriculture, Research Management</td>
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<tr>
<td>Adhya TK</td>
<td>Environmental Microbiology</td>
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<tr>
<td>Arunachalam V</td>
<td>Quantitative Genetics, Plant Breeding, Biodiversity</td>
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<tr>
<td>Bagyaraj DJ</td>
<td>Agricultural Microbiology, Mycorrhizal Symbiosis</td>
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<tr>
<td>Balyan HS</td>
<td>Genetics, Plant Breeding &amp; Crop Biotechnology</td>
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<td>Bhatia CR</td>
<td>Genetics, Plant Breeding, Agriculture, Biotechnology</td>
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<tr>
<td>Das P</td>
<td>Biotechnology of Woody Plants &amp; Horticultural Crops</td>
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<tr>
<td>Datta SK</td>
<td>Plant Biotechnology</td>
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<tr>
<td>Dhillon BS</td>
<td>Agricultural Sciences, Genetics</td>
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<tr>
<td>Gadgil MD</td>
<td>Ecology, Environment and Development</td>
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<tr>
<td>Ghosh K</td>
<td>Agricultural Chemistry and Soil Science</td>
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<tr>
<td>Gill BS</td>
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<td>Gupta RK</td>
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<td>Kanwar JS</td>
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<td>Khanna-Chopra R</td>
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<td>Khush GS</td>
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<td>Madan Mohan</td>
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<td>Mallick N</td>
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<td>Modi VV</td>
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<td>Mohapatra T</td>
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<td>Mukerjee SK</td>
<td>Organic Chemistry &amp; Agrochemicals</td>
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<tr>
<td>Nagarajan S</td>
<td>Agriculture Sciences-Plant Disease, Wheat improvement, Germplasm usage, Plant Variety Protection</td>
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<tr>
<td>Narain P</td>
<td>Statistical Genetics, Agricultural Statistics</td>
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<td>Nautilial CS</td>
<td>Plant-Microbe Interactions &amp; Soil Microbiology</td>
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<tr>
<td>Paroda RS</td>
<td>Plant Breeding &amp; Genetics</td>
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<tr>
<td>Pathak H</td>
<td>Agricultural Sciences</td>
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<tr>
<td>Pental D</td>
<td>Breeding of Mustard, Transgenic crops</td>
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<tr>
<td>Pradhan AK</td>
<td>Plant Genetics and Molecular Plant Breeding</td>
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<tr>
<td>Prasad R</td>
<td>Agronomy, Soil Fertility, Fertilizers, Cropping Systems</td>
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<tr>
<td>Purohit AN</td>
<td>Environmental Plant Physiology, Physiology and Biochemistry of Medicinal Plants</td>
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<tr>
<td>Raina SK</td>
<td>Agricultural Biotechnology</td>
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<tr>
<td>Rao NGP</td>
<td>Genetics and Plant Breeding</td>
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<td>Sethunathan N</td>
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<td>Sharma RP</td>
<td>Genetics and Plant Biotechnology, Cytogenetics</td>
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<td>Sharma TR</td>
<td>Plant Biotechnology and Disease Resistance</td>
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<td>Shastry SVS</td>
<td>Genetics, Plant Breeding, Taxonomy</td>
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<tr>
<td>Siddiq EA</td>
<td>Genetics &amp; Plant Breeding</td>
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<tr>
<td>Singh Bijay</td>
<td>Soil Fertility and Chemistry</td>
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<tr>
<td>Singh N</td>
<td>Food Science and Technology</td>
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<tr>
<td>Singh NK</td>
<td>Plant Genomics, Transgenic Development, Molecular Breeding, Grain Quality in Rice and Wheat</td>
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</tbody>
</table>
Singh NT  
Soil Science

Singh Randhir  
Plant Biochemistry, Biotechnology

Singh Rangil  
Plant Biochemistry (Metabolism of Carbohydrates and their Bio-regulation during Growth and Development of Cereals, Legumes, Forages and other Commercial Crops)

Singh SR  
Soil and Water Engineering, Irrigation and Drainage Engineering, Ground Water Modelling

Singh Y  
Soil Science

Subba Rao NS  
Soil Microbiology & Biofertilizers

Swaminathan MS  
Genetics, Agriculture

Takkar PN  
Agriculture, Soil Chemistry, Fertility and Plant Nutrition, Micronutrients

Tuli R  
Plant Physiology, Molecular Genetics and Plant Biotechnology

Varshney RK  
Crop Genomics and Molecular Breeding (Agricultural Biotechnology)

Virk DS  
Genetics and Plant Breeding

Yadava JNS  
Veterinary Microbiology, Immunology, Bacterial Genetics, Molecular Biology, Biotechnology, Zoonoses

SECTIONAL COMMITTEE-M

Multidisciplinary Committees

Total Fellows: 09

<table>
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<tr>
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<tr>
<td>Ananthakrishna G</td>
<td>Theoretical Materials Science and Condensed Matter Physics</td>
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<tr>
<td>Krupanidhi SB</td>
<td>Physics of Materials, Epitaxial Multi-Component Oxides, Compound Semiconductors, Superlattices, Functional Devices &amp; Applications</td>
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<tr>
<td>Majumder PP</td>
<td>Human Genetics, Genetic Epidemiology Biostatistics</td>
</tr>
<tr>
<td>Ramaswamy R</td>
<td>Chemical Physics, Nonlinear Science, Computational Biology and Bioinformatics</td>
</tr>
<tr>
<td>Sadashiva BK</td>
<td>Synthesis and Characterization of Liquid Crystalline Materials</td>
</tr>
<tr>
<td>Sarma DD</td>
<td>Electronic Structure of Solid</td>
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<tr>
<td>Sen Abhijit</td>
<td>Plasma Physics and Non Linear Dynamics</td>
</tr>
<tr>
<td>Shukla AK</td>
<td>Materials Electrochemistry with special emphasis on Batteries, Fuel Cells and Electrochemical Supercapacitors</td>
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<tr>
<td>Sinha Somdatta</td>
<td>Theoretical and Computational Biology, Complex Systems</td>
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FELLOWS AND FOREIGN FELLOWS DECEASED DURING THE YEAR 2015 (OR EARLIER)

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<th>Fellows</th>
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<tr>
<td>Banerjee, H</td>
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<td>Srikrishna, A</td>
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TABLE SHOWING THE NUMBER OF FELLOWS, FOREIGN FELLOWS AND PRAVASI FELLOWS OF THE ACADEMY

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*tilt 01.12.2015
FELLOWS AND FOREIGN FELLOWS DECEASED SINCE THE FOUNDING OF THE ACADEMY

FELLOWS

Abhyankar KD
Abhyankar SS
Abraham KP
Abraham WEV
Adiga PR
Agarwal SC
Agarwal SS
Agarwala SC
Agharkar SP
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Bhagavantam S
Bhakuni Vinod
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Biswas SN
Biswas Sukumar
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Bor NL
Bose A
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Bose MK
Bose MN
Bose Nirman Kumar
Bose Nolini Kanto
Bose PC
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Brahm Prakash
Brahmachari UN
Buchi EC
Burma DP
Burns W
Burridge W
Burt BC
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Chakravarti D
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Datta Sachhindananda  
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De MN  
De P  
De Rajat  
Deb SS  
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Desai RD  
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Koteswaram P
Kothari DS
Kothavala ZR
Krishna Murti CR
Krishna Rao GS
Krishnan KS
Krishnan KV
Krishnan MS
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Kundu DN
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Lakhanpal RN
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Mitra K
Mitra RP
Mitra S
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Mitra Sisir Kumar
Mitra Sujit Kumar
Mitra SN
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Mukherjee P
Mukherjee Surath Kumar
Mukherjee Sushil Kumar
Mukherji SM
Fellows/Foreign Fellows Deceased

Mundkur BB
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Murthy YS

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Nagaraju J
Nagchaudhury BD
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Nair US
Nanda KK
Nanjundayya C
Naqvi SM
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Narasimham NA
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Nehru Jawaharlal
Neogi P
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Normand Charles WB
Notani NK

Olver Arthur

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Pal RK
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Ramamurti B
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Ramanujam Srinivasa (E. 1948)
Ramanujam Srinivasa (E. 1983)
Ramaseshan S
Ramawami LS
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Ramaniah MV
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Saha Ajit Kumar (E. 1968)
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FOREIGN FELLOWS

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Allen Percival
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Christophers Sir Richard
Cockcroft Sir John
Cohen Morris
Compton AH
Cotton FA
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Eddington Sir Arthur
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Einstein A
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Engelhardt VA
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Holliday Robin
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Koptyug VA
Kovda Victor A
Kostrzewski JK
Krebs Sir Hand
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Laue M Von
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Leiper RT
Li Choch Hao
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Lindgre Waldemar
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Selye Hans
Seward Sir Albert C
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Sherrington S Charles
Schockley WB
Schwartz L
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Siegfried M
Steward FC
Sultanbawa MUS
Szentagothai JM
Szent-Gyorgy Albert
Tani I
Tischler Georg
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# LOCAL CHAPTERS AND CONVENERS

*(April 1, 2015 – March 31, 2018)*

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<td>Chandigarh</td>
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<td>Chennai</td>
<td>BS Murty</td>
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<tr>
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<td>SK Gupta</td>
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<tr>
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<td>Hemanta K Majumder</td>
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<td>Lucknow</td>
<td>AK Tripathi</td>
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<tr>
<td>(All Fellows in Kanpur, Lucknow, Nainital, Pantnagar and Ranikhet)</td>
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</tr>
</tbody>
</table>
Madurai
(All Fellows in Karaikudi, Madurai, Pondicherry and Trichy)

Mumbai
(All Fellows in Mumbai and Indore)

Pune
(All Fellows in Ahmednagar, Aurangabad, Goa and Pune)

Thiruvananthapuram
(All Fellows in Kerala)

Varanasi
(All Fellows in Azamgarh, Gorakhpur and Varanasi)
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Invitations are received from the Government of India and several scientific institutions/organizations for representation of the Academy on their Committees. These representatives are appointed by the Council and they serve on these committees during the tenure of Committees specified by these organizations. The following list gives the names of the representatives on the organizations concerned:

(A) **Council of Indian Statistical Institute**
   *(For two years upto Sept. 2016)*
   1. Mathematician R Balasubramanian
   2. Statistician Rahul Mukherjee
   3. Biologist SK Saidapur
   4. Engg. Sciences Rohini M Godbole

(B) **Birbal Sahni Inst. of Palaeobotany**

(C) **Indian Council of Philosophical Research**
   *(For three years from September 2012)*
   SC Dutta Roy

(D) **Indian Science Congress Association**
   *(For one year upto 31 March 2016)*
   JP Mittal

(E) **Indian Association for the Cultivation of Science**
   *(1.4.2013–31.3.2015)*
   MK Chaudhuri

(F) **Indian National Academy of Engineering**
   Anurag Sharma

(G) **Indian Institute of Advance Study (IIAS)**
   R Ramaswamy

(H) **CR Rao Advanced Institute of Mathematics, Statistics & Computer Science**
   Ajit Iqbal Singh
COMMITTEES

(A) Ex-officio Membership by Officers
1. THE PRESIDENT, by rule, presides over all the Committees which he attends.
2. The members present elect the Chairman in the absence of the PRESIDENT.

(B) Retirement from Committees
1. The retirement of members of the Sectional Committees is laid down in the Regulations.
2. The tenure of members of other Standing Committees of the Academy is normally one year.
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   Professor Kankan Bhattacharyya, *Vice-President*
   Professor SC Lakhotia, *Vice-President*
   Professor JP Mittal, *Vice-President*
   Professor Rajendra Prasad, *Vice-President*
   Professor R Ramaswamy, *Vice-President*
   Dr Chandrima Shaha, *Vice-President*
   Professor Alok Bhattacharya
   Professor JP Khurana
   Professor Digvijai Singh

B. Resource Management
   Professor R Gadagkar, *President (Chairperson)*
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   Dr Chandrima Shaha, *Vice-President*
   Professor Alok Bhattacharya
   Professor JP Khurana
   FA, DST
   Nominee of Secretary, DST

C. Publication Advisory Board
   Professor R Gadagkar, *President (Chairperson)*
   Professor Kankan Bhattacharyya, *Vice-President*
   Professor SC Lakhotia, *Vice-President*
   Professor JP Mittal, *Vice-President*
   Professor Rajendra Prasad, *Vice-President*
   Professor R Ramaswamy, *Vice-President*
   Dr Chandrima Shaha, *Vice-President*
   Professor D Balasubramanian
   Professor DM Banerjee
   Professor AV Khare
   Professor NK Mehra
   Professor Gadadhar Misra
   Professor BK Thelma

D. Editorial Board: *Indian Journal of Pure & Applied Mathematics*
   Professor Gadadhar Misra, FNA *(Editor)*
   Professor Manindra Agrawal
   Professor RB Bapat
   Professor Indranil Biswas
   Professor NM Bujurke
Professor RL Karandikar
Professor N Mohan Kumar (USA)
Professor SS Sane, Mumbai University
Professor VD Sharma
Professor Balwant Singh
Professor B Sury (Bengaluru)
Professor GD Veerappa Gowda

E. Editorial Board: Proceedings of the Indian National Science Academy
Professor SC Lakhotia, FNA (Editor-in-Chief)
Professor Anunay Samanta (Editor: Chemical Sciences)
Professor Sanjay Puri (Editor: Physical Sciences)
Professor Tarun Kant (Editor: Engineering & Technology)
Professor DM Banerjee (Editor: Earth & Planetary Science)
Professor DD Sarma (Editor: Material Science & Engineering)
Professor AN Lahiri Majumder (Editor: Plant Sciences)
Dr Sher Ali (Editor: Animal Science)
Professor Dipankar Chatterji (Editor: Microbiology & Immunology)
Professor Alok Bhattacharya (Editor: Cell & Biomolecular Science)
Professor Madhubala Rentala (Editor: Health Sciences)
Professor R Khanna Chopra (Editor: Agril Sciences)
Professor SK Acharya
Professor Talat Ahmad
Professor A Ajayaghosh
Professor FJ Barrantes (Argentina)
Dr Anandita Bhadra (Kolkata)
Professor Gautam Biswas
Dr Suryasarathi Bose (Bengaluru)
Professor Anny Cazenave (France)
Professor Praveen Chaddah
Professor SL Chaplot
Professor Deepak Dhar
Professor Aparna Dutta Gupta
Professor GR Fleming (UK)
Professor BBP Gupta (NEHU, Shillong)
Professor JH Hacker (Germany)
Professor M Kleiner (Germany)
Professor KS Krishna
Professor RM Kini (Singapore)
Dr Anil Kumar
Professor Chitra Mandal
Professor Debashish Mitra
Professor Sanjay Mittal
Professor V Nagaraja
Professor RK O’nions (UK)
Professor TJ Pandian
Professor JP Pascal (France)
Professor Deepak Pental
Committees 2016

Professor TP Radhakrishnan
Professor AS Raghavendra
Professor Shibaji Raha
Professor SK Raina
Professor Rajiva Raman
Professor HA Ranganath
Professor AJ Rao
Professor H Surya Prakash Rao (Pondicherry University)
Professor DP Sarkar
Dr Deepak Sharma (Roorkee)
Professor KR Shivanna
Professor NK Singh
Professor Y Singh
Professor RV Sonti
Professor KR Sreenivasan
Professor T Subramonium
Professor CS Sundar
Professor RP Tiwari
Professor Jaya S Tyagi
Professor K Veluthambi
Professor SS Vishweswariah
Professor JS Yadav
Professor H Yang (China)

F. Editorial Board for Indian Journal of History of Science
Professor D Balasubramanian, FNA (Chairperson)
Dr AK Bag, Editor (Delhi)
Professor RC Gupta (Jhansi)
Professor Takayo Hayashi (Japan)
Dr P Ram Manohar (Coimbatore)
Dr Cristina Pecchia (Austria)
Dr Jahnvi Phalkey (London)
Professor Dhruv Raina (Delhi)
Professor SR Sarma (Germany)
Dr BK Sen (Delhi)
Dr Rajinder Singh (Germany)
Professor TM Srinivasan (Chennai)
Professor MS Sriram (Chennai)
Professor GC Tallur (Dharwad)
Professor Jaime Wisnaiik (Israel)
Mr. Madhvendra Narayan, Associate Editor & Member Secretary (Delhi)

G. Biographical Memoirs
Professor DM Banerjee, FNA (Editor)
II. ADVISORY COMMITTEES 2016

A. Inter-Academy Exchange
Professor R Gadagkar, President (Chairperson)
Professor Kankan Bhattacharyya, Vice-President
Professor SC Lakhota, Vice-President
Professor JP Mittal, Vice-President
Professor Rajendra Prasad, Vice-President
Professor R Ramaswamy, Vice-President
Dr Chandrima Shaha, Vice-President
Professor SC Dutta Roy
Professor JP Khurana
Professor IBS Passi
Professor V Rajamani
Representative from DST

B. Advisory Committee for Science Promotion
Professor R Gadagkar, President (Chairperson)
Professor Kankan Bhattacharyya, Vice-President
Professor SC Lakhota, Vice-President
Professor JP Mittal, Vice-President
Professor Rajendra Prasad, Vice-President
Professor R Ramaswamy, Vice-President
Dr Chandrima Shaha, Vice-President
Professor SC Dutta Roy
Professor JP Khurana
Professor IBS Passi
Professor V Rajamani

C. Advisory Committee for Science and Society
Professor R Gadagkar, President (Chairperson)
Professor Kankan Bhattacharyya, Vice-President
Professor SC Lakhota, Vice-President
Professor JP Mittal, Vice-President
Professor Rajendra Prasad, Vice-President
Professor R Ramaswamy, Vice-President
Dr Chandrima Shaha, Vice-President
Dr Sher Ali
Professor Alok Bhattacharya
Professor K Muralidhar
Professor BK Thelma

D. Indian National Commission for History of Science
Professor R Gadagkar, President (Chair)
Professor Kankan Bhattacharyya, Vice-President
Professor Rajendra Prasad, Vice-President
Professor R Ramaswamy, Vice-President
Dr AK Bag, Advisor
Professor D Balasubramanian
Committees 2016

Dr Baldev Raj
Professor Prajit Kumar Basu
Professor Deepak Kumar
Professor Nibir Mandal
Professor Harbans Mukhia
Dr S Balachandra Rao (Bengaluru)
Dr P Rama Rao
Dr VVS Sarma
Professor Vibha Tripathi

E. Research Council for History of Science
Professor D Balasubramanian, FNA (Chair)
Dr AK Bag, Advisor
Dr John Bosco Lourdusamy
Dr P Ram Manohar
Professor Kamlesh Mohan
Hakim Syed Zillur Rahman
Dr K Ramasubramanian
Dr Satpal Sangwan
Professor Smritikumar Sarkar
Professor Vasant Shinde
Dr BS Shylaja
Professor Raman Sukumar

F. Panel for Science Education
Professor SC Lakhota, Vice-President (Convener)
Professor Kankan Bhattacharyya, Vice-President
Professor JP Mittal, Vice-President
Professor Rajendra Prasad, Vice-President
Professor R Ramaswamy, Vice-President
Dr Chandrima Shaha, Vice-President
Professor JP Khurana
Professor DP Sarkar
Professor BK Thelma

G. Committee for Archives
Professor R Gadagkar, President (Chair)
Professor Kankan Bhattacharyya, Vice-President
Professor SC Lakhota, Vice-President
Professor JP Mittal, Vice-President
Professor Rajendra Prasad, Vice-President
Professor R Ramaswamy, Vice-President (Convener)
Dr Chandrima Shaha, Vice-President
Professor JP Khurana
Professor Anurag Sharma

H. Inter Academy Panel for DST INSPIRE Programme
Professor SC Dutta Roy, FNA (Chair)
Professor JP Khurana
Professor LS Shashidhara
I. **INSA Teachers Award Committee 2016**

Professor S Chandrasekharan 2016
Professor SC Dutta Roy 2016
Professor LS Shashidhara 2016
Professor SN Chitre 2017
Professor K Muralidhar 2017
Professor IBS Passi 2017
Professor SC Lakhotia, *Vice-President* 2018
Professor Nibir Mandal 2018
Professor R Ramaswamy, *Vice-President (Chair)* 2018
I. National Committees for International Council for Science (ICSU) & its affiliated Unions and Committees (January 1, 2016 to December 31, 2019)

INDIAN NATIONAL COMMITTEE FOR ICSU

Professor R Gadagkar, President, INSA, *Chairman*
Dr Chandrima Shaha, *Vice-President* (International Affairs) INSA, *Member-Secretary*
Chairpersons of the National Committees corresponding to the International Unions/Committees, *Members*
Professor Rajendra Prasad, *Vice-President* (Resource Management), INSA, *Member*
Professor JP Mittal, *Vice-President* (Fellowship Affairs), INSA, *Member*

I. National Committee for International Union of Pure & Applied Biophysics (IUPAB)
1. Professor NR Jagannathan, FNA, *Chairman*
2. Professor Rajiv Bhat, JNU, New Delhi, *Member*
3. Dr SG Kulkarni, Department of Biophysics, Government Institute of Science, Aurangabad, *Member*
4. Professor P Karthe, University of Madras, Chennai, *Member*
5. Professor Dhananjay Bhattacharya, Saha Institute, Kolkata, *Member*

II. National Committee for International Union of Crystallography (IUCr)
1. Dr Shekhar C Mande, FNA, *Chairman*
2. Dr Rajnikant, Professor, Jammu University, Jammu, *Member*
3. Professor B Gopal, IISc, Bengaluru, *Member*
4. Dr AK Tyagi, Professor, Chemistry Division, BARC, Trombay, Mumbai, *Member*
5. Dr Punit Kaur, AIIMS, New Delhi, *Member*

III. National Committee for International Union of Pure & Applied Chemistry (IUPAC)
1. Professor V Chandrasekhar, FNA, *Chairman*
2. Professor VK Singh, FNA, *Member*
3. Professor GP Pandey, FNA, *Member*
4. Professor Uday Maitra, FNA, *Member*
5. Professor A Ajayaghosh, FNA, *Member*

IV. National Committee for International Union of Pure & Applied Physics (IUPAP)
1. Professor Deepak Mathur, FNA, *Chairman*
2. Professor RC Budhani, FNA, *Member*
3. Professor SN Kaul, FNA, *Member*
4. Professor Debajyoti Chowdhury, FNA, *Member*
5. Professor Priya Mahadevan, SN Bose Centre, Kolkata, *Member*
V. **National Committee for International Astronomical Union (IAU)**
1. Professor Chanda Jayant Jog, FNA, *Chairman*
2. Professor Jayaram Chengalur, NCRA, Pune, *Member*
3. Professor Biman Nath, RRI, Bengaluru, *Member*
4. Professor DK Ojha, TIFR, Mumbai, *Member*
5. Professor TR Seshadri, Department of Physics, Delhi University, *Member*

VI. **National Committee for International Union of Biochemistry and Molecular Biology (IUBMB)**
1. Dr Pijush K Das, FNA, *Chairman*
2. Dr Madhu Dikshit, FNA, *Member*
3. Dr Ranjan Sankaranarayana, FNA, *Member*
4. Professor Rentala Madhubala, FNA, *Member*

VII. **National Committee for International Union of Microbiological Societies (IUMS)**
1. Dr Amit Ghosh, FNA, *Chairman*
2. Professor Rup Lal, FNA, *Member*
3. Dr Anil K Prasad, Chairman, Influenza Foundation of India, Saket, New Delhi, *Member*
4. Dr Manish Kakkar, Senior Public Health Specialist (Communicable Diseases), Public Health Foundation of India, Gurgaon, *Member*
5. Dr Balachandran Ravindran, Director, Institute of Life Sciences, Bhubaneswar, *Member*

VIII. **Joint National Committee for International Union of Geodesy & Geophysics (IUGG) & International Geographical Union (IGU)**
1. Professor Harsh Gupta, FNA, *Chairman*
2. Dr G Parthasarathy, FNA, *Member*
3. Dr VM Tiwari, Director, ESSO-National Centre for Earth Science Studies, MoES, Thiruvananthapuram, *Member*
4. Dr SSC Shenoi, Director, INCOIS, Hyderabad, *Member*
5. Dr BR Arora, MoES, Prithvi Bhawan, New Delhi, *Member*
6. Professor AP Dimri, School of Environmental Sciences, JNU, New Delhi, *Member*
7. Dr Ajay Manglik, Chief Scientist, NGRI, Hyderabad, *Member*
8. Professor N Nagabhushanam, Department of Geography, SV University, Tirupati, *Member*
IX. Joint National Committee for International Union of Geological Sciences (IUGS) and International Quaternary Research (INQUA). (The term of IUGS-INQUA NC will be for five years i.e. till December 2020).

1. Professor AK Singhvi, FNA, Chairman
2. Professor DM Banerjee, FNA, Member
3. Professor Talat Ahmad, FNA, Member
4. Professor Somnath Dasgupta, FNA, Member
5. Professor Sunil Bajpai, Director, BSIP, Lucknow, Member
6. Director, NGRI, Member
7. ONGC Nominee, Member
8. MoES Nominee, Member
9. MoM/GSI Nominee, Member

X. National Committee for International Union of Theoretical & Applied Mechanics (IUTAM)

1. Professor Sanjay Mittal, FNA, Chairman
2. Professor Santosh Kapuria, FNA, Member
3. Professor VD Sharma, FNA, Member
4. Professor SJ Singh, FNA, Member
5. Professor BS Padmavathi, Department of Mathematics, University of Hyderabad, Member
6. Professor GP Raja Sekhar, Department of Mathematics, IIT Kharagpur, Member

XI. National Committee for International Mathematical Union (IMU)

1. Professor TR Ramadas, FNA, Chairman
2. Professor RB Bapat, FNA, Member
3. Professor Kapil Paranjape, FNA, Member
4. Professor Mahan Maharaj, Vivekanand University, Kolkata, Member
5. Professor Kaushal Verma, IISc Bengaluru, Member

XII. National Committee for International Union of Nutritional Sciences (IUNS)

1. Dr Prema Ramachandran, Director, Nutrition Foundation of India, New Delhi, Chairperson
2. Professor Jamuna Prakash, University of Mysore, Mysore, Member
3. Dr Sheela Ramachandran, Vice Chancellor, Avinashilingam University for Women, Coimbatore, Member
4. Dr R Hemalatha, NIN, Hyderabad, Member
5. Dr Pulkit Mathur, Lady Irwin, Delhi, Member
6. Dr Rajoo Singh Chinna, Ludhiana, Member
XIII. **Joint National Committee for International Union of Physiological Sciences (IUPS) & International Union of Pharmacology (IUPHAR)**

1. Professor Chinmoy Sankar Dey, FNA, *Chairman*
2. Professor YK Gupta, Head, Department of Pharmacology, AIIMS, New Delhi, *Member*
3. Dr Rashmi Mathur, Head, Department of Physiology, AIIMS, New Delhi, *Member*
4. Dr C Nath, Scientist, Head of Toxicology Division, CDRI, Lucknow, *Member*
5. Professor C Aditithan, Head, Department of Pharmacology, JIPMER, Pondicherry, *Member*

XIV. **National Committee for International Union of Food Science and Technology (IUfoST)**

1. Dr PG Rao, VC, Manipur University, Manipur, *Chairman*
2. Dr V Prakash, Former Director, CFTRI, Mysore, *Member*
3. Dr AG Appu Rao, Emeritus Scientist, University of Mysore, *Member*
4. Dr M Muralikrishna, Former Chairman of Modern Bakeries (GOI), Hyderabad, *Member*
5. Dr TK Srinivasa Gopal, Former Director, CIFT, Cochin, *Member*

XV. **National Committee for Scientific Committee on Antarctic Research (SCAR)**

1. Dr Shailesh Nayak, MoES, Prithvi Bhawan, New Delhi, *Chairman*
2. Dr NC Pant, Delhi University, Delhi, *Member*
3. Dr Rahul Mohan, NCAOR, Goa, *Member*
4. Dr A Ganju, Director, Snow & Avalanche Study Estt. (SASE), DRDO, Chandigarh, *Member*
5. Dr Sathyakumar, Wild Life Institute of India, Dehradun, *Member*

XVI. **National Committee for Scientific Committee on Oceanic Research (SCOR)**

1. Professor MM Sarin, FNA, *Chairman*
2. Professor D Sengupta, CAOS, IISc, Bengaluru, *Member*
3. Dr K Somasundar, Scientist G, MoES, New Delhi, *Member*
4. Dr VVSS Sarma, NIO, Visakhapatnam, *Member*
5. Dr AC Anil, NIO, Goa, *Member*

XVII. **Joint National Committee for Committee on Space Research (COSPAR), International Union of Radio Science (URSI) and Scientific Committee on Solar-Terrestrial Physics (SCOSTEP)**

1. Dr GS Lakhina, FNA, *Chairman*
2. Dr Anil Bharadwaj, FNA, *Member*
3. Dr A Patra, NARI, Gadanki, *Member*
4. Dr S Seetha, ISRO HQ, Bengaluru, *Member*
5. Dr D Guha, Institute of Radio Physics & Electronics, Kolkata University, *Member*
6. Dr P Janardhan, PRL, Ahmedabad, *Member*
XVIII. Joint National Committee for International Geosphere-Biosphere Programme (IGBP), World Climate Research Programme (WCRP) (Proposed Future Earth Committee)
1. Professor K Krishna Moorthy, FNA, *Chairman*
2. Dr M Dileep Kumar, FNA, *Member*
3. Professor Anindya Sarkar, FNA, *Member*
4. Professor M Rajeevan, IITM Pune, *Member*
5. Dr RR Yadav, BSIP, *Member*
6. Dr Thamban Meloth, NCAOR, *Member*

XIX. National Committee for International Union of Biological Sciences (IUBS)
1. Professor Usha Vijayraghavan, FNA, *Chairperson*
2. Dr Gaiti Hasan, FNA, *Member*
3. Dr Rakesh Mishra, FNA, *Member*
4. Professor Anil Grover, FNA, *Member*
5. Professor RM Borges, FNA, *Member*

XX. National Committee for Committee on Data for Science and Technology (CODATA)
1. Dr Anil Kumar, FNA, *Chairman*
2. Dr Debasisa Mohanty, FNA, *Member*
3. Dr Usha Munshi, IIPA, New Delhi, *Member*
4. Dr RR Hirwani, CSIR Unit for Research & Development of Information Products (URDIP), Pune, *Member*
5. Dr Arnab Bhattacharya, CSE, IIT Kanpur, *Member*

Scientists holding position in the Executive Board of International Union/Committee and President (or his representative) of the National Scientific society corresponding to the INSA National Committee will be ex-officio member of the National Committees.
# SECTIONAL COMMITTEES 2016

## SECTIONAL COMMITTEE I: Mathematical Sciences

- **Bujurke NM** 2016
- **Mukerjee Rahul** 2016
- **Sunder VS** 2016
- **Joseph KT** 2017
- **Radhakrishnan J** 2017
- **Verma JK** 2017
- **Dey Aloke** 2018
- **Rao RA** 2018
- **Srinivas Vasudevan** 2018
- **(Secretary & Convener)**

## SECTIONAL COMMITTEE II: Physics

- **Bhat SV** 2016
- **Maharana J** 2016
- **Mathur Deepak** 2016
- **Antia HM** 2017
- **Puri Sanjay** 2017
- **Singh Yaswant** 2017
- **Chowdhury Debashish** 2018
- **Gupta Sourendu** 2018
- **Kailas S** 2018
- **(Secretary & Convener)**

## SECTIONAL COMMITTEE III: Chemical Sciences

- **Dogra SK** 2016
- **Singh HB** 2016
- **Pandey GP** 2016
- **Chattaraj PK** 2017
- **Palaniandavar M** 2017
- **Ranu BC** 2017
- **Bharadwaj PK** 2018
- **Chandrasekhar S** 2018
- **Kumar Anil** 2018
- **(Secretary & Convener)**

## SECTIONAL COMMITTEE IV: Earth & Planetary Sciences

- **Ahmad Talat** 2016
- **Satheesh SK** 2016
- **Krisha KS** 2017
- **Parthasarathy G** 2017
- **Srivastava DC** 2017
- **Mohanty UC** 2018
- **Prasad GVR** 2018
- **Sarkar Anindya** 2018
- **(Secretary & Convener)**

## SECTIONAL COMMITTEE V: Engineering & Technology

- **Chakrabarti PP** 2016
- **Desai UB** 2016
- **Gupta NK** 2016
- **Biswa Gautam** 2017
- **Mallik RK** 2017
- **Mittal Sanjay** 2017
- **Madras Giridhar** 2018
- **Narahari Yadati** 2018
- **Pal NR** 2018
- **(Secretary & Convener)**

## SECTIONAL COMMITTEE VI: Material Sciences & Engineering

- **Bhowmick AK** 2016
- **Ranganathan Srinivasa** 2016
- **Sundararajan G** 2016
- **Raychaudhuri AK** 2017
- **Sundar CS** 2017
- **Waghmare UV** 2017
- **Ghosh Aswini** 2018
- **Murty BS** 2018
- **Ramamurty Upadrasta** 2018
- **(Secretary & Convener)**
### SECTIONAL COMMITTEE VII : Plant Sciences

<table>
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<tr>
<td>Ahuja PS</td>
<td>2016</td>
<td>Sanjappa M</td>
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<td>Tyagi Akhilesh K</td>
<td>2016</td>
<td>Siddiqi Imran</td>
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<td>Veluthambi K</td>
<td>2016</td>
<td>Khurana Paramjit</td>
<td>2018</td>
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<tr>
<td>(Secretary &amp; Convener)</td>
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<td>Kohli RK</td>
<td>2018</td>
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<tr>
<td>Rajasekharan Ram</td>
<td>2017</td>
<td>Rai Lal Chand</td>
<td>2018</td>
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### SECTIONAL COMMITTEE VIII : Animal Sciences

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<tr>
<td>Bamezai RNK</td>
<td>2016</td>
<td>Joshi Amitabh</td>
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<tr>
<td>(Secretary &amp; Convener)</td>
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<td>Joy KP</td>
<td>2017</td>
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<td>Jairajpuri MS</td>
<td>2016</td>
<td>Dutta Gupta Aparna</td>
<td>2018</td>
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<tr>
<td>Watve MG</td>
<td>2016</td>
<td>Mahale Smita Dilip</td>
<td>2018</td>
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<td>Dighe RR</td>
<td>2017</td>
<td>Roy Syamal</td>
<td>2018</td>
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### SECTIONAL COMMITTEE IX : Microbiology & Immunology

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<tr>
<td>Chakraborti PK</td>
<td>2016</td>
<td>Ghosh Balaram</td>
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<td>Madhubala Rentala</td>
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<td>Tyagi JS</td>
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<td>Raghavendra AS</td>
<td>2016</td>
<td>Kasbekar DP</td>
<td>2018</td>
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<tr>
<td>(Secretary &amp; Convener)</td>
<td></td>
<td>Nagaraja V</td>
<td>2018</td>
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<td>Durga Rao C</td>
<td>2017</td>
<td>Tripatha AK</td>
<td>2018</td>
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### SECTIONAL COMMITTEE X: Cell and Biomolecular Sciences

<table>
<thead>
<tr>
<th>Name</th>
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<td>Bachhawat AK</td>
<td>2016</td>
<td>Mohanty Debasisa</td>
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<tr>
<td>Krishnamoorthy G</td>
<td>2016</td>
<td>Sarkar DP</td>
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<tr>
<td>Mohan Rao C</td>
<td>2016</td>
<td>Bhattacharya Sudha</td>
<td>2018</td>
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<tr>
<td>(Secretary &amp; Convener)</td>
<td></td>
<td>Chattopadhyay Samit</td>
<td>2018</td>
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<td>Mande SC</td>
<td>2017</td>
<td>Sankaranarayanan Rajan</td>
<td>2018</td>
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### SECTIONAL COMMITTEE XI : Health Sciences

<table>
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<th>Name</th>
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<tr>
<td>Chakrabarti Sekhar</td>
<td>2016</td>
<td>Salotra Poonam</td>
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<tr>
<td>Chaturvedi UC</td>
<td>2016</td>
<td>Dikshit Madhu</td>
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<td>Mishra AC</td>
<td>2016</td>
<td>Kondaiah Paturu</td>
<td>2018</td>
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<tr>
<td>Kar Premashis</td>
<td>2017</td>
<td>Sinha Subrata</td>
<td>2018</td>
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<tr>
<td>Mohan Viswanathan</td>
<td>2017</td>
<td>(Secretary &amp; Convener)</td>
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### SECTIONAL COMMITTEE XII : Agricultural Sciences

<table>
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<th>Name</th>
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<tbody>
<tr>
<td>Chattoo BB</td>
<td>2016</td>
<td>Nautiyal CS</td>
<td>2017</td>
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<tr>
<td>(Secretary &amp; Convener)</td>
<td></td>
<td>Pradhan AK</td>
<td>2017</td>
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<tr>
<td>Mohapatra T</td>
<td>2016</td>
<td>Joshi AK</td>
<td>2018</td>
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<tr>
<td>Nagarajan S</td>
<td>2016</td>
<td>Sharma TR</td>
<td>2018</td>
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<tr>
<td>Datta SK</td>
<td>2017</td>
<td>Varshney RK</td>
<td>2018</td>
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RULES OF
THE INDIAN NATIONAL SCIENCE ACADEMY

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NAME
1. The Society shall be called the Indian National Science Academy.

OBJECTIVES
2. The main objectives of the Indian National Science Academy are:

(a) Promotion of scientific knowledge in India including its practical application to problems of national welfare.

(b) Coordination among Scientific Academies, Societies, Institutions, Government Scientific Departments and Services.

(c) To act as a body of scientists of eminence for the promotion and safeguarding of the interests of scientists in India and to present internationally the scientific work done in the country.

(d) To act through properly constituted National Committees, in which other learned academies and societies may be associated, for undertaking scientific work of national and international importance which the Academy may be called upon to perform by the public and by the Government.

(e) To publish such proceedings, journals, memoirs and other publications as may be found desirable.

(f) To promote and maintain liaison between Science and Humanities.

(g) To secure and manage funds and endowments for the promotion of Science.

(h) To perform all other acts that may assist in, or be necessary for the fulfilment of the above mentioned objectives of the Academy.

CONSTITUTION
3. The Academy shall consist of Fellows, Foreign Fellows and Pravasi Fellows.

(a) Fellows: those who are elected according to rules of election and admission of Fellows.

(b) Foreign Fellows: those who shall be persons eminent for their knowledge of, or contributions to science, or the welfare thereof, and domiciled outside the territorial limits of India, who have in some way contributed or can contribute to the progress of science in the country. Persons of all countries other than India shall be eligible for the Foreign Fellowship of the Academy.

(c) Pravasi Fellows: those who shall be persons eminent for their knowledge of, or contributions to science, or the welfare thereof, who have in some way contributed or can contribute to the progress of science in the country. Persons of Indian Origin with foreign passport (residing within or outside territorial limits of the country) or with Indian passport (residing outside the territorial limits of India) shall be eligible for the Pravasi Fellowship of the Academy.
ADMINISTRATION AND OFFICERS

4. The administration, direction and management of the affairs of the Academy shall be entrusted to a Council composed of the Board of Officers of the Academy, namely, a President and six Vice-Presidents and 20 other Fellows making a total of 27. The Vice-Presidents will have collective as well as independent responsibilities and they will be designated as: Vice-President (Fellowship Affairs); Vice-President (Science Promotion); Vice-President (Resource Management); Vice-President (International Affairs); Vice-President (Publications/Informatics) and Vice-President (Science and Society). In addition, there shall be a provision for Additional Members of the Council, one each to be nominated by the cooperating Academies i.e., the Asiatic Society, Kolkata; the National Academy of Sciences (India), Allahabad, and the Indian Science Congress Association from amongst the Fellows of the Academy. Further, there shall be a provision for the Government of India to nominate, from amongst the Fellows of the Academy, their representative on the Council as an additional member.

5. No Council member can hold more than one Office at a time except in circumstances relating to interim vacancies stated in rule 28.

ELECTION AND ADMISSION OF FELLOWS

6. The election of Fellows shall be governed by Regulations framed by the Council, but these Regulations shall provide for the following points, from which a departure can be made only after reference to all the Fellows of the Academy:

(a) Eligibility for election to the Fellowship shall be restricted to Indian citizens.

(b) The number of Fellows elected shall be limited to 40 annually, till such time as the total number of living Fellows reaches 1000.

(c) Each nominee shall be proposed, seconded by two Fellows on a form prescribed for the purpose. Of these, at least one shall certify from personal knowledge of his/her scientific attainments. The Vice-President (Fellowship Affairs) shall have the power to sign a certificate on behalf of a Fellow not resident in India on receiving written request from him/her.

(d) The selection from the total list of the nominees proposed to the Academy shall be made by the Council from amongst those recommended by Sectional Committees, following a prescribed set of regulations framed by the Council for this purpose. The election shall be conducted by postal ballots, papers for which will be sent to every Fellow, as per the Regulations framed by the Council.

(e) Persons who, in the opinion of the Council, have either rendered conspicuous service to the cause of science or whose election would be of signal benefit to the Academy could also be elected to the Fellowship provided that not more than two persons shall be so elected in any year, and that if two persons be elected in any year, there shall be no selection under this category in the following year.

7. The Vice-President (Fellowship Affairs) shall send a written announcement of the election to the persons who have been duly elected, and shall therewith send (i) the Obligation Form to be signed and (ii) a copy of current Rules and Regulations.
8. An admission fee and Fellowship subscription shall be due on election from the persons elected as Fellows. If the admission fee and Fellowship subscription are not paid within two months of the intimation of his/her election as Fellow, such election shall become inoperative. Provided that, the Council shall have power to reinstate him/her with full privileges after the admission fee and Fellowship subscription have been paid within a period not exceeding twelve months from the date of his/her election. In the case of a Fellow elected under the provisions of Rule 6(e), the Council may, at its discretion waive off payment of admission fee and Fellowship subscription.

9. No person, although duly elected according to the Rules and Regulations of the Academy, shall be entitled to exercise the rights and privileges of Fellowship, nor shall his/her name be entered in the list of Fellows, until he/she has paid admission fee and Fellowship subscription and until he/she has signed and returned the Obligation Form.

10. Effective Fellowship shall commence after the payment of the admission fee and Fellowship subscription and the signature of the Obligation Form and shall be equivalent to the expression of a direct acquiescence to the Rules and Regulations of the Academy then in existence, and of an undertaking to be bound by them and by Rules and Regulations as may thereafter be passed, as hereinafter provided.

11. Every new Fellow who has paid the admission fee and Fellowship subscription, and has returned the Obligation Form, duly signed and addressed to the Vice-President (Fellowship Affairs) shall, at the first General Meeting which he/she attends, be presented by a Fellow to the Chairperson who addressing him/her by name shall say, ‘In the name and by the authority of the Indian National Science Academy, I admit you a Fellow thereof’, and will present him/her with diploma in a form prescribed by the Council certifying his/her election to the Academy, after which the Fellow shall subscribe to a duplicate of the aforesaid Obligation in a book to be kept for the purpose.

THE OBLIGATION TO BE SUBSCRIBED

12. Every person elected a Fellow of the Academy shall, before his/her admission, subscribe to the Obligation in the following words:

As a Fellow of the Indian National Science Academy I shall follow the code of scientific ethics, maintain integrity in research and publications, uphold the cause of science and the dignity of the Academy, endeavour to be objective in my judgement and strive for the enrichment of human values and thoughts.

(Signed)

ELECTION OF FOREIGN FELLOWS AND PRAVASI FELLOWS

13. The Procedure for Election of Foreign Fellows and Pravasi Fellows

(a) The procedure of electing Foreign Fellows shall be as prescribed in the Regulations framed by the Council from time to time but the number shall be limited to 150 and not more than six will be elected each year. No admission fee or Fellowship subscription shall be due from Foreign Fellows.
(b) The procedure of electing Pravasi Fellows shall be as prescribed in the Regulations framed by the Council from time to time but the number shall be limited to 150 and not more than six will be elected each year. No admission fee or Fellowship subscription shall be due from Pravasi Fellows.

**RIGHTS AND PRIVILEGES OF FELLOWS**

14. Fellows shall be entitled to the following rights and privileges:-

(a) To be present and vote at all General Meetings.
(b) To propose and recommend nominees for Fellowship.
(c) To propose persons for the awards of the Academy.
(d) To have personal access to the Library of the Academy.
(e) To take out books, plates, drawings, manuscripts, etc., from the Library, subject to such Regulations as may be prescribed by the Council.
(f) To receive gratis any one of the three journals *viz.*, Proceedings of the Indian National Science Academy, Indian Journal of Pure and Applied Mathematics (*IJPAM*) and Indian Journal of History of Science (*IJHS*). In addition, memoirs of INSA Fellows and copies of such other INSA publications as the Council may decide from time to time and, subject to the direction of the Council, to purchase, at a reduced price any of the Academy’s publications.

15. Fellows living outside the territorial limits of India shall be entitled to the privileges contained in clauses (a), (b), (c), (d) and (f) of the preceding Rule and to serve on any committee appointed by the Council but they shall not be entitled to vote except on such committee.

16. Foreign Fellows and Pravasi Fellows shall be entitled to the privileges contained in Clause (a), (d) and (f) of Rule 14 and to serve on any Committee appointed by the Council but they shall not be entitled to vote except on such Committee.

**CESSATION OF FELLOWSHIP**

17. Any Fellow may withdraw from the Academy by signifying his wish to do so, by a letter addressed to the Vice-President (Fellowship Affairs).

18. A letter of withdrawal may be cancelled by the Vice-President (Fellowship Affairs) at the request of the sender within six months of its receipt, and he/she shall thereupon recover all rights of Fellowship. The Council shall have power to waive, in special cases, the limit of six months specified above.

19. Any Fellow who ceases to be a Fellow of the Academy, either by voluntary withdrawal or by forfeiture of his/her Fellowship, shall continue to be liable for payment of sums (if any) due from him/her to the Academy and shall return all books, material or other property (if any) borrowed by him/her from the Academy, or shall make full compensation if lost, damaged, or not forthcoming.

20. Fellows who have withdrawn from the Academy shall be eligible for re-election according to Rule 6. If re-elected, only the admission fee shall be due from them.
21. If any Fellow of the Academy shall wilfully disobey Rules or Orders of the Academy or Council, or shall commit wilful breach of order at any of the General Meetings, or having unwittingly committed, shall persist in any disobedience or breach of order, after being admonished by the President, or if for any other reasons it shall appear to the Council that the name of a Fellow should not remain on the rolls, he/she shall be liable to be removed from the Academy. Whenever there shall appear cause as aforesaid, for the removal of a Fellow from the Academy, if a majority of the Council shall, after due deliberation determine by ballot, to propose to the Academy the removal of the said Fellow, the President shall, at any General Meeting of the Academy, announce from the Chair such determination of the Council, and at the next meeting after that at which the said announcement has been made, the proposition shall be submitted to ballot. If three-fourth of the Fellows present and voting at such General Meeting vote for the removal of such Fellow, he/she shall be removed from the Academy.

22. Fellow removed under the operation of Rule 21 shall not be eligible for renomination without the Council’s approval.

23. The demise of a Fellow/Foreign Fellow/Pravasi Fellow of the Academy shall be recorded and announced from the Chair at the next General Meeting of the Academy.

THE COUNCIL & OFFICERS

24. The election of Officers and other Members of the Council shall take place at the Annual General Meeting of the Academy.

25. The Council shall prepare in accordance with the following procedure, a list of names of those persons whom they recommend for election as Officers and other members of the Council for the ensuing year:

(i) The Council shall determine the vacancies that will occur among Board of Officers and other Members of the Council during the ensuing year as per Rule 26 and 27.

(ii) The list of the Council Members for the current and the two preceding years along with the list indicating vacancies that will occur in the ensuing year, shall be circulated to all Fellows for inviting suggestions regarding the filling up of vacancies.

(iii) The suggestion received shall be circulated to the members of the Council for expression of views. This will be considered by the Council when the final nominations shall be made out of the names suggested. While the nominations are discussed, members of the Council who are being considered for the position of the President shall not participate in the selection procedure for this position.

(iv) The list of names recommended by the Council for election for the ensuing year shall be sent by post as a ballot paper to each Fellow of the Academy at least one month before the date of Annual General Meeting of the Academy. The ballot paper shall have blank column for such alternations as any Fellow may wish to make. The ballot papers shall be returned to the Academy at least a week before the date fixed for the Annual General Meeting.
The manner of election shall be as follows:

(a) Two scrutineers shall be appointed by the Chairperson with the approbation of the majority of the Fellows present.

(b) The scrutineers shall count the ballot papers, and shall report to the Chairperson the names of those having a majority of votes for election as Officers and other Members of the Council of the Academy and these names shall be announced from the Chair as duly elected.

(c) If any ballot paper contains more than the proper number of names, or includes the name of a scientist who is not eligible, it shall be void, and shall not be regarded by the scrutineers.

(d) If there be an equal number of votes for any two or more nominees, the scrutineers shall announce the fact, and the Chairperson shall proceed to decide by lot which nominee shall have preference.

The new Council shall assume office after the conclusion of the Anniversary General Meeting.

26. The President of the Academy shall be eligible to hold office for a period of three consecutive years. After the end of the term of the President, he/she will not be eligible for re-election to the membership of the Council or any office of the Council.

27. The retiring members and the Vice-Presidents shall not be eligible to the membership of the Council or to any office of the Council until after a lapse of three years from the date of their retirement except as provided under Rule 28(f). The retirement shall be decided by seniority except in so far as vacancies have not otherwise occurred. In the event of equal seniority, the seniority will be decided by lots. Notwithstanding this, all retiring and incumbent members and Vice-Presidents of the Council are, however eligible for election to the Office of the President.

28. (a) For a vacancy occurring in the office of the President or office of any of the six Vice-Presidents, the remaining members of the Council shall be competent to fill up such vacancy for the remaining period of that position from the existing members of the Council, subject to its confirmation by the subsequent General Meeting.

(b) If a vacancy occurs amongst the members of the Council the remaining members of the Council shall be authorised to fill up such vacancy from the Fellows of the Academy, subject to its confirmation by the subsequent General Meeting.

(c) Interim Vacancies shall be filled by the Council only for the unexpired period.

(d) During his/her absence, for whatever cause, the President shall nominate senior most Vice-President to perform functions of the President and sign papers until his/her return, subject to its confirmation by the Council at the first opportunity.

(e) If one of the Vice-Presidents, is unable to perform his/her duties, the President shall nominate one of the members of the Council to perform such duties and sign papers, until his/her return, subject to its confirmation by the Council at the first opportunity.
(f) Any member, who has served the Council for not more than one year, either as an additional member or interim vacancy, will be eligible to be elected for a full term of three years.

29. The Council, as constituted in accordance with these Rules, shall continue in office notwithstanding the fact that their period of office may have, in fact, expired, until their successors have been duly appointed.

POWERS AND DUTIES OF THE COUNCIL

30. The powers and duties of the Council shall be as follows:

(a) To manage the affairs of the Academy, and for this purpose to make such Regulations and Guidelines as may appear conducive to the good administration of the Academy and the attainment of its objectives, provided that Regulations and Guidelines are not inconsistent with anything contained in these Rules. The Council is empowered to revise or alter any of the Regulations. The Guidelines of the Academy could be revised or altered by the Board of Officers and reported to the Council.

(b) To consider communications to the Academy, which in the opinion of the President, cannot be dealt with under the present Regulations and Guidelines, and in the case of those to be submitted to General Meeting, to determine the order and manner of such submission.

(c) To superintend and direct the publication of the periodicals or other works published by the Academy.

(d) To appoint as many salaried employees as deemed necessary and to define their duties, allowances, salaries, gratuities and privileges, recruitment rules, terms and conditions of service and procedures, to suspend or dismiss them or dispense with their services, as the occasion may require.

(e) To exchange for other property, or otherwise dispose of in such a manner as may, in their opinion, advance the objectives and interest of the Academy, any duplicate books, maps, specimens etc., belonging to the Academy.

(f) To prepare and submit to the Annual General Meeting a report on the general concerns of the Academy. A copy of this report along with the audited statement of accounts for the year ending March 31, and the estimated income and expenditure for the succeeding year, shall be placed on the table for information of Fellows present and shall be made available to all Fellows.

(g) The Council may appoint, from the General Body of Fellows, Committees for the consideration of special items and subjects within the purview of the Academy. The Council may also appoint Foreign Fellows, Pravasi Fellows and other distinguished persons who are competent and well-versed in the subject to be Members of such Committees. The Council may appoint Chairman/Secretaries/Conveners for such Committees. The Council will have power to define the duties, tenure and to dissolve any existing committee.
(h) The Council shall be empowered, subject to the sanction of a General Meeting, to take legal proceedings for recovery of any sums due from Fellows who, after receiving the notice of their liabilities, refuse or fail to comply.

**MEETINGS OF THE COUNCIL AND OF COMMITTEES APPOINTED BY THE COUNCIL**

31. The following Rules shall be applicable to Meetings of the Council:-

(a) The Council shall meet at such times as may be deemed advisable, and may make such Regulations not inconsistent with these Rules as they may think proper for the transaction of business at such Meetings. There shall be at least three statutory Meetings of the Council and three General Meetings every year. However, if the transaction of business demands more meetings, these may be called by the President by giving one month’s notice.

(b) The President may also summon a Special Meeting of the Council giving notice to all other Members.

(c) Ten members shall form a quorum for the Statutory Meeting of the Council. No quorum is needed for a Non-Statutory Meeting of the Council.

(d) The President or in his/her absence, one of the Vice-Presidents shall take the chair. If neither the President nor one of the Vice-Presidents be present within fifteen minutes after the hour appointed for the meeting, the Fellows present shall elect a Chairperson.

(e) The ordinary method of voting shall be by show of hands, but the votes shall be taken by ballot on motion to this effect being duly carried, or when the rules provide for such method of voting.

(f) The Chairperson shall be entitled to vote with the other Fellows, and when the votes are equal he/she shall have a second and casting vote.

(g) The voting on any question except when it be one of adjournment, shall, on the demand of any Fellow present, be postponed to the next ensuing meeting provided it has the concurrence of the majority of the Council present.

(h) Minutes of the proceedings of every meeting of Council shall be taken during their progress by Vice-President (Fellowship Affairs) or any other Vice-President present whom the Chairperson shall appoint for the occasion. The Minutes shall afterwards be circulated to the members for the purpose of ascertaining their correctness, and then be entered in a Minute-Book and presented at the next Meeting of the Council and signed by the Chairperson.

32. (a) The Committees appointed by the Council will meet at such time and place as may be decided by the Chairperson/Convener of the Committee.

(b) The Committees will follow the Regulations and Guidelines as may be given to them by the Council.

(c) The minutes of the proceedings of Meetings of such Committees shall be recorded and reported to the Council, if called for.
POWERS AND DUTIES OF THE PRESIDENT

33. The powers and duties of the President shall be as follows:

(a) To preside at all Meetings of the Academy and of the Council, and to regulate the proceedings at such Meetings.

(b) To ensure the implementation of the Rules, Regulations, and Guidelines framed by the Council under Rule 30, Clause (a).

(c) To be ex-officio Member of all the Committees appointed by the Council.

(d) In case of doubt in the interpretation of any Rule, to decide on the interpretation. In such case, the President’s interpretation shall hold until the next Meeting of the Council, when the interpretation of the Rule under consideration will be finally determined.

POWERS AND DUTIES OF THE VICE-PRESIDENTS

34. The powers and duties of the Vice-Presidents shall be as follows:

(a) To preside at Meetings (including the Council Meetings) and to regulate the proceedings in such meetings, in the absence of the President.

(b) To be ex-officio member of Committees appointed by the Council from time to time except the Sectional Committees and other Committees as appointed under Rule 30 (g).

(c) To take responsibility of the activity of the Academy as specified.

POWERS AND DUTIES OF THE VICE-PRESIDENT (RESOURCE MANAGEMENT)

35. In addition to powers and duties common to Vice-Presidents under Rule 34(a), (b) & (c) the Vice-President (Resource Management) shall be responsible for the following:

(a) to receive and hold for the use of Academy, subject to Rule 36, all the money paid to the Academy. He/She shall disburse all the sum due from the Academy and shall supervise in keeping exact accounts of all such receipts and payments.

(b) He/She will be responsible for the Property and the Infrastructural facilities of the Academy.

FUNDS AND ACCOUNTS

36. (a) The accounts and vouchers of the receipt and expenditure of the Academy shall be subject to examination by the Resource Management Committee which shall include two representatives of the Government of India, at such intervals as the Council may prescribe, and shall be subject to the annual audit. Separate Accounts shall be kept of all funds administered by the Academy on behalf of the Government. The annual statement of Accounts shall, after professional audit, be printed in the Annual Report of the Academy.
(b) All financial matters of the Academy including matters affecting the quantum of
the Government grant and those dealing with the conditions of service, recruitment
and promotion, of the staff of the Academy, shall be considered by the Resource
Management Committee before they are placed in the Council for discussion. No
such matter shall be considered by the Council until it has been considered by the
Resource Management Committee.

37. All the sums received from the Fellows as admission fee and Fellowship subscription shall
be regularly invested as per Regulations by the Vice-President (Resource Management)
as soon as possible after the receipt thereof and only the interest accruing therefrom
shall be considered available for the general expenditure of the Academy.

38. All the securities and money of the Academy shall be lodged for safe custody as per
Regulations.

39. The Council shall be competent to decide the Regulations to be followed for maintaining
the financial control of the funds of the Academy.

POWERS AND DUTIES OF THE VICE-PRESIDENT
(FELLOWSHIP AFFAIRS)

40. In addition to powers and duties common to Vice-Presidents under Rule 34 (a), (b) &
(c), and subject to such delegation of duties as may be made in accordance with Rule
45, the Vice-President (Fellowship Affairs) shall be responsible for the following:

(a) To conduct the correspondence of the Academy and of the Council, except where
alternative provisions have been made in the Rules.

(b) To attend the meetings of the Academy and of the Council, to record minutes of
the proceedings of such meetings, to present the minutes and to report the action
taken on the decisions of the previous meeting.

(c) At the General Meetings, to announce the presents made to the Academy since the
last Meeting, and to read the names of nominees for Fellowship.

(d) To prepare for submission to the Annual General Meeting a list of Fellows corrected
up-to-date.

(e) To enter or cause to be entered in the Minute-Book, all the proceedings of Academy
and the Council before the following Meeting, and to see that all letters and papers
and documents of every kind connected with the business of the Academy are
properly filed and preserved.

(f) To exercise general supervision over the employees and affairs of the Academy, to
prepare Guidelines for smooth functioning of the Academy, and to assist in carrying
out the Rules, Regulations and Orders made by the Council under Rule 30.
POWERS AND DUTIES OF THE VICE-PRESIDENT
(INTERNATIONAL AFFAIRS)

41. In addition to powers and duties common to Vice-Presidents under Rule 34 (a), (b) & (c) the Vice-President (International Affairs) shall be responsible for the following:

(a) To conduct correspondence with foreign countries, relating to the business of the Academy, to convey thanks for presents from foreigners made to the Academy and to forward to persons, elected as Foreign Fellows and Pravasi Fellows, a diploma certifying their election to the Academy.

(b) To supervise all matters concerning International Programmes of the Academy and foreign deputations of Indian scientists using grant from the Academy.

POWERS AND DUTIES OF THE VICE-PRESIDENT
(PUBLICATIONS/INFORMATICS)

42. In addition to powers and duties common to Vice-Presidents under Rule 34 (a), (b) & (c), the Vice-President (Publications/Informatics) shall be responsible for the following:

(a) The management of publications of the Academy and matters related to such activities.

(b) He/She will be responsible for the Informatics including Library, Information Technology facilities and maintenance of the Archives of the Academy.

(c) To identify and suggest to the Council, the persons for appointment as Editors/Guest Editors for each of the journals /monographs /special publications of the Academy.

POWERS AND DUTIES OF THE VICE-PRESIDENT
(SCIENCE PROMOTION)

43. In addition to powers and duties common to Vice-Presidents under Rule 34 (a), (b) & (c), the Vice-President (Science Promotion) shall be responsible for the following:

To oversee activities of the History of Science and the Basic Science Research Schemes or any research support programme of the Academy. He/She will provide advice to implement the guidelines formulated by the Council from time to time for completion of the activities related to the schemes.

POWERS AND DUTIES OF THE VICE-PRESIDENT
(SCIENCE AND SOCIETY)

44. In addition to powers and duties common to Vice-Presidents under Rule 34 (a), (b) & (c), the Vice-President (Science and Society) shall be responsible for the following:

To oversee the programmes related to Science and Society. He/She will provide advice to implement the guidelines formulated by the Council from time to time for completion of the activities related to this programme.
DUTIES OF THE EXECUTIVE DIRECTOR

45. The Executive Director shall be responsible for the general administration and for the implementation of the decisions of the Council. He shall act under the general direction of the Officers and will be governed by the Regulations and Guidelines as may be laid down by the Officers. The Executive Director shall be a full time salaried employee of the Academy.

GENERAL MEETINGS OF THE ACADEMY

46. General Meetings of the Academy shall be of four kinds viz:-

(i) Ordinary
(ii) Annual
(iii) Anniversary
(iv) Extraordinary

47. The following Rules shall be applicable to all the General Meetings of the Academy:

(a) Ten Fellows shall constitute a quorum.

(b) The President or in his/her absence, one of the Vice-Presidents shall take the chair. In their absence one of the senior members of the Council present shall take the chair. If neither the President, nor one of the Vice-Presidents nor a member of the Council be present, on the expiration of fifteen minutes after the hour fixed for the meetings, the Fellows present shall proceed to elect a Chairperson.

(c) The business of each Meeting shall be proceeded within the order hereinafter prescribed in Rules 49, 50 and 51, provided always, that on a written notice being given to the President or one of the Vice-Presidents, not less than 48 hours prior to the Meeting, a motion for the immediate transaction of urgent business may be made, and if such motion be seconded and carried, this rule shall be suspended.

(d) With the exception mentioned in the previous clause, notice of motion on any matter of importance shall be given at the General Meeting preceding that at which the subject is to be considered or by a letter not less than one month before the General Meeting at which the subject is to be considered, in order that the Fellows interested in the question may have an opportunity of informing themselves regarding it and expressing their assent or dissent and no motion of which notice has not been given shall be carried at the Meeting at which it is proposed, if the President or Chairperson of the Meeting rules that it should be postponed.

(e) All motions and amendments except those emanating from the Council shall require to be seconded, otherwise they cannot be put. Amendments must be in writing, unless executed by the Chairperson. Not more than a single amendment to the original motion shall be laid before the Meeting at one time. When any such Amendment has been negatived or has been allowed to take the place of the original motion, other amendments involving fresh points may be proposed.
(f) The method of voting shall be by show of hands provided always that the votes on any particular subject may be taken by ballot on a motion to that effect duly carried and, in the cases specially provided for by these rules, the votes shall be so taken.

(g) The Chairman’s decision on the show of hands shall be final unless a division is called for. Any Fellow present may call for a division.

(h) The Chairperson shall not vote with the rest of the Meeting but when the votes for and against are equal he/she shall have a casting vote.

(i) Any Fellow shall have the right of recording his protest, together with the reasons for the same, against the decision of the majority upon any question, provided that such protest be forwarded in writing to the Vice-President (Fellowship Affairs) within two weeks from the date of the Meeting at which the decision protested against was arrived at.

48. The General meeting shall be held at such time and in such places as the Council may decide, so that total number of General Meetings held during a year is not less than three. The December/January meeting shall be called the Anniversary General Meeting. One of the Meetings held during the year be termed the Annual General Meeting and others, the Ordinary General Meeting.

49. Normally the order of business at Meetings shall be as follows:

(a) The Minutes of the last Meetings shall be read and confirmed after correction, if necessary and signed by the Chairperson.

(b) To announce INSA awards and distinctions conferred on eminent scientists.

(c) Such business as is necessary in connection with the election of Fellows according to the regulations framed by the Council, shall be transacted.

(d) Notice of the intended motions shall be given.

(e) Motions of which notice was given at the preceding meeting or by post in accordance with Rule 47 clause (d), shall be disposed of, save as provided in clause (f) of this Rule and in clauses (c) and (d) of Rule 47.

(f) Matters of current business and routine shall be disposed of. If any question arises as to whether any particular question is one of current business and routine, it shall be decided by the Chairperson.

(g) Reports and communications from the Council shall be submitted for consideration.

(h) Papers and communications received by the Academy shall be read in the order prescribed by the Council under Rule 30(b).

(i) The Chairperson shall announce the names of the new Fellows, Foreign Fellows and Pravasi Fellows if any, and invite such persons to complete formalities of Rule 11. Fellows present who have not signed the obligation book shall do so and shall in addition be presented to the Chairperson in accordance with the provision of Rule 11.
(j) The Chairperson shall have the power, when he/she considers that Meeting has been unduly prolonged, to order any uncompleted business, except that provided for in (i), to be postponed to the next Meeting.

50. The Annual General Meeting of the Academy shall be held under the following Rules and for the transaction of the following business:

(a) The Meeting shall be held on such date and at such place as the Council may prescribe. If a quorum be not present, the Meeting shall stand adjourned until a date to be decided by the Chairperson not more than two weeks later.

(b) Notice of the Meeting, of the hour and date at which it is to be held, and the place of Meeting, and of the business to be transacted thereat, shall be given to Fellows not less than two weeks before the date of Meeting.

(c) The business to be transacted at the Meeting shall be:

(i) To hear the Annual Report prepared by the Council in accordance with the provision of Rule 30 (f).

(ii) To hear Presidential remarks reviewing the work of the Academy.

(iii) To transact other business of which notice has been given as provided for in clause (b).

(iv) To announce the Board of Officers and other Member of the Council for the ensuing year as provided in Rule 25.

(v) To announce names of the Fellows elected unless the Council decides that this can be more conveniently done at a Meeting of the Council or at an Ordinary General Meeting.

51. The Anniversary General Meeting of the Academy shall be held under the following rules and for the transaction of the following business:

(a) The Meeting shall ordinarily be held in December/January every year preferably at the city selected for the Meeting of the Indian Science Congress Association. If a quorum be not present, the Meeting shall stand adjourned until a date to be decided by the Chairperson not more than a week later.

(b) Notice of the Meeting, of the hour and the date on which it is to be held, and the place of Meeting and of the business to be transacted thereat, shall be given to Fellows not less than two weeks before the date of the Meeting.

(c) The business to be transacted at the Meeting shall be:

(i) to hear the Presidential Address.

(ii) to transact other business of which notice has been given as provided in clause (b).

52. The following Rules shall be applicable to Extraordinary General Meetings:

(a) Such Meeting may be convened by a majority of the Council and shall be convened by the President, when called on to do so by a requisition signed by not less than forty
Fellows and stating the special business for which it is desirable that an Extraordinary General Meeting should be convened.

(b) Notice of the day and hour of the Meeting, and of the special business to be transacted thereat, shall be given to the Fellows within one month of receiving the request for the Extraordinary Meeting, and before one month of the date of the Meeting, provided that, if the business be very urgent, it should be competent to the Council to substitute any earlier notice than that of one month but no business of the nature specified in Rule 53 (c) shall be deemed urgent within the meaning of this clause.

(c) No other business than that included in the notice shall be transacted at such meeting, nor shall any stranger be permitted to be present thereat.

**VOTES OF FELLOWS**

53. The votes of Fellows shall be taken by ballot papers (transmitted to them by the Vice-President (Fellowship Affairs)) in any of the following cases:-

(a) When the Council at their discretion consider it in the interest of the Academy that an appeal should be made from the decision of a General Meeting to all Fellows of the Academy.

(b) When ten or more Fellows sign a requisition, calling upon the President to make such an appeal.

(c) Proposals requiring major changes in respect of Finances, Organization, Alteration of Rules and Objectives of the Academy or any other major item which in the opinion of the Council requires reference to all the Fellows of the Academy.

54. Before circulating any question coming under Rule 53 for the votes of all the Fellows of the Academy, the Council shall cause to be sent to every Fellow atleast two weeks before the General Meeting at which such question is to be proposed, a printed circular in which shall be set forth the nature of the proposal and the reason for it, in order that it may be duly discussed at such General Meeting. A statement of any objection that may be raised at the Meeting against the proposal shall be circulated with the ballot papers.

55. Any question referred to the votes of all the Fellows of the Academy shall be brought before the General Meeting after a period of thirty days from the issue of the ballot papers for the return of votes. The Chairperson shall proceed to get the votes examined and counted and report the result.

**MISCELLANEOUS**

56. No person appointed as a salaried employee of the Academy shall have the privilege of voting. If any Fellow be appointed to any such office, he/she shall not be entitled to vote at the meeting of the Academy as long as he/she continues to hold it but shall not be deprived of his/her other privileges of Fellowship.
57. The Executive Director shall keep a record of the proceedings of the Academy, of its General Meetings and of the Meetings of the Council, as shall be, from time to time, prescribed by the Council. All Fellows shall be entitled to inspect record of General Meetings.

58. All letters, notices, minutes of meetings, and other documents connected with the business of the Academy shall be filed in the order of their dates, and shall be preserved.

59. When the introduction of any new, or the alteration or repeal of any existing Rule, is recommended by the Council, or proposed by ten or more Fellows, the Council shall cause to be sent to every Fellow of the Academy entitled to vote, a statement of the proposed changes and the reasons for them, with a view to the votes of the General Body of Fellows being taken as directed in Rule 55. Provided always that no change in the Rule shall be valid unless a majority of the two-thirds of the Fellows who have voted shall be in favour of the proposed changes.

60. These Rules took effect from the date of conclusion of Anniversary General Meeting held in December, 1999. All previous Rules are hereby rescinded as from that date. The old rules will, however, be available in the archives of the Academy for reference.
REGULATIONS FOR ELECTION OF FELLOWS,
FOREIGN FELLOWS, PRAVASI FELLOWS,
SECTIONAL COMMITTEES AND LOCAL CHAPTERS

FELLOWS

1. *Invitation for Nomination*: A circular letter drawing attention of the Fellows of the Academy, to the last date on which nominations for Fellowship should reach the Office of the Indian National Science Academy, New Delhi, shall be issued in the first week of September every year.

2. *Certification of Nominations*: Every nominee shall be proposed and recommended by a certificate in writing signed by two Fellows. Of these, at least one shall certify from personal knowledge of the scientific attainments of the candidates. Vice-President (Fellowship Affairs), on receiving a written request from a Fellow not residing in India but competent to certify recommendation for a particular discipline, shall have the power to sign a certificate on behalf of the Fellow.

The nominating paper shall specify the name, date of birth, field of specialization, designation, address (both official and residential), academic and professional attainments of the nominee in a form prescribed by the Academy and shall include a brief statement as well as a detailed critical analysis highlighting the most important research contributions of the nominee. The proposer must also send a separate list of up to ten most important publications of the nominee, and pdf of up to five best papers, a 50 word citation highlighting the work of the scientist which justifies the claim to the Fellowship, a complete list of publications and a set of reprints of publications along with the Nomination Form. Nominations not complete in all respects and not accompanied by the above two lists of publications and a set of reprints, shall not be valid for consideration.

The proposer should ensure that the critical information required in the form is complete. The nominee should not send any information directly to the Academy.

The proposer shall send the nomination paper to such other Fellow for his support who, in his opinion, will second the nominee. The nomination paper should be transmitted by one Fellow to another directly. After both the Fellows have affixed their signatures and also given their own remarks on the nominee’s suitability, the nomination paper shall be forwarded to the Executive Director during working hours so as to reach him not later than October 15. In case October 15 happens to be a Sunday, or a holiday the next working day will be the last valid date for receipt of nominations in the Academy. The particulars of the nomination paper shall be recorded with the date of receipt in a book to be kept for the purpose which will be read at the next meeting of the Council.

3. *Communication of Nominations*: All communications in respect of the nomination shall be carried on with the proposer or the seconder. However for the purpose of updating information regarding the scientific achievements and publications, the Academy may correspond with nominee directly.
4. **List of Nominees:** At the meeting of the Council at the time of the Anniversary General Meeting, a list of all persons whose nomination papers are valid in accordance with the provision of Regulation 6, shall be prepared according to the disciplines of the Sectional Committees without any reference to the dates of their nomination. The Council shall consider and send the list of eligible nominees to the concerned Sectional Committees for expression of opinion on the list of nominees referred to them. However, the nomination papers of any person for election on the basis of his work in any discipline not coming within the purview of any of existing Sectional Committees shall be considered by the Council at the time of selecting the persons for Fellowship without necessarily being referred to any Sectional Committee for its recommendations.

5. **Book of Nominations:** Not later than March 1, a list of nominees arranged in alphabetical order, together with brief statements of their most significant research achievements along with a list of ten best papers, names of Fellows who have proposed and seconded them and the year in which the nominations were considered for the first time and the year of the birth of each nominee shall be uploaded on the web and the fellowship be informed accordingly.

Fellows may make such observations/comments as they may wish to, on the suitability or otherwise of the candidates included in the Book of Nominations and communicate to the Convener of the concerned Sectional Committee. The Conveners shall write by March 1 to all Fellows whose specializations belong to their Committee requesting them to send in additional information about the scientific attainments of the candidates under consideration for election to Fellowship. The observations/comments received from the Fellows shall be placed before the Sectional Committee.

6. **Validity of Nomination:** A nomination shall remain valid for a period of five years unless the proposer or seconder of the nomination withdraws it before October 15 immediately preceding an election.

7. **Selection by Sectional Committees:** The Executive Director shall circulate by March 1 to the members of the Sectional Committees the list of the persons proposed for election from the respective Sections, with a statement showing the research work (as given in the nomination papers) of the individual nominee and shall request the members to send their recommendations along with reasons for the same to the Conveners of the respective Sectional Committees at least a fortnight before the meeting of the Sectional Committees.

**Guidelines for Sectional Committees:**

I. The primary criterian for election to the Fellowship will be scientific and technological achievements of the nominee (e.g. contributions to new knowledge, new discoveries, development of new technologies, substantial improvement in existing technologies etc.) as evidenced by publications, patents, authenticated scientific reports which could not be published and the economic impact of his/her work.

II. The work done in India should be given primary importance. Sectional Committees should not consider the nomination of those scientists who are abroad on a long term basis. They should be considered only when they are back in India and have made notable contributions to science in India.
III. The election should be recommended for the work done in the entire career of the scientist. Work done well before the nomination is proposed should also be given due consideration.

IV. The Conveners of the Sectional Committees should make all efforts to obtain reports from Fellowship/ experts of the Academy.

V. The Sectional Committee is charged with the responsibility of studying the work of the nominees by consulting fellows/experts in the area of specialization of the nominee, where necessary. The use of bibliometric data in the selection process should be discouraged.

VI. The Vice-President (Fellowship Affairs) will convene a meeting of all the conveners to review the new nominations received during that year and which will be considered in the ensuing year. The committee of conveners, if they strongly feel that the work of a scientist is more suitable in the alternate committee given by the proposer or to any other committee, the change will accordingly be made.

The Executive Director shall call two meetings of the Sectional Committees, in April/May and in August, on the dates as may be decided by the Council in the calendar of meetings, to consider these recommendations.

Two meetings of the Sectional Committees

a) There will be two meetings of the Sectional Committees each year; the first one will be held in April/May and the second meeting will be in the month of August prior to the Council meets.

b) At the first meeting, the Sectional Committees will shortlist the nominations to a maximum of ten. The Conveners will make all efforts to procure the opinion of the fellowship about the nominees. The opinions received by the Conveners should be thoroughly discussed at the meeting.

c) The Sectional Committees may identify a minimum of five experts for each of the above shortlisted ten names who may be contacted for obtaining specific information about the nominee. The national experts, may be restricted to INSA Fellows only. These shortlisted names are to be informed to the members of the Council also.

(d) At the second meeting of the Sectional Committees, the opinion of experts (on each nominee) will be placed on the table and will be critically discussed. The Committee will then make a final list of up to five names, in alphabetical order, for the consideration of the Council. The Committee shall also bring out clearly for each recommended nominee the reason for its recommendation, by highlighting the importance of the scientific contributions of the concerned nominee.

The reports of the Sectional Committees will be forwarded to the Vice-President (Fellowship Affairs) by the Conveners.

8. Selection by the Council: At the meeting of the Council to be held normally in August the Council will consider recommendations made by each Sectional Committee and shall then select a number not exceeding forty to be recommended to the Fellows of the Academy for election.
The opinion of experts and any other material placed on the table in the second meeting will be made available to the Council at its August Meeting.

9. **Selection from Sections:** It shall not be obligatory for the Council to recommend a certain fixed number of persons for elections to Fellowship from each of the 12 Sections. The Council shall be free to recommend a larger number for any Section if there are more deserving persons in that Section and also not to recommend for any Section if, in the opinion of the Council, none is fit for election.

10. **Communication of the Selected Names to Fellows:** Soon after selection by the Council, a circular-letter shall be sent to every Fellow as a voting paper enclosing a list of the selected persons with space for such alterations as any Fellow may decide to make in pursuance of Regulation 12.

11. **Date of Election:** The election of Fellows not included in the class referred to in Regulation 7 shall take place at the Statutory Meeting of the Council in October.

12. **Election Procedure:** Each Fellow shall forward to the Vice-President (Fellowship Affairs) the voting paper mentioned in Regulation 10, (i) having marked a cross for the names of those he wishes to be elected, (ii) having scored out the names of any person(s) for whom he does not vote and (iii) having scored out the names of any person(s) for whom he does not vote and having substituted the name of any other person(s) contained in the list sent in pursuance of Regulations, if he so desires. No voting paper shall be valid if, (i) it contains more names than the number of names accepted by the Council, (ii) it is signed or (iii) it is not enclosed in a sealed envelope and forwarded to the Vice-President (Fellowship Affairs) in an outer envelope with a covering letter signed by the Fellow so as to reach the Vice-President (Fellowship Affairs) by the date prescribed.

13. **Appointment of Scrutineers:** Two scrutineers shall be nominated by the President for counting the votes.

14. **Declaration of Election Results:** The scrutineers, after examining the voting papers, shall report to the President the number of votes received by each candidate. The President shall at the meeting of the Council to be held in October, duly declare the names of the candidates who have been elected. In the case of a tie, the President shall have a casting vote. The result of election shall be notified on the web. This election, however, shall be effective from January 1 of the following year.

15. **Re-nomination:** On the expiry of the validity of the nomination, a re-nomination can be made afresh only after a gap of two years. The fresh nomination shall be submitted as prescribed in Regulation 2.

16. **Nomination for Special Election:** In accordance with Rule 6 (e), the Council may recommend names for election as Fellow/s otherwise than that provided under paras 1 to 15 of these Regulations. The persons so recommended shall be selected by the Council by ballot provided always that no person shall be so recommended unless he obtains two-thirds of the votes of the Members of the Council present and that the total number of votes registered in his favour are not less than seven.
17. **Special Election**: At the Ordinary General Meeting of the Academy, immediately following the Meeting of the Council at which the selection of persons to be elected under Regulation 16 is made, the person(s) nominated shall be proposed for election by means of a certificate prepared by the Vice-President (Fellowship Affairs). This certificate shall explicitly specify the basis of nomination for special election. Such certificate shall remain with the Academy until the day on which a ballot is taken on it. The name of the person so proposed shall be posted to each fellow for voting by a date given on the ballot paper. The result of the ballot shall be ascertained at the next meeting of the Council after the close of the ballot, following the procedure of Regulations 12 to 14.

18. **Subscription**: An admission fee of Rs 500/- and one time Fellowship subscription of Rs 2000/- shall be due on election.

**FOREIGN FELLOWS**

1. A letter drawing attention of the Fellows of the Academy, to the last date on which nominations for Foreign Fellowship should reach the office of the Indian National Science Academy, New Delhi, shall be issued by the Academy. Every nominee shall be proposed in prescribed form by a Fellow of the Academy. The nomination paper shall specify the name, date of birth, nationality, field of specialization, profession, rank and present address, and shall include a brief statement of the most significant achievements of the nominee, information regarding his/her membership of the academies in the home country and his/her interest in scientific activities in India. The Proposer shall also specify how the nominee’s election would help the Academy in the furtherance of its aims and objects.

The nomination paper, complete in all respects, shall be sent by post or may be handed over personally by a Fellow of the Academy to the Executive Director during working hours. The particulars of the nomination paper when received along with all documents at the office of the Executive Director shall be recorded with the date of receipt in a book to be kept for the purpose, which will be read at the next meeting of the Council. The nomination shall be valid for three years only.

2. **Guidelines for Selection**

(a) The nominee should be a foreign citizen.

(b) The nominee should be an internationally recognized leader in his own field.

(c) He or she should be a Fellow/Member of the National Academy of own country. Alternatively he or she should be a Foreign Fellow / Associate of a foreign academy. Further, Council would consider those nominees who are awardees of Noble Prize, Fields Medal or any other International award of equally eminent standing.

(d) The nominee should have close connection with Indian scientists and should be aware of the progress of Indian science, its accomplishments and aspirations. The past, present and future advantages and gains to the Academy and to the scientists of India by the election of a Foreign Fellow may also be kept in view.
(e) Academy will constitute a Nominating Committee consisting of the following:

1) President, INSA
2&3) Two Past-Presidents
4&5) Two Fellows and
6) Vice-President (Fellowship Affairs)
7) Vice-President (International Affairs) who will act as the Member-Secretary of this Committee.

The members of the nominating committee could also suggest additional names on their own. All efforts should be made by the Nominating Committee to increase the number of Foreign Fellows of the Academy elected each year without compromising / diluting the principles underlying the present selection process.

(f) The Vice-President (International Affairs) and Member-Secretary of the Nominating Committee will write a letter to all the fellows every year inviting nominations from them. He will also contact the members of the Sectional Committees for suitable nominations. It will be helpful for the Vice President to be in touch with the Conveners of the Sectional Committees so that they act in good time and in the manner envisaged.

(g) The meeting of the Nominating Committee will be held sometime during June-July to select suitable names among the nominations so received. The names selected for Foreign Fellowship by the Nominating Committee will be reported to the Council in the month of August.

3. The names of the candidates so selected shall be circulated to all Fellows on a voting paper to be returned by a prescribed date. The Fellow shall vote by placing a cross for the names of those he wishes to be elected.

The selection of candidates to be so nominated for Fellowship up to the permissible number under Rule 13(a) shall be recommended to the Fellows of the Academy for election.

It shall be the aim of the Council to see that the recommendations are distributed evenly, as far as possible, in different branches of Science.

4. The voting paper shall not be signed but enclosed in a sealed envelope, which shall be forwarded to the Vice-President (Fellowship Affairs) in an outer cover with a covering letter signed by the Fellow so as to reach the Office of the Academy by the date prescribed. In the absence of a covering letter the voting paper shall be invalid.

5. Two scrutineers shall be appointed by the President for counting the votes. The scrutineers, after examining the voting papers, shall report to the President the number of votes received by each candidate. The President shall then at the meeting of the Council to be held in October, announce the names of candidates who have secured the votes of two-thirds of the Fellows voting and shall declare them as duly elected. In the case of a tie, the President shall have a casting vote. The result of election shall be notified to all the Fellows. This election, however, shall be effective from January 1 of the following year.
PRAVASI FELLOWS

1. A letter drawing attention of the Fellows of the Academy, to the last date on which nominations for Pravasi Fellowship should reach the office of the Indian National Science Academy, New Delhi, shall be issued by the Academy. Every nominee shall be proposed in prescribed form by a Fellow of the Academy. The nomination paper shall specify the name, date of birth, nationality, whether PIO/OCI card holder, field of specialization, profession, designation and present address, and shall include a brief statement of the most significant achievements of the nominee, list of best ten papers and total list of publications, pdf of five best papers, information regarding his/her membership of the academies in the home country, his/her interest in scientific activities in India and names of three referees amongst Indian scientists with whom the nominee has close professional linkages. The Proposer shall also specify how the nominee’s election would help the Academy in the furtherance of its aims and objectives.

The nomination paper, complete in all respects, shall be sent by post or may be handed over personally by a Fellow of the Academy to the Executive Director during working hours. The particulars of the nomination paper when received along with all documents at the office of the Executive Director shall be recorded with the date of receipt in a book to be kept for the purpose, which will be read at the next meeting of the Council. The nomination shall be valid for three years only.

2. Guidelines for Selection

(a) The nominee should be a person of Indian Origin with foreign passport (residing within or outside territorial limits of India) or with Indian passport (residing outside the territorial limits of India)

(b) The nominee should be an internationally recognized leader in his own field.

(c) The nominee should have close connection with Indian scientists and should be aware of the progress of Indian science, its accomplishments and aspirations. The past, present and future advantages and gains to the Academy and to the scientists of India by the election of a Pravasi Fellow may also be kept in view.

(d) The Nominating Committee for Pravasi Fellows will be same as constituted for the consideration of Foreign Fellows. The members of the nominating committee could also suggest additional names on their own. All efforts should be made by the Nominating Committee to increase the number of Pravasi Fellows of the Academy elected each year without compromising/diluting the principles underlying the present selection process.

(e) The Vice-President (International Affairs) and Member-Secretary of the Nominating Committee will write a letter to all the fellows every year inviting nominations from them. He will also contact the members of the Sectional Committees for suitable nominations. It will be helpful for the Vice President to be in touch with the Conveners of the Sectional Committees so that they act in good time and in the manner envisaged.

(f) The meeting of the Nominating Committee will be held sometime during June-July to select suitable names among the nominations so received. The names selected for Pravasi
Fellowship by the Nominating Committee will be reported to the Council in the month of August.

3. The names of the candidates so selected shall be circulated to all Fellows on a voting paper to be returned by a prescribed date. The Fellow shall vote by placing a cross for the names of those he wishes to be elected.

The selection of candidates to be so nominated for Fellowship, up to the permissible number under Rule 13(b) shall be recommended to the Fellows of the Academy for election.

It shall be the aim of the Council to see that the recommendations are distributed evenly, as far as possible, in different branches of Science.

4. The voting paper shall not be signed but enclosed in a sealed envelope, which shall be forwarded to the Vice-President (Fellowship Affairs) in an outer cover with a covering letter signed by the Fellow so as to reach the Office of the Academy by the date prescribed. In the absence of a covering letter the voting paper shall be invalid.

5. Two scrutineers shall be appointed by the President for counting the votes. The scrutineers, after examining the voting papers, shall report to the President the number of votes received by each candidate. The President shall then at the meeting of the Council to be held in October, announce the names of candidates who have secured the votes of two-thirds of the Fellows voting and shall declare them as duly elected. In the case of a tie, the President shall have a casting vote. The result of election shall be notified to all the Fellows. This election, however, shall be effective from January 1 of the following year.

SECTIONAL COMMITTEES

1. The Council shall appoint, from among the Fellows of the Academy, Committees representing the various branches of Natural Knowledge, called ‘Sectional Committees’.

The members of each Committee shall be chosen with a view to secure, as far as possible, a representation of the several sub-divisions of each branch of Natural Knowledge, and to obtain the assistance of Fellows who are specially qualified to advise the Council regarding particular parts of Natural Knowledge.

2. Each Sectional Committee shall advise the Council or any of the Officers on the matters referred to it by the Council or by any of the Officers, and also shall make to the Council suggestions pertaining to the branch or branches of knowledge which it represents. It shall, inter-alia, (a) recommend in alphabetical order, the names of the nominees who in the opinion of the Sectional Committee, are worthy of election to the Fellowship, (b) recommend in order of priority, the names of those who in the opinion of the Sectional Committee, are worthy for the Young Scientist Award of the Academy, (c) advise in connection with communications received from Government on scientific matters of high policy, (d) advise on subjects to be discussed at the Annual General Meeting so that the Academy can play its part in national development and planning, (e) draw up lists of persons suitable for scrutinizing papers submitted for publication indicating the branches which they are competent to deal with, (f) recommend books and journals which should be added to the Academy’s library, (g) suggest original research problems of both fundamental and applied nature, on which work should be initiated in the national interest.
3. The Council shall each year appoint a Member of each Committee to serve as Secretary and Convener of the Committee and to be the channel of communication between the Committee and the Council or the Officers.

4. **Sectional Committees**: The Sectional Committees shall be twelve in number and referred to by their number and not by name. The allocations of subjects to each Committee, which are only indicative but not exhaustive, shall be as follows:

**SECTIONAL COMMITTEE I**


**SECTIONAL COMMITTEE II**

*Physics*: Astronomy, Astrophysics, Condensed Matter Physics, Nuclear and High Energy Physics, Atomic, Molecular and Optical Physics, Statistical Physics, Space Physics.

**SECTIONAL COMMITTEE III**

*Chemical Sciences*: Analytical, Inorganic, Organic, Physical and Theoretical Chemistry.

**SECTIONAL COMMITTEE IV**


**SECTIONAL COMMITTEE V**

*Engineering & Technology*: Electronics, Electrical, Mechanical, Chemical, Civil, Aeronautical, Telecommunication and other branches of Engineering, Computer and Information Sciences and Technology Development.

**SECTIONAL COMMITTEE VI**


**SECTIONAL COMMITTEE VII**


**SECTIONAL COMMITTEE VIII**


**SECTIONAL COMMITTEE IX**

*Microbiology and Immunology*: Biology of Viruses, Bacteria and Parasites, Microbial Genetics and Genomics, Immunology.

**SECTIONAL COMMITTEE X**

*Cell and Biomolecular Sciences*: Biochemistry, Biophysics, Cell Biology, Molecular Biology, Structural Biology, Bioinformatics, Systems Biology, Biotechnology.
SECTIONAL COMMITTEE XI


SECTIONAL COMMITTEE XII


5. Each Sectional Committee shall comprise nine Members; five Members shall constitute a quorum.

6. Members shall be retired by seniority, at the rate of one-third every year. Where necessary, retirement shall be determined by ballot. If a Sectional Committee Member is not able to attend the meetings of Sectional Committee in a particular year, the President is authorized to appoint a suitable substitute in his/her place for that year. If any Sectional Committee Member does not attend two consecutive meetings without valid reasons, the Council may appoint a new member in his/her place for the remaining period.

7. The retiring Members of Committee shall each year vacate office on December 31, and shall not be eligible for selection as a Member in the ensuing year. However, this restriction will not be applicable to Fellow(s) appointed by the Council in an interim vacancy.

8. Should an interim vacancy occur at any time, the council shall appoint a Fellow to fill the vacancy, and the retirement of the Fellow so nominated, shall be according to the rules that would have applied to the member whose place he fills provided that, if on the date of retirement the said Fellow has not served more than one year, he shall be eligible for immediate reappointment.

9. The appointment of the Fellows to serve as new Members of the Committee shall be made by the Council in August and the Member, so appointed, shall enter the office on forthcoming January 1.

LOCAL CHAPTERS

1. Local Chapters are established for regions at places where five or more Fellows of the Academy reside. In exceptional cases, if the number is less but the Local Fellows desire a Local Chapter, their request may be examined by the President, for decision.

2. All Fellows of the Academy shall be affiliated to one of the Local Chapters.

3. The Local Chapters should give their views on various matters affecting the scientific policy in the country. These should include suggestions like social impact of science, planning in science and technology and liaison with Local Academies and learned bodies to bring fruitful participation between these bodies and the Indian National Science Academy. The Chapters should comment on special problem of local interest which could be analysed scientifically. For this purpose, special committees with appropriate experts be formed within the Chapter. Some Fellows, particularly those with many years of experience in science management, can be requested to make themselves responsible for compiling reports on such issues. The reports should be sent to the Academy so that the Academy may prepare a consolidated version of the various reports for consideration by the Council. The Council should then publicise its views and thereby make itself felt as an important organ of the society.
4. Local Chapters should encourage young scientists to participate in scientific activities.

5. All Local Chapters should make efforts to strengthen scientific activities. They should organize at least two scientific programmes in a year dealing mainly with the advancement of science and the popularization of science. All Fellows attached to a Local Chapter should make efforts to attend meetings of the Chapter which may be held at the Headquarters or elsewhere at which among other things, nominations could also be made for the various endowment lectures of the Academy.

6. (a) Return I Class/II AC rail fare will be admissible to all outstation Fellows attending the meetings of Local Chapters.

   (b) For local Fellows the expenditure incurred on transportation, including taxi fare, will be reimbursed.

7. In every meeting of the Local Chapter, a Chairman should be elected.

8. Every Local Chapter should suggest the name of a Fellow for appointment as Convener of that Local Chapter by the Council. The term of the Convener will be three years.

The Conveners of Local Chapters should be requested to call their first meeting in April to draw as detailed a programme as possible giving the dates of various activities proposed which could be circulated to the Fellowship and also published in the INSA News.
ACADEMY AWARDS

The Indian National Science Academy has instituted 65 awards which are broadly classified into following categories:

(A) International Awards

(B) General Medal & Lecture Awards

(C) Subjectwise Medals/Lectures

(D) Awards for Young Scientists

(E) INSA Teachers Award

(F) INSA Young Historian of Science Award

(A) INTERNATIONAL AWARDS

(i) INSA-Vainu Bappu Memorial Award

The award was established in 1985 from an endowment by Mrs Sunanna Bappu, mother of the late Dr. Manali Vainu Bappu, an eminent Astronomer and a Fellow of the Academy.

The award is to be given to an Astronomer/Astrophysicist of international recognition. The first award was announced in 1985. The award consists of a bronze Medal, an honorarium of Rs.25,000/- and a citation. Scientists from all nations are eligible for consideration. In the event of the award being given to a foreign Scientist, the international airfare will be met and he/she may be provided with cash equivalent of the honorarium in US dollars.

(ii) Jawaharlal Nehru Birth Centenary Medal

The award was established in 1989 by the Academy. The award will be given for international cooperation in Science & Technology and for contributions to public understanding of Science. Scientists from all nations are eligible for consideration. The first award was made in 1990. The award carries a plaque and a citation.

President INSA, shall suggest names for consideration by the Council at its meeting in October in the year preceding the year of award. The name selected by the Council shall be announced at the Annual General Meeting of the Academy.

(iii) PMS Blackett Memorial Lecture and JC Bose Memorial Lecture

These Lectureships were established in 2011 from General Funds of the Academy and will be awarded to a scientist of international repute in any branch of science. The award will be given once in three years alternatively i.e. 2013 (first Blackett Memorial lecture), 2016 (first JC Bose Memorial lecture), 2019 (second Blackett Memorial lecture) and so
Academy Awards on. The Lectureships carry an honorarium of Rs. 25,000/- and a citation. Scientists from all nations are eligible for consideration. In the event of the award given to an overseas scientist, the international airfare will be reimbursed and the awardee will be provided with cash equivalent of the honorarium in US dollars. The nominations will be invited from the entire Fellowship.

(B) GENERAL MEDALS AND LECTURES

MEDALS

(a) Any Branch of Science

(i) The Chandrasekhara Venkata Raman Medal

(ii) The Shanti Swarup Bhatnagar Medal

(iii) The Meghnad Saha Medal

(iv) The Aryabhata Medal

The above Medals shall be awarded for outstanding contribution in any branch of science coming within the purview of the Academy. The President, INSA, shall suggest name/s for consideration by the Council, at a meeting to be held in December/January of the year of the award and the name selected by the Council shall be announced at the Anniversary General Meeting.

The awardee will deliver a lecture on the subject of his choice normally at the following Annual General Meeting or at one of the General Meetings of the Academy. The award consists of a Copper Medal (gold plated) and a citation.

(b) Popularization of Science

(i) Indira Gandhi Prize for Popularization of Science

1. The award was instituted by INSA in 1986 to encourage and recognize popularization of science in the country. The prize shall be awarded once in three years for outstanding work done by an individual for the popularization of science in any Indian language, including English. The nominee must have had a distinguished career as a writer, editor, journalist, lecturer, radio or television programme director, science photographer or as an illustrator, which has enabled him/her to interpret science (including medicine), research and technology to the public. He/She should have a knowledge of the role of science, technology and research in the enrichment of cultural heritage and in solution of problems of humanity. The first award was made in 1986.

The prize is open to any Indian national residing in the country and will carry honorarium of Rs. 25,000/-, citation and a bronze medal. Two prizes will be awarded, one each to a career scientist and to a career media personnel who are engaged in popularization of science.

2. Nominations for consideration for the prize shall be invited from INSA Fellows, Vice-Chancellors, Deans, Principals, Directors of leading scientific institutions and national laboratories and Editors of selected Indian science journals. Advertisements will also be inserted in the selected popular science journals for this purpose.
The nomination paper shall specify: (i) Name and address of nominee; (ii) Name, designation and address of nominator; (iii) Summary of the work done by the nominee which will form the basis for nomination (about 200 words); (iv) a longer statement (not exceeding 1000 words) providing additional information regarding the career of the nominee as a popularizer of science; (v) nominee’s biodata (not more than three pages) and list of nominee’s published works. Two sets of reprints or xerox copies of important works to be made available for viewing by the jury; (vi) whether the work (part or whole) presented has been recognized for any other prize or award; and (vii) names of three references (with addresses and telephone numbers) who may be contacted for further information. The last date for receipt of nominations in the Academy is July 15.

3. The President, INSA, will appoint a Committee which will consist of four members besides him to consider the nominations and make recommendations to the Council. The Committee will be empowered to consult experts in the field, if necessary. The material for judging would include writing in newspapers, magazines, popular books and scripts prepared for radio and television programmes and films. Initiative, originality, scientific accuracy, clarity of interpretation and impact of creating excitement, interest and understanding of science would be important criteria for judging the entries. Work already recognized for any other award will not be considered. The recommendations of the Committee shall be considered by the Council in December/January. The name of the person selected for the prize will be announced at the Anniversary General Meeting of the Academy.

(ii) **INSA Medal for Promotion and Service to Science**

The Medal was established by the Academy in the year 2001 for purpose of recognizing those who have rendered exceptional service for promoting science in India.

The Medal shall be awarded for exceptional service to promoting Science in India. The prize is open to any Indian national and will carry a gold medal (of 20 grams) and a citation. The President, INSA, shall suggest, for consideration by the Council, names at a meeting of the Council to be held in December/January prior to year of the award and the name selected by the Council shall be announced at the Anniversary General Meeting. The first award was made in the year 2002.

**LECTURES**

*Any Branch of Science*

(i) **The Sisir Kumar Mitra Memorial Lecture**

The lecture was established in the year 1963 from the General Funds of the Academy in the memory of late Professor Sisir Kumar Mitra, a Foundation Fellow and past President of the Academy. The first award was made in the year 1966.

(ii) **The Kariamanikkan Srinivasa Krishnan Memorial Lecture**

The lecture was established in the year 1965 from the General Funds of the Academy in the memory of late Professor Kariamanikkan Srinivasa Krishnan, a Foundation Fellow and past President of the Academy. The first award was made in the year 1969.
(iii) **The Daulat Singh Kothari Memorial Lecture**

The lecture was established in the year 1993 from the General Funds of the Academy in the memory of the late Professor Daulat Singh Kothari, a distinguished Fellow and a past President of the Academy. The first award was made in the year 1996.

The President, INSA, shall suggest, for consideration by the Council, names at a meeting of the Council to be held in December/January and the names selected by the Council shall be announced at the Anniversary General Meeting. The lectureship includes an honorarium of Rs 25,000/- and a citation.

(iv) **Jawaharlal Nehru Birth Centenary Lecture**

The lecture was established in 1989 from the general funds of the Academy. Two Lectureships are awarded once in three years to Indian scientists. One award will be made in Physical Sciences (SC-I to VI) and the other one in Biological Sciences (SC-VII to XII). The lectureship includes an honorarium of Rs. 25,000/- and a citation.

President, INSA, shall suggest names for consideration by Council at its meeting to be held in October preceding the year of awards. The names selected by the Council shall be announced at the Annual General Meeting of the Academy.

(C) **SUBJECTWISE MEDALS/LECTURES/AWARDS**

(A) **Medals Instituted by the Academy**

(i) **The Srinivasa Ramanujan Medal**
   – for Mathematical Sciences

(ii) **The Satyendranath Bose Medal**
   – for Physics

(iii) **The Homi Jehangir Bhabha Medal**
   – for Physics

(iv) **The Jagadis Chandra Bose Medal**
   – for Biochemistry, Biophysics, Molecular Biology & related areas

(v) **The Sunder Lal Hora Medal**
   – for Animal Sciences

(vi) **The Darashaw Nosherwanji Wadia Medal**
   – for Earth Sciences including Geography

(vii) **The Prasanta Chandra Mahalanobis Medal**
   – for Mathematical Sciences

(viii) **The Syed Husain Zaheer Medal**
   – for Engineering & Technology

(ix) **The Silver Jubilee Commemoration Medal**
   – for Agricultural Sciences
(x) **The Golden Jubilee Commemoration Medal**  
- for Chemical Sciences

(xi) **The Golden Jubilee Commemoration Medal**  
- for Animal Sciences

(xii) **The Kalpathi Ramakrishna Ramanathan Medal**  
- for Atmospheric Sciences and Meteorology

The medals shall be awarded for outstanding contributions to the concerned discipline of science. Eminence is to be judged in accordance with the criterion that the scientific work of the candidate is such that its impact has been felt for a considerable length of time. The award carries a Copper Medal (Silver plated) and a citation.

(B) **Endowed Medals**

1. **Vishwakarma Medal**

   The medal was established in 1976 from an endowment by Dr. Pulin Bihari Sarkar, a distinguished Fellow of the Academy.

   *The Medal is awarded to eminent scientists, technologists or any person who has made outstanding contributions in Engineering & Technology related to discovery or invention that has led to the start of a new industry in India or to significant improvement of an existing process resulting in cheaper or better product. The award carries an honorarium of Rs 25,000/-, a bronze medal and a citation. The first medal was awarded in 1979.*

2. **Professor Brahm Prakash Memorial Medal**

   The award was established in 1987 from an endowment from Mrs R Brahm Prakash and by friends of late Dr Brahm Prakash, a distinguished Fellow of the Academy.

   *The award is to be given to a scientist/engineer who has made outstanding contributions in Engineering and Technology. The award carries an honorarium of Rs 25,000/-, a bronze medal and a citation. The first award was given in 1989.*

3. **Professor Shyam Bahadur Saksena Memorial Medal**

   The award was established in 1989 from an endowment by Mrs Sarla Saksena to commemorate the memory of late Professor Shyam Bahadur Saksena, a distinguished botanist and Fellow of the Academy.

   *The award is to be given to an eminent scientist who has made outstanding contributions in Plant Sciences. The award carries an honorarium of Rs 25,000/-, a bronze medal and a citation. The first award was given in 1990.*

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*The endowed medal lecture/awards marked with "*" have been suspended owing to insufficient funds as decided by the Council in April 2011.*
4. **Professor GN Ramachandran 60th Birthday Commemoration Medal**

The award was established in 1989 out of an endowment by the Organizing Committee to commemorate 60th Birthday of Professor GN Ramachandran, a distinguished Fellow of the Academy.

*The award is to be given to an eminent scientist for outstanding contributions in the field of Biochemistry and Biophysics. The award carries a bronze medal, an honorarium of Rs 25,000/- and a citation. The first award was given in 1991.*

5. **Professor TR Seshadri Seventieth Birthday Commemoration Medal**

The Medal was established in 1971 from an endowment by students of Professor Seshadri, a distinguished organic chemist Fellow and a past President of the Academy.

*The medal is awarded to a scientist for outstanding work in Chemical Sciences. The award carries an honorarium of Rs 25,000/-, a bronze medal and a citation. The first medal was awarded in 1973.*

6. **Professor KP Bhargava Memorial Medal**

The Medal was established in 1992 out of an endowment made by Mrs Savitri Bhargava, to commemorate the memory of late Professor KP Bhargava, an eminent Pharmacologist and a distinguished Fellow of the Academy.

*The selection of the scientist is to be made from amongst the persons who have made outstanding contributions in Medical Sciences. The award carries a bronze medal, an honorarium of Rs 25,000/- and a citation. The first award was given in 1996.*

7. **Professor K Naha Memorial Medal**

The Medal was established in 1996 from an endowment by the family members of Professor Naha to commemorate the memory of late Professor Kshitindramohan Naha, an eminent geologist and a distinguished Fellow of the Academy.

*The selection of the scientist is to be made from amongst the persons, who have made outstanding contributions in Earth Sciences. The award carries a bronze medal, an honorarium of Rs 25,000/- and a citation. The first award was made in 1998.*

8. **Professor Krishna Sahai Bilgrami Memorial Medal**

The Medal was established in 1998 from an endowment contributed by family, colleagues and students to commemorate late Professor Krishna Sahai Bilgrami, an eminent botanist and a distinguished Fellow of the Academy.

*The Medal is to be given to a scientist for recognition of outstanding contribution in the field of Agricultural Sciences. The award carries a bronze medal, an honorarium of Rs. 25,000/- and a citation. The first award was made in 2001.*

9. **The Chandrakala Hora Memorial Medal**

The Medal was established in 1945 from an endowment by Mrs Hora and Dr Sunder Lal Hora, a distinguished Fellow and past President of the Academy and in memory of their daughter.
The Medal is awarded to an eminent scientist for contributions in the field of Animal Sciences. The award carries an honorarium of Rs. 25,000/-, a bronze medal and a citation. The first medal was awarded in 1950.

10. Shree Dhanwantari Prize

The Prize was established in 1969 from an endowment by Shri Anant Krishna Asundi in the memory of his youngest daughter Shrimati Akkadevi.

The Prize is awarded to eminent scientists for outstanding work in India in any branch of Medical Sciences. The prize carries an honorarium of Rs 25,000/-, a bronze medal and a citation. The first medal was awarded in 1971.

11. Professor Bhim Shanker Trivedi Memorial Medal

The Medal was established in 2013 out of an endowment made by the family members of late Professor BS Trivedi, a distinguished Paleo botanist and Fellow of the Academy.

The Medal is to be given to an eminent scientist for outstanding contributions in any branch of Biological Science including Medicine and Psychology. The award carries a bronze medal, an honorarium of Rs. 25,000/-and a citation. The first award will be given in 2014.

(C) Endowment Lectures

1. Professor Bal Dattatraya Tilak Lecture

The Lecture award was established in 1982 out of an endowment by Professor BD Tilak Scientific Research and Education Trust, Pune, to commemorate Professor BD Tilak, a Fellow of the Academy distinguished for his researches in the field of dyestuffs chemistry and organic chemical technology.

The selection of the scientist is to be made from amongst the persons who have made outstanding contributions to rural economy and life through innovative and effective application of science and technology. The lectureship carries an honorarium of Rs25,000/-and a citation. The first award was made in 1983.

2. Dr TS Tirumurti Memorial Lecture

The Lecture was established in 1985 out of an endowment by Mrs Janaki Ramachandran, daughter of late Dr Tirunelveli Subbaiyer Tirumurti, an eminent medical scientist and a Foundation Fellow of the Academy.

The selection of the scientist is to be made from amongst the persons who have made outstanding contributions in Medical Sciences. The lectureship carries an honorarium of Rs 25,000/- and a citation. The first award was made in 1983.
3. Dr Nitya Anand Endowment Lecture

The Lecture was established in 1986 out of an endowment by the organizing committee to celebrate the 60th Birthday of Dr Nitya Anand, an eminent chemist and a distinguished Fellow of the Academy.

_The lecture shall be delivered by a scientist who has done outstanding work in Biomedical Research including New Drug Development. The award shall be based on work done in India during the previous 10 years. The lectureship carries an honorarium of Rs 25,000/- and a citation. The first award was made in 1987._

4. INSA Prize for Materials Science

The Lecture was established in 1986 out of the Endowment by the Organizing Committee of the International Conference on the ‘Application of Mossbauer Effect’, held in 1981.

_The prize shall be awarded for outstanding contributions in Materials Science. The Prize carries an honorarium of Rs 25,000/- and a citation. The first award was made in 1987._

5. Professor S Swaminathan 60th Birthday Commemoration Lecture

The Lecture was established in 1990 out of an endowment by Professor S Swaminathan 60th Birthday Commemoration Committee to commemorate Professor S Swaminathan, an eminent organic chemist and a distinguished Fellow of the Academy.

_The lecture shall be awarded for outstanding contributions in Chemical Sciences. The lectureship carries an honorarium of Rs 25,000/- and a citation. The first award was made in 1992._

6. Professor Darshan Ranganathan Memorial Lecture

The Lectureship was established in the year 2001 out of an endowment made by Professor S Ranganathan, FNA to commemorate the memory of his wife Professor Darshan Ranganathan, a distinguished Fellow of the Academy.

_The Lecture shall be delivered by a woman scientist who has made outstanding contributions in any field of Science and Technology. The lectureship carries an honorarium of Rs 25,000/- and a citation. The first lecture was awarded in 2003._

7. Professor MRN Prasad Memorial Lecture

The Lecture was established in 1989 out of an endowment by the colleagues and friends to commemorate the memory of Professor MRN Prasad, an eminent Physiologist and a distinguished Fellow of the Academy.

_The lecture shall be awarded for outstanding contributions in Animal Sciences. The award carries an honorarium of Rs 25,000/- and a citation. The first award was made in 1992._
8. **The Bires Chandra Guha Memorial Lecture**

The Lecture was established in 1965 out of an endowment by (Mrs) Phulrenu Guha in the memory of her husband, Professor Bires Chandra Guha, a distinguished Fellow of the Academy.

*The lecture shall be awarded for outstanding contributions in the field of Biophysics and Biochemistry. The lectureship carries an honorarium of Rs 25,000/- and a citation. The first award was made in 1969.*

9. **The Bashambar Nath Chopra Lecture**

The Lecture was established in 1968 out of an endowment by the family members to commemorate the memory of Dr Bashambar Nath Chopra, a distinguished Fellow of the Academy.

*The lecture shall be awarded for outstanding contributions in any branch of Plant Sciences. The lectureship carries an honorarium of Rs 25,000/- and a citation. The first award was made in 1971.*

10. **Professor Shambu Nath De Memorial Lecture**

The Lecture was established in 1992 out of an endowment by the Organizing Committee of the VIII International Symposium on Yeasts (IUMS) on behalf of the Association of Microbiologists of India (AMI) to commemorate Professor SN De, a distinguished scientist for his research in Microbiology.

*The lecture shall be awarded for outstanding contributions in Biochemistry and Biophysics. The award carries an honorarium of Rs 25,000/- and a citation. The first award was made in 1993.*

11. **Professor Vishnu Vasudeva Narlikar Memorial Lecture**

The Lecture was established in 1992 out of an endowment by the family members and a close friend of late Professor VV Narlikar, to commemorate Professor VV Narlikar, an eminent mathematician and a distinguished Fellow of the Academy.

*The lecture shall be awarded for outstanding contributions in Mathematics. The award carries an honorarium of Rs 25,000/- and a citation. The first award was made in 1994.*

12. **Dr Jagdish Shankar Memorial Lecture**

The Lecture was established in 1992 to commemorate the memory of Dr Jagdish Shankar, a Fellow of the Academy and a distinguished scientist in the field of nuclear and radiation chemistry. The endowment was made by the organizing committee of the Emerging Frontiers in Chemistry Symposium, students, admirers and family members of Dr Shankar.

*The lecture shall be awarded for outstanding contributions in Chemical Sciences. The award carries an honorarium of Rs 25,000/- and a citation. The first award was made in 1994.*
13. **Professor Vishwa Nath Memorial Lecture**

   The Lecture was established in 1992 to commemorate the memory of Dr. Vishwa Nath, an eminent zoologist and a distinguished Fellow of the Academy out of an endowment made by his students, family members and friends.

   *The lecture shall be awarded for outstanding contributions in **Biochemistry and Biophysics**. The award carries an honorarium of Rs. 25,000/- and a citation. The first award was made in 1995.*

14. **Dr Biren Roy Memorial Lecture**

   The Lecture was established in 1993 out of an endowment made by the Biren Roy Trust to commemorate the memory of Dr Biren Roy, an eminent aeronautical engineer of our country.

   *The lecture shall be awarded for outstanding contributions in **Physics**. The lectureship carries an honorarium of Rs 25,000/- and a citation. The first award was made in 1995.*

15. **Professor Sadhan Basu Memorial Lecture**

   The Lecture was established in 1993 out of an endowment made by the Professor Sadhan Basu Memorial Fund Committee to commemorate the memory of Professor Sadhan Basu, a distinguished Fellow of the Academy who had made significant contributions in areas ranging from polymer chemistry to spectroscopy and quantum chemistry.

   *The lecture shall be awarded for outstanding contributions in **Chemical Sciences**. The lectureship carries an honorarium of Rs 25,000/- and a citation. The first award was made in 1996.*

16. **Dr Yellapragada SubbaRow Memorial Lecture**

   The Lecture was established in 1995 out of an endowment made by the National Committee for Dr Yellapragada SubbaRow Centenary celebrations to commemorate the memory of Dr SubbaRow known for his outstanding contributions in the field of biomedical sciences.

   *The lecture shall be awarded for outstanding contributions in **Medical Sciences**. The lectureship carries an honorarium of Rs 25,000/- and a citation. The first award was made in 1996.*

17. **Professor K Rangadham Rao Memorial Lecture**

   The lecture was established in 1979 out of an endowment by students of Professor K Rangadham Rao, an eminent physicist and a distinguished Fellow of the Academy.

   *The lecture shall be awarded for outstanding contributions in **Spectroscopy**. The lectureship carries an honorarium of Rs 25,000/- and a citation. The first award was made in 1979.*
18. **Professor Rango Krishna Asundi Memorial Lecture**

The Lecture was established in 1983 out of an endowment by the Asundi Endowment Fund to commemorate Professor Rango Krishna Asundi, a Fellow of the Academy distinguished for his researches in spectroscopy.

*The lecture shall be awarded for outstanding contributions in Spectroscopy. The lectureship carries an honorarium of Rs 25,000/- and a citation. The first award was made in 1984.*

19. **Professor Toppur Seethapathy Sadasivan Lecture**

The Lecture was established in 1982 out of an endowment by the Professor Toppur Seethapathy Sadasivan Endowment Committee to commemorate Professor Sadasivan, a distinguished Fellow of the Academy known for his researches in physiology and plant pathology.

*The lecture shall be awarded for outstanding contributions in Plant Sciences. The lectureship carries an honorarium of Rs 25,000/- and a citation. The first award was made in 1982.*

20. **Professor Panchanan Maheshwari Memorial Lecture**

The lecture was established in 1984 out of an endowment by the colleagues and friends of late Professor Panchanan Maheshwari, an eminent botanist and a distinguished Fellow of the Academy.

*The lecture shall be awarded for outstanding contributions in Plant Sciences. The lectureship carries an honorarium of Rs 25,000/- and a citation. The first award was made in 1987.*

21. **Dr Guru Prasad Chatterjee Memorial Lecture**

The Lecture was established in 1979 out of an endowment by Dr GP Chatterjee and Mrs Suniti Chatterjee to commemorate Dr Guru Prasad Chatterjee, an eminent metallurgist and a distinguished Fellow of the Academy.

*The lecture shall be awarded for outstanding contributions in Engineering & Technology. The lectureship carries an honorarium of Rs 25,000/- and a citation. The first award was made in 1981.*

22. **Professor Har Swarup Memorial Lecture**

The Lecture was established in 1981 out of an endowment by Dr (Mrs) Savitri Swarup to commemorate Professor Har Swarup, a distinguished Fellow of the Academy known for his researches on endocrinology, physiology and developmental biology.

*The lecture shall be awarded for outstanding contributions in Animal Sciences. The lectureship carries an honorarium of Rs 25,000/- and a citation. The first award was made in 1984.*
23. **Dr MR Das Memorial Lecture**

The Lectureship was established in 2003 out of an endowment made by Dr (Mrs) Radha R Das to commemorate the memory of her husband Dr MR Das, a distinguished Fellow of the Academy.

*The lecture shall be awarded for outstanding contributions in Biophysics & Biochemistry. The lectureship carries an honorarium of Rs 25,000/- and a citation. The first award was made in the year 2005.*

**PROCEDURE FOR SELECTION AND OTHER CONDITIONS**

*(for International Awards (except Jawaharlal Nehru Birth Centenary Medal) and subject-wise medals/lectures)*

1. **Notice of the Award:** Preceding the year of the award, the Executive Director shall issue a circular in August to all Fellows of the Academy inviting nominations by October 15.

   The nomination paper shall specify (a) Full name, age and address of the nominee; (b) Academic and professional qualifications and positions held; (c) A brief statement (of about 300-350 words) of the outstanding contributions of the nominee in the discipline concerned, highlighting the impact of the work; and (d) A list of titles of the most significant published works (not more than 10).

   The communication inviting for nominations should also indicate the names of all the previous recipients of the award.

2. **Appointment of the Advisory Board:** At a meeting of the Council to be held in December/January, the Council shall appoint an Advisory Board, for each award, consisting of not more than seven members including the President of INSA as Chair. Scientists who are proposed for the award shall not be members of the Advisory Board. The Chairman of the Board shall have a casting vote.

   The candidate proposed for the award should play no role in appointment and/or subsequent deliberations of the Committee which would make selection for the award.

3. **Circulation of the List to Members of the Advisory Board:** The Executive Director shall arrange to circulate the list of valid nominations with detailed information together with their brief particulars to the members of the Advisory Board. The Members of the Advisory Board will be requested to select any one or more names for consideration of the Board giving specific reasons for their selection and forward the same to the Chairman of the Board. Members of the Advisory Board may also be requested to send additional nominations if they wish to do so, one month in advance of the date of the meeting of the Advisory Board.

4. **Selection by the Advisory Board:** The Chairman of the Board shall, on receipt of the views of the members, convene the meeting of the Advisory Board in April close to the meetings of the Sectional Committees. The recommendations of the Board shall be considered by the Council. It shall be open to the Board to report to the Council
that no award shall be made for the particular year, should the Board consider that no suitable name can be proposed in which case the award for the year shall lapse.

5. **Selected Name to be Communicated to the Council:** At the meeting of the Council to be held in April the report received from the Chairman of the Advisory Board shall be considered and decision taken regarding the award. It shall be open to the Council to recommend more than one scientist for the award. In such a case the honorarium will be equally shared among the scientists selected as recipients of the award but each will be given a separate medal.

6. **Announcement:** The name(s) of recipient(s) shall be announced to the Fellowship in the General Body Meeting held in April.

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**(D) AWARDS FOR YOUNG SCIENTISTS**

1. **INSA Medal for Young Scientists**

   **Introduction**

   In 1974, the Academy, in association with Kothari Scientific Research Institute, instituted the scheme of Science Academy Medals for Young Scientists with the aim of distinguishing young scientists of extraordinary promise and creativity who have made notable research contributions in Science and Technology. Since 1981, however, this award has been solely managed and funded by INSA. The INSA Young Scientists Award, considered to be the highest recognition of promise, creativity and excellence in a young scientist, is made annually to those distinguished for these attributes as evidenced by their research work carried out in India. Till 2014, 708 young scientists have been thus recognized. Many of them have established a rewarding scientific career and continue to make outstanding contributions winning further honour both in this country and abroad.

   **Eligibility**

   The award of an Academy medal to a Young Scientist shall be made in recognition of notable contributions to any branch of science or technology, recognized by the Academy, on the basis of work carried out in India.

   Any citizen of India who has not attained the age of 35 years on December 31, of the year preceding the year of award, shall be eligible for the award.

   **Number of Awards**

   The number of awards to be made in any year will be limited to 30.

   **Nominations and Last Date**

   A notification inviting nominations for the award shall be issued each year after the Council Meeting of the Academy held in April/May.

   A candidate may be proposed by a Fellow of the Indian National Science Academy or by earlier recipients of this award. Scientific societies of national standing, university faculties, post-graduate departments or research institutions may also make nominations of eligible candidates.
A nomination will remain valid for consideration for 3 years or the eligibility age whichever expires earlier. However, a fresh nomination (once only) can be made, if the nomine has not yet crossed the age bar.

The nomination shall be made in the prescribed format. One hard copy and a soft copy (in MS-Word only), along with all supporting documents, must reach the Academy latest by October 31.

Selection Committee for the Award

The Vice-President (Fellowship Affairs), at the very outset, may examine the nominations and assign them to various Sectional Committees for consideration. In selecting the candidates for the award, the Council of the Academy shall consider the recommendations of the Sectional Committees as well as other relevant information.

Circulation of the List to the Members of the Sectional Committees

Not later than the second week of January, the Academy shall arrange to circulate the list of nominees along with their particulars to the members of the respective Sectional Committees with a request to communicate their assessment of the candidate to the Conveners of the respective Sectional Committees, by March 1.

The Convener, if necessary, may refer the particulars of such candidates whose areas of specialization are not clearly represented among the members of the Sectional Committee to appropriate experts amongst the Fellows of the Academy.

Grading

The candidates shall be evaluated by the referees in the following grades:
A. Outstanding; B. Very Good; C. Average; D. Unsuitable

Conveners of the various Sectional Committees shall prepare a list of the grades obtained by each candidate and shall recommend not more than seven candidates in order of merit to be called for presentation of their work, provided that they have been rated ‘B’ by 50% of the members who have sent in their assessment. Assessment from at least five members of Sectional Committees must be elicited before making this recommendation.

The candidates invited to present their work shall do so before the concerned members of the Sectional Committee. Efforts will also be made to ensure the presence of other experts (Academy Fellows) at such presentations. These experts, if they so desire, may give their views to the Convener of the Sectional Committee.

The meetings of the Sectional Committees will normally be held during the second week of March/April every year. The Sectional Committees shall devote one full day exclusively to this work.

Candidates called for presenting their work before the Sectional Committees shall be entitled to II AC return rail fare and local conveyance as applicable. Reimbursement will be made on production of tickets.
Recommendations of the Sectional Committees

Each Sectional Committee shall send its recommendations to the Council in writing, duly signed by all members present. The recommendations shall contain, strictly in order of priority, not more than five names. The main criteria for selection will be the originality of the candidate’s research contributions and his/her understanding as evidenced by publications and performance during the presentation.

The recommendations of the Sectional Committee shall be handed over immediately after the meeting, by the Convener, in a sealed envelope addressed to the Vice-President (Fellowship Affairs) of the Academy.

Selection by the Council

The Council will select candidates for this award at the meeting in the month of April/May, based on the reports received from the Conveners of Sectional Committees.

Announcement of the Awards

The names of the Young Scientists selected for the award by the Council shall be announced at the Ordinary General Meeting in the month of April/May and subsequently communicated to the awardees/Fellowship.

Presentation of the Medals

The presentation of Medals will be made by the President, INSA, at the time of Anniversary General Meeting.

For receiving the medal, the awardees (along with spouse or one accompanying person) will be paid travel expenses to cover the actual II AC rail fare and local conveyance as applicable. Reimbursement will be made on production of tickets.

The Academy would bring out a publication containing contributions of the Young Scientists for the award at the time of the presentation of the award.

Value

The award shall consist of a bronze medal of the following specifications:

(i) Size : 6.35 cm in diameter
(ii) Weight : About 114 grams
(iii) Design
    Obverse : Name of Medal (in Devanagari character) Name of the recipient (in Devanagari characters) Year (in International numerals)
    Reverse : Seal of the Academy

Each awardee will be presented a Medal, a certificate and cash prize of Rs. 25,000/- . In addition, the recipient may be considered for research support with seed money.

The awardee within five years of receipt of award will be considered for a visit abroad with full support for presenting research work at conferences, and/or participating in collaborative/training research projects wherever possible.
As part of their career development, those young scientists who have been unable to obtain suitable placement, may be considered for an interim Fellowship (amount depending on the qualification and Research experience) and contingency of Rs. 25,000/- per year. To avail of this Fellowship, the awardee should be attached to some research/ academic institution. The tenure of the Fellowship will be for a maximum period of three years.

Appropriate steps will be taken by the Academy to maintain the relevant information in respect of the career development of all young awardees.

2. Professor LSS Kumar Memorial Award

Established in 1986 out of an endowment by Mrs K Kumar, widow of Professor LSS Kumar, to commemorate the memory of Professor LSS Kumar, an eminent Fellow known for his contributions to Genetics and Plant Breeding.

Eligibility and Value

The award shall be given to a recipient of INSA Medal for Young Scientists for the year in the disciplines of Plant Sciences (Sectional Committee VII), Animal Sciences (Sectional Committee VIII) and Agricultural Sciences (Sectional Committee XII) by rotation, i.e. first award will be made to Plant Sciences, second to Animal Sciences and the third to Agricultural Sciences and the cycle would repeat. In case of more than one person being recommended by the Sectional Committee for the award of the INSA Medal for Young Scientists, the person who is first in order of merit in the list shall be given the award. The award will consist of Rs 1,000/-. 

Announcement and Presentation of the Award

The name of the scientist selected for the award shall be reported at the meeting of the Council to be held in August. The award shall be presented at the time of the presentation of the INSA Medals for Young Scientists in December.

3. Anil Kumar Bose Memorial Award

Established in 1987 from donations received from the family of late Shri Anil Kumar Bose, formerly Executive Secretary, INSA, his friends and Fellows.

Eligibility

The award is open to the recipients of INSA Medal for Young Scientists below the age of 40 years as on 31 December preceding the year of award.

Number and Scope

Two awards (one in Physical Sciences and one in Biological Sciences) shall be made for the best research paper published in reputed Journal by the recipient of INSA Medal for Young Scientists on the work done in India in the subjects falling under Sectional Committees I to VI and VII to XII within five years from the date of receipt of the award of INSA Medal for Young Scientists. The period under consideration for the first award to be given in
October 1988 at the Annual General Meeting will be last five calendar years, i.e. 1983-1987. In subsequent years, the period under consideration would be past five years.

**Value**

The value of the award will be Rs 1,000/-, a bronze medal and a certificate. The recipient will be paid travel expenses to cover actual second AC rail fare and local conveyance as applicable. Reimbursement will be made on production of tickets.

Entries for the award shall be submitted by the eligible candidates in the prescribed form enclosing the following:

(a) 15 copies of best research paper.

(b) 15 copies of complete list of publications.

(c) A complete set of all the papers published after the young scientist award. The last date for receipt of entries in the Academy shall be 15 January.

**Advisory Committee**

The Advisory Committee to recommend names for the award shall consist of President, Vice-President (Publications/Informatics), Vice-President (Fellowship Affairs), Conveners of Sectional Committees concerned and one or two experts, if necessary, nominated by the President. The Advisory Committee will meet in April/May at the time of meetings of Sectional Committees.

**Selection and announcement of the award**

At the meeting of the Council to be held in April/May, the recommendations of the Advisory Committee will be considered and decision taken regarding the awards. The names of the awardees will be intimated to the Fellowship.

**Presentation of award**

The presentation of the award will be made at the Anniversary General Meeting.

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**(E) INSA TEACHERS AWARD**

**Scope**

To recognize and value excellence, consistency and high level of teaching in Indian Colleges, Universities and Institutions, the Academy instituted INSA Teachers Award in 2012. The award shall be made annually to recognize and honour teachers for providing guidance, inspiration and mentoring students to take up careers in Science and Technology. All disciplines of Science and Technology including Medical & Engineering Sciences come under the purview of this award.
Eligibility

a) The award shall be made to outstanding teachers currently working or worked till retirement in India, with at least 20 years of teaching experience at undergraduate or postgraduate level in any Indian College/University/Institution.

b) Maximum age limit is 55 years as on December 31 of the year preceding the year of the award.

c) The award will not be offered to Fellows of any of the national academies. It will also not be offered to anyone who is Vice-Chancellor of a University, Director of an Institution/laboratory and/or holding a position where his/her teaching is restricted.

d) Selection will be based on consistent excellence in teaching as evident from performance of students, inspiring students to take up careers in Science and Technology, introducing novel teaching methods, experiments and materials, and pedagogy. Active involvement in science popularization and outreach activities will be an additional consideration.

Number of Awards

The number of awards to be made in any year shall be up to 12.

Nominations and Last Date

A notification inviting nominations for the award shall be issued each year in the month of February/March.

A teacher may be nominated by Fellows of INSA, Principal of a College, Vice-Chancellor of a University, Director of an Institution, a colleague or by a former student who is associated with an academic/R&D institution. The nominator may forward only one nomination in a year.

A nomination shall remain valid for consideration for two consecutive years.

The nomination shall be made in the prescribed format. One hard copy and a soft copy (in MS-Word only), along with all supporting documents, must reach the Academy latest by May 31.

Selection Committee for the Award

Nominations shall be considered by a nine member Committee duly constituted by President, INSA. Each member in this committee will serve for a period of three years. One third of the members will retire every year. No new names should be discussed and proposed during the meeting. The Committee shall place its recommendations to the Council in October meeting for final approval.
Particulars of such candidates whose details/areas of specialization are not clearly represented among the members of the Committee may be referred to appropriate experts as identified by the Committee members preferably amongst the Fellows of the Academy.

**Announcement of the Awards**

The names of the awardees selected for the award shall be announced in the Annual General Meeting in the month of October and subsequently communicated to the awardees.

**Presentation of the Award**

The presentation of the Awards shall be made by the President, INSA, at the time of Anniversary General Meeting.

For receiving the award, the awardees (along with spouse) will be paid travel expenses to cover the actual airfare (economy) and local conveyance as applicable. INSA will help in providing local hospitality. Reimbursement will be made on production of tickets.

**Value**

Each awardee will be presented a scroll and a cash award of Rs. 50,000. In addition, the awardee will also be eligible for a onetime book grant up to Rs. 20,000. For this, appropriate bills may be submitted to the Academy for the re-imbursement within a year of the announcement of the award.

(F) **INSA YOUNG HISTORIAN OF SCIENCE AWARD**

The Academy has instituted an **INSA Young Historian of Science Award** with the aim of recognizing young historian of science of extraordinary promise and creativity who have made notable research contributions in areas related to History of Science. This award, considered to be the highest recognition of promise, creativity and excellence is made annually to those historians of science distinguished for these attributes as evidenced by their research work carried out in India.

The awardee shall receive a certificate, a bronze medal, cash award of Rs. 25,000/- and seed amount to initiate research project and further scope for overseas training for advancement of career.

A candidate may be nominated by a Fellow of the Indian National Science Academy and other National Scientific societies, Vice Chancellors of Universities and Heads of Research Institutions. Nomination proforma can be downloaded from website www.insaindia.org.
GUIDELINES FOR THE AWARD OF ACADEMY MEDALS/PRIZES/LECTURES

1. **Periodicity**: All Academy Medals/Prizes/Lectures will be awarded once in three years.

2. **Eligibility**: A person shall not be eligible for more than two awards excluding the General Medals, International Medals and Medals related to Young Scientists.

   The selection for General Medals which are given for outstanding contributions in any branch of science coming within the purview of the Academy, may be made from distinguished scientists in recognition of their service to the Academy or to science.

   The selection for Subjectwise Medals/Lectures should be made from persons who have made outstanding contributions to the discipline of science for which the awards are allocated.

   The awards shall normally be given to Fellows. In exceptional circumstances, and in certain areas where nominees are likely to be from a broader base, they may be awarded to non-Fellows.

3. **Presentation of award and delivery of lecture**: The presentation of the award will be made to each recipient after he/she delivers the award lecture. The lecture will be arranged under the aegis of INSA Local Chapter unless otherwise stated. The summary of the award lecture will be included in INSA News and the full text in Proceedings of the Academy.

   TA/DA will be paid to the Awardee for delivering the award Lecture.

4. **Specification of the Medal**: The specifications of the Medal (Copper Medal, Gold/Silver plated or the Bronze medal as the case may be) will be as follows:

   (i) **Size** : 6.35 cm in diameter

   (ii) **Weight** : About 114 grams

   (iii) **Design** : *Obverse*: Name of the Medal and the Recipient *in Devanagari characters*

   Year of the Award (in International Numerals)

   *Reverse*: Seal of the Academy
GUIDELINES FOR ACCEPTING ENDOWMENTS
FOR INSTITUTING AWARDS

1. Endowments shall not be operated in the name of a living Fellow.
   These endowments will be used to create a medal or lecture award or for a named travel fellowships.

2. The minimum endowment amount acceptable shall be Rs. Ten lakhs.

3. The endowment amount shall be invested by the Academy to earn maximum interest.

4. 10% of the income accruing from the endowment fund shall be credited to INSA fund for recovering some of the administrative expenses involved in administering the award.

5. The scope of the award should be as broad as possible and should not be restricted to specific subdivision of science.

6. The award will be made once in three years.

7. No award will be established in the name of a non-scientist.

8. The award may consist of a cash prize and a bronze medal. The recipient may also be paid TA/DA for journeys performed for delivering the award lecture. Expenditure on TA/DA shall be charged to the income from endowment fund. The venue of the award lecture shall be decided by the Council.

9. In addition to establishing an endowment lecture/medal, the Council will also accept endowments to establish **Young Scientists Travel Award** for supporting young researchers to attend International conferences/workshops/training programmes or for them to undertake a visit for collaborative work connected with their research project within the country or abroad.

10. The selection and other conditions of the award shall be governed by the regulations as may be framed by the Council.

11. Council of the Academy will have a right to amend any regulation concerning operation of the endowment and of the award.
JAWAHARLAL NEHRU BIRTH CENTENARY VISITING FELLOWSHIP

Regulations

1. Name of Fellowship

The Fellowship established in 1989 shall be called the “Jawaharlal Nehru Birth Centenary Visiting Fellowship”. The first Fellowship shall be awarded for the year 1991.

2. Objective

The “Jawaharlal Nehru Birth Centenary Visiting Fellowship” is established to commemorate Pt. Jawaharlal Nehru’s support for science. This lectureship would enable the Academy to project the progress made by India in Science and Technology in the countries abroad.

3. Number of Fellowship

One Fellowship would be awarded once in three years and would not be restricted to the countries with whom INSA has Exchange Programme.

4. Duration of Visit

The scientists selected by INSA under this Fellowship would be deputed to undertake a visit upto the period of 4 weeks in one or two countries to be specified each year.

5. Procedure of Selection

President, INSA, shall appoint a Search Committee to select the name of a distinguished scientist for the Fellowship for the ensuing year in any field of Science and Technology. The Committee shall consist of 4 members including President, INSA who will be the Chairman of the Search Committee. The name selected by the Search Committee shall be reported to Council at its October meeting.

6. Announcement of Fellowship

The name of the scientist selected for the Fellowship shall be announced at the Annual General Meeting of the Academy in October preceding the year of the Fellowship.

7. Value of the Fellowship

INSA would meet the cost of return passage of the awardee from the place of duty to the place of last destination. If the awardee desires to visit a country with whom INSA has exchange programme, the cooperating Academy/Organisation of that country would be requested to provide local hospitality for a period upto 4 weeks. In that case INSA would provide him/her $ 20 per day for incidental expenses. For other countries INSA may provide $ 120 per day for board and lodging and meet the cost of medical and other insurances.

8. Report of Visit

The scientist would submit a report of visit within two months.
INSA MEDAL FOR YOUNG SCIENTISTS
AWARDEES-2015

1. Dr B Anand (b 06.01.1981), PhD, Department of Biosciences and Bioengineering, Indian Institute of Technology, Guwahati.
For his novel insights into mode of action of GTPases and diverse cellular functions that they regulate. His work on CRISPR-cas system has potential applications in genome engineering.

2. Dr Rehna Augustine (b 18.05.1981), PhD, National Institute of Plant Genome Research, New Delhi.
For her significant work on the manipulation of glucosinolate pathway in oilseed mustard (Brassica juncea). Her transgenics for MYB2 gene could be of high agronomic value in developing low glucosinolate varieties and hybrids.

3. Dr Jyotishman Bhowmick (b 05.11.1981), PhD, Stat Math Unit, Indian Statistical Institute, Kolkata.
For his outstanding results on quantum isometry groups of compact quantum groups which have attracted the attention of, and been put to good use by, established experts in the area.

4. Dr Arup Kumar Das (b 18.04.1980), PhD, Department of Mechanical and Industrial Engineering, Indian Institute of Technology, Roorkee.
For development of computational algorithms for dispersed two phase flow with complex interfaces and its experimental validation.

5. Dr Rajendra Singh Dhaka (b 10.06.1980), PhD, Department of Physics, Indian Institute of Technology, Delhi.
For his unique and significant experiments on rare-gas nanobubbles in metallic surfaces and establishing a general relation between the nanobubbles and the binding energies of the rare gas atoms.

6. Dr Sumit Ghosh (b 01.05.1980), PhD, Department of Plant Biotechnology, CSIR-Central Institute of Medicinal and Aromatic Plants, Lucknow.
For having cloned and functionally characterized novel amyrin synthase genes from sweet basil for the biosynthesis of medicinally important pentacyclic triterpenes. He also engineered slow ripening of tomato by silencing genes that control N-glycan processing.

7. Dr Jitender Giri (b 01.07.1980), PhD, National Institute of Plant Genome Research, New Delhi.
For discovering rice genes for stress-associated proteins (SAP 1 and SAP 11) and receptor-like cytosolic kinase (RLCK 253) that confer abiotic stress tolerance in rice and in transgenic Arabidopsis plants.

8. Dr Ashish Gupta (b 22.08.1980), PhD, Department of Life Sciences, Shiv Nadar University, Greater Noida.
For discovering functional characterization of the homologue of eukaryotic Origin Recognition Complex (ORC) subunits in *Plasmodium* and for identifying the presence of proliferating cell nuclear antigen (PfPCNA) Interacting Protein (PIP) motif in PfOrcl and confirming the physical interaction between PfORC and PfPCNA by interaction studies and complementation assay.

9. **Dr Nilesh Prakash Gurao** (*b* 11.03.1983), PhD, Department of Materials Science and Engineering, Indian Institute of Technology, Kanpur.  
For his outstanding work in elucidating deformation mechanisms at multiple length scales (from nanometer to millimeter), in particular, his demonstration of the similarity of deformation mechanisms in coarse grained and nanocrystalline Nickel on the basis of misorientation angles determined by electron back scattered diffraction.

10. **Dr Tanvi Jain** (*b* 17.05.1981), PhD, Indian Statistical Institute, New Delhi.  
For her contribution in Matrix Analysis and proof of the variational principle for symplectic eigenvalues of strictly positive real matrices of even order.

11. **Dr Vikas Jain** (*b* 06.02.1980), PhD, Department of Biological Sciences, Indian Institute of Science Education and Research, Bhopal.  
For his understanding of the interactions that occur between a bacterium and its phage and for developing expression vectors for the rapid cloning and expression of proteins with hexahistidine tag at either termini.

12. **Dr Sameena Khan** (*b* 23.05.1984), PhD, Translational Health Science and Technology Institute, Faridabad.  
For her outstanding work about the structural basis of aminoacylation of tRNA in *Plasmodium falciparum* which has potential application in development of novel therapies against Malaria.

13. **Dr Hima Bindu Kudapa** (*b* 22.04.1980), PhD, Center of Excellence in Genomics, International Crops Research Institute for the Semi-Arid Tropics, Greater Hyderabad.  
For her excellent contributions on gall midge and legume transcriptome which is of high value and useful for breeding of chickpea.

14. **Dr Biman Behari Mandal** (*b* 07.07.1981), PhD, Department of Biosciences and Bioengineering, Indian Institute of Technology, Guwahati.  
For developing innovative use of silk fibre base scaffolds for human tissue engineering and for demonstrating their versatility in applications ranging from skin repair to scaffolds for bone repair.

15. **Dr Athi Narayanan Naganathan** (*b* 28.11.1980), PhD, Department of Biotechnology, Indian Institute of Technology, Madras.  
For developing statistical mechanical models for computational prediction of folding thermodynamics and for comparing predictions with experimental results on biologically important proteins like ACBP, lkbα, RNaseH etc.
16. Dr Rajesh V Nair (b 24.05.1980), PhD, Department of Physics, Indian Institute of Technology Ropar, Punjab.
   For synthesizing and studying high quality photonic crystals in the visible and near infrared wavelength ranges and for obtaining photonic band edge lasing from Si-nanophotonic structures.

17. Dr Santanu Kumar Pal (b 18.03.1981), PhD, Indian Institute of Science Education and Research, Mohali.
   For his significant contributions on liquid crystal based sensors in detection of cellular analytes.

18. Dr Vivek Vijay Parkar (b 06.09.1980), PhD, Nuclear Physics Division, Bhabha Atomic Research Centre, Mumbai.
   For his outstanding contributions on experimental measurements of fusion cross sections of weakly-bound nuclei on a range of targets which has opened novel possibilities for studying nuclei away from the line of stability.

19. Dr Anbarasan Pazhamalai (b 03.06.1982), PhD, Department of Chemistry, Indian Institute of Technology, Madras.
   For his notable work on transition metal catalyzed methodology for synthesis of pharmaceutical and useful molecules through cross coupling reactions.

20. Dr Vijay Kumar Prajapati (b 05.07.1984), PhD, Department of Biochemistry, School of Life Sciences, Central University of Rajasthan, Ajmer.
   For his important work on nanonization of amphoteresin B, a newer experimental approach in hamster animal model to increase the antileishmanial efficacy.

21. Dr Upasana Ray (b 11.10.1982), PhD, National Cancer Institute, National Institutes of Health, Bethesda, USA.
   For establishing the existence of switch from translation to replication of HCV RNA and for designing peptide based antivirals that target La protein and HCV NS3 protein and which could inhibit the HCV RNA function.

22. Dr Nitin Saxena (b 03.05.1981), PhD, Department of Computer Science and Engineering, Indian Institute of Technology, Kanpur.
   For his renowned contributions in the area of algebraic complexity theory and significant studies of the development of important deterministic algorithms for primality testing, polynomial identity testing and construction of hitting sets.

23. Dr Maheswaran Shanmugam (b 01.06.1980), PhD, Department of Chemistry, Indian Institute of Technology, Bombay.
   For his comprehensive studies of the electronic and magnetic properties of molecular nanomagnets.

24. Dr Narendra Pratap Singh (b 23.03.1981), PhD, Stowers Institute for Medical Research, Kansas City, Missouri, USA.
   For elucidating the divergence of the developmental roles of Drosophila Abd-a and Abd-b in determining segment identity and proliferation in body segments where they are co-expressed.
25. **Dr Pankaj Kumar Singh** (b 03.02.1980), PhD, Department of Translational Medicine and Neurogenetics, Institut de Genetique et Biologie Moleculaire et Cellulaire (IGBMC), France.

   For unravelling cellular functions of Lafora disease proteins and proposing inhibition of SGK 1 as a potential therapeutic strategy for the treatment of the Lafora disease.

26. **Dr Hari Sridhar** (b 28.04.1982), PhD, Centre for Ecological Sciences, Indian Institute of Science, Bengaluru.

   For his significant studies leading to the understanding of the relative roles of predation and foraging success in driving multi-species flocking in birds.

27. **Shri Shashi Kant Tiwari** (b 10.07.1985), MSc, PhD (Thesis Submitted), Developmental Toxicology Division, Indian Institute of Toxicology Research, Lucknow.

   For demonstrating the mechanisms by which Bisphenol A (BPA) affects the endogenous neural stem cells and oligodendrocyte progenitor cells which lead to the identification of means of its amelioration by curcumin.

28. **Dr Gyana Ranjan Tripathy** (b 05.07.1981), PhD, Earth and Climate Sciences, Indian Institute of Science Education and Research, Pune.

   For his significant work on $^{187}$Os / $^{188}$Os isotope ratios of the black shale and usefulness of this technique in estimating the atmospheric oxygen levels in the geological past and for focusing on low temperature weathering in the Himalayas and its linkage to the tectonic processes.

29. **Dr Shri Ram Yadav** (b 09.07.1980), PhD, Department of Biotechnology, Indian Institute of Technology, Roorkee.

   For his outstanding contributions on the molecular mechanism of action of a gene that regulated floral organ specification and development in rice and for demonstrating the role of gene duplication and diversification of function during evolution of rice floral development.

**INSA YOUNG HISTORIAN OF SCIENCE AWARDEES-2015**

1. **Dr K Mahesh** (b 31.12.1980), PhD, Research Associate, Science & Heritage Initiative-SandHi, Cell for Indian Science and Technology in Sanskrit, Indian Institute of Technology, Bombay, Mumbai

   For his excellent appraisal of the proof of the Surface Area of a Sphere given by Bhaskaracharya in his famous work *Siddhantasiromani* (12 Centuary CE).

2. **Dr Rohit Sharma** (b 19.07.1986), PhD, Assistant Professor, Abhilashi Ayurvedic College and Research Institute, Abhilashi University, Mandi, Himachal Pradesh.

   For his analytico-pharmaco-clinical studies on the role of *Bhavana Samskara* on *Guduchi* (*Tinospora cordifolia*) *Churna* and its effect in controlling *Madhumeha* (Type 2 Diabetes) based on ancient Indian texts.
RECIPIENTS OF INSA MEDAL FOR YOUNG SCIENTISTS 1974-2015

1974
Brij Gopal
Chandrasekharaiah MN
Gupta CM*
Johri BN
Kapoor AK
Kaw PK*
Padmanabhan KA
Raizada MK
Rajoria DS
Rao BV
Rastogi PP
Ray SK
Sahni VC
Sankaran MS
Sengupta S
Shaila MS
Singh Lalji*
Singh VR
Suryanarayana C
Swamy KN
Tandon SK*

Haider S
Halyburton RV
Mohapatra P
Pawar VM
Prasad SSV
Sen A*
Suloria A*
Tyagi VVS

Koula OK
Ladha JK
Pal Amita
Ramakrishnan S

1975
Bhattacharya NC
Dhindsa KS
Hagroo AA
Kataria SK
Khalatkar AS
Kochhar N
Krishnaswami S*
Lakhota SC*
Munjal ML*
Rao J Lakshmana
Ray M
Shamsuddin

Bansal M*
Brahmachari SK*
Chattopadhyay K*
Jaluria Y

1977
Ahmad A
Bhattacharya AN
Chandola A
Dattagupta S*
Dubey SK
Joshi VP
Kak SC
Kumar Vijay
Raghavendra AS*
Rathore RKS
Singhik NKM*
Sinvhal H
Sobti RC*
Suri AK

1978
Chaddah P*
Das KC
Datta AR
Deodhar VV
Easwaramoorthy S
Ghosh Chunital
Goswami JN*
Khanna-Chopra R*
Ramasesha SS*
Ranganath HA*
Sen K*

1979
Chattopadhyay K*
Jaluria Y

1980
Ahmad A
Balaram P
Sengupta S
Shamsuddin

1981
Chattopadhyay K*
Jawaharlal BVK
Das UC
Joshi JB*
Katti CP
Kota VKB
Kulkarni BD*
Kunwar AC
Lala AK*
Mohan S
Nagaraj R*
Nagarkatti PS
Pain D
Rental N
Saini KB
Sidhu KS
Srivastava SM
Tripathi RD
Vittal KPR
Yadav RL

* Elected INSA Fellow
1982
Anand A*
Bhatia R*
Gadre SR*
Ghosh DP
Goela JS
Gupta G
Gupta SK*
Gupta YK
Hasan SS
Jemmis ED*
Kaul RK*
Mohan Kumar N
Ramanuja Rao IV
Raychaudhuri A*
Seetharaman V
Sivakumar MVK

1983
Aggarwal PK
Dhar D*
Haldar Misra C
Jha S
Krishnamurthy HR*
Lamba VJ
Lobo MLR
Malakondaiah G
Prasad BVV
Ram Babu HV
Rana NC
Sarma DD*
Sastri DC
Saxena AK
Srivastav AK
Tuli R*
Yadav RB

1984
Chakrabarti BK*
Giri AK*
Gupta PD
Hosur RV*
Kulkarni RN
Lavania UC*
Padmanabhan T*
Rao N Hanumantha
Ray DS*
Sastry GVS
Sharan M*
Singh SK
Srivastava Nalini
Thakur MK
Viswanathan K

1985
Brahmachari Vani*
Dutta A
Gadagkar R*
Ganesh KN*
Jain Sudha
Karandikar RL*
Krishna KR
Ogale S
Radhakrishna T
Rai A
Raka Madhu
Ramawamy R*
Saikia DJ
Singh VP
Sundararajan G*
Venkataramani N

1986
Bagchi B*
Basra AS
Battacharyya K
Chary KVR*
Gowrishankar J*
Home D
Koul SK
Mehrotra R
Mishra B
Sampathkumaran EV*
Sekhar JA
Sekharudu YC
Sharma A*
Upadhyan RS
Varadachary Chandrika

1987
Biswa DJS
Biswa SK
Datta Dipankar
Jarori Gotam K
Joenathan C
Khan Mohd Islam
Kumar Ajay
Kumar PA
Lakhan Sujata
Mehrotra Priti
Misra RK
Pal Sourav*
Pande Gopal
Ramesh R*
Srikrishna A*
Srinivas Vasudevan*

1988
Arora VK
Chaturvedi MM
Durga Prasad M
Jayaraman A
Mahata SK
Majumder K
Nautiyal CM
Pandit Rahul*
Samuelson AG
Sarkar Utpal*
Sharma Eklabya*
Singh Zora
Srikant YN
Visweswariah SS*

1989
Basu Joyoti*
Chanda Bhabatosh
Chandrasekhar V*
Chowdhury D*
Dadhwal VK
Deobagkar Deepti D
Dey GK*
Dikshit Madhu*
Mandal B
Mehra Anurag
Mohan Anand
Mohanty S
Nitsure Nitin
Pande Kanchan

* Elected INSA Fellow
Ramesh N
Ray Debraj
Saluja Daman
Viswanathan N

1990
Asokan S
Chakrabarti SK
Chari Vyjayanthi
Chatteraj PK*
Das P
Dattananda CS
Grover A*
Joshi RR
Kaul RK
Mukhopadhyay NK
Nityanand Soniya
Sarkar A*
Singh SM
Venkataramana TN*

1991
Ajayaghosh A*
Amarendra G
Bagchi SN
Bhaskarwar Ashok N
Chakrabarti PP*
Das Bibhu Ranjan
Kumar Vinay
Mazumdar S
Mohanty Ajit Kumar
Murthy C Siva Ram*
Padma S
Rajaram Nirmala
Sengupta Pulak*
Uma Kuchibhotla

1992
Basu Partha
Bhatt JR
Gaikar VG
Ghosh SK
Gupta Vibha
Hayaran Archana
Kumar Anil
Mandal N*
Manna Indranil*
Mehta Anuradha
Mukhopadhyay J
Naik NR
Pandey S
Radhakrishnan TP*
Ramachandran HS
Ramesh DS
Tripathi Renu

1993
Balasubramaniam R
Chakraborty Tapas
Chaudhury Santanu
Dhawan Alok
Garde Chandrasekhar S
Goyal Neena
Guptasarma Purnananda
Jood Sudesh
Kumar Alok
Puri Sanjay*
Ramesh R
Ray Samit Kumar
Singh Narpinder*
Sujatha R*
Teni Tanuja R

1994
Bhagat Lakshmi
Bhandari SK
Chowdhury DR
Jain Sudhir Ranjan
Kinger Asha Kiran
Mohan G
Mohapatra T*
Parameswaran AJ
Raghubanshi AS
Rangarajan PN
Ray Debashish
Singh Ashok Kumar
Singh-Sangwan N
Tribedi LC
Venkatesh R

1995
Alam Jane
Banerjee Mohua
Chandra Amalendu*

1996
Basak Jayanta
Chakravarty C*
Chandrasekhar Srivari*
Dhar Manoj Kumar
Geetha L
Ghosh Kartik Chandra
Habib Saman
Kumar Sanjay
Kumaran Viswanathan*
Mukhopadhyay Siddhartha
Raman Bakthisaran
Shah Nimish Arun
Srivastava Pratima

1997
Bhat BV Rajarama*
Das B
Das TK
Gahalaut VK
Khan FA
Mazumdar C
Ramachandran S
Rao BSS
Senthilkumaran P
Srikanth R
Suresh V*

1998
Awana VPS
Bashyam MD
Bhatt AG

* Elected INSA Fellow
Academy Awards

Ghosh HN
Guha Suranjana
Gupta SK
Gupta Taruna Madan
Kannan S
Lakshminarayan A
Lele AK
Majumdar SN
Manglik A
Narayan JP
Pandit Alka
Reddy JJ
Sane AP
Sharma VK*
Sridharan R

1999
Agarwal Rajiv
Chandran Mahesh
Dasgupta P
Emerald BS
Gahalaut Kalpna
Ghosh Sandip
Khare C
Mittal Sanjay*
Rathore D
Uma Shankar
Venkatesh KV

2000
Arvind
Bandyopadhyay S*
Bhardwaj Dheeraj
Datta Malabika
Mahaptra Susanta
Pal Arupkumar
Pal Debnath
Ray JS
Tiwari VM

2001
Hariharan R
Krishna MMG
Krishnamurthy M
Nagendra Harini
Padiath QS

Patel VV
Ratnaparkhi GS
Roy Lopamudra
Singh Baljeet

2002
Banerjee SS
Kannan Natarajan
Mishra Sukumar
Mohapatra DK
Nath Sukhendu
Roy Sudipto
Safvan CP
Satheesh SK*
Raja Sekhar GP
Shenoy VB

2003
Ahmad Altaf
Anil Veena S
Bhattacharya S
Chakraborty Suman
Guhan N
Holla Yogish I
Jhaveri Dhanisha
Mohanthy B
Narayanan G
Nayak Dalia
Radder RS
Raychaudhuri P
Sheth HC
Unniraman Shyam
Walia Kamini

2004
Agarwal Tushar
Bhattacharyya SN
Fernandes RA
Ghazi Arjumand
Goswami Debashish
Gujral HS
Harinipriya S
Marhas Kuljeet Kaur
Meena Balaraman
Patwardhan AW
Radhakrishna Sindhu
Rudrabhatla Parvathi

2005
Banerjee S
Basu B
Chandrakumar KRS
Chakraborty PS
Choudhury D
Dalai TK
Jain SL
Karmakar S
Krupa A
Kshetrapal P
Perumal A
Richa Rikhy V
Roy A
Sandep K
Sharma PK
Stephen J
Vohra A

2006
Babu S Suresh
Chakrabarti S
Chandra Poonam
Datta AB
Garg Naveen
Ghosh S
Hossain GM
Hotha Srinivas
Joshi PK
Joshi YM
Kessarkar PM
Mishra Vandana
Modi DN
Prakash Prachee
Ramachary DB
Roy A Ghosh
Sawant SV
Selvin J
Sunoj RB
Trivedi OA

2007
Agarwal AK

* Elected INSA Fellow
Banerjee S
Bisht NC
Chandran L Sunil
Dhawan S
Ghosh S
Gupta A
Jain M
Jana T
Kulwal PL
Kumar A
Manimekalai R
Mondal M
Nair S
Panjabi P
Ramakrishna SA
Ranganathan A
Ravi Kumar MNV
Sandhu AS
Satheshkumar PS
Sethi DK
Sodhi NS
Sriram V
Vasa P
Vidya TNC

Qamra Rohini
Sarkar RR
Sharma Deepak
Siddappa NB
Simanshu DK
Sinha Sharmistha
Sundar Durai
Thakur JK
Varshney RK*
Yadav SK

2009
Anand Govindan V
Atreyas HS
Bhadra Anindita
Bharali Gautam
Bharti Alok Chandra
Brinda KV
Chakraborti Anirban
Chaturvedi CP
Dabeer OJ
Gandhe AS
Ghosh Anil Kumar
Gonnade RG
Krishnan Yamuna
Kulkarni AA
Kumar Brijesh
Mahajan Namit
Mallappa Chandrashekara
Mohapatra JK
Mukhopadhyay Soumik
Patil SA
Pillai BR
Prasad Kalika
Purkait MK
Rajeev PP
Ramesh KV
Tiwari Manish
Venkatasubramanian G
Yadav Manoj Kumar

2008
Ahmed KA
Anandavardhanan UK
Bose Sangita
Chaterjee Saibal
Dey Sagnik
Gadgil S
Ganguly Agneyo
Garg Ashish
Gharpure SJ
Gogate PR
Iyer PK
Kavitha T
Kumar PS
Mukherjee PS
Nagarajan R
Pal Bipul
Pal Dinesh
Prabhudesai VS

Baskar V
Biswa Krishanu
Chandrasekar VK
Datta Ayan
Dey Sutirth
Dixit NM
Hendre PS
Jha Gopaljee
Kumar KK
Kumar Niti
Kumbhakar Manoj
Misra Santanu
Mitra Supriyo
Mukhopadhyay D
Nandi Dhananjay
Natarajan Vijay
Paila Yamuna Devi
Pakshirajan Kannan
Parida SK
Patil Nitin T
Prasad A
Rana SS
Roy Choudhury S
Saravanan M
Sawarkar RS
Shankaranarayanan S
Shukla RK
Srivastava Tapasya

2010
Bahadur RP
Bajaj Kanika

* Elected INSA Fellow
Academy Awards

Jain Sanyog
Kumar Amit
Kumar Dhiraj
Mabalirajan Ulaganathan
Majee Manoj
Maji Pradipta
Misra Deepankar
Naimuddin Md
Nair Sivadasan Vijaykumar
Pani Tapan Kanti
Priyakumar U Deva
Roy Amit
Singh Rajender
Vishnoi Nisheeth Kumar
Yadav Gitanjali

2012
Agarwal Pinky
Bandyopadhyay Samiran
Bera Melinda Kumar
Bhattacharyya Partha
Biswa Kaushik
Chakraborty Kausik
Chandra Vivek
Chaturvedi Rajnish Kumar
Chavali Sreenivas
Das Siddarth Shankar
Dasgupta Suman
Ghosh Subimal
Gopalan Aravind
Hussain Tanveer
Kayal Neeraj
Mallik Moushami
Mondal Partha Pratim
Mukherjee Saptarshi
Ojha Maheswar
Patel Nitinkumar L
Rub Abdur
Sahoo Bijaya Kumar
Saxena Rachit Kumar
Sen Pratik
Singh Ajay
Singh Amanjot
Singh Amit Kumar
Sridhar P Ramu
Srivastava Vimal Chandra
Tiwari Supriya

2013
Abhilash PC
Biswa Imran Habib
Chavali PL
Dwivedi Suneet
Ghosh Sujit Kumar
Grover Abhinav
GV Pavan Kumar
Jeganmohan Masilamani
Kar Susanta
Kota Murali
Kommireddy Vasu
Mandal Sumantra
Mishra Amit Kumar
Misra Abha
Mitra Aniruddha
Mrinal Nirotpal
Nair Nisanth Narayanan
Nair Shiny Narayanankutty
Rajaraman Gopalan
Raju Suvrat
Roy Nirupam
Sahu Kirti Chandra
Saraswat Rajeev
Sengupta Sonali
Sharma Pradeep
Trivedi Arun Kumar
Upadhyay Santosh Kumar
Vaish Rahul
Vaze Rahul
Wahi Pankaj

2014
Agarwalla Sanjib Kumar
Bose Suryasarthi
Chakraborti Sayan
Chandrasekharan Nair
Vineeth
Chatterjee Abhijit
Das Soumya
Garg Rohini
Ghosh June
Gupta Neena
Hogadi Amit Pratap
Jash Sukanta
Karri Mani Krishna Venkata
Kumar Ashutosh
Kumar Mahesh
Lata Charu
Maiti Debabrata
Misra Rajneesh
Mukherjee Animesh
Mukherjee Santanu
Palit Mithun
Pananghat Gayathri
Pant Vimal
Radhakrishnan Mahalakshmi
Rout Prakash Chandra
Singh Ram Pratap
Singh Sunil Kumar
Srivastava Ashish Kumar
Verma Gaurav
Viswantha Ranjani
Yadav Vijay Pal

2015
Anand B
Augustine Rehna
Bhowmick Jyotishman
Das Arup Kumar
Dhaka Rajendra Singh
Ghosh Sumit
Giri Jitendra
Gupta Ashish
Gurao Nilesh Prakash
Jain Tanvi
Jain Vikas
Khan Sameena
Kudapa Hima Bindu
Mandal Biman Behari
Naganathan Athi N
Nair Rajesh V
Pal Santanu Kumar
Parkar Vivek Vijay
Pazhamalai Anbarasan
Prajapati Vijay Kumar
Ray Upasana
Anil Kumar Bose Memorial Award
1988 Jemmis ED
1989 Biswas DJ
1989 Chary KVR
1990 Bagchi B
1991 Sharma Anurag
1992 Datta Dipankar
1993 No Award
1994 Chakrabarti SK
1995 Chakrabarti PP
1996 Mazumdar S
1996 Guptasarma P
1997 Chandra Amalendu
1998 Porsezian K
1998 Raman B
1999 Chakravorty C
1999 Jain SR
2000 Ghosh HN
2001 Khan FA
2001 Sharma VK
2002 Mittal Sanjay
2003 Narayan JP
2004 Mahapatra S
2004 Venkatesh KV
2005 Patel Vijay V
2006 Raychadhuri P
2007 Chakraborty S
2008 Anil Veena S
2009 Selvin J
2010 Ramachary DB
2010 Sawant SV
2011 Gogate PR
2011 Jain Mukesh

Professor LSS Kumar Memorial Award
1986 Upadhyay RS
1987 Pande Gopal
1988 Singh Zora
1989 Saluja Daman
1990 Singh SM
1991 No Award
1992 Bhatt JR
1993 Goyal Neena
1994 Mohapatra T
1995 No Award
1996 Habib Saman
1997 No Award
1998 Pandit Alka
1999 Emerald BS
2000 No Award
2001 Nagendra H
2002 Roy Sudipto
2003 Ahmad Altaf
2004 Rudrabhatla P
2005 Kshetrapal P
2006 Selvin J
2007 Jain Mukesh
2008 Pal Dinesh
2009 Mohapatra JK
2010 Shukla RK
2011 Roy Amit

INSA Teachers Award
2012 Dhamodharan R
Elias AJ
Gautam P
Mazumder Shibnath
Nair AS
Pandi AS
Pandit AB*
Pati PK
Yadav RR

2013 Chaudhuri AN
Donde SU

* Fellow

2014 Dasgupta Somnath*
Kumar Anil
Kumar Arvind
Mallik Asok Kumar*
Patil Sharashchandra
Harishchandra
Ranganathan Subramania*
Roy Bimal Kumar
Som Sankar Kumar
Verma Satish Chander
Wadia Murzban Sorab

2015 Cherkupally SR
Jaggi Seema
Joag SD
Keshavamurthy Prakash
Mishra RK
Mukhopadhyay Joydip
Pandya TC
Parkash Ravi
Rangwala AA
Rao TR
Sahadevan Ramajayam
Vellat KK

INSA Young Historian of Science Award
2014 Pai Venketeswara R
2015 Mahesh K
2015 Sharma Rohit
## Recipients of Medals/Lectures Awards

### International Awards

<table>
<thead>
<tr>
<th>Year</th>
<th>Recipient(s)</th>
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<tr>
<td>1985</td>
<td>S Chandrasekhar</td>
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<td>M John Rees</td>
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<td>1987</td>
<td>G Swarup</td>
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<td>1988</td>
<td>JV Narlikar</td>
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<td>1989</td>
<td>G Burbidge</td>
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<td>1990</td>
<td>AA Penzias</td>
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<td>1990</td>
<td>RW Wilson</td>
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<td>AK Raychaudhuri</td>
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<td>1992</td>
<td>RR Daniel</td>
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<td>1993</td>
<td>JP Ostriker</td>
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<td>1994</td>
<td>B Buti</td>
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<td>1995</td>
<td>SM Chitre</td>
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<td>1996</td>
<td>A Hewish</td>
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<td>R Cowisk</td>
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<td>1998</td>
<td>KD Abhyankar</td>
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<td>2004</td>
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<td>2007</td>
<td>T Padmanabhan</td>
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<td>2010</td>
<td>S Ananthakrishnan</td>
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<td>2013</td>
<td>Arnold Wolfendale</td>
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### General Medals & Lecture Awards

#### The Chandrasekhar Venkata Raman Medal

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<td>1979</td>
<td>Salim Ali</td>
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<td>1982</td>
<td>GN Ramachandran</td>
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<td>1985</td>
<td>MGK Menon</td>
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<td>1988</td>
<td>C Gopalan</td>
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<td>1991</td>
<td>AP Mitra</td>
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<td>1993</td>
<td>G Swarup</td>
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<td>1995</td>
<td>AS Paintal</td>
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<td>1997</td>
<td>PN Tandon</td>
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<td>1999</td>
<td>SK Joshi</td>
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<td>2001</td>
<td>S Varadarajan</td>
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<td>2003</td>
<td>G Mehta</td>
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<td>2005</td>
<td>MS Bamji</td>
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<td>2007</td>
<td>GS Khush</td>
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<td>2010</td>
<td>S Dattagupta</td>
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<td>2013</td>
<td>R Chidambaram</td>
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#### The Shanti Swarup Bhatnagar Medal

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<tr>
<th>Year</th>
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<tr>
<td>1959</td>
<td>Atma Ram</td>
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<td>1962</td>
<td>No Award</td>
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<td>TR Seshadri</td>
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<td>1966</td>
<td>DS Kotbari</td>
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<td>1968</td>
<td>P Ray</td>
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<td>1970</td>
<td>S Bhagavantam</td>
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<td>1972</td>
<td>No Award</td>
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<td>1974</td>
<td>AN Khosla</td>
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<td>1979</td>
<td>Braham Prakash</td>
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<td>1982</td>
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<td>CS Seshadri</td>
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<td>NH Wadia</td>
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### Jawaharlal Nehru Birth Centenary Medal

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<td>Sir Michael Atiyah</td>
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<td>1996</td>
<td>S Nagakura</td>
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<td>F Gros</td>
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<td>Bruce Alberts</td>
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<td>Hubert Markl</td>
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<td>Hubert Curien</td>
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<td>Yuan T Lee</td>
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<td>VG Kadyshevsky</td>
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<td>2006</td>
<td>Paul J Crutzen</td>
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<td>David King</td>
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<td>2010</td>
<td>Lu Yongxiang</td>
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<td>2013</td>
<td>Alain Carpentier</td>
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<td>2016</td>
<td>Venkatraman Ramakrishnan</td>
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<td>2007</td>
<td>NK Ganguly</td>
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<td>Anupam Varma</td>
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<td>Indira Nath</td>
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<td>HY Mohanram</td>
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<td>2012</td>
<td>KK Talwar</td>
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<td>Alok Bhattacharya</td>
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### The Meghnad Saha Medal
- **1958 SN Bose**
- **1961 HN Bhabha**
- **1963 DN Wadia**
- **1965 DM Bose**
- **1967 No Award**
- **1969 CR Rao**
- **1971 TR Seshadri**
- **1973 No Award**
- **1975 TR Govindachari**
- **1978 DS Kothari**
- **1981 MS Swaminathan**
- **1984 R Ramanna**
- **1987 Sukh Dev**
- **1990 CNR Rao**
- **1992 S Chandrasekhar**
- **1994 MM Sharma**
- **1996 SV Kessar**
- **1998 AK Sharma**
- **2000 N Kumar**
- **2002 R Chidambaram**
- **2004 P Rama Rao**
- **2006 Yash Pal**
- **2009 VS Ramamurthy**
- **2012 T Ramasami**
- **2015 BC Sinha**

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</tbody>
</table>

### Indira Gandhi Prize for Popularization of Science
- **1986 Surendra Jha**
- **1986 M Nalini Mohan Rao**
- **1988 Saroj Gose**
- **1990 JV Narlikar**
- **1992 GP Phondke**
- **1994 G Venkataraman**
- **1994 AR Bhattacharya**
- **1996 VS Venkatavarndan**
- **1998 Santimay Chatterjee**
- **2000 Yash Pal & Partha (Sarathy) Ghose**
- **2002 VG Bhide**
- **2004 No Award**
- **2006 RD Sharma**
- **2008 Arvind Gupta**
- **2011 BN Dwivedi**
- **2014 Rajesh Kochhar**
- **2014 Hari Om Vats**

### INSA Medal for Promotion & Service to Science
- **2002 MGK Menon**
- **2004 S Varadarajan**
- **2006 CNR Rao**
- **2008 MM Sharma**
- **2011 PN Tandon**
- **2014 MVS Valiathan**

### The Aryabhata Medal
- **1977 KR Ramanathan**
- **1980 BP Pal**
- **1983 S Dhawan**
- **1986 S Ramaseshan**
- **1989 PN Srivastava**
- **1992 Obaid Siddiqi**
- **1994 V Ramalingaswami**
- **1996 MVS Valiathan**
- **1998 RP Bambah**
- **2000 K Kasturirangan**
- **2002 VL Chopra**
- **2004 KL Chopra**
- **2006 MS Raghunathan**

### The Sisir Kumar Mitra Memorial Lecture
- **1966 KR Ramanathan**
- **1972 RN Chakravarti**
- **1978 T Ramachandra Rao**
- **1984 Asima Chatterjee**
- **1990 MK Das Gupta**
- **1992 KS Valdiya**
- **1995 CR Bhatia**
- **1998 S Sriramachari**
- **2001 P Rama Rao**
Academy Awards

2004  MK Bhan
2009  PL Sachdev
2012  SK Sopory
2015  SWA Naqvi

The Kariamanikkam Srinivasa Krishnan Memorial Lecture
1969  RK Asundi
1975  AP Mitra
1981  Devendra Lal
1987  SK Joshi
1992  KL Chopra
1995  TV Ramakrishnan
1998  AR Verma
2001  M Vijayan
2004  R Nityananda
2010  Surendra Prasad
2013  NK Gupta

The Daulat Singh Kothari Memorial Lecture
1996  K Lal
1999  VG Bhide
2002  CNR Rao
2005  SP Sukhatme
2008  Yash Pal
2011  SK Joshi
2014  HK Gupta

Jawaharlal Nehru Birth Centenary Lecture
1990  G Mehta, HG Sharat Chandra
1991  SS Jha, MK Chandrashekaran
1992  N Mukunda, KK Kannan
1993  B Butti, SK Sinha
1994  DK Dutta Majumdar, PS Ramakrishnan
1995  RA Maselkar, P Balaram
1996  N Kumar, HK Jain
1997  AN Bhaduri, BLK Somayajulu
1998  P Natarajan, MS Bamji
1999  Asis Datta, DVS Jain
2000  GS Agarwal, MRS Rao
2001  N Appaji Rao, S Chandrasekaran
2002  R Cowshik, N Balakrishnan
2003  SS Agarwal, KS Valdiya
2004  R Parimala, Ashima Anand
2005  J Govrishankar, M Vidyasagar
2006  VS Chauhan, A Jhunjhunwala
2007  Kanury VS Rao, K Vijayraghavan
2008  B Bagchi, A Sivolila
2011  Alok K Gupta, TP Singh
2014  Mustansir Barma, Sudhir K Sopory

SUBJECTWISE MEDALS

The Srinivasa Ramanujan Medal
1962  S Chandrasekhar
1964  BP Pal
1966  K Chandrasekharan
1968  PC Mabalanobis
1970  No Award
1972  GN Ramachandran
1974  Harish Chandra
1976  No Award
1979  RP Bambah
1982  S Chowla
1985  CS Seshadri
1988  MS Narasimhan
1991  MS Raghunathan
1994  No Award
1997  K Ramachandra
2000  No Award
2003  CR Rao
2006  R Parimala
2010  SG Dani
2013  KR Parthasarathy

The Satyendranath Bose Medal
1977  ECG Sudarshan
1980  CNR Rao
1983  MKV Bappu
1986  AN Mitra
1989  CK Majumdar
1992  SS Jha
1995  R Rajaraman
1998  G Rajasekaran
2001  Deepak Dhar
2004  Ashoke Sen
2007  DP Roy
2009  Robini M Godbole
2012  SM Roy
2015  J Maharana
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**The Syed Husain Zaheer Medal**

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The Silver Jubilee Commemoration Medal

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The Golden Jubilee Commemoration Medal (Chemical Sciences)

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The Golden Jubilee Commemoration Medal (Animal Sciences)

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The Kalpathi Ramakrishna Ramanathan Medal

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ENDOWED MEDALS

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Professor Brahm Prakash Memorial Medal

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1998  KT Jacob  
2001  R Krishnan  
2004  S Banerjee  
2007  VS Arunachalam  
2010  Shrikant Lele  
2013  Baldev Raj

Professor Shyam Bahadur Saksena Memorial Medal
1990  HY Mohan Ram  
1993  SP Raychaudhuri  
1996  SK Jain  
1996  VS Rama Das  
1999  JS Singb  
2002  Sushil Kumar  
2005  No award  
2008  AN Labiri Majumder  
2011  LC Rai

Professor GN Ramachandran 60th Birthday Commemoration Medal
1991  NN Das Gupta  
1994  M Vijayan  
1997  R Jayaraman  
2000  A Surolia  
2003  MRN Murthy  
2006  TP Singh  
2009  DM Salunke  
2012  B Bhattacharyya  
2015  Amitabha Chattopadhyay

Professor TR Seshadri 70th Birthday Commemoration Medal
1973  K Venkataraman  
1976  RC Mehrotra  
1979  SC Bhattacharyya  
1982  Sukb Dev  
1985  DK Banerjee  
1988  A Chakravorty  
1991  MV George  
1994  JP Mittal  
1997  GSR Subba Rao  
2000  Harjit Singh  
2003  GP Pandey  
2006  SK Dogra  
2009  D Basavaiah

Professor KP Bhargava Memorial Medal
1996  No Award  
1999  Rita Mulherkar  
1999  Madhu Diksbit  
2002  Vijayalakshmi R  
2005  Sudhanshu Vrati  
2008  BN Dhawan  
2011  KS Gopinath  
2014  KN Agarwal

Professor K Naha Memorial Medal
1998  SK Ghosh  
2001  D Mukhopadhyay  
2004  HK Gupta  
2007  AK Singhvi  
2010  K Gopalan  
2013  No Award

Professor Krishna Sahai Bilgrami Memorial Medal
2001  Randhir Singh  
2004  S Nagarajan  
2007  SK Apte  
2009  Bijay Singh  
2012  TK Adhya  
2015  Yadvinder Singh

The Chandrakala Hora Memorial Medal
1950  SB Setna  
1955  GKN Mitra & KH Alikunhi  
1960  HL Chaudhury  
1965  BS Bhirachar  
1970  NK Panikkar  
1975  SZ Qasim  
1980  VG Jhingran  
1985  No Award  
1987  NBK Nair  
1992  JS Datta Munshi  
1997  No Award  
2002  T Subramoniam  
2007  Samir Bhattacharya  
2010  G Marimuthu  
2013  Chandrima Shaha

Shree Dhanwantari Prize
1971  R Viswanathan  
1976  B Mukherji
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<th>Lecturer</th>
</tr>
</thead>
<tbody>
<tr>
<td>1985</td>
<td>B Ramamurthi</td>
</tr>
<tr>
<td>1987</td>
<td>SC Seal</td>
</tr>
<tr>
<td>1992</td>
<td>No Award</td>
</tr>
</tbody>
</table>

**ENDOWMENT LECTURES**

**Professor Bal Dattatraya Tilak Lecture**

<table>
<thead>
<tr>
<th>Year</th>
<th>Lecturer</th>
</tr>
</thead>
<tbody>
<tr>
<td>1983</td>
<td>PV Sukhatme</td>
</tr>
<tr>
<td>1984</td>
<td>AB Joshi</td>
</tr>
<tr>
<td>1985</td>
<td>AKN Reddy</td>
</tr>
<tr>
<td>1986</td>
<td>CV Seshadri</td>
</tr>
<tr>
<td>1987</td>
<td>SS Kalbag</td>
</tr>
<tr>
<td>1988</td>
<td>PK Sethi</td>
</tr>
<tr>
<td>1989</td>
<td>No Award</td>
</tr>
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<td>1990</td>
<td>V Kurien</td>
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<td>1991</td>
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<tr>
<td>1992</td>
<td>NH Antia</td>
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<td>1993</td>
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</tr>
<tr>
<td>1994</td>
<td>AD Karve</td>
</tr>
<tr>
<td>1995</td>
<td>BE Vijayam</td>
</tr>
<tr>
<td>1996</td>
<td>KJ Ranadive</td>
</tr>
<tr>
<td>1997</td>
<td>Devendra Kumar</td>
</tr>
<tr>
<td>1998</td>
<td>No Award</td>
</tr>
<tr>
<td>1999</td>
<td>DR Bapat</td>
</tr>
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<td>1999</td>
<td>D Chakraborti</td>
</tr>
<tr>
<td>2000</td>
<td>D Raghubir Singh</td>
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<tr>
<td>2001</td>
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<tr>
<td>2002</td>
<td>P Pushpangadan</td>
</tr>
<tr>
<td>2003</td>
<td>RK Gupta</td>
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<tr>
<td>2004</td>
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<td>2005</td>
<td>Anil K Gupta</td>
</tr>
<tr>
<td>2006</td>
<td>Sudha Nair</td>
</tr>
<tr>
<td>2007</td>
<td>Anil P Joshi</td>
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<tr>
<td>2008</td>
<td>No Award</td>
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<tr>
<td>2011</td>
<td>No Award</td>
</tr>
<tr>
<td>2014</td>
<td>Bijay Singh</td>
</tr>
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**Dr TS Tirumurti Memorial Lecture**

<table>
<thead>
<tr>
<th>Year</th>
<th>Lecturer</th>
</tr>
</thead>
<tbody>
<tr>
<td>1985</td>
<td>B Ramamurthi</td>
</tr>
<tr>
<td>1987</td>
<td>SC Seal</td>
</tr>
</tbody>
</table>

**Professor S Swaminathan 60th Birthday Commemoration Lecture**
2000  KK Balasubramanian
2002  JS Yadav
2004  SP Moulik
2006  SS Krishnamurthy
2010  M Periasamy
2013  GP Pandey

Professor Darshan Ranganathan Memorial Lecture
2003  Kasturi Datta
2005  Radha Balakrishnan
2007  Maharani Chakravorty
2010  Chandrima Shaha
2013  Madhu Dikshit

Professor MRN Prasad Memorial Lecture
1992  PR Adiga
1995  SK Basu
1998  S Bhattacharya
2001  Kasturi Datta
2004  AJ Rao
2007  SK Saidapur
2010  K Muralidhar

The Bires Chandra Guha Memorial Lecture
1969  V Subrahmanyan
1972  A Sreenivasan
1975  J Ganguly
1978  MG Deo
1981  AN Radhakrishnan
1984  BK Bachhawat
1987  Mahtab S Bamji
1990  NK Notani
1993  PS Sastry
1996  IB Chatterjee
1999  K Krishnaswamy
2002  D Chatterji
2005  B Bhattacharyya
2008  Amitabha Chattopadhyay
2011  P Chakrabarti
2014  C Mohan Rao

The Bashambar Nath Chopra Lecture
1971  PN Wabi
1974  J Venkateswarlu
1977  BK Bachhawat
1980  AG Datta
1983  S Sriramachari
1986  No Award
1989  PM Bhargava
1992  SC Sanyal
1995  MM Jobri
1998  PD Dogra
2001  No Award
2004  Asis Datta
2007  Akbilesh K Tyagi
2010  JS Singh

Professor Shambu Nath De Memorial Lecture
1993  NK Ganguly
1996  SN Chatterjee
1999  No Award
2002  RC Mahajan
2005  HG Sen
2010  Dilip Mahalanabis

Professor Vishnu Vasudeva Narlikar Memorial Lecture
1994  PC Vaidya
1997  SK Malik
2000  N Rudraiah
2003  AS Gupta
2006  M Lakshmanan
2009  KB Sinha
2012  RB Bapat
2015  SK Khanduja

Dr Jagdish Shankar Memorial Lecture
1994  D Mukherjee
1997  Biman Bagchi
2000  ED Jemmis
2000  SR Gadre
2003  RV Hosur
2006  DD Sarus
2006  Sourav Pal
2009  Swapan K Ghosh
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<tr>
<th>Year</th>
<th>Lecture</th>
<th>Name</th>
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<tr>
<td>1979</td>
<td>Professor Vishwa Nath Memorial Lecture</td>
<td>RK Asundi</td>
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<td>1981</td>
<td>Dr Biren Roy Memorial Lecture</td>
<td>SK Trehan</td>
</tr>
<tr>
<td>1984</td>
<td>Professor Sadhan Basu Memorial Lecture</td>
<td>PT Manoharan</td>
</tr>
<tr>
<td>1985</td>
<td>Dr Yellapragada SubbaRow Memorial Lecture</td>
<td>NR Moudgal</td>
</tr>
<tr>
<td>1987</td>
<td>Professor K Rangadham Rao Memorial Lecture</td>
<td>RK Asundi</td>
</tr>
<tr>
<td>1989</td>
<td>Dr Guru Prasad Chatterjee Memorial Lecture</td>
<td>SC Bhattacharyya</td>
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<tr>
<td>1991</td>
<td></td>
<td>K Narahari Rao</td>
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<tr>
<td>1993</td>
<td></td>
<td>NA Narasimham</td>
</tr>
<tr>
<td>1996</td>
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<td>VG Bhide</td>
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<td>1998</td>
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<td>2015</td>
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<tr>
<td>Year</td>
<td>Lecturer</td>
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</tr>
<tr>
<td>1987</td>
<td>Prem Narain</td>
<td></td>
</tr>
<tr>
<td>1989</td>
<td>R Rajaraman</td>
<td></td>
</tr>
<tr>
<td>1991</td>
<td>VK Gaur</td>
<td></td>
</tr>
<tr>
<td>1996</td>
<td>DV Singh</td>
<td></td>
</tr>
<tr>
<td>2001</td>
<td>BC Nakra</td>
<td></td>
</tr>
<tr>
<td>2006</td>
<td>ML Munjal</td>
<td></td>
</tr>
<tr>
<td>2009</td>
<td>SC Dutta Roy</td>
<td></td>
</tr>
<tr>
<td>2013</td>
<td>Paul Maxime Nurse</td>
<td></td>
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</tbody>
</table>

**Sir Jagadis Chandra Bose Memorial Lecture**

<table>
<thead>
<tr>
<th>Year</th>
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<tbody>
<tr>
<td>1993</td>
<td>AP Mitra</td>
</tr>
<tr>
<td>1995</td>
<td>MM Sharma</td>
</tr>
<tr>
<td>1997</td>
<td>C Gopalan</td>
</tr>
<tr>
<td>1999</td>
<td>S Chandrasekhar</td>
</tr>
<tr>
<td>2002</td>
<td>G Swarup</td>
</tr>
<tr>
<td>2004</td>
<td>K Kasturirangan</td>
</tr>
<tr>
<td>2006</td>
<td>Asoke Sen</td>
</tr>
<tr>
<td>2008</td>
<td>Narendra Kumar</td>
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</table>

Jawaharlal Nehru Birth Centenary Visiting Fellowship

<table>
<thead>
<tr>
<th>Year</th>
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<tbody>
<tr>
<td>1991</td>
<td>G Padmanaban</td>
</tr>
<tr>
<td>1992</td>
<td>R Chidambaram</td>
</tr>
<tr>
<td>1993</td>
<td>MG Deo</td>
</tr>
<tr>
<td>1994</td>
<td>G Govil</td>
</tr>
<tr>
<td>1995</td>
<td>R Kumar</td>
</tr>
<tr>
<td>1996</td>
<td>P Balaram</td>
</tr>
<tr>
<td>1997</td>
<td>HY Mohan Ram</td>
</tr>
<tr>
<td>1998</td>
<td>OP Bhatani</td>
</tr>
<tr>
<td>1999</td>
<td>M Vijayan</td>
</tr>
<tr>
<td>2000</td>
<td>D Ranganathan</td>
</tr>
<tr>
<td>2001</td>
<td>SK Malik</td>
</tr>
<tr>
<td>2002</td>
<td>RP Gandhi</td>
</tr>
<tr>
<td>2003</td>
<td>HK Gupta</td>
</tr>
<tr>
<td>2004</td>
<td>MS Jairajpuri</td>
</tr>
<tr>
<td>2005</td>
<td>R Godbole</td>
</tr>
<tr>
<td>2006</td>
<td>TV Ramakrishnan</td>
</tr>
<tr>
<td>2007</td>
<td>R Gadagkar</td>
</tr>
<tr>
<td>2008</td>
<td>Deepak Pental</td>
</tr>
<tr>
<td>2009</td>
<td>SC Lakhota</td>
</tr>
<tr>
<td>2010</td>
<td>Krishan Lal</td>
</tr>
<tr>
<td>2013</td>
<td>JP Mittal</td>
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</table>

Etienne Wolff-Ramanujan Lecture

<table>
<thead>
<tr>
<th>Year</th>
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</thead>
<tbody>
<tr>
<td>2006</td>
<td>Jules Hoffman</td>
</tr>
<tr>
<td>2007</td>
<td>RA Mashelkar</td>
</tr>
<tr>
<td>2012</td>
<td>Yves Brechet</td>
</tr>
<tr>
<td>2013</td>
<td>MVS Valiathan</td>
</tr>
<tr>
<td>2014</td>
<td>Nicole Le Douarin</td>
</tr>
<tr>
<td>2015</td>
<td>R Gadagkar</td>
</tr>
</tbody>
</table>

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* Since 2013 this award is independently organized by INSA.
** Since 2013 this award is independently organized by INSA. First award will be given in 2016.
INTERNATIONAL PROGRAMMES

International relations in science are important not only for exchange of scientific information through scientific conferences and publications, but also for promoting international understanding among scientists of different nations through participation in scientific programmes and collaboration in special fields through exchange of personnel. To make these objectives functional, the Academy has launched the programme of international activities since past three decades. The activities may be classified under two broad categories, namely, adherence to the International Council for Science (ICSU) and Bilateral Exchange/Collaboration of Scientists Programme with other overseas Academies/Organisations.

I. ADHERENCE TO THE INTERNATIONAL COUNCIL FOR SCIENCE

International Council for Science (ICSU) is a non-governmental organisation formed during 1931 to promote international scientific activities in different branches of science and their applications for the benefit of humanity. This is being achieved through facilitating international co-operation in scientific work and promoting the formation of International Unions in different branches of science. ICSU includes 31 International Unions and 122 national members covering 142 countries. Through this international network, ICSU coordinates interdisciplinary research to address major issues of relevance to both science and society. India is a National Member of ICSU since 1931.

INSA-ICSU NATIONAL COMMITTEES AND THEIR ACTIVITIES/OBJECTIVES

In 1968, on behalf of Govt. of India, the Indian National Science Academy became the adhering body to the International Council for Science and its various affiliated Unions/Committees/Commissions, etc. The Academy acts through the various National Committees constituted to coordinate with the ICSU activities in India. The Academy sponsors Indian scientists to the meetings of the International Council for Science and its affiliated International Unions/Committees/Commissions, etc. The National Committees recommend through the adhering organisation (INSA), its views regarding organisational changes of statutes, proposals for scientific action or matters for discussions, preparation of country status reports which may be desirable for bringing before the General Assembly of the respective Union. In addition, National Committees recommend scientists to represent the adhering organisation at the General Assembly/international congress of the respective Union. The National Committees also recommend hosting of General Assembly/Congress/International Conferences of the International Unions in India. Names of eminent scientists are also recommended by the National Committees for the Executive positions in the various ICSU bodies. The Academy reconstituted the National Committees for a period of four years (2012-2015). Currently, there are 20 national committees to coordinate with the respective international unions. In all these committees, persons holding office in Executive Committee of international Union and the President (or his representative) of the area concerned national level professional society will participate as an ex-officio member. Such efforts will offer a broader canvas to the Committees (the membership of these committees are given under COMMITTEES in this publication).

Scientists occupying important positions in different ICSU bodies has also been included in the subsequent pages.
ICSU national committee comprises the Chairmen of the National Committees corresponding to international Union/Committee, the President and the Vice-President (International Affairs), INSA are the *Ex-Officio Chairman* and *Member-Secretary* respectively of this committee.

**INDIAN SCIENTISTS HOLDING IMPORTANT POSITIONS IN ICSU, ITS AFFILIATED UNIONS AND OTHER BODIES**

<table>
<thead>
<tr>
<th>Name of Scientist</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professor R Gadagkar</td>
<td>Member, ICSU Executive Board</td>
</tr>
<tr>
<td>Dr DM Salunke</td>
<td>Member, ICSU Committee on Scientific Planning &amp; Research (CSPR)</td>
</tr>
<tr>
<td>Professor P Chakrabarti</td>
<td>President, AsCA</td>
</tr>
<tr>
<td>Professor S Ananthakrishnan</td>
<td>Vice-President, URSI</td>
</tr>
<tr>
<td>Dr V Prakash</td>
<td>Vice President, IUNS</td>
</tr>
<tr>
<td>Professor RB Singh</td>
<td>Vice President, IGU</td>
</tr>
<tr>
<td>Dr Ranjini Bandopadhyay</td>
<td>Member, Committee on Freedom and Responsibility in the Conduct of Science (CFRS)</td>
</tr>
<tr>
<td>Professor AK Singhvi</td>
<td>Vice-President, INQUA</td>
</tr>
<tr>
<td>Professor Ajit K Kembhavi</td>
<td>Vice-President, IAU</td>
</tr>
<tr>
<td>Dr Javed Iqbal</td>
<td>Member, ICSU Regional Committee for Asia and the Pacific (RCAP)</td>
</tr>
<tr>
<td>Dr Anil Kumar</td>
<td>Member, CODATA Executive Committee</td>
</tr>
<tr>
<td>Professor Ch. Mohan Rao</td>
<td>Member, IUPAB Council</td>
</tr>
<tr>
<td>Professor TK Chandrashekar</td>
<td>Member, IUPAC Bureau</td>
</tr>
<tr>
<td>Professor A Jayaraman</td>
<td>Vice-President, COSPAR</td>
</tr>
<tr>
<td>Professor GR Desiraju</td>
<td>Immediate Past President, IUCr</td>
</tr>
<tr>
<td>Professor NK Gupta</td>
<td>Member, IUTAM Congress Committee</td>
</tr>
<tr>
<td>Professor Sanjay Mittal</td>
<td>Member, IUTAM Congress Committee</td>
</tr>
<tr>
<td>Professor Vasudevan Srinivas</td>
<td>Member at Large, IMU Executive Committee</td>
</tr>
<tr>
<td>Professor LS Shashidhara</td>
<td>Member, IUBS Executive Committee</td>
</tr>
<tr>
<td>Professor A Surolia</td>
<td>Member, IUBMB Publication Committee</td>
</tr>
</tbody>
</table>
CENTRE FOR INTERNATIONAL CO-OPERATION IN SCIENCE (CICS)

The Centre for International Cooperation in Science (CICS) formerly Centre for Cooperation in Science & Technology among Developing Societies (CCSTDS) has been registered recently as a society under Tamil Nadu Societies Registration Act. The aim of the center is to promote the co-operation in Science & Technology between India and other developing countries for mutual benefit of scientific community. The programme of the Centre involves organizing training/workshops on topics of emerging importance including science policy; encouraging mobility of scientists especially young scientists to pursue training in Indian institutions; providing a forum for sharing experience in the design and development of useful programmes in S & T including exchange of information, science communication, traditional knowledge and IPR related activities. Some of the major activities undertaken by CICS are: INSA-JRD Tata Fellowship Programme for Scientists & Technologists from Developing Countries; INSA-CSIR-DAE/BRNS-CICS Travel Fellowship Programme; and training programme for Women Scientists of India on ‘Intelectual Property Rights’ and Science Motivational Programmes for school students. CICS has newly launched DBT-TWAS Post-graduate and Post-doctorate Biotechnology Fellowship for researchers from developing countries. Further details of the programmes of CICS are at website: www.cics.tn.nic.in.

II. SCIENTIFIC COOPERATION WITH THE ACADEMIES/ORGANISATIONS OF FOREIGN COUNTRIES

Since 1968, the Academy has been successfully collaborating with scientific academies/ organisations abroad by exchanging research experience and scientific information. Such a relationship is achieved usually through bilateral cooperation i.e. exchange of scientist’s visits, joint research projects, organisation and participation in the joint symposia/seminars and other scientific activities. The international collaboration and exchange programme are carried out by facilitating contacts of individuals/scientific institutions in India and abroad on the basis of formal Agreement/MoU established with the following 59 overseas academies/organizations in 50 countries: Academy of Sciences of Afghanistan; National Academy of Sciences of the Republic of Armenia; Academia Nacional De Ciencias Exactas, Fisicas Y Naturales, Argentina; Australian Academy of Sciences, Canberra; Austrian Academy of Sciences, Vienna; Bangladesh Academy of Sciences; The Academy of Sciences of Belarus; Serbian Academy of Sciences & Arts, Belgrade; Brazilian Academy of Sciences (BAS); National Council for Scientific and Technological Development (CNPq); The Royal Society of Canada (RSC); Chinese Academy of Sciences; Academia De Ciencias De Cuba; Academy of Sciences of the Czech Republic (ASCR); The delegation of the Finnish Academies of Science and letters; French Academy of Sciences; Deutsche Forschungsgemeinschaft (DFG); The Berlin-Brandenburg Academy of Sciences and Humanities; The German Academy of Sciences, Leopoldina; Hungarian Academy of Sciences (HAS), Budapest; Academy of Sciences of the Islamic Republic of Iran; Science Foundation Ireland; The Israel Academy of Sciences & Humanities; Japan Society for the Promotion of Science; Royal Scientific Society, Jordan; African Academy of Sciences, Nairobi; The Korea Science & Engineering Foundation; The Korean Academy of Science & Technology; Korea Research Foundation; The State Academy of the DPR Korea, Pyongyang; The National Academy of Sciences of the Kyrgyz Republic; Mauritius Academy of Sciences and Technology; Mongolian Academy of Sciences, Mangolia; Hassan II Academy for Science and Technology, Morocco; Nepal Academy of Science & Technology; The Royal Netherlands Academy of Arts & Sciences; The Norwegian Academy of Science
and Letters; Pakistan Academy of Sciences; National Academy of Science and Technology, Philippines; Polish Academy of Sciences; The Russian Academy of Sciences, Russia; Far East Branch of Russian Academy of Sciences (Russian Federation); The Slovak Academy of Sciences; Slovenian Academy of Arts & Sciences; Slovenian Science Foundation; Academy of Science of South Africa; National Academy of Sciences of Sri Lanka; Sudan Academy of Sciences; The Royal Swedish Academy of Sciences; The Royal Institute of Technology (KTH); Academia Sinica, Taiwan; Turkish Academy of Sciences; The Royal Society of Edinburgh; The Royal Society, London; Ukrainian Academy of Sciences; The US National Academy of Sciences, Washington; The Uzbekistan Academy of Sciences, Tashkent & National Centre for the Scientific Research, Vietnam; The Council of Academies of Sciences & Arts of SFRY, Yugoslavia.

In 1989, the Academy instituted the Jawaharlal Nehru Birth Centenary visiting Fellowship to commemorate Pt. Jawaharlal Nehru’s commitment and sustained support for science. This Fellowship enables the Academy to project the achievements of Indian Science and Technology abroad. The Fellowship is awarded once in three years to a distinguished Indian Scientist for delivering the series of Lectures abroad not restricted to countries with which the Academy has exchange programme.

Beginning 2005, the Academy in association with the French Academy of Sciences instituted “Etienne Wolff and Ramanujan Lecture Series” to be organised alternately in India and France. The Etienne Wolff Lecture is delivered by the French scientist in India and the Ramanujan Lecture is delivered by the Indian scientist in France.

The Academy has been a member of IAP: “the Global Network of Science Academies” since 1994 and coordinating and participating in its various programmes on Science Education, Capacity Building, Water and Access to Scientific Information/Digital Divide, Women and Health Education etc. The Academy also works closely with the Inter-Academy Council (IAC), an executive arm of IAP founded in 2000 to mobilize the best scientists and engineers worldwide and to provide high quality advice to International bodies such as United Nations and the World Bank as well as other Institutions. The Academy is a member of IAP Executive Committee for term 2013-2015 and IAC Executive Board for the term 2013-2017.

The Academy, a founder member organisation of the Federation of Asian Scientific Academies and Societies (FASAS), has been supporting activities since its inception in 1984 in India. In 2012, FASAS and the Association of Academies of Sciences in Asia (AASA) have been merged and formed a new organization named the Association of Academies and Societies of Sciences in Asia (AASSA). INSA has become a member of AASSA. AASSA includes around 34 scientific academies/societies of the Asian region. The organization has the goal to stimulate regional cooperation and promote material and regional self reliance by showing each other experience.

The Academy as a member organisation of the Academy of Sciences for the Developing World (TWAS)/Third World Network of Scientific Organisations (TWNSO) has been actively participating and contributing significantly in their activities in India. The Academy has recently become a member of Science Council of Asia (SCA) from 2015.

TWAS India office has been established in INSA to coordinate all the activities by TWAS Fellows in the country.
CHAIRS FOR INVITING OVERSEAS SCIENTISTS

In order to facilitate the interaction with distinguished overseas scientists with their Indian counterparts, the Academy has established following six chairs

i) Chairs for distinguished scientists named after Professor PC Ray, Dr Vikram Sarabhai and Professor DS Kothari

ii) Chairs for middle level outstanding scientists named after Professor AS Paintal, Dr BP Pal and Dr V Ramalingaswami

The above chairs will be governed by the following broad guidelines:

a) Number of positions: Three in each category

b) Duration: The distinguished scientist chairs will be offered for a maximum period of three weeks and the Chairs for middle level outstanding scientists will be offered for a maximum period up to three months.

c) Mode of Selection: Fellows of the Academy will be requested to submit nominations in a prescribed format. Nominations can also be forwarded by Head of the scientific institutions, universities and institutions of national importance such as IISc, IISERs, IITs and the like. The selection will be made by a committee consisting of President, INSA, and three Vice-Presidents out of which one should be Vice-President (International Affairs).

d) Age: There is no age limit for category i) positions. However, for the category ii) Chairs, the upper age limit will be 55 years.

e) Travel: Academy will cover the international airfare (excursion class) and the cost of travel within the country. In case, the nominee belongs to a country where we have bilateral exchange agreement, the visit can be arranged through this route.

f) Accommodation: The overseas scientists of both the categories will be accommodated in a suitable guest house (preferably in the institutional guest house where they are visiting). In the absence of a guest house accommodation, the hotel accommodation will be provided by the Academy. In addition, the overseas scientists will be offered per diem @ Rs. 2000/- per day. If the local hospitality (accommodation, food and local transport) of the visiting INSA Chair is whiborne by the host institute, the Academy will provide 25% of the per diem (i.e. Rs.500/- per day). The funds to be released through the institution to which the nominee will be attached.

g) INSA Chair Awardee may deliver at least one lecture in any educational institute in Delhi.

h) Awardee may be requested to send a brief scientific report on their visit to India which may be published in the INSA News/Proceedings of the Academy.
SCIENCE PROMOTION

Basic research, a pre requisite for applied research leading to developmental activity, conducted by the academic institutions, was supported by the Academy in the past by instituting programmes of support to individual scientists, interdisciplinary and multi-institutional programmes. With the emergence of major funding bodies in the country for carrying out scientific research, the Academy modified its programme to support individual scientists. The programme now involves five positions of INSA Research Professors, a Platinum Jubilee Chair for promotion and service to science, support to INSA superannuated scientists, research projects of INSA Young Scientist Medal Awardees and INSA Visiting Scientists.

The Academy also provides partial financial assistance for organising international/national conferences, symposia or seminars in India.

REGULATIONS

THE INSA RESEARCH PROFESSORSHIPS

The Academy instituted in 1984 Research Professorships to recognise pioneering contributions of Indian scientists in science and/or technology. This prestigious Professorship is for a period of five years with total number not exceeding five at any given time.

Name of the Professorships: The programme is called INSA Research Professorship and the Academy Professor is designated as INSA Research Professor. The five INSA Professorships are named as Albert Einstein Research Professor, Golden Jubilee Research Professor, Chandrasekhara Venkata Raman Research Professor, Srinivasa Ramanujan Research Professor and Satyendra Nath Bose Research Professor.

Objectives: The Professorship is awarded in recognition of outstanding contributions to any branch of Science & Technology falling within the purview of the Academy. The main aim of the Professorship is to provide recognition to a person who had made outstanding scientific research contributions and to enable him to continue to contribute to the subject of his/her choice. The INSA Research Professor may continue to work in his/her own institution or in any other suitable institution within India.

Eligibility: The award shall be made only to Indian scientists/technologists working in some recognised research institutions/universities in India.

Number: Total number shall not exceed five at any given time.

Duration: The Professorship is tenable for five years.

Value: The Professorship shall carry a fixed pay of Rs 80,000/- per month plus admissible allowances. Pensionary benefits, etc. shall be deducted as per Govt. of India rules. A sum of Rs 1,00,000/- per annum for contingencies will also be provided.

There shall be provision for appointment of a Research Associate (as per DST/CSIR guidelines) to assist the Research Professor.

The institution concerned shall, as far as possible, provide the working facilities, e.g. research facilities, secretarial assistance, etc. (where necessary, a telephone and secretarial assistance...
may be provided on job basis out of the contingency funds). The funds will be drawn by the institutions from INSA.

**Announcement of the Professorship:** The President will present the name of the scientist, selected with the help of a Committee constituted for the purpose, for approval of the Council. The name of the awardee will be announced in the subsequent General Body Meeting. The award offer will remain valid for one year from the date on which the offer is made by the Academy or for one year from the date on which the Professorship falls vacant, whichever is later.

**Obligations:**

(i) The intellectual property rights arising out of the work of the Professor will be governed by the norms of the host institution.

(ii) Support for the INSA Research Professorship should be acknowledged in all publications.

(iii) The INSA Professor shall present to the Academy a yearly detailed report of the work done at the end of the year along with statement of expenditure for release of grant for next year.

(iv) He/She shall, after the expiry of the Professorship, also present a comprehensive report in the form of a review article for publication in Academy’s Proceedings.

(v) He/She will also be invited to deliver a talk during one of the INSA meetings after completion of his/her tenure as INSA Research Professor.

(vi) These regulations may be revised or amended by the Council of INSA at any time.

**THE INSA PLATINUM JUBILEE CHAIR FOR PROMOTION AND SERVICE TO SCIENCE**

On the occasion of the Platinum Jubilee Year (2009-10), the Academy instituted a Chair to recognise sustained life time contribution of a scientist/technologist to the promotion and service to science in India.

**Name of the Chair:** The Chair is called INSA Platinum Jubilee Chair for Promotion and Service to Science. The awardee is called ‘INSA Platinum Jubilee Chair for Promotion and Service to Science’.

**Objectives:** The main objective of instituting the Chair is to recognise a scientist/technologist who has made sustained life time contributions to the promotion and service to Indian science. The awardee of the Chair may continue to work in an area of his/her choice in any R&D Centre/University/Institution in India.

**Eligibility:** The award shall be made to Indian scientists/technologists working in India.

**Number:** Initially there will be one position (Chair) which may be subsequently increased.

**Duration:** The Chair is tenable for five years.

**Value:** The Chair shall carry a fixed pay of Rs. 80,000/- plus admissible allowances per month, (equivalent to INSA Research Professor). Pensionary benefits etc. shall be deducted as per Govt. of India rules. A contingency of Rs. 1,00,000/- per annum is associated with the Chair for meeting expenses on secretarial help, stationery, communication, travel etc.
There shall also be a provision for appointment of a Research Associate (as per DST/CSIR guidelines) to assist the awardee.

The institution to which the awardee is attached shall, as far as possible, provide research facilities, secretarial assistance etc. (where necessary, telephone and secretarial assistance may be provided on job basis out of contingency funds). The funds will be drawn by the host institution where the awardee works.

**Announcement of the Chair:** The President will present the name of the scientist/technologist, chosen by a committee constituted for the purpose, to the Council at its October meeting for consideration. The name of the awardee approved by the Council will be announced in the Annual General Meeting. The award offer will remain valid for one year from the date on which the offer is made by the Academy.

**Obligations:**

i) The intellectual property rights arising out of the work of the chair will be governed by the norms of the host institution.

ii) Support for the INSA Platinum Jubilee Chair should be acknowledged in all publications.

iii) The awardee is expected to present to the Academy an yearly report of the work done at the end of each calendar year along with the statement of expenditure for release of grant for next year.

iv) The awardee is expected to present a comprehensive report soon after the expiry of the tenure.

v) The awardee will also be invited to deliver a talk during one of the INSA meetings after completion of the tenure.

vi) At the completion of the tenure the awardee shall hand over all permanent equipment purchased through the contingency funds to the institution where the work was undertaken or any other institution as decided by INSA.

vii) These regulations may be revised or amended by the Council of INSA at any time.

**INSA SENIOR SCIENTIST PROGRAMME**

The Academy instituted in 1985 a programme of INSA Senior Scientist to utilize the expertise of active superannuated Fellows of the Academy involved in high quality research in their specialized disciplines in recognized R&D Centre/University/institution in India.

**Name of the Programme:** The Programme is called the ‘INSA Senior Scientist Programme’ and the Awardee is called ‘INSA Senior Scientist’.

**Objective:** The objective of the programme is to utilize the expertise of INSA Fellows after superannuation to continue to work in the area of his/her choice in an R&D centre/university/institution in India.

**Eligibility:** Superannuated INSA Fellows working in India.

**Number of Positions:** The number of INSA Senior Scientists to be selected each year will be decided by the Council.
**Tenure:** The term of an INSA Senior Scientist is initially for a period of three years, extendable for another two years after a review of the performance during the three year period.

**Value:** The grants consist of an Honorarium of Rs. 30,000/- per month (taxable) and a Contingency of Rs. 1,00,000/- per annum for meeting expenses on secretarial assistance, stationery, communication, travel etc. The funds will be drawn by the host institution where the Senior Scientist works.

The INSA Senior Scientist is allowed to take up sponsored Research and Consultancy within the norms of the host institution.

**Nomination and Selection:** Proposal in the prescribed form for the Senior Scientist position will be invited from the Fellows of the Academy in the first week of May preceding the year of the award. The proposal duly completed in all respects, signed, and routed through the Head of the Institution where a scientist intends to work, should be sent to the Academy so as to reach by 15 June. The proposals received will be examined by the Science Promotion Committee. The recommendations of the Committee will be considered and selection be made by the Council at its meeting to be held in October.

**Announcement:** Names of the scientists selected by the Council for the position of INSA Senior Scientists will be announced at the subsequent Annual General Body Meeting of the Academy to be held in October.

The award of the INSA Senior Scientist position would be valid from 1 January to 31 December of the year of Award. Otherwise, the selected scientist has to be nominated afresh for consideration by the Academy for future position.

**Renewal and Reports:** Senior Scientist will submit an Annual Report of his/her research work in the prescribed format at the end of the year along with the statement of expenditure for release of grant for the next year. At the end of the tenure, the Senior Scientist is required to submit a consolidated Technical Report of the entire duration of the tenure in the prescribed format.

**Leave:** 60 days in a year with honorarium whether in India or abroad.

**Obligations:**

(i) The host Institution shall submit audited statement of accounts and utilization certificate to INSA.

(ii) The position will stand terminated from the date the INSA Senior Scientist accepts any paid position.

(iii) Support under the INSA Senior Scientist Programme should be acknowledged in all publications.

(iv) Final adjustment/settlement of accounts should be done within a period of 30 days of termination of the position.

(v) The intellectual property rights arising out of the work of the Senior Scientist will be governed by the norms of the host institution.

(vi) At the completion of the tenure of the INSA Senior Scientist, the awardee shall hand over all permanent equipment purchased using the contingency funds to the host institution or any other institution as decided by INSA.

(vii) These regulations may be revised or amended by the Council at any time.
INSA HONORARY SCIENTIST PROGRAMME

The Academy instituted the INSA Honorary Scientist Scheme in May 2000 to continue to engage and utilize the expertise of active superannuated Fellows of the Academy involved in research in their specialized disciplines in some recognized institutions/universities in India or to contribute to the growth of science by working from their residence through activities such as preparing monographs/books and other publications.

Objective: The objective of the programme is to continue to engage and utilize the expertise of superannuated Fellows of INSA.

Name of the Position: The awardee shall be called ‘INSA Honorary Scientist’

Eligibility: Superannuated Fellows of INSA.

Number of Positions: The number of Honorary scientists to be selected each year will be decided by the Council.

Tenure: The term of an INSA Honorary Scientist will initially be for a period of three years and is extendable.

Financial Support: Contingency grant of Rs 1,00,000/- per annum will be released in one installment directly to the Honorary Scientist or through the host institution. The grant can be used in any suitable way to further the objectives of the programme. The Honorary Scientist will maintain an account of the grant and at the end of the year, he/she is required to submit a certificate indicating that the money has been spent for the purpose for which it was offered.

Nominations: INSA Fellows may nominate themselves or other superannuated Fellows for the position of Honorary Scientist. Fellows may write to the President INSA along with a brief CV, proposed plan of work and a letter of acceptance from the host institute if he/she intends to work through an institute. This certificate will not be required if the scientist intends to operate from home. The names of awardees will be reported at the subsequent Council meeting.

Joining: The Honorary Scientist can join any time between 1 January to 31 December of the year.

Progress Report and Renewal of Position: The Honorary Scientist will submit a report of his/her work in the prescribed format after completion of each year along with utilization certificate and request for further grant.

Interaction with other Agencies: The Honorary Scientist is allowed to take up sponsored Research and Consultancy within the norms of the host Institution.

Obligations
i) The position will stand terminated from the date the Honorary Scientist accepts any paid position.
ii) Support under the INSA Honorary Scientist Programme should be acknowledged in all publications.
iii) Final adjustment/settlement of accounts should be done within a period of 30 days of termination of position.
iv) Council is empowered to amend any of the regulations.
RESEARCH SUPPORT FOR THE INSA YOUNG SCIENTIST MEDAL AWARDEES

Name of the Programme: The programme shall be called ‘Research Support for the INSA Young Scientist Medal Awardees’.

Objective: The objective of this programme is to provide startup research support or interim Fellowship to the Young Scientist Medal awardees who may submit a research proposal to the Academy for support or for the award of interim Fellowship.

Submission of the Project: The proposal may be submitted for consideration of the Academy on the prescribed form at any time within one year of presentation of Medal Award to the Young Scientist awardee. The Project shall be started in the year in which it is approved by the Academy. If the Awardee is not in a position to submit the project proposal within one year of the award, he/she may submit the proposal at the earliest thereafter, but in no case later than five years of receipt of award.

Value: A startup research grant of Rs. 5.00 lakhs per annum to cover the cost of chemicals/consumables spare parts for existing equipment/travel to participate in seminars/symposia in the country or any other expenses connected with the research project. In case, the Young Scientist Medal Awardee is not in full employment with any organisation he/she will be considered for suitable interim Fellowship.

Duration: The term of interim Fellowship or research support for the project will be for 3 years only. He/she shall present to the Academy a yearly report of the work done and a final report at the end of tenure in prescribed proforma.

INSA VISITING SCIENTIST PROGRAMME

The Academy has instituted INSA Visiting Scientist programme since 1991 to support scientists from less endowed institutions to conduct advance research and training in advanced Research Institutions/Laboratories within India. Under this programme, support can be offered to work in institutions other than one’s own institution.

Name of the Programme: The programme shall be called ‘INSA-Visiting Scientist Programme’ and the awardee shall be designated: ‘INSA Visiting Scientist’.

Objectives: Aquiring furtherance of research capabilities for undergoing training in specific techniques, or utilising facilities not available in their own institutions. Book writing is not permitted under this programme.

Number of Awards: The number of INSA-Visiting Scientist positions to be awarded each year will be a maximum of 120 man-months per annum.

Value: The Visiting Scientist position will carry an honorarium (taxable) and DA per month basis in addition to the scientist’s own salary from the parent institution. The Academy will provide to and fro rail travel from the parent organisation to the proposed institute of work.

Duration: The position shall be provided to a scientist to work for a minimum period of one month to a maximum of six months in a Laboratory or a Research Institution of his/her choice in a city within India other than his/her own city.

Mode of Selection: Applications on prescribed proforma will be invited once a year, through
proper channel so as to reach the Academy by February 15 preceding the year of selection. The selection will be made by the ‘Science Promotion Committee’ at its meeting scheduled to be held during March/April in the following year.

Application Procedure

(i) The applicant should be a scientist and hold a regular position in any R&D organisation including Universities or affiliated colleges in India. The scientists who have already availed INSA visiting Scientist position would be eligible for consideration after the gap of 5 years.

(ii) The applicants would be required to provide a concise account of their plan of work/study besides their biodata highlighting their research achievements.

(iii) It would be desirable that the applicant should have approached the host institution in India and the scientist concerned to ascertain their willingness to accept him/her.

ORGANISATION OF INTERNATIONAL/NATIONAL CONFERENCES, SYMPOSIA, SEMINARS, WINTER, SUMMER SCHOOLS IN INDIA

Organized by the Academy: In case of an event solely organised by the Academy, INSA would undertake full responsibility for organisation of seminar.

International Conferences, sponsored by ICSU: The proposals for holding General Assemblies, International Congresses/Conferences/Symposia, etc. recommended by the National Committees of the various International Scientific Unions get due consideration. Such events have the sponsorship of the concerned ICSU Union/bodies. These proposals should have the approval of the INSA/ICSU National Committee. The topics of deliberations should be of purely scientific importance. The proposals for these conferences must be received well in advance of the event.

Partial Financial Assistance for holding National/International Conference/Seminar in India: The Academy also provides partial financial support for International Conferences/Symposia/ Seminars/ Summer/Winter schools. Proposals, considered twice a year in March/April and September/October are received well in advance by the Academy for consideration of financial support.
Recipients of INSA-Research Professorship

1. **INSA-Albert Einstein Centenary Research Professorship**
   - Professor GN Ramachandran (1984-89)
   - Professor AN Mitra (1989-94)
   - Professor CNR Rao (1995-99)
   - Professor GS Agarwal (2001-April 2005)
   - Professor PK Kaw (2007-2011)
   - Professor M Vijayan (2013-)

2. **INSA-Golden Jubilee Research Professorship**
   - Professor AK Sharma (1985-90)
   - Professor R Narasimha (1991-95)
   - Professor Animesh Chakravorty (1996-2000)
   - Professor KS Valdiya (2003-08)
   - Professor G Govil (2009-2014)
   - Professor Samir Bhattacharya (2015-)

3. **INSA-Chandrasekhar Venkata Raman Research Professorship**
   - Professor MGK Menon (1986-91)
   - Professor G Padmanabhan (1991-96)
   - Professor KR Parthasarthy (1996-2001)
   - Professor Virendra Singh (2003-08)
   - Professor N Mukunda (2015-)

4. **INSA-Srinivasa Ramanujan Research Professorship**
   - Professor BV Sreekantan (1987-92)
   - Professor G Mehta (1992-97)
   - Professor TV Ramakrishnan (1997-2002)
   - Professor Paul Ratnaswamy (2004-09)
   - Professor HY Mohan Ram (2011-)

5. **INSA-Satyendra Nath Bose Research Professorship**
   - Professor Sukh Dev (1988-93)
   - Professor MS Raghunathan (1994-96)
   - Professor Indira Nath (1998-2003)
   - Professor RC Mahajan (2004-09)
   - Professor R Gadagkar (2010-14)
RECIPIENTS OF INSA PLATINUM JUBILEE CHAIR

Dr S Varadarajan (2009-2014)

RECIPIENTS OF INSA-SENIOR SCIENTIST

<table>
<thead>
<tr>
<th>Year</th>
<th>Recipients</th>
</tr>
</thead>
<tbody>
<tr>
<td>1985</td>
<td>SN Ghosh, D Mohan, NA Narasimhan, M Santappa</td>
</tr>
<tr>
<td>1986</td>
<td>DP Burma, D Nasipuri, DD Pant, S Swaminathan</td>
</tr>
<tr>
<td>1987</td>
<td>TN Ananthakrishnan, DD Awasthi, PK Bhattacharya, AS Divatia, JN Kapur, T Ramakrishnan, NS Subba Rao, AR Verma</td>
</tr>
<tr>
<td>1988</td>
<td>MK Dasgupta, TM Jacob, BR Murthy, AK Raychaudhuri</td>
</tr>
<tr>
<td>1989</td>
<td>SC Agarwal, SS Merh, VV Modi, NS Narasimhan, SP Pandya, S Sriramachari, CV Subramanian</td>
</tr>
<tr>
<td>1990</td>
<td>NK Notani, KK Rohatgi Mukherjee, KP Sinha, OP Vig</td>
</tr>
<tr>
<td>1991</td>
<td>MS Chadha, GK Manna, NR Moudgal</td>
</tr>
<tr>
<td>1992</td>
<td>SN Chatterjee, PD Dogra, TR Kasturi, I Prakash, S Sen, K Venkatesan</td>
</tr>
<tr>
<td>1993</td>
<td>RV Gopala Rao, B Ramachandran, SM Sengupta, R Srinivasan</td>
</tr>
<tr>
<td>1994</td>
<td>RJ Garde, PK Iyenger, RN Kapil, S Ranganathan, SK Sen, NT Singh</td>
</tr>
<tr>
<td>1996</td>
<td>JC Ahluwalia, KMV Apparao</td>
</tr>
<tr>
<td>1998</td>
<td>Maharani Chakravorty, A Jayaraman, BR Nag, K Ramachandra, N Sethunathan, MA Viswamitra</td>
</tr>
<tr>
<td>1999</td>
<td>BK Agrawal, KK Kannan, CK Majumdar, MG Nadkarni, R Ramamurthi, G Shanmugam</td>
</tr>
</tbody>
</table>

* Since deceased
2000
BG Ghosh
AB Roy
A Sridharan

2003
YP Abrol
PR Adiga
RS Ambasht*
D Chakravorty
Maharani Chakravorty
Mihir Chowdhury
P Das
BA Dassanacharya
BG Ghosh
K Gopalan
PK Gupta
Mahdi Hasan*
P Krishna
RK Lal*
SP Moulik
D Mukhopadhyay
MG Nadkarni
J Nanda
Shyam Prakash*
ES Rajagopal
R Ramamurthy
AB Roy
PL Sachdev*
RN Saxena*
G Shanmugam
RS Sharma
KR Shivana
Harjit Singh
BLK Somayajulu
A Sridharan
R Sridharan
MS Srinivasan
GSR Subba Rao
PN Takkar

2004
DJ Bagyaraj
SC Dutta Roy
MS Jairajpuri
PT Manoharan
Indira Nath

2005
NM Bujurke
KRR Easwaran
KP Gopinathan
SS Krishnamurthy
KK Mahajan
MM Mathan
IBS Passi
DK Paul
PS Ramakrishnan
V Ramamurti
A Saran
RP Sharma
K Subba Rao
RS Tripathi
Anupam Verma

2006
IP Abrol
Amitabha Ghosh
SS Kapoor
Sushil Kumar
Krishan Lal
NV Madhusudana
SM Naqvi*
T Parthasarathy
C Ramakrishnan
NK Ray*
Ashok Sahni
T Subramoniam

2007
DM Banerjee
S Krishnaswamy
AV Narlikar
PD Prasada Rao
JS Sandhu
JS Singh

2008
Samir Bhattacharya
Kasturi Datta
Aloke Dey
Alok K Gupta
GS Lakhina
Amarnath Maitra*
K Nag
Ajit Iqbal Singh
Indra Bir Singh
Sita Ram Singh

2009
NM Bujurke
J Gopalakrishnan
RJ Hans-Gill
AK Kamra
BK Sadashiva
SK Subbarao

2010
G Ananthakrishna
SV Bhat
Mihir Deb
H Ila
M Lakshmanan
Ashok Kumar Mallik
Prasanna Mohanty*
P Natraj
RN Singh

2011
CK Dasgupta
AK Jain
Samaresh Mitra
S Nagarajan
KN Pathak
Phoolan Prasad
DP Roy
SM Roy
SK Saidapur
Sudipta Sengupta
PK Singh
Yadvinder Singh

2012
BK Agrawal
VA Bapat
AK Bhatnagar
Alok Kumar Datta
Kunal Ghosh
NK Gupta
H Junjappa
RECIPIENTS OF INSA-HONORARY SCIENTIST

2006
YP Abrol
IB Chatterjee
DK Chatteraj
BN Das
RP Gandhi
AS Gupta*
DVS Jain
SK Jain
SV Kessar
SC Maheshwari
SP Moulik
Prem Narain
Rajendra Prasad
R Raghavarao*
ES Rajagopal
HS Randhawa
RP Rastogi
KP Sinha
PS Ramakrishnan
T Ramasarama
RG Rastogi
RN Saxena*

2008
DD Awasthi*
Mahtab Bamji
OP Bhutani
SC Dutta Roy
SK Ghosh
K Gopalan
VP Kamboj
SS Kapoor
D Mukhopadhyay
SVS Shastri
Virendra Singh
KR Shivana
Sarvajit Singh
A Sridharan
Kalluri Subba Rao

2010
RS Ambasth*
HK Das
KP Gopinathan
SS Krishna Murthy
Sushil Kumar
DK Paul
Anil Saran
PS Sastry
RP Sharma
GSR Subba Rao
T Subramoniam
PN Takkar
Anupam Varma

2011
IP Abrol
SS Bir
SK Dogra

2012
RK Chopra
PM Das
DM Dhar
SK Dogra
DK Garg
KC Gupta
RK Jain
SK Jain
SV Kessar
SC Maheshwari
SP Moulik
Prem Narain
Rajendra Prasad
R Raghavarao*
ES Rajagopal
HS Randhawa
RP Rastogi
KP Sinha

2013
S Anantakrishnan
CK Dasgupta
Amitava Datta
BM Deb
VP Dimri
MV Hosur
ML Munjal
G Padmanaban
BC Ranu
AJ Rao
Bhagyashri A Shanbhag
PS Ramakrishnan
T Ramasarama
RG Rastogi
RN Saxena*

2014
B Bhattacharyya
SM Bhatwadekar
MG Deo
C Ganguly
SN Kaul
G Marimuthu
LM Patnaik
Probir Roy
JS Singh
SP Singh
TP Singh
Yashwant Singh
N Viswanadham
KR Shivana
Sarvajit Singh
A Sridharan
Kalluri Subba Rao

2015
TK Adhya
KK Balasubramanian
HS Balyan
SV Bhat
Sampa Das
Amit Ghosh
PK Gupta
KP Joy
AV Khare
Anjan Kundu
BC Nakara
SK Pal
M Palaniandavar
PN Pandita
Manmohan Sarin
M Udayakumar

* Since deceased
R Raghavendra Rao
AB Roy
RS Tripathi

2012
NM Bujurke
DM Banerjee
K Nag
AV Narlikar
PD Prasada Rao
R Ramamurthi
Probir Roy
JS Sandhu
Sita Ram Singh

2013
Alok K Gupta
SK Sikka
Ajit Iqbal Singh
IB Singh

2014
ON Bhargava
G Govil
RJ Hans-Gill
SK Joshi
AK Kamra
JN Nanda
Bikas Sinha

2015
BK Agrawal
G Ananthakrishna
RV Gurjar
PT Manoharan
JP Mittal
P Natarajan
T J Pandian
RN Singh
The work for compilation of History of Sciences in India was started at the Asiatic Society, Calcutta in 1960 under the supervision of History of Science Board with Dr AC Ukil, FNA, the past-President of the Academy, as Chairman. The programme was sponsored by the Indian National Science Academy, the then National Institute of Sciences of India (NISI) and the necessary fund was sanctioned by the Government of India. In 1964, a deputation from the Academy headed by Dr HJ Bhabha, FNA met the then Education Minister, Mr MC Chagla to clarify the matter concerning the enlargement of the scope of History of Science Board and formation of a National Commission for the same purpose. As regards objectives of the National Commission, Professor DM Bose, FNA, the then Co-Chairman of the History of Science Board had recorded as follows:

While special importance was given to the writings of the history of sciences in India, it was also recognized that history of science should be the subject of continuous study which the Indian Universities should be invited to take up later. For encouraging such studies, the sponsoring body, the National Institute should receive from the Government of India annual grants to be disbursed by the National Commission for the Compilation of History of Sciences in India. The Commission would appoint whole-time Professors and Readers to conduct research as well as supervise the work of research scholars and technical assistants. By such means a cadre of science historians would be trained from which the universities might be able to recruit staff for their history of science departments. (Ref Indian Journal of History of Science, Preface p.i, 1966).

The Commission was set up in 1965 with 21 members from all over India consisting of scientists, historians, indologists and the President of the Academy as Chairman. The work of the Commission was however restricted to the supervision, compilation and publication of studies. A Journal, Indian Journal of History of Science (IJHS), was also set up in order to stimulate contributions from investigators of different disciplines. In 1989, while assessing the progress report of the different research projects relating to ancient, medieval and modern periods, members of the Advisory Boards/National Commission felt that the Academy has done a laudable work in organization of research, systematic collection of sources and publication programme during the last 25 years. It was suggested that there is need for changing the name of the Commission creating and extending scope for study of History of Science from international perspective. The workshop made a unanimous suggestion that the name of the ‘National Commission for the Compilation of History of Sciences in India’ may be modified to the Indian National Commission for History of Science. In addition to other objectives already underlined under the programme, interpretation, critical evaluation of facts and publication of important materials were also emphasized. Till the year 2003, the work of the Commission was coordinated by three advisory boards for ancient, medieval and modern periods. This is now being coordinated by a 12 member Research Council. The quarterly Indian Journal of History of Science (IJHS), the other important organ of the Commission of History of Science, started its publication since 1966. An Editorial Board is also reconstituted periodically for its smooth functioning.
SCIENCE AND SOCIETY

Under the science & society programme, the Academy endeavours to address issues pertaining to science and technology that are of relevance to the society. Some of the initiatives are: Science education programme, study group for preparation of evidence-based well considered documents and topical seminars of societal relevance to initiate enthusiasm and positive discussion amongst the scientific community and influence science policy. In recent past the documents/books were prepared on


SCIENCE EDUCATION

The Academy, in August 2006 established the Science Education Panel to initiate and oversee the Science Education Programmes undertaken for School and College students. The Panel, jointly, in association with Indian Academy of Sciences, Bengaluru and the National Academy of Sciences of India, Allahabad sponsored a variety of activities that are aimed at strengthening of higher education in science and encouraging the young students to take science as a career. These are:

1. _Summer Research Fellowship for students and teachers:_ Under this programme, specific proposals are invited from students and teachers for the work they propose to undertake during the two month Fellowship. In order to expand the expertise and to help students, the Academy has now included active Non-Fellow Faculty Members (recommended by fellows), young scientist awardees and other experts as supervisors in this venture.

2. _A 2-week All India Refresher Courses for teachers:_ This Course is aimed at capacity building of teaching community. The primary focus is to enhance the quality of science education at undergraduate and graduate levels. Refresher Courses are thus, primarily aimed at helping teachers to add value to their teaching.

3. _Lectures/Workshops for students and teachers:_ Short-duration Lectures/Workshops are an important segment of the activities under the Science Education Panel. This two-three day programme is intended for the benefit of students and teachers at the undergraduate, graduate and research levels.

Lecture Series in Remote Areas to Celebrate Year of Science

To celebrate the Year of Science (2012-2013) the Academy had launched a scheme under which lecture-cum-interaction meetings were organized by the Fellows at schools/colleges in areas which are away from the urban areas. The Academy received an enthusiastic response from the fellowship and the Council has decided to continue this programme.

INDIAN NATIONAL YOUNG ACADEMY OF SCIENCES (INYAS)

The Indian National Science Academy established Indian National Young Academy of Sciences (INYAS). The first 20 members of INYAS have been selected by the INSA by
evaluating applications received from INSA Young Scientist awardees up to the age of 40 years. The details are available at INSA website.

ETHICS IN SCIENCE
The Indian National Science Academy established an Inter Academy Panel on ‘Ethics in Science’. The Panel is expected to develop guidelines for ethical conduct of science which will be adopted by all the academies and other research institutes across the country.
INSPIRE

The Government of India (Department of Science and Technology) has launched a major programme to encourage original scientific research under the scheme ‘Inspire’ (Innovation in Science Pursuit for Inspired Research), which primarily aims to attract Young Talents (from age 10 to 32 years). It has already initiated a few schemes to attract students in the age group of 10-22 years. To facilitate the programme further, the DST has planned two new major schemes after Post graduation i.e. scholarship for pursuing Ph.D (Age group 22-27 years) and Post-doctoral Research Fellowship for 5 years under the Faculty Fellowship Award Scheme. These two components of AORC will encourage 1000 research scholars every year for the time being.

INSA, since 2011 on the request of DST has taken up the responsibility of Inspire Faculty Fellowship Award under AORC scheme (Age group 27-32 years) and inviting Leaders in Science to science camps for school students.

An Independent Cell has been set-up for this newly introduced programme at the INSA premises with separate budget provided by the DST. A core committee of three members headed by Professor SC Dutta Roy advises the Inspire Cell of INSA for execution of this highly specialized programme.

This Programme is operated through eight discipline-wise Selection Committees and an Apex Committee for final selection of the Faculty Fellows. The selection is done twice a year to attract more young Indian research scientists in the country and abroad.

The academy has also made arrangements for selection through SKYPE/video conference network for the applicants residing abroad.
The Informatics Centre of the Academy encompasses Library, Computer Centre and INSA Archives. The library of the Academy primarily serves the Fellows of the Academy and other enrolled members. It renders reference service whenever required and extends facilities for consultation. At present it is receiving more than 200 scientific and technical journals and has collection of about 14,400 books covering Science and Technology, History and Philosophy of Science, Science Management and Science Policy. Besides this, Library is also procuring books in Hindi pertaining to the S&T area. Presently, it has over 1615 Hindi books.

The Informatics unit also aims at having a complete set of publications of the Fellows of the Academy. Besides the routine activities of the library, the following services are being provided to its users:

**Electronic Resources**

All the essential data like Public Lectures videos, photos, workshop photographs, international conference data etc, are being archived. Besides, videos of popular lectures videos are shared with public through social medias.

**Creating Digital Resources**

The Informatics Centre had initiated digital content creation process and as a sequel to this, digitization of Fellowship records was initiated. The existing fellowship records collection has now been made available in digital format having suitable provision for database access.

**Institutional Repositories**

The Informatics Centre is actively associated with creation of electronic databases of INSA Journals and making them available for access by the scientific community. Three INSA Journals *Proceedings*, *IJHS*, and *IJPAM* are available online as open access journals at Academy’s website www.insa.nic.in.

**Other Activities**

The entire premises of the academy have been networked and the IT infrastructure has also been further augmented. The National Knowledge Network (NKN) linkages have been set-up to further boost e-communication culture in the Academy with sectional e-mail accounts being facilitated via National Informatics Centre. Regulations governing library services are available at www.insaindia.org

**INSA Archives**

The archives unit was established during the Platinum Jubilee Celebrations which houses all available data of INSA Fellows, including books, reprints, detailed bio-data and list of publication. The INSA archive intends to preserve rare manuscripts and other valuable knowledge materials related to History of Science and Technology in India. It will also house photographs of Fellows, important events in the history of INSA, our relationship with other sister Academics/other International scientific bodies such as TWAS/IAP/IAC/FASAS etc, documentaries on the life of Fellows and other scientists and any other material concerning Academy, Indian Science and Fellowship. All these documents will be microfilmed, digitized and stored in a retrievable form.
**PUBLICATIONS**

The publications of the Academy include: *Proceedings of the Indian National Science Academy, Indian Journal of Pure and Applied Mathematics* and *Indian Journal of History of Science*. In addition the Year Book of the Academy, Scientific reports/ Monographs/Proceedings of the Seminar, Biographical Memoirs of the deceased Fellows of the Academy are also published.

**Proceedings of the Indian National Science Academy**

The first issue of the *Proceedings* was published in 1935 as a single issue for both Physical and Biological Sciences. It was split in two series—*Part A* and *Part B* in 1955. Six issues of each part were brought out in a calendar year.

*Proceedings*, which had earlier been devoted to original research reports in *Physical Sciences* (*Proceedings-Part A*) and in *Biological Sciences* (*Proceedings-Part B*) shifted its orientation from January 1998 by publishing review articles of contemporary scientific interest, evaluating advances and newer approaches in the concerned fields. They also contain reports from special interest symposia. The emphasis thus shifted from being vehicles of original research reports into ones of reviews and trends, as well as of comprehensive summary reports on chosen topics. The *Proceedings* then concentrated on bringing out thematic issues on current scientific topics containing invited reviews both from India and abroad since 2001. From year 2006, the Academy brought out a major change in the *Proceedings* as the two parts have been merged into a single volume. Quarterly issues of the *Proceedings* cover areas under Biological, Physical, Applied Sciences and also Engineering and are brought out in the months of March, June, September and December. The *Proceedings* has been rejuvenated to contain review papers, original research articles, short communication, commentaries, lateral thinking and emerging techniques etc.

The interested authors are welcome to contribute in the *Proceedings* and submit their papers which shall be published only following the standard rigours of refereeing.

Papers presented at the Academy’s symposia, special Academy lectures relating to research and concepts, fundamental to Physical and Biological Sciences, are also published in the *Proceedings.*

**Indian Journal of Pure and Applied Mathematics**

The journal is devoted to original research in all areas of Mathematical Science. The first issue of the quarterly journal was published in January 1970 and since 2006 being published bi-monthly. From January 2010 onward journal is being published jointly with M/s Springer for international readers and is available online link of M/s Springer in addition to INSA Website.
Indian Journal of History of Science

Published under the guidance of Indian National Commission for History of Science set up by the Academy. First published in 1966 as biannual and then switched over to quarterly from 1984 onwards. Devoted to studies and researches in various fields of ancient, medieval and modern science in historical perspective. It is an interesting forum for scientists, historians, sociologists and philosophers for exchange of their ideas on the evolution and characteristics of scientific concepts and technological advances.

Other Publications

Scientific reports/Monographs/Special issues are priced individually. Journals are priced annually.

Biographical Memoirs of Deceased Fellows of the Indian National Science Academy: Commenced in 1966 and each volume is priced separately. Till date 41 Volumes containing more than 550 memoirs has been published.

Year Book: First Issued in 1960 and priced individually.

Newsletter: A quarterly in-house news publication titled INSA News which was being published and circulated among Fellowship, Exchange Societies and Scientific Community in general has now been merged with Proceedings of the Indian National Science Academy as Academy News.

All the details regarding the publication of the Academy can be seen at the Academy’s Journal website www.insa.nic.in.
THE FUNDS OF THE ACADEMY

1. All the sums received by the Academy shall be deposited with any of the nationalised bank(s) to be decided by the Council.

2. (a) The Council shall be competent to decide the limit of amounts in respect of cheques to be signed by the Assistant Executive Director (Finance) and either the Executive Director or any one of the paid officers of the Academy to be designated by the President.

(b) All cheques beyond the limit decided under Regulation 2(a) shall be signed by the Executive Director and the Vice-President (Resource Management). In the absence from the Headquarters either of the Executive Director or the Vice-President (Resource Management) or both, the President shall designate any one of the other paid officers of the Academy and any one of the Office Bearers, as the case may be, to sign the cheques.

The following funds are administered by the Academy.

Chandrakala Hora Memorial Medal Fund

In the year 1945, Dr SL Hora and Mrs V Hora made an endowment of Rs. 3,000.00 for the purpose of founding a Medal in the memory of their daughter, Kumari Chandrakala Hora, to be awarded for conspicuously important work on the development of fisheries in India once in three years.

An additional contribution of Rs. 10.00 lakhs was received by the Academy in the year 2007 from the Hora family for the medal award fund.

Dr Shanti Swarup Bhatnagar Memorial Fund

This fund originated in the year 1955 from donations of Fellows and others amounting to Rs. 5,366.25. Its objective was to perpetuate the memory of the late Dr Shanti Swarup Bhatnagar, an eminent scientist who made great contribution to the cause of science and industry.

Bires Chandra Guha Memorial Lecture Fund

In the year 1966 Dr (Mrs) Phulrenu Guha made an endowment of Rs. 10,000.00 for the purpose of founding a Lectureship in the memory of her husband, Professor Bires Chandra Guha, to be awarded for outstanding contributions in the field of biochemistry, nutrition, food and allied problems in the broadest sense. During the year 2010, a sum of Rs. 60,000/- was contributed by the students and well wishers while during the year 2011 a sum of Rs. 5.00 lakhs was contributed by CSIR. Apart from this US$ 3950 was donated by Dr. Deepak Haider from USA for the Professor BC Guha memorial fund during the year 2011.

Shree Dhanwantari Prize Fund

In the year 1969, Shri Anant Krishna Asundi, BA, LLB (Bom.), Retired District and Sessions Judge, Bijapur (Karnataka) made an endowment of Rs. 16,000.00 for the purpose of founding a
prize in memory of his youngest daughter, Shrimati Akkadevi, to be called Shree Dhanwantari Prize. A further gift of Rs. 2,500.00 was made by Shri AK Asundi in the year 1971.

BN Chopra Memorial Lecture Fund

In the year 1968, the family (Mrs Iqbal Chopra, Shri Pran Nath Chopra, Shri Ramesh Nath Chopra and Mrs Mohini Duggal) of late Dr BN Chopra made an endowment of Rs. 10,000.00 for the purpose of founding a lectureship in any branch of biological sciences coming within the purview of the Academy.

Professor TR Seshadri 70th Birthday Commemoration Medal Fund

In the year 1970, an endowment of Rs. 10,000.00 was made by the students of Professor Tiruvenkata Rajendra Seshadri for instituting ‘Professor Tiruvenkata Rajendra Seshadri Seventieth Birthday Commemoration Medal’.

Vishwakarma Medal Lecture Fund

In the year 1976, an endowment of Rs. 33,000.00 was made by Dr PB Sarkar, FNA, retired Director, Technological Research Laboratories, Indian Central Jute Committee, P 133 Lake Terrace, Calcutta, for the purpose of instituting a suitable prize to be awarded every third year to scientists or technologists or any one whose discovery or invention has led to the start of a new industry in India or to significant improvement of an existing process resulting in cheaper or better product. Rs. 1,48,586/- was added to the Endowment fund by Dr Gopa Sarkar De, daughter of late Dr PB Sarkar, after approval by the Council in December 2002.

Silver Jubilee Fund

This fund was started in the year 1960 from the donations amounting to Rs. 2,642.73. Its objective was to commemorate the Silver Jubilee of the Academy by awarding a Silver Jubilee Commemoration Medal once in every three years for popularization of science.

INSA Endowment Lecture Fund

(i) In the year 1979, the Indian National Science Academy accepted an endowment of Rs. 10,000/- received from Dr C Ramasastry, IIT Madras (raised by old student of Professor K Rangadham Rao) for institution of an INSA Endowment Lecture in memory of Professor K Rangadham Rao.

(ii) In the year 1979, an endowment of Rs 15,000/- was made by Dr GP Chatterjee, FNA and Smt Suniti Chatterjee for the purpose of instituting an INSA Endowment Lecture to be named after Guru Prasad Chatterjee at an appropriate time in the future. In 2010 a sum of Rs. 5000/- was donated by the well wisher of Professor Chatterjee.

(iii) In the year 1981, an endowment of Rs. 10,000/- was made by Dr (Mrs) Savitri Swarup for the purpose of instituting an INSA Endowment Lecture to be named after Dr Har Swarup, FNA. The lecture will be delivered once in every three years. In the year 2010 a sum of Rs. 5.00 lakhs was donated by the family members of late Professor Har Swarup.

(iv) In the year 1982, an endowment of Rs. 25,000/- was received from Professor Toppur Seethapathy Sadasivan Endowment Committee for the purpose of instituting an INSA
Endowment Lecture to be called Professor Toppur Seethapathy Sadasivan Endowment Lecture instituted out of an endowment of Rs. 25,000/- by Professor Sadasivans's students and admirers. An additional sum of Rs. 5,000/- had also been received by the Academy which was utilised for the first lecture held in December 1982. Further in 2010 an additional sum of Rs. 5000/- was donated by the well wisher of Professor Sadasivan.

(v) In the year 1982, an endowment of Rs. 1,00,000/- was received from Dr GT Panse, Member-Secretary, Professor Bal Dattatraya Tilak Scientific Research and Education Trust, Pune for the purpose of institution of an INSA Endowment Lecture for Rural Development through effective application of Science & Technology.

(vi) In the year 1983, an endowment of Rs. 25,000/- was received from Dr NA Narasimham, FNA on behalf of the students of Professor Rango Krishna Asundi for the purpose of institution of an INSA Endowment Lecture in memory of Professor RK Asundi, who was a distinguished Fellow of the Academy.

(vii) The Dr Panchanan Maheshwari Memorial Lecture was established in 1984 out of an endowment of Rs. 26,200/- by the colleagues and friends of the late Professor Panchanan Maheshwari, a distinguished Botanist and Foundation Fellow of the Academy.

(viii) The INSA-Vainu Bappu Memorial Award was established in 1985 from an endowment of Rs. 3,00,000/- by Mrs Sunanna Bappu, mother of the late Dr Manali Kallat Vainu Bappu, an eminent Astronomer and Fellow of the Academy.

(ix) The INSA-TS Tirumurti Lecture was established in 1985 out of an endowment of Rs. 25,000/- by Mrs Janaki Ramachandran, daughter of the late Dr Tirunelveli Subbaiyer Tirumurti, who made notable contributions to pathology and medicine and was a Foundation Fellow of the Academy.

(x) The Nitya Anand Endowment Lecture was established in 1986 out of an endowment of Rs. 1,30,000/- by the Organising Committee to celebrate the 60th Birthday of Dr Nitya Anand, an eminent chemist and a Fellow of the Academy. The funds came from Dr Nitya Anand's friends, students and admirers in academic institutions and the pharmaceutical industry.

(xi) The INSA Prize for Materials Science was established in 1986 out of an endowment of Rs. 50,000/- by the Organizing Committee of the International Conference on the ‘Application of Mossbauer Effect,’ held in 1981.

(xii) The Professor LSS Kumar Memorial Award was established in 1986 out of an endowment of Rs. 10,000/- made by Mrs K Kumar, widow of Professor LSS Kumar to commemorate the memory of Professor Kumar. In 2010 a sum of rupees one lakh was further donated by the family members of Professor LSS Kumar.

(xiii) The Anil Kumar Bose Memorial Award was established in 1987 out of an endowment of Rs. 18,000/- made by the family and friends of late Shri AK Bose, former Executive Secretary of INSA.

(xiv) Professor Brahm Prakash Endowment Medal was established in 1987 from an endowment of Rs. 54,003/- of which Rs. 25,000/- was donated by Mrs Brahm Prakash and the remaining Rs. 29,000/- by friends of the late Professor Brahm Prakash. In the year 2010 a sum of Rs. 25000/- was donated by Dr CA Reddy a well wisher of late Professor Brahm Prakash.
(xv) Professor Shyam Bahadur Saksena Memorial Lecture was established in 1989 from an endowment of Rs. 60,000/- made by the family of late Professor SB Saksena.

(xvi) Professor MRN Prasad Memorial Lecture was established in 1989 out of an endowment of Rs. 50,000/- made by the colleagues and friends of late Professor MRN Prasad.

(xvii) Professor GN Ramachandran 60th Birthday Commemoration Medal was established in 1989 out of endowment of Rs. 1,00,000/- from the Organizing Committee for Commemoration of 60th Birthday of Professor GN Ramachandran.

(xviii) Professor KP Bhargava Memorial Medal was established in 1992 out of endowment of Rs. 50,000/- from Mrs Savitri Bhargava to commemorate the memory of late Prof KP Bhargava. In the year 2011, an endowment amount of Rs. 2,00,000/- was received from the family members of late Professor KP Bhargava.

(xix) Professor S Swaminathan 60th Birthday Commemoration Lecture was established in 1990 out of endowment of Rs. 75,000/- from Professor S Swaminathan 60th Birthday Commemoration committee. In the year 2011, the Academy received an endowment of Rs. 1,65,000/- from students and well wishers of Professor Swaminathan.

(xx) Professor Shambu Nath De Memorial Lecture was established in 1992 out of endowment of Rs. 50,000/- from Specialised Symposium on Yeasts (IUMS) on behalf of the Association of Microbiologists of India (AMI).

(xxi) Professor Vishnu Vasudeva Narlikar Memorial Lecture was established in 1992 out of endowment of Rs. 1,00,000/- received from family members and a close friend of late Professor VV Narlikar. In the year 2011, an endowment of Rs. 2,00,000/- was received from family members of late Professor Narlikar.

(xxii) Dr Jagdish Shankar Memorial Lecture was established in 1992 out of endowment of Rs. 58,534/- from the Organizing Committee of the Emerging Frontiers in Chemistry Symposium, students, admirers and family members of late Dr Jagdish Shankar.

(xxiii) Professor Vishwa Nath Memorial Lecture was established in 1993 out of endowment of Rs. 1,00,000/- received from students, family members and friends of late Dr Vishwa Nath.

(xxiv) Dr Biren Roy Memorial Lecture was established in 1993 out of endowment of Rs. 2,00,000/- from the Biren Roy Trust.

(xxv) Professor Sadhan Basu Memorial Lecture was established in 1993 out of endowment of Rs. 1,00,000/- from Professor Sadhan Basu Memorial Fund Committee. In the year 2011, a total endowment of Rs. 2,33,000/- was received from Professor Kankan Bhattacharya, Director, IACS, Kolkata, which he collected from the students and admirers of late Professor Sadhan Basu.

(xxvi) Dr Yellapragada SubbaRow Memorial Lecture was established in 1995 from an endowment of Rs. 2,00,000/- made by the National Committee for Dr Yellapragada SubbaRow Centenary Celebrations.

(xxvii) Professor Kshitindramohan Naha Memorial Medal was established in 1996 from an endowment of Rs. 3,00,000/- by the family members of Professor Naha to commemorate the Medal Award of late Professor Kshitindramohan Naha, an eminent geologist of our country.
Endowment fund of Rs. 3,00,000/- was received in 1998 from family, colleagues and students for establishment of Endowment Medal award in the name of late Professor Krishna Sahai Bilgrami, FNA.

An endowment amount of Rs. 5,00,000/- was received in 2001 from Professor S Ranganathan, FNA which was invested for establishment of Dr Darshan Ranganathan Memorial Lecture. In the year 2011 an additional amount of Rs. 2,65,000/- was received from Professor S Ranganathan, FNA the husband of late Professor Darshan Ranganathan.

An endowment amount of Rs. 5,00,000/- was received in 2002 from Professor AC Jain, FNA which was invested for establishment of an award in his name at appropriate time.

An endowment amount of Rs. 3,00,000/- was received in 2003 from Dr (Mrs) Radha R Das, wife of late Dr MR Das, FNA for establishment of Dr MR Das Memorial Lecture.

IUPAB-Prof GN Ramachandran Lecture was established in 2006 out of an endowment of Rs. 30,00,000/- received from CSIR, New Delhi for an international award once in three years to commemorate the memory of late Professor GN Ramachandran.

Professor Bhim Shanker Trivedi Memorial Medal was established in 2013 out of an endowment of Rs. 10,00,000/- received from family members of late Professor BS Trivedi, a distinguished Paleo Botanist and Fellow of the Academy.