



Year Book
of
The Indian National
Science Academy

2019

Volume I

The Year Book *2019*

Volume-I



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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–2019

Date	Event	Venue
FEBRUARY		
28 (Thu)	Meetings of Sectional Committees for Election of Fellows/National Science Day	INSA, New Delhi
MARCH		
27 (Wed)	Advisory Committee for Science & Society/ Publication Advisory Board/ Infrastructure and Informatics Committee	INSA, New Delhi
28-29 (Thu-Fri)	Meeting of the Indian National Commission for History of Science	INSA, New Delhi
APRIL		
24-26 (Wed-Fri)	Meetings of Sectional Committees for Selection of Young Scientists and Election of Fellows /Advisory Boards for INSA Awards/Council Meeting/General Body Meeting/Science Promotion Committee	INSA, New Delhi
JULY		
18-19 (Thu-Fri)	History of Science Seminar/Meeting of the Indian National Commission for History of Science/ Science Promotion Committee	INSA, New Delhi
25-26 (Thu-Fri)	Meetings of ISC National Committees/Inter-Academy Exchange Committee/Council/ General Body/Resource Management Committee	INSA, New Delhi
DECEMBER		
16-18 (Mon-Wed)	Seminar/Lectures Meetings of INSA Council/Anniversary General Meeting/Fellowship Induction Ceremony/INSA Young Scientists Medal Presentation/INSA Teachers Award Presentation	Venue to be decided

Other Important Dates*Last date for nominations to:***JUNE**

17 (Mon) INSA Senior Scientists Position (2020)

JULY

15 (Mon) INSA Fellowship 2020

AUGUST

30 (Fri) Inter-Academy Exchange Programme

OCTOBER

15 (Tue) INSA Awards due in 2020

31 (Thu) INSA Medal for Young Scientists (2020)

COUNCIL

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Professor AK Sood (080) 2360-2238, 2293-2964 (O)
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98-682-07140 (M)

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98-923-52830 (M)

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Professor RV Sonti (<i>Hyderabad</i>)	(040)	2719-2577 (O), 2715-0821 (R), 94-410-55295 (M)
Professor MG Watve (<i>Pune</i>)	(020)	2590-8093 (O), 2543-1019 (R), 98-229-10198 (M)
Professor GD Yadav (<i>Mumbai</i>)	(022)	3361-1111/2222, 3361-1001 (D), 3361-1010 (R), 98-330-90510 (M)

Representatives of Cooperating Academies and Government of India

The Asiatic Society

Dr Kunal Ghosh (<i>Kolkata</i>)	(033)	2446-7048, 2483-0029 (O), 2479-1112, 2448-0537 (R), 94-330-10233, 83-360-42420 (M)
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The Indian Science Congress Association

Professor R Ramamurthi (<i>Tirupati</i>)	(0877)	224-1907 (O), 98-494-88390 (M)
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Government of India (Department of Science and Technology)

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PAST PRESIDENTS

Sir Lewis Leigh Fermor	1935-36
Professor Meghnad Saha	1937-38
Lt Col Ram Nath Chopra	1939-40
Dr Bainsi Prasad	1941-42
Dr Jnan Chandra Ghosh	1943-44
Dr Darashaw Noshervanji 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 Prasantha 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
Professor Raghavendra Gadagkar	2014-16

RECENT PAST VICE-PRESIDENTS

Professor Arumugham Gnanam	1994-96
Professor Goverdhan Mehta	1995-97
Professor Marthanda Varma Sankaran Valiathan	1997-99
Professor Dipankar Chakravorty	1998-2000
Professor Sushanta Dattagupta	2000
Professor Maroli Krishnaya Chandrashekarani	2000
Professor Ramesh Chand Mahajan	2000-01
Professor Janardan Nanda	2000-01
Dr Harsh Kumar Gupta	2001
Professor Varadachari Krishnan	2000-02
Professor Chhitar Mal Gupta	2002
Professor Tiruppattur Venkatachalamurti Ramakrishnan	2001-03
Professor Mohammad Shamim Jairajpuri	2001-03
Professor Samir Bhattacharya	2003
Dr Inder Pal Abrol	2002-04
Professor Surendra Prasad	2002-04
Professor Raghavendra Gadagkar	2003-05
Professor Rajinder Jeet Hans-Gill	2004-05
Professor Sudhir Kumar Sopory	2004-06
Dr Swaminathan Sivaram	2004-06
Professor Subhash Chandra Lakhota	2006
Professor Mamannamana Vijayan	2005-07
Professor Anupam Varma	2005-07
Professor Narayanaswamy Balakrishnan	2006-08
Professor Alok Krishna Gupta	2007-09
Professor Predhiman Krishan Kaw	2007-09
Professor Tej Pal Singh	2007-09
Professor Narinder Kumar Gupta	2008-10
Professor Ajay Kumar Sood	2008-10
Dr Mahtab S Bamji	2009-11
Professor Akhilesh K Tyagi	2009-11
Professor Ramamurti Rajaraman	2010-12
Professor Narayanasami Sathyamurthy	2010-12
Professor Alok Bhattacharya	2011-13
Professor ML Munjal	2011-13
Professor SS Agarwal	2012-13
Professor SK Saidapur	2012-14
Professor JP Khurana	2014
Professor MK Chaudhuri	2013-15

Dr DM Salunke	2013-15
Professor JP Mittal	2014-16
Professor Rajendra Prasad	2014-16
Professor SC Lakhotia	2015-17
Professor LS Shashidhara	2015-17
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1986 : ABROL, Yash Pal (b 1935), PhD, Sp: Agricultural/Environmental Sciences; FASc, FNASc, FNAAS, Adjunct Professor, Founder President & Chief Patron, *Indian Nitrogen Group, Society for Conservation of Nature (SCON) F4, A Block, NASC Complex, DPS Marg, New Delhi 110012*; 202 Abhinandan, Sector 51, Near Artemis Hospital, Gurugram 122002 [Tel (011) 2584-3842, 2584-2110 (O), (0124) 257-6165 (R), 98-100-32162 (M); Email yabrol@gmail.com]; INSA Honorary Scientist (2006-15); **SC: VII.**



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2003 : ADHYA, Samit (b 1953), PhD (US), Sp: Molecular Biology; FASc, Emeritus 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, nilugrandson@gmail.com]; **SC: X.**



2008 : ADHYA, Tapan Kumar (b 1949), PhD, Sp: Environmental Microbiology; FNASc, FNAAS, INSA Senior Scientist, Professor, *School of Biotechnology, KIIT University (Deemed to be University), Bhubaneswar 751024, Odisha* [Tel (0674) 272-5466 (O), 94-373-04299, 82-492-53228 (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, FTWAS, formerly Professor (I), *TIFR CAM, PB 6503, Sharadanagar, Chikkabommasandra, Bengaluru 560065*; Flat No. 2, Sree Gurunivas Apartments, 23-24, First Main Road, Amarijyothi Layout, Sanjay Nagar, Bengaluru 560094 [Tel (080) 6695-3742 (O), 2341-1505 (R), 96-635-65354 (M); Fax 6695-3799; Email adiadimurthi@gmail.com, aditi@math.tifrbng.res.in]; **SC: I.**



1985 : AGARWAL, Girish Saran (b 1946), PhD, DSc (*bc*), Sp: Quantum Optics, Nano Photonics, Plasmonics; FASc, FNASc, FTWAS, FRS, Texas A&M University, College Station, TAMU4242, TX 77843; formerly Noble Foundation Chair and Regents' Professor, *Oklahoma State University, Stillwater, OK 74078 (USA)*; Director and Distinguished Scientist, PRL, Ahmedabad [Tel 405-714-1566 (M); Email girish.agarwal@tamu.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 kna_ped@yahoo.com]; **Medal:** Professor KP Bhargava Memorial (2014); **SC: XI.**



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.**



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1988 : AGRAWAL, Bal Krishna (b 1939), DPhil, DSc, Sp: Condensed Matter Physics, Nanostructures and Superconductivity; FNASc, INSA Emeritus Scientist, formerly Head, *Department of Physics, Allahabad University, Allahabad 211002*; 15-D, Bank Road, Allahabad 211002 [Tel 94-153-06814 (M); Email balkagl@rediffmail.com, balkagr@yahoo.co.in]; INSA Honorary Scientist (2015-18); **SC: II.**



2019: AGRAWAL, Madhoolika (b 1958), PhD, Sp: Ecology and Environmental Science (Air Pollution, Global Environmental Change, Food Chain Contamination); FNASc, FNAAS; Professor, *Department of Botany, Banaras Hindu University, Varanasi 221005*; B-97, Brij Enclave Colony, Sunderpur, Varanasi 221005 [Tel 94-156-28573 (M); Fax (0542) 236-8174; Email madhoo.agrawal@gmail.com]; **SC: XII.**



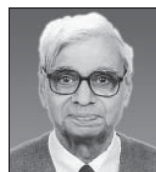
2008: AGRAWAL, Manindra (b 1966), PhD, Sp: Theory of Computation; FASc, FNASc, FNAE, FTWAS, Foreign Assoc US NAS, N Rama Rao Chair Professor, *Department of Computer Science, Indian Institute of Technology, Kanpur 208016*; H.No. 622, IIT Campus, Kanpur 208016 [Tel (0512) 259-7338 (O), 259-8363 (R), 99-350-62605 (M); Email manindra@iitk.ac.in; Web <http://www.cse.iitk.ac.in/users/manindra>]; **Council: Mem 2016-18; SC: I.**



2010 : AGREWALA, Javed Naim (b 1961) PhD, Sp: Immunology, Tuberculosis, Vaccines, Gut Microbiome; FASc, FNASc, Dean Research and Professor, *Centre for Biomedical Engineering, Indian Institute of Technology Ropar, Ropar 140001, Punjab*; H.No. E14, IMTECH Housing, Sector 39-A, Chandigarh 110036 [Tel (01881) 242-311 (O), 94-178-69408 (M); Email jagrewala@iitrpr.ac.in, jagrewala@gmail.com; Web <http://iitrpr.ac.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 jcahlualia@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, INSA Senior Scientist, *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/Prof_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 Delhi 110025* [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 : AJAYAGHOSH, Ayyappanpillai (b 1962), PhD, Sp: Organic (Materials) Chemistry; FASc, FNASc, FTWAS, Director, *CSIR-National Institute for Interdisciplinary Science and Technology (NIIST)*, Thiruvananthapuram 695019; Devadaru, TC 55/191, Kuttikkadu Lane, Kaimanom, Pappanamcode, PO Thiruvananthapuram 695018 [Tel (0471) 249-0324, 251-5220 (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, FTWAS, DAE Raja Ramanna Fellow, JC Bose National Fellow, *CSIR-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, nahidali28@yahoo.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 profsali55@gmail.com, alis@jmi.ac.in]; **Council:** Mem 2013-15; **SC: VIII.**



2016 : ANAND, Anuranjan (b 1965), PhD, Sp: Human Genetics and Genomics; 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 & Neuro-physiology; FTWAS, FAMS, Principal Investigator, *Exertional Breathlessness Studies Laboratory (DST), Vallabhbhai Patel Chest Institute, Delhi University, PO Box 2101, Delhi 110007* [Tel (011) 2740-2426 (O), 98-103-59779 (M); 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) 404-3229 (R), 96-700-66999 (M); 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 Emeritus 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@iisc.ac.in, anantha.garani@gmail.com]; INSA Senior Scientist (2010-15), INSA Honorary Scientist (2015-18); **SC: M.**

2004 : ANANTHAKRISHNAN, Subramaniam (b 1944), M Tech, PhD, Sp: Radio Astronomy; FASc, FNASc, INSA Honorary Scientist and Adjunct Professor, *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 (R), 94-210-81098 (M); Fax 2569-9841; Email subra.anan@gmail.com, ananth@electronics.unipune.ac.in]; **Medal:** INSA-Vainu Bappu Memorial (2010); INSA Senior Scientist (2013-16); **Council:** Mem 2008-10; **SC: II.**



2009 : ANTIA, Hormazad Maneck (b 1955), PhD, Sp: Physics and Numerical Techniques; FASc, Senior Professor, Astrophysics Group, *Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400005*; 402, Panini, TIFR Housing Colony, Mumbai 400005 [Tel (022) 2278-2514; Fax 2280-4610; Email antia@tifr.res.in, Web <http://www.tifr.res.in/~antia/>]; **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 apparao.krishna@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, JC Bose National Fellow 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 aptesk@barc.gov.in, shree.apte@gmail.com]; **Medal:** Professor KS Bilgrami Memorial (2007); **Lecture:** Professor Vishwa Nath Memorial (2018); **Council:** Mem 2007-09; **SC: VII.**

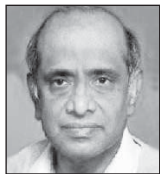


2013 : ARANKALLE, Vidya Avinash (b 1952), PhD, Sp: Virology, Biotechnology, Vaccinology; FASc, Director-In-Charge & Scientist G, National Institute of Virology, Sus Road, Pashan, Pune 411021; *3C-A2-24, New Ajanta Avenue, Paud Road, Kothrud, Pune 411038* [Tel (020) 2600-6390, 93-710-16417 (M); Fax 2612-2699; 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, Kodambakkam, Chennai 600024* [Tel (044) 2472-4198 (R), 89-391-39327 (M); Email vaiarunachalam@hotmail.com]; **SC: XII.**





1984 : ARUNACHALAM, Vallampadugai Srinivasaraghavan (*b* 1935), PhD (Wales), DEngg (*hc*), DSc (*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.



2015 : AYYUB, Pushan (*b* 1957), PhD, Sp: Condensed Matter Physics (Nanostructured Materials); Senior Professor, *Department of Condensed Matter Physics and Materials Science, Tata Institute of Fundamental Research, 1 Homi Bhabha Road, Mumbai 400005*; 710 Bhaskara, TIFR Colony, 2 Homi Bhabha Road, Mumbai 400005 [Tel (022) 2278-2295 (O), 2280-4691 (R), 98-697-61042 (M); Email pushan.ayyub@gmail.com; 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 Mananli, 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, *JSCU, 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@iisc.ac.in, bagchibiman@yahoo.com]; **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, INSA Honorary Scientist, Chairman, Centre for Natural Biological Resources and Community Development (CNBRCD); 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.**



2018 : BALAJI, Kithiganahalli Narayanaswamy (b 1966), PhD, Sp: Immunology, Infectious Diseases, Cell Biology; FASc, FNASc, Professor, *Department of Microbiology and Cell Biology, Indian Institute of Science, Bengaluru 560012*; 877, BSK, 1st Stage, IIInd Block, 6th Cross, Hanumanth Nagar, Bengaluru 560050 [Tel (080) 2293-3223 (O), 2661-5625 (R), 81-975-09682 (M); Email balaji@iisc.ac.in; Web <http://mcbl.iisc.ac.in/balaji/index.html>]; **SC: IX.**



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, Complex Networks; FASc, FNASc, FNAE, FTWAS, Honorary Professor, *Supercomputer Education and Research Centre, Indian Institute of Science, Bengaluru 560012*; 428, 5th Cross, 1st Main, JRD Tata Nagar, Bengaluru 560092 [Tel (080) 2360-0325 (O), 2351-6160 (R); Fax 2293-3438; Email balki.iisc@gmail.com, balki@iisc.ac.in; Web <http://www.serc.iisc.ac.in/faculty/balakrishnan/>]; **Lecture:** JL Nehru Birth Centenary (2002); **Council:** VP 2006-08; **SC: V.**



2018 : BALARAM, Hemalatha (b 1956), PhD, Sp: Biochemistry, Metabolism, Molecular Parasitology, Molecular Enzymology; FASc, Professor, *Molecular Biology and Genetics Unit, Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Jakkur, Bengaluru 560064*; D102, R.V. Apartments, 6th Main, Between 13th and 15th Cross, Malleswaram, Bengaluru 560003 [Tel (080) 2208-2812 (O), 2334-0962 (R), 99-721-77547 (M); Fax 2208-2766; Email hb@jncasr.ac.in]; **SC: X.**



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, FAAAS, FAAS, Fellow, German Academy of Sciences; Distinguished Scientist & Director of Research Emeritus, *L V Prasad Eye Institute, Road No.2, Banjara Hills, Hyderabad 500034*; Plot No. 40, Sai Enclave, Scientists Colony, Habsiguda, Hyderabad 500007 [Tel (040) 2354-3652, 3061-2501 (O), 98-850-19922 (M); Fax 2354-8271; Email dbala@lvpei.org, dbala1939@gmail.com; Web www.lvpei.org]; **Medal:** JC Bose (1998), Indira Gandhi Prize for Popularization of Science (2002); **Lecture:** DS Kothari Memorial (2017); **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; INSA Distinguished Professor, The Institute of Mathematical Sciences, Central Institute of Technology Campus, Taramani, Chennai 600113; *10, Golden Avenue, Velachery, Chennai 600042* [Tel (044) 2254-1267, 2254-3200 (O), 2259-1626 (R), 98-400-17480 (M); Fax 2254-1586; Email balu@imsc.res.in]; **Medal:** INSA Young Scientist (1980); **Council:** Mem 1994-96; **SC: I.**



2010 : BALYAN, 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*; 1/239, Rakshapuram, Mawana Road, Meerut 250001 [Tel (0121) 276-8195 (Lab), 262-3564 (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, Former Dean, School of Life Sciences and School of Computational and Integrative Sciences, JNU, New Delhi; formerly Vice Chancellor, SMVDU, Katra, Jammu; *K-G01, Mabindra Aura, Sector-110A, Dwarka Expressway (Near Bajghera Railway crossing-New Palam Vihar Phase-3), Gurugram 122001*; [Tel (0124) 495-3345 (R), 99-681-31434 (M); 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 Emeritus 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, 95-058-38921 (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); INSA Honorary Scientist (2008-15); **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, FIEEE, Director, *Indian Statistical Institute, 203 BT Road, Kolkata 700108*; 6, Dingshai Para Road, Bally, Howrah 711201 [Tel (033) 2577-3084 (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, JC Bose National Fellow, Senior Principal Scientist, *Division of Infectious Diseases & Immunology, CSIR-Indian Institute of Chemical Biology, 4, Raja SC Mullick Road, Jadavpur, Kolkata 700032*; Professor of Biological Sciences (Academy of Scientific and Innovative Res), 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, INSA Emeritus Professor, Emeritus Scientist, National Institute of Immunology, Aruna Asaf Ali Marg, New Delhi; *B27-GF South End Floors, Sector 49, Sobna Road, Gurugram 122018* [Tel (011) 2670-3616 (O), 2670-3615 (R), 98-187-17833 (M); Fax 2674-2125; Email akhil@nii.res.in, akhil_banerjea@yahoo.com]; **Lecture:** Dr Y SubbaRow Memorial (2017); **SC: X.**



2000 : BANERJEE, Dhiraj Mohan (*b* 1942), PhD, Sp: Precambrian Sedimentology, Sedimentary Geochemistry; INSA Honorary Scientist, formerly Professor, Department of Geology, Chattrra Marg, University of Delhi, Delhi; *25, Uttaranchal Apartments, Plot 5, IP Extension, Patparganj, Delhi 110092* [Tel (011) 2272-3938 (R), 98-186-64238 (M); Email dhirajmohanbanerjee@gmail.com]; **SC: IV.**





1995 : BANERJEE, Dipankar (b 1952), BTech, PhD, Sp: Physical Metallurgy; FASc, FNASc, FNAE, Honorary Professor, *Department of Materials Engineering, Indian Institute of Science, Bengaluru 560012* [Tel (080) 2293-2558 (O), 81-977-74747 (M); Fax 2360-0467; Email dbanerjee@iisc.ac.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_banerjee20@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, FNAE, FTWAS, FIEEE, Professor, *Department of Physical Sciences, Indian Institute of Science Education & Research (IISER), 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, INSA Senior Scientist, 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, INSA Senior Scientist, JC Bose National Fellow, *Molecular Biophysics Unit, Indian Institute of Science, Bengaluru 560 012; 103, 1st Main Road, AECS Layout, Sanjay Nagar, Bengaluru 560094* [Tel (080) 2293-2534 (O), 98-452-37560 (M); Fax 2360-0535, 2360-0683; Email mb@iisc.ac.in; Web <http://www.nucleix.mbu.iisc.ac.in/index.htm>]; **Medal:** INSA Young Scientists (1979); **Council:** Mem 2019-; **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, CSIR Emeritus Scientist, NASI Honorary 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]; INSA Senior Scientist (2012-17); **SC: VII.**



1998 : BARMA, Mustansir (*b* 1950), PhD, Sp: Statistical Physics; FASc, FNAsc, FTWAS, Professor Emeritus and former Director, *Tata Institute of Fundamental Research, TIFR Centre for Interdisciplinary Sciences, 21, Brundavan Colony, Osmansagar Road, CIT Post, Hyderabad 500075* [Tel (040) 2419-5004 (O), 6776-8504 (R); Fax 2419-5041; Email barma@tifrh.res.in; Web tifrh.res.in/tcis/faculty/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, FNAsc, JC Bose National Fellow, formerly Dean (Faculty), Professor, *Department of Chemistry, Head, School of Bioscience, 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 : BASAVAIHAH, Deevi (*b* 1950), PhD, Sp: Organic Chemistry: Baylis-Hillman Chemistry and Chiral Catalysis; FASc, Professor, *School of Chemistry, University of Hyderabad, Hyderabad 500046*; Villa # 34, Majeera Purple Town, Gopanally, Hyderabad 500046 [Tel (040) 2313-4812 (O), 99-490-93977 (M); Fax 2301-2460; Email basavaiahchem@uohyd.ac.in, basavaiahdeevi@gmail.com; Web <http://www.uohyd.ernet.in>]; **Medal:** Professor TR Seshadri 70th Birthday Commomeration (2009); **SC: III.**



1992 : BASKARAN, Ganapathy (*b* 1948), PhD, Sp: Condensed Matter Physics, Statistical Mechanics and Theoretical Biology; FASc, SERB Distinguished Fellow, *The Institute of Mathematical Sciences, Chennai 600113*; Distinguished Research Chair, Perimeter Institute for Theoretical Physics, Waterloo, Ontario, Canada; 19, Kaveri Nagar, Kottivakkam Kuppam 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.**





2017 : BASU, Anirban (*b* 1968), PhD, Sp: Neurobiology, Neurovirology and Molecular Medicine; FASc, FNASc, Scientist VI, *National Brain Research Centre, Manesar 122051, Haryana*; 202 B, NBRC Campus, National Brain Research Centre, Manesar 122051 [Tel (0124) 284-5225 (O), 98-186-22540 (M); Email anirban.nbrc@gmail.com]; **SC: XI.**



2009 : BASU, Joyoti (*b* 1957), PhD, Sp: Molecular and Cellular Biology with Special Reference to Mycobacteria; FASc, FNASc, JC Bose National Fellow, *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; *FD 426, Sector 3, Bidhannagar, Kolkata 700106* [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.**



2018 : BERA, Jitendra Kumar (*b* 1968), PhD, Sp: Inorganic Chemistry; FNASc, FASc, Professor, *Department of Chemistry, Indian Institute of Technology Kanpur, Kanpur 208016*; House No. 4066, Indian Institute of Technology Kanpur, Kanpur 208016 [Tel (0512) 259-7336 (O), 259-8450 (R), 99-563-90490 (M); Fax 259-6806; Email jbera@iitk.ac.in]; **SC: III.**



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, TIFR, Bellary Road, Bengaluru 560065*; 41, Shobha Emerald, Jakkur, Bengaluru 560064 [Tel (080) 2366-6130 (O), 94-828-45028 (M); Fax 2363-6662; Email bhalla@ncbs.res.in; Web <https://www.ncbs.res.in/bhalla>]; **Council:** Mem 2016-18; **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 mkbhan@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, Science & Spirituality Research Institute, 804, Yash Aqua, Vijay Char Rasta, Navrangpura, Ahmedabad 380009; *2 Nilima Flats, Nilima Park Society, Navrangpura, Ahmedabad 380009* [Tel (079) 4897-7890 (O) 2791-2332 (R), 98-240-77890 (M); Email nmbhandari@yahoo.com; Web <http://nbhandari.com>]; INSA Honorary Scientist (2007-15); **SC: IV.**



2010 : BHARDWAJ, Anil (b 1967), PhD, Sp: Planetary and Space Science; FASc, FNAsc, Director, *Physical Research Laboratory, Navrangpura, Ahmedabad 380009*; PRL Director's Banglow, Near Physical Research Laboratory, Navrangpura, Ahmedabad 380009 [Tel (079) 2631-4855/4854, 2631-4241 (O), 2630-1527 (R), 99-471-49290 (M); Fax 2630-0374; Email abhardwaj@prl.res.in, bhardwaj_spl@yahoo.com; Web <https://www.prl.res.in/~abhardwaj>]; **Medal:** INSA-Vainu Bappu Memorial (2016); **SC: IV.**



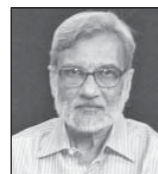
2009 : BHARADWAJ, Parimal Kanti (b 1951), PhD, Sp: Supramolecular Chemistry; FASc, Professor, *Department of Chemistry, Indian Institute of Technology, Kanpur 208016*; House No 409, IIT K Campus, Kanpur 208016 [Tel (0512) 259-7340, 259-7034 (O), 259-8324 (R); Fax 259-7436, 259-0007; Email pkb@iitk.ac.in]; **SC: III.**



2019: BHARGAVA, Balram (b 1961), MBBS, MD, DM, Sp: Medicine (Cardiology) and Medtech Innovation; FASc, FNAsc, FAMS; Director General, *Indian Council of Medical Research, Ansari Nagar, New Delhi 110029*; 431, Asiad Village, New Delhi 110049 [Tel (011) 4175-0574 (O), 98-111-32407 (M); Fax 2658-8663; Email balrambhargava@yahoo.com]; **SC: XI.**



2014 : BHARGAVA, Om Narain (b 1938), PhD, Sp: Stratigraphy and Structure with Special Reference to the Himalaya; INSA Honorary Scientist, Honorary Professor, Geology Department, Panjab University, 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 Rajarama (b 1966), PhD, Sp: Mathematics; FASc, Professor, *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, bvrajamabhat@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 (2015-16), NASI Senior Scientist Platinum Jubilee Fellow, *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@iisc.ac.in, svbhat1@gmail.com]; INSA Senior Scientist (2010-11, 2015-16); **SC: II.**



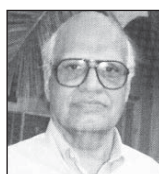
1988 : BHATIA, Chittranjan (b 1936), PhD, Sp: Genetics, Plant Breeding, Agriculture, Biotechnology; FASc, FNASc, FNAAS, FTWAS, formerly Secretary to the Govt. of India, Department of Biotechnology; *17, Robini, Plot No. 29-30, Sector 9-A Vasbi, Navi Mumbai 400703* [Tel (022) 2765-5178 (R), 98-205-02810 (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 SJS Sansanmal 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), PC Mahalanobis (2017); **Council:** Mem 2018-; **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, INSA Senior Scientist, *School of Physics, University of Hyderabad, Hyderabad 500046*; formerly Vice-Chancellor, Pondicherry University, formerly Dean, School of Physics & VC (officiating), University of Hyderabad [Tel (040) 2313-4402 (O), 99-490-43356 (M); Fax 2301-0227; Email anilb42@gmail.com, akbsp@outlook.com]; **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, Vice-Chancellor, *Banaras Hindu University, Varanasi* and Professor, *School of Biotechnology, Jawaharlal Nehru University, Room No.-102, New Delhi 110067*; Flat No. 301, Yamuna Appartment, Vasant Kunj, New Delhi 110070 [Tel (011) 2670-4079 (O), 99-711-52004 (M); Email rakeshbhatnagar@jnu.ac.in, rakeshbhatnagar@mail.jnu.ac.in, prof.rakeshbhatnagar@gmail.com]; **SC: IX.**

2018 : BHATNAGAR, Shalabh (b 1968), PhD, Sp: Stochastic Approximation Algorithms, Optimization via Simulation, Stochastic Control; FNAE, FIETE, Professor, *Department of Computer Science & Automation, Indian Institute of Science, Bengaluru 560012*; Flat No. 9, Sri Guru Manor Apartments, 2nd Cross, 1st Main Road, A/J Lyt, Sanjay Nagar, Bengaluru 560094 [Tel (080) 2293-2987, 2293-2368 (O), 2351-8822 (R), 98-867-62402 (M); Fax 2360-2911; Email shalabh@iisc.ac.in; Web <http://www.csa.iisc.ernet.in/~shalabh/>]; **SC: V.**



2018 : BHATNAGAR, Shinjini (b 1960), MBBS, PhD, Sp: Health Sciences; FNASc, Dean Clinical Research/Scientist H+, *Translational Health Science and Technology Institute, NCR Biotech Science Cluster, 3rd Milestone, Faridabad-Gurgaon Expressway, Post Box#04, Faridabad 121001*; House No. C1/4, Ansari Nagar, AIIMS Eastern Campus, New Delhi 110029 [Tel (0129) 287-6351 (O), (011) 2658-9981 (R), 98-990-14416 (M); Email shinjini.bhatnagar@thsti.res.in, shinjini.bhatnagar@gmail.com]; **SC: XI.**



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 <https://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, abbhat55@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 Endo-crinology and Molecular Signaling; FASc, FNASc, INSA Distinguished 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, Director, *Indian Association for the Cultivation of Science, Jadavpur, Kolkata 700032* [Tel (033) 2473-4688, 2473-4971 Ext 2101 (O); Fax 2483-6561, 2473-2805; Email director@iacs.res.in]; **Lecture:** Dr Nitya Anand Endowment (2007); **SC: III.**



2014 : BHATTACHARYA, Sudha (b 1952), PhD, Sp: Molecular Biology, Molecular Parasitology; FASc, FNASc, JC Bose National Fellow, formerly 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]; **Lecture:** KS Krishnan Memorial (2016); **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 abhattacharya@yahoo.com]; **SC: V.**



2009 : BHATTACHARYYA, Archana (b 1948), PhD, Sp: Ionospheric Physics and Geomagnetism; FASc, FNASc, INSA Senior Scientist, *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@mail.jcbose.ac.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); FASc, FNASc, JC Bose National Fellow; 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 2337-4637; 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, Visiting Professor, *Department of Chemistry, Indian Institute of Science Education & Research (IISER) Bhopal, Bhopal Bypass Road, Bhauri, Bhopal 462066; Flat 3B2/Bay, Hiland Park, Kolkata 700094* [Tel (033) 2436-4457, 2462-5248 (R), 94-330-71155 (M); Email kankan@iiserb.ac.in, kankan.bhattacharyya@gmail.com]; **Medal:** Golden Jubilee Commemoration (Chem Sc) (2010); **Lecture:** Professor Sadhan Basu Memorial (2011); **Council:** Mem 2007-09, Ad Mem 2012-13, VP 2016-18; **SC: III.**



2001 : BHATWADEKAR, Shrikant Mahadeo (b 1946), PhD, Sp: Commutative Algebra and Algebraic Geometry; FASc, INSA Senior Scientist and Visiting Professor, Bhaskaracharya Pratishthan (Institute of Mathematics); formerly Senior Professor, TIFR, Mumbai; *56/14, Erandavane, Damle Path, Pune 411004* [Tel (020) 2542-8723 (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, Paramanu 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 Lakshminarayana 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.**



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, Mabim, 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, formerly Senior Professor, Tata Institute of Fundamental Research, Mumbai and Raja Ramanna Fellow, Indian Institute of Science, Bengaluru; *Flat No. 256, Jal Vayu Towers, Benniganahalli, Bengaluru 560038* [Tel 88-616-96296 (M); Email usha@math.tifr.res.in, usnabh07@gmail.com]; **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*; Former Director, IIT Patna [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.**



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, Senior Professor (I), *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, *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@iisc.ac.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 2015-17; **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.in, brahmacharisk@gmail.com]; **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 Quantum Materials (Superconductivity and Magnetism in Low Dimensional Systems); FASc, FNASc, Professor, *Department of Physics, 119 Calloway Hall, Morgan State University, 1700 E Cold Spring Lane, Baltimore MD 21251* [Tel 443-885-1017 (O); Email ramesh.budhani@morgan.edu, rcb@iitk.ac.in]; **SC: II.**



2004 : BUJURKE, Nagendrappa Masanappa (b 1944) PhD, Sp: Applied Mathematics, Fluid Mechanics, Computational Techniques, Krylov Subspace Methods, Wavelets, Physiological Fluid Flows; FNASc, INSA Honorary Scientist, PG Department of Mathematics, Karnatak 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) 2613-0311 (R); Email bimlabuti@gmail.com, butib@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), Gurugram 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, Gandbigram Road, Jubu, 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, Belehghata, 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, 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); **Council:** Mem 2017-; **SC: V.**



2006 : CHAKRABARTI, Pinakpani (b 1955), PhD, Sp: Molecular Biophysics, X-ray Crystallography and Structural Biology, Bioinformatics; FASc, FNASc, FTWAS, JC Bose National Fellow, *Department of Biochemistry and Bioinformatics Centre, Bose Institute, P-1/12 CIT Scheme VII M, Kolkata 700054*; A2 Srobona, Neelachal Abasan, 98 Rajdanga Gold Park (N), Kolkata 700107 [Tel (033) 2659-3238 (O), 98-307-51009 (M); Fax 2355-3886; Email pinak@jcbose.ac.in, pinak.chak@gmail.com; Web <http://www.jcbose.ac.in/faculty-details/pinakpani-chakrabarti>]; **Medal:** JC Bose (2016); **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, Erudite Professor, Calcutta School of Tropical Medicine, Kolkata; formerly Scientist G and Director-in-charge, National Institute of Cholera & Enteric Diseases; Flat No B-005, VIP Enclave-II, VIP Road, Baguibati, Kolkata 700059 [Tel 98-315-04066 (M); Email sekharchakrabarti61@gmail.com]; **SC: XI.**



2019: CHAKRABARTI, Soumen (b 1969), PhD, Sp: Computer Science, Text and Web Search, Social Networks; FASc, FNAE, Professor, *SLA204 Computer Science, Indian Institute of Technology Bombay, Powai, Mumbai 400076* [Tel (022) 2576-7716 (O); Fax 2572-0022; Email soumen@cse.iitb.ac.in]; **SC: V.**

2016 : CHAKRABORTI, Asit Kumar (b 1954), PhD, Sp: Organic Chemistry; FASc, FRSC, Professor and Head, *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, Professor, *Department of Biotechnology, School of Chemical and Life Sciences, Jamia Hamdard, Hamdard Nagar, New Delhi 110062*; former Chief Scientist, CSIR-Institute of Microbial Technology, Chandigarh; House No. 1005, Sector 39B, Chandigarh 160036 [Tel (011) 2605-9668 Ext 5583 (O), (0172) 269-5488, 500-3975 (R), 98-158-63975 (M); Fax 269-0585; Email pkchakraborti@jamiahamdard.ac.in, pradipkchakraborti@gmail.com]; **SC: XI.**



2016 : CHAKRABORTY, Niranjana (b 1958), PhD, Sp: Plant Molecular Biology, Plant Proteomics; FNASc, FNAAS, Professor-of-Eminence, *National Institute of Plant Genome Research, Jawaharlal Nehru University Campus, Aruna Asaf Ali Marg, New Delhi 110067*; C9/9428, Vasant Kunj, New Delhi 110070 [Tel (011) 2673-5178 (O), 2613-9428 (R), 98-732-08264 (M); Fax 2674-1658; Email nchakraborty@hotmail.com, nchakraborty@nipgr.ac.in]; **SC: VII.**



2017 : CHAKRABORTY, Suman (b 1973), PhD, Sp: Microfluidics, Nanofluidics and Microscale/Nanoscale Transport Processes; FASc, FNASc, FNAE, Professor, *Department of Mechanical Engineering, Indian Institute of Technology Kharagpur, Kharagpur 721302*; 28/9, Station Road, PO Dhakuria, Kolkata 700031 [Tel (03222) 282-990 (O), 98-314-02939 (M); Fax 282-278; Email suman@mech.iitkgp.ac.in]; **Medal:** INSA Young Scientist (2003); AK Bose Memorial (2007); **SC: V.**



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@iisc.ac.in, tusharkantichakraborty@gmail.com]; **SC: III.**



2006 : CHAKRAVARTY, Akhil Ranjan (b 1953), PhD, Sp: Bioinorganic and Medicinal Inorganic Chemistry; FASc, FTWAS, Honorary Professor, *Department of Inorganic and Physical Chemistry, Indian Institute of Science, Bengaluru 560012*; No. 551, MANOBELA, 4th Cross, Tata Nagar, Kodigehalli, Bengaluru 560092 [Tel (080) 2293-2533 (O), 2351-5407 (R), 94-482-75407 (M); Fax 2360-1552, 2360-0683; Email arc@iisc.ac.in, akhil_chakravarty@yahoo.co.in, akhilchakravarty@gmail.com; Web <http://ipc.iisc.ac.in/arc/>]; **SC: III.**

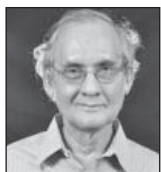




2017 : CHAKRAVORTY, Dipshikha (b 1968), PhD, Sp: Microbiology, Infectious Diseases; FNASc, Professor, *Department of Microbiology and Cell Biology, Indian Institute of Science, CV Raman Avenue, Bengaluru 560012; IISc Campus, IISc, Bengaluru 560012* [Tel (080) 2293-2842 (O), 2360-6657 (R), 99-027-89453 (M); Fax 2360-2697; Email dipa@iisc.ac.in]; **SC: IX.**



1979 : CHAKRAVORTY, Animesh (b 1935), PhD, DSc (*hc*), Sp: Inorganic & Structural Chemistry, History of Chemistry; FASc, FTWAS, *Flat 8/3, 6 Sunny Park, Kolkata 700019* [Tel (033) 2485-8327 (R), 94-338-01715 (M); Email animeshc31@gmail.com, icac@iacs.res.in]; **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 Emeritus 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), INSA Honorary Scientist (2007-15); **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, *Centre for Human Genetics, Biotech Park, Electronic City, Phase I, Bengaluru 560100; 192, 24th B Cross, 8th Main, 3rd Block, Jayanagar, Bengaluru 560011* [Tel (080) 2852-1831, 2852-1833 (O), 2663-9353 (R); Fax 2852-1832; Email sharat@iisc.ac.in, sharat@chg.res.in]; **Lecture:** JL Nehru Birth Centenary (1990); **Council:** Mem 1993-95; **SC: X.**



1997 : CHANDRAKUMAR, Narayanan (b 1951), PhD, Sp: Magnetic Resonance Spectroscopy & Imaging, Chemical Physics, Physical Chemistry, Instrumentation; FASc, Professor Emeritus, *MRI-MRS Centre and Department of Chemistry, Indian Institute of Technology, Chennai 600036; formerly Director-Grade-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 nckumar@iitm.ac.in, chandrakumar.iitm@gmail.com; Web <http://chem.iitm.ac.in>]; **Lecture:** Professor RK Asundi Memorial (2002), Professor KR Rao Memorial (2004); **Council:** Mem 2004-06; **SC: III.**

1992 : CHANDRASEKARAN, Srinivasan (*b* 1945), PhD, Sp: Organic Synthesis, Organometallic Chemistry, Catalysis; FASc, FTWAS, INSA Distinguished Professor, *Department of Organic Chemistry, Indian Institute of Science, Bengaluru 560012*; 5, AECS Layout, III Stage, I Cross, 2nd Main, Nagasettiahalli, Bengaluru 560094 [Tel (080) 2293-2404, 2360-2423 (O), 2351-2748 (R), 98-860-88344 (M); Fax 2360-0683, 2360-0529; Email scn@iisc.ac.in; Web <http://www.iisc.ac.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, Drug Discovery, Theoretical Organic Chemistry; FASc, *Gilead Sciences, 199 E Blaine St, Seattle, WA 98102, USA*; 17203 NE 115th Ct, Redmond, WA 98052, USA [Tel (206) 454-7105 (O), (425) 298-0560 (R); Email jayaraman.chandrasekhar@gilead.com]; **SC: III.**



2015 : CHANDRASEKHAR, 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. 2-2-25/P/2/A, Plot No. 2, DD Colony, Hyderabad 500013 [Tel (040) 2719-3030/3210 (O), 2742-3675 (R), 98-480-35908 (M); Fax 2716-0512; Email srivari@iiict.res.in]; **Medal:** INSA Young Scientist (1996); **SC: III.**



2008 : CHANDRASEKHAR, Vadapalli (*b* 1958), PhD, Sp: Inorganic Chemistry; FASc, FNASc, FTWAS, Centre Director, *Tata Institute of Fundamental Research Hyderabad, Gopanpally, Hyderabad 500107* [Tel (040) 2020-3100/2020-3101 (O), 94-151-32221 (M); Email vc@tifrh.res.in]; **Medal:** INSA Young Scientist (1989), Golden Jubilee Commemoration (Chem Sc) (2013); **Council :** VP 2019-; **SC: III.**



2003 : CHANDRASHEKAR, Tavarekere K (*b* 1956), PhD, Sp: Inorganic Chemistry of Biomolecules; FASc, FNASc, FTWAS, Senior Professor, *School of Chemical Sciences, National Institute of Science Education and Research, Bhubaneswar, PO Jatni, Khurda 752050, Odisha* [Tel (0674) 249-4005/4003 (O), 98-188-44936 (M); Fax 249-4004; Email tkc@niser.ac.in]; **Council:** Mem 2009-11; **SC: III.**



2013 : CHAPLOT, Samrath Lal (*b* 1955), PhD, Sp: Condensed Matter Physics; FNASc, Raja Ramanna Fellow, formerly Distinguished Scientist and Director, *Physics Group, Bhabha Atomic Research Centre, Trombay, Mumbai 400085*; Flat 904, Sai Ansh CHS Ltd, Plot 7, Sector 11, Sanpada, Navi Mumbai 400705 [Tel (022) 2559-5054 (O), 2775-9768 (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, FTWAS, JC Bose National Fellow, Director, *Indian Institute of Science Education and Research Berhampur, Transit Campus, Government I.T.I., Berhampur, Engineering School Junction, NH-59, Berhampur 760010 (Ganjam), Odisha* [Tel (0680) 222-7701 (O), 99-872-60959 (M); Fax 222-7704; 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, Institute Chair Professor and Professor, *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.ac.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, Molecular Mechanisms of Cigarette Smoke-Induced Pathophysiology of different organs and its prevention, Black Tea; 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 604 (O), 2534-3917 (R), 98-304-93842 (M); Fax 2461-4849; Email ibc123@rediffmail.com, ibchatterjee123@gmail.com]; **Lecture:** BC Guha Memorial (1996); INSA Honorary Scientist (2006-15); **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, JC Bose National Fellow, Honorary Professor, *Molecular Biophysics Unit, Indian Institute of Science, Bengaluru 560012*; Honorary Professor, JNCASR, Bengaluru [Tel (080) 2360-0137, 2293-2836 (O), 2539-2055 (R), 98-454-04962 (M); Fax 2360-0535, 2360-0683; Email dipankar@iisc.ac.in]; **Lecture:** BC Guha Memorial (2002); **Council:** Mem 2002-04; **SC: X.**

2006 : CHATTOPADHYAY, Amitabha (b 1956), PhD, Sp: Membrane/Receptor Biophysics & Biology, Fluorescence Spectroscopy & Microscopy; FASc, FNASc, FRSC, INSA Senior Scientist, JC Bose National Fellow, *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; Swinburne University of Technology, Hawthorn (Victoria), Australia; 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.**



2018 : CHATTOPADHYAY, Debasis (b 1967), PhD, Sp: Plant Biology, Plant Genomics; FNASc, FASc, Staff Scientist VII, *National Institute of Plant Genome Research, Aruna Asaf Ali Marg, New Delhi 110067*; H-VB(D1)-001, National Institute of Plant Genome Research, Aruna Asaf Ali Marg, New Delhi 110067 [Tel (011) 2673-5189 (O), 2673-5148 (R), 98-682-40645 (M); Fax 2674-1658; Email debasis@nipgr.ac.in]; **SC: VII.**



1996 : CHATTOPADHYAY, Kamanio (b 1950), BE, MSc (Engg), PhD, Sp: Physical Metallurgy and Materials Engineering; FASc, FNASc, FNAE, Honorary Professor, *Department of Materials Engineering and Interdisciplinary Centre for Energy Research, 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) 2293-3521/22, 2293-2262 (O), 98-459-49940 (M); Fax 2360-0472; Email kamanio@iisc.ac.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 94-347-88029 (M); Email sudipchatto@gmail.com, sudip.chattopadhyay@bt.nitdgp.ac.in; Web http://www.nitdgp.ac.in/bt/s_chattopadhyay/s_chattopadhyay.php]; **SC: VII.**





1989 : CHATTORAJ, Dipti Kumar (*b* 1930), PhD, DSc, Sp: Surface Chemistry, Biophysical Chemistry; INSA Emeritus 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), INSA Honorary Scientist (2001-04) (2006-15); **SC: III.**



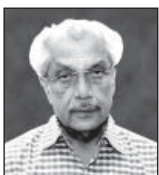
1987 : CHATURVEDI, Umesh Chandra (*b* 1939), MD, MRCPATH, FRCPath (Lond), Sp: Medical Microbiology, Virology, Immunology; FASc, FNASc, FAMS, formerly Professor and Head, Department of Microbiology, KG Medical College, Lucknow; Scientific Consultant, ICMR, Department of Health Research; Chairman, Bharat Immunologicals and Biologicals Corp Ltd; CSIR Emeritus Scientist, ITRC, Lucknow; *201, Annapurna Apts, 1, Bishop Rokeya Street, Faizabad Road, Lucknow 226007* [Tel (0522) 402-6202 (R), 94-509-13506 (M); Email uchaturvedi201@gmail.com]; **Lecture:** Dr TS Tirumurti Memorial (2007); INSA Honorary Scientist (2008); **SC: XI.**



2005 : CHAUDHARI, Raghunath Vitthal (*b* 1948), PhD, Sp: Homogeneous & Heterogeneous Catalysis, Reaction Engineering, Multiphase Reactors, Biomass Conversion to Chemicals and Fuels; FASc, FNAE, 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 (*b* 1950), PhD, Sp: Computer Science and Engineering; FNASc, FNAE, FIEEE, FTWAS, INAE Distinguished Professor, *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 (*b* 1947), PhD, Dr rer nat, DSc (*hc*), Sp: Inorganic Chemistry; FASc, Advisor, Education [MoS], Govt. of Assam, *Janata Bhawan, Room No. B 118, Dispur, Guwahati 781006* [Telefax (0361) 223-7241, 99-544-49454 (M); Email mkc@tezu.ernet.in]; **Council:** VP 2013-15; **SC: III.**



2009 : CHAUDHURI, Probal (*b* 1963), PhD, Sp: Statistics; FASc, 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, Image Processing, Machine Learning and Haptics; FASc, FNASc, FNAE, FIEEE, KN Bajaj Chair Professor, *Department of Electrical Engineering, Indian Institute of Technology Bombay, Powai, Mumbai 400076*; Qtr No B-130, IIT Bombay, Powai, Mumbai 400076 [Tel (022) 2576-7437 (O), 2576-8437 (R), 98-206-05354 (M); Fax 2572-3707; Email sc@ee.iitb.ac.in]; **Council:** Mem 2016-18; **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), 98-112-92058 (M); Fax 2674-2316; Email virander@icgeb.res.in, viranderschauhan@gmail.com; Web <http://www.icgeb.org>]; **Lecture:** JL Nehru Birth Centenary (2006); **Council:** Mem 2015-17; **SC: X.**



2019 : CHENGALUR, Jayaram Narayanan (b 1965), PhD, Sp: Astronomy; FASc, FNASc, Senior Professor, *NCRA-TIFR, Pune University Campus, Ganeshkhind, Pune 411007*; E3, NCRA Housing Colony, Pune University Campus, Ganeshkhind, Pune 411007 [Tel (020) 2571-9248 (O), 83-900-04429 (M); Fax 2569-7257; Email chengalur@ncra.tifr.res.in]; **SC: II.**



2014 : CHHABRA, Rajendra Prasad (b 1953), PhD, Sp: Chemical Engineering; FASc, FNASc, FNAE, JC Bose National Fellow, Professor, *Department of Chemical Engineering, Indian Institute of Technology, Ropar 140001*; Quarter # 3, Transit Campus-I, IIT Ropar, Nangal Road, Rup Nagar 140001 [Tel (01881) 242-212 (O), 98-397-41317 (M); Email chhabra@iitrpr.ac.in]; **SC: V.**



1978 : CHIDAMBARAM, Rajagopala (b 1936), PhD, DSc (IISc), DSc (*bc*), 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*; 405/406 Apollo, Raheja Acropolis I, Mahalaxmi Temple Road, Deonar, Mumbai 400088 [Tel (022) 2550-5305 (O), 2556-1315 (R); Fax (022) 2550-5132; 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*; 12 Rue Raffet, Paris 75016 [Tel (+33) (1) 4438-9428 (O), 4288-6350 (R), (+33) 7 87 85 6133 (M); Email chetan.chitnis@pasteur.fr]; **SC: IX.**





1988 : CHITRE, Shashikumar Madhusudan (*b* 1936), PhD, Sp: Theoretical Astrophysics; Distinguished Professor, UM-DAE Centre for Excellence in Basic Sciences, University of Mumbai, Kalina Campus, Santa Cruz (E), Mumbai 400098; 201, *Vigyanshila Co-operative Housing Society, Jubu-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); INSA Honorary Scientist (2007-15); **Council:** Mem 1997-99; **SC: II.**



2013 : CHOCKALINGAM, Ananthanarayanan (*b* 1962), PhD, Sp: Electrical Engineering (Communications); FASc, FNASc, FNAE, FIETE, Professor, *Department of Electrical Communication Engineering, Indian Institute of Science, Bengaluru 560012*; 29 AECS, 2nd Stage Layout, 2nd Main, Nagasettiahalli, Bengaluru 560094 [Tel (080) 2293-3156 (O), 89-714-74971 (M); Fax 2360-0563; Email achockal@iisc.ac.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; FASc, FNASc, FNAE, 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@iisc.ac.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, Distinguished Honorary Professor, IIT Delhi, IIT KGP, IIT Bhub, IEST Mentor NCU, NITP, SIR IIT Jodhpur; 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 : CHOUDARY, Boyapati Manoranjan (*b* 1946), PhD, Sp: Catalysts, Nano-Materials and Pharmaceuticals; FASc, Consultant for Chemical and Pharmaceutical Solutions, *Plot no. 154, New MLA & MPs' Colony, Road No. 10C, Jubilee Hills, Hyderabad 500033* [Tel 91-009-91400 (M); Email bmchoudary@gmail.com]; **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 92-251-06141 (M); Email vrc0001@yahoo.co.in]; **SC: V.**



2011 : CHOUDHURI, Arnab Rai (b 1956), PhD, Sp: Theoretical Astrophysics, Solar Physics, Magnetohydrodynamics, History of Science; FASc, FNASc, FTWAS, 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, FNASc, 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, Debashish (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.**



1986 : COWSIK, Ramanath (b 1940), PhD, Sp: Astrophysics, Elementary Particles, Cosmology and Gravitation; FASc, FNASc, FTWAS, Foreign Assoc US NAS, James S. McDonnell Professor of Space Sciences, Physics Department 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 (ret'd), TIFR [Tel (001-314) 935-4493 (O), 727-5959 (R); Fax (001-314) 935-4134; Email cowsik@physics.wustl.edu]; **Medal:** INSA-Vainu Bappu Memorial (1997); **Lecture:** J.L. Nehru Birth Centenary (2002); **Council:** Mem 1994-96; **SC: II.**





2018 : DAMLE, Kedar (*b* 1970), PhD, Sp: Condensed Matter and Statistical Physics; FASc, Professor, *A314 Tata Institute of Fundamental Research, 1, Homi Bhabha Road, Colaba, Mumbai 400005*; C145, IIT Bombay, Powai, Mumbai 400005 [Tel (022) 2278-2213 (O); Fax 2278-4611; Email kedkar@theory.tifr.res.in]; **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, *Centre for Excellence in Basic Sciences, University of Mumbai, Kalina, Mumbai 400098* [Tel (022) 2653-2138 (O), 97-572-82263 (M); Email shrigodani@cbs.ac.in, shrigodani@gmail.com]; **Medal:** INSA Young Scientist (1976), Srinivasa Ramanujan (2010); **Council:** Mem 2006-08; **SC: I.**



2019 : DAS, Amita (*b* 1965), PhD, Sp: Physics; FASc, FNASc, Professor, *Department of Physics, Indian Institute of Technology Delhi, Hauz Khas, New Delhi 110016* [Tel 98-795-65174 (M); Email amitadas3@yahoo.com]; **SC: II.**



2017 : DAS, Amitava (*b* 1959), PhD, Sp: Chemistry; FASc, FNASc, FRSC, JC Bose National Fellow, Director, *CSIR-Central Salt & Marine Chemicals Research Institute, G.B. Marg, Bhavnagar 364002*; Director's Bungalow, Hill Drive, Bhavnagar 364002 [Tel (0278) 256-9496 (O), 256-2610 (R), 82-752-25356, 94-280-51283 (M); Fax 256-7562; Email a.das@csmcri.res.in, das.amitava1@gmail.com]; **SC: III.**



2005 : DAS, Bhudev Chandra (*b* 1948), PhD, Sp: Molecular Oncology, 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)* and Dean, *Health & Allied Sciences, 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.**



1991 : DAS, Hirendra Kumar (*b* 1933), MSc Tech, PhD, DSc, Sp: Biochemistry, Molecular Biology & Recombinant DNA Technology; INSA Emeritus Scientist, 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]; INSA Honorary Scientist (2010-15); **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, Jadarpur, Kolkata 700032* and Adjunct Professor, *Department of Biophysics, Molecular Biology and Bioinformatics, Calcutta University, Kolkata 700009*; 35 Justice Chandra Madhab Road, Kolkata 700020 [Tel (033) 2414-0921 (O), 2476-9216, 2486-1729 (R); Email pijush52@gmail.com, pijushdas@iicb.res.in]; **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, FAMS, JC Bose National Fellow and 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]; **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, profpdas@sftrrd.org, sftrrd@gmail.com; Web www.profpredmanandadas.in, www.sftrrd.org]; **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@jcbosc.ac.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@iisc.ac.in]; **Lecture:** Dr MR Das Memorial (2011); **SC: X.**



2017 : DAS, Shankar Prasad (b 1959), PhD, Sp: Theoretical Condensed Matter Physics; FASc, JC Bose National Fellow, Professor of Physics, *School of Physical Sciences, Jawaharlal Nehru University, New Delhi 110067*; 6229, Sector B, Pocket 9, Vasant Kunj, New Delhi 110070 [Tel (011) 2673-8768 (O), 2612-1583 (R), 98-996-74943 (M); Fax 2674-2580; Email shankar@jnu.ac.in]; **SC: II.**





2011 : DAS, Suresh (*b* 1955), PhD, Sp: Photochemistry, Photophysics, Liquid Crystals, Organic Functional Materials, Photoresponsive Materials, NIR Absorbing Dyes, Dye Sensitized Solar Cells; FASc, *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, *EE-72/2, Salt Lake, Kolkata 700091* [Tel 90-078-89857 (M); Email chanchaldg2000@yahoo.com]; INSA Senior Scientist (2013-16); **Council:** Ad Mem 2005-13; **SC: X.**



2000 : DASGUPTA, Chandan (*b* 1951), PhD, Sp: Theoretical Condensed Matter Physics and Statistical Mechanics; FASc, FNASc, FTWAS, Honorary 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@iisc.ac.in]; **Medal:** SN Bose (2018); **SC: II.**



2014 : DASGUPTA, Indranil (*b* 1958), PhD, Sp: Plant Viruses and Plant-Virus Interactions; FASc, FNASc, JC Bose National Fellow, 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 110077 [Tel (011) 2411-1639, 2411-6113 (O), 4277-8520 (R), 99-103-34110 (M); Fax 2411-5270; Email indranil58@yahoo.co.in]; **SC: VII.**



2019: DASGUPTA, Maitrayee (*b* 1959), PhD, Sp: Symbiotic Nitrogen Fixation; FNASc, FASc, Professor, *Department of Biochemistry, Calcutta University, Ballygunge Science College, 35 Ballygunge Circular Road, Kolkata 700019*; Tower 3, 10/2, Ruchira Residency, 369 Purbachal, Kalitala Main Road, Kolkata 700078 [Tel (033) 2461-4714 (O), 2484-3966 (R), 98-307-76131 (M); Fax 2461-4849; Email maitrayee_d@hotmail.com]; **SC: VII.**

1999 : DASGUPTA, Somnath (b 1951) PhD, Sp: Metamorphic Petrology, Geochemistry, Precambrian Geology; FASc, FNASc, FTWAS, Visiting Professor, *Department of Earth Sciences, Indian Institute of Science Education & Research Kolkata, Mohanpur 741246*; Westwind Block 4, Flat 3B, 78, Raja S.C. Mullick Road, Kolkata 700084 [Tel (033) 2423-8057 (R), 98-311-67145 (M); Email somnathdasg@gmail.com]; **Medal:** DN Wadia (2018); **Award:** INSA Teachers Award (2014); **Council:** Mem 2009-11; **SC: IV.**



2013 : DASH, Debabrata (b 1958), MBBS, MD, PhD, DSc, Sp: Biochemistry, Thrombus/Platelet Biology, Translational Nanomedicine; FASc, FAMS, JC Bose National Fellow, Tata Innovation Fellow, 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, 96-709-57414 (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, *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), 98-360-12725 (M); Email mail_alokd@yahoo.co.in]; INSA Senior Scientist (2012-15); **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, Shankar Chowk, Gurugram 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, Gurugram 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; FASc, FNASc, FNAAS, FTWAS, Former Vice Chancellor, *Visva-Bharati University, Santiniketan 731235*; Rashbehari Ghosh Chair Professor, Botany Department, University of Calcutta; *Udita-02-0302, 1050/1 Survey Park, Kolkata 700075* [Tel 87-686-44777 (M); Email swpndatta@yahoo.com]; **Lecture:** Professor Panchanan Maheshwari Memorial (2006); **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 jmunshi@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, FNASc, FTWAS, INSA Senior Scientist, formerly Vice-Chancellor, Visva-Bharati, Santiniketan; formerly Professor & Director, IISER, Kolkata; formerly Director, SN Bose Centre, Kolkata and formerly Honorary Professor, JNCASR, Bengaluru; *"Heights 6", Flat 2, Uniworl City, New Town, Kolkata 700156* [Tel 94-330-13858, 98-318-42858 (M); Email 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 Honorary Scientist, 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); INSA Senior Scientist (2013-17); **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]; **Lecture:** Sir JC Bose Memorial (2016); **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, FIEEEE, Distinguished Fellow IDRBT (RBI-Govt. of India) Hyderabad; formerly Distinguished Scientist & Director, NRSA, Hyderabad; Director, CSSTEAP (UN), Dehradun; *10-3-123/3, East Maredpally, Secunderabad 500026, Telangana* [Tel (040) 2773-2423 (R), 99-084-99081 (M); Email deekshatulu@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 Honorary Scientist, President, Moving Academy of Medicine and Biomedicine, Pune 411052; Honorary Visiting Professor, School of Health Sciences, University of Poona, Pune; formerly Director, Cancer Research Institute, Mumbai; *C-13, Kubera Gulshan Apartments, DP Road, Aundh, Pune 411007* [Tel (020) 2729-5354 (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, Kandi, Sangareddy 502285, Telangana* [Tel (040) 2301-6002; Fax 2301-6003; Email ubdesai@iith.ac.in, director@iith.ac.in]; **Council:** Ad Mem 2017; **SC: V.**



2001 : DESIRAJU, Gautam Radhakrishna (*b* 1952), PhD, Sp: Crystal Engineering; FASc, FNASc, FTWAS, Honorary Professor, *Solid State and Structural Chemistry Unit, Indian Institute of Science, Bengaluru 560012*; [Tel (080) 2293-3311 (O); Email gdesiraju@iisc.ac.in]; **Council:** Mem 2006-08; **SC: III.**



2001 : DEY, Alope (*b* 1945), PhD, Sp: Statistics; FNASc, formerly Professor, Indian Statistical Institute, New Delhi; *B-17/S-1, Dilshad Garden, Delhi 110095* [Tel (011) 2257-4022 (R); 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, Visiting Scientist, Diabetes Research Foundation, Madras; Adjunct Faculty, Institute of Life Sciences, Hyderabad; 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 www.iitd.ac.in]; **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, 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.**



2018 : DEY, Subhasish (b 1958), PhD, Sp: Applied Hydrodynamics, Turbulence, Fluvial Hydrodynamics; FASc, FNASc, FNAE, JC Bose National Fellow, Professor, *Department of Civil Engineering, Indian Institute of Technology Kharagpur, Kharagpur 721302*; Quarters No. A 159 (G+7 type), Indian Institute of Technology Kharagpur, Kharagpur 721302 [Tel (03222) 283-418 (O), 283-419 (R), 94-347-13850 (M); Fax 282-254; Email sdey@iitkgp.ac.in; Web <http://www.iitkgp.ac.in/department/CE/faculty/ce-sdey/>]; **SC: V.**



1995 : DHAR, Deepak (b 1951), PhD (CIT, USA), Sp: Statistical Physics; FASc, FNASc, FTWAS, Distinguished Visiting Professor, *Department of Physics, Indian Institute of Science Education and Research, Dr. Homi Bhabha Road, Pashan, Pune 411008*; A904, Faculty Apartments, IISER, Dr. Homi Bhabha Road, Pashan, Pune 411008 [Tel (020) 2590-8455 (O), 2590-8458 (R); Email deepak@iiserpune.ac.in, deepakdhar1951@gmail.com]; **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, Pashchimabad, JNU, New Delhi 110067 [Tel (011) 2674-2572, 2673-8774 (O), 2674-2476 (R), 98-100-18272 (M); Fax 2674-1781; Email skdhar@mail.jnu.ac.in, skdhar2002@yahoo.co.in]; **SC: X.**



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, JC Bose National Fellow, 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@alumni.iisc.ac.in, digherr@gmail.com]; **SC: VIII.**



2016 : DIKSHIT, Kanak Lata (b 1951), PhD, Sp: Molecular Biology, Biochemistry; FNASc, NASI Senior Scientist, Department of Biotechnology, Panjab University, Chandigarh & former Chief Scientist, CSIR-Institute of Microbial Technology, Sector 39A, Chandigarh 160036; *H No. 1524, PUSH PAC Complex, Sector 49B, Chandigarh 160047* [Tel (0172) 267-8524 (O), 99-150-07784 (M); Email kanakdikshit@pu.ac.in, kanakdixit@gmail.com]; **SC: IX.**



2013 : DIKSHIT, Madhu (b 1957), PhD, Sp: Molecular Pharmacology; FASc, FNASc, JC Bose National Fellow, THSTI National Chair, *NCR Biotech Science Cluster, 3rd Milestone, Faridabad – Gurgaon Expressway, Faridabad, Haryana 121001*; Former Director, CSIR-Central Drug Research Institute, Lucknow; C-95, Sector M, Aliganj, Lucknow 226024 [Tel (0129) 287-6448 (O), 94-151-11766 (M); Email drmadhudikshit@gmail.com, madhudikshit@yahoo.com]; **Medal:** INSA Young Scientist (1989); Professor KP Bhargava Memorial (1999); **Lecture:** Professor Darshan Ranganathan Memorial (2013); **Council:** Mem 2017-; **SC: XI.**



2005 : DILEEP KUMAR, Maripi (b 1954), PhD, Sp: Oceanography, Biogeochemistry; FASc, FNASc, Emeritus Scientist, *CSIR-National Institute of Oceanography, Regional Centre, 176, Lawsons Bay Colony, Visakhapatnam 530017* [Tel 94-044-34053 (M); Email dileep@nio.org]; **SC: IV.**



2002 : DIMRI, Vijay Prasad (b 1948), PhD, Sp: Geophysics, Inversion, Fractals and Signal Processing; FNASc, FTWAS, 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]; **Medal:** Professor K Naha Memorial (2016); INSA Senior Scientist (2013-16); **Council:** Mem 2004-06; **SC: IV.**





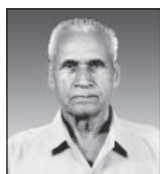
1997 : DOGRA, Sneh Kumar (b 1942), PhD, Sp: Physical Chemistry & Photochemistry; FNASc, formerly Dean Academic Affairs, IISER-Bhopal, Professor & Head, Department of Chemistry, IIT Kanpur, Kanpur 208016; B-101, Mangal Apartments, 16-Vasundhara Enclave, Delhi 110096 [Tel (011) 2262-2182 (R), 98-187-91143 (M); Email skdogra@iitk.ac.in; Web <http://www.iitk.ac.in/chm/skd.html>]; **Medal:** Professor TR Seshadri 70th Birthday Commemoration (2006); INSA Honorary Scientist (2011-15); **SC: III.**



2014 : DUBE, Anuradha (b 1955), PhD, Sp: Medical Parasitology (Leishmaniasis); formerly Chief Scientist (Scientist G), INSA Emeritus Scientist and JC Bose National Fellow, *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), 94-509-31332, 94-151-04918 (M); Fax 277-1941; Email anuradha_dube@hotmail.com, a_dube@cdri.res.in, anuradhadube@gmail.com]; INSA Senior Scientist (2016-18); **SC: VIII.**



2014 : DURGA RAO, Chilakalapudi (b 1950), PhD, Sp: Virology, Cell and Molecular Biology, Biotechnology; FNASc, INSA Senior Scientist, 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@iisc.ac.in, cdrmcb@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) 2293-3225, 2360-4536 (O), 2699-3249 (R), 98-450-10520 (M); Fax 2360-4536; Email pradip@iisc.ac.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, Formerly Professor, UGC-BSR Faculty Fellow, *Department of Animal Biology, 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), 93-910-74729, 78-930-46218 (M); Email apdgs1@uohyd.ernet.in, aparnaduttgupta@gmail.com]; **Council:** Mem 2018-; **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 Emeritus 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); INSA Honorary Scientist (2007-15); **Council:** Ad Mem 2009; **SC: V.**



1989 : EASWARAN, Kalpathy Ramaier Katchap (b 1939), PhD, Sp: Molecular Biophysics; Membrane Biophysics, Structural Biology; FASc, 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 krk_easwaran@yahoo.com, kalpathy.eswaran@gmail.com]; INSA Honorary Scientist (2010-15); **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, Foreign Honorary Member, American Academy of Arts & Sciences; Non-resident Permanent Fellow, Wissenschaftskolleg (Institute for Advanced Study) zu Berlin; Honorary Professor, *Centre for Ecological Sciences, Indian Institute of Science, Bengaluru 560012*; DST Year of Science Chair Professor; Former Chairman, Centre for Contemporary Studies, IISc, Bengaluru; Honorary Professor, JNCASR, Jakkur, Bengaluru; 3082, Cornwall, Prestige Kensington Gardens, 17, HMT Main Road, Jalahalli, Bengaluru 560013 [Tel (080) 2360-1429, 2293-2340 (O), 2308-9677 (R); Fax 2360-1428; Email ragh@iisc.ac.in; Web <http://ces.iisc.ac.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 2014-16; **SC: VIII.**



1984 : GADGIL, Madhav Dhananjaya (b 1942), PhD (Harvard), Sp: Ecology, Environment & Development; FASc, FNASc, FTWAS, Foreign Assoc US NAS, Emeritus Scientist, National Centre for Cell Science, S.P. Pune University Campus, Pune 411007; *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]; **Medal:** KR Ramanathan (2017); **SC: IV.**



1996 : GADRE, Shridhar Ramchandra (b 1950), PhD, Sp: Theoretical and Computational Chemistry; FASc, Distinguished Professor, *Interdisciplinary School of Scientific Computing, Savitribai Phule Pune University, Pune 411007* [Tel (020) 2560-1406 (O), 2421-4664 (R), 99-606-24664 (M); Email gadre@iitk.ac.in, gadre@unipune.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; INSA Emeritus Scientist, formerly Professor, IIT, Delhi; *2609/Sector D-II, Vasant Kunj, New Delhi 110070* [Tel (011) 2689-2973 (R); Email gandhirp@yahoo.com]; **Visiting Fellowship:** JL Nehru Birth Centenary (2002); INSA Senior Scientist (1996-2001), INSA Honorary Scientist (2006-15); **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) Tirupati, Karakambadi Road, Mangalam, Tirupati 517507* [Tel (0877) 250-0802 (O); Fax 250-0250; Email kn.ganesh@iisertirupati.ac.in, director@iisertirupati.ac.in]; **Medal:** INSA Young Scientist (1985); **Lecture:** Dr Nitya Anand Endowment (2001); **Council:** Mem 2011-13; **SC: III.**



1997 : GANESHIAH, 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 knganeshiah@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, FNAE, Chairman Board of Studies & Distinguished Professor of Department of Nuclear Science & Technology & Adviser to Director General, Pandit Deendayal Petroleum University (PDPU), Gandhinagar, Gujarat 382007; 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; *Caladia 703, The Botanika, Kondapur Gachibowli, Hyderabad 500032 (behind Platina Commercial Complex near Radisson Hotel)* [Tel 80-082-22016, 93-984-05327 (M); Email chaitanya.ganguly@gmail.com, chm_ganguly@yahoo.com]; **SC: V.**



1993 : GANGULY, Nirmal Kumar (b 1941), MD, DSc (bc), Sp: Microbiology, Immunology, Biotechnology, Infectious Diseases, Public Health and Policy; FASc, FNASc, FTWAS(Italy), FAMS, FRCPATH(London), FRCTrop(London), FIACS(Canada), FIMSA, 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, Bhubaneswar, 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 ganguly1nk@gmail.com, gangulynk41@yahoo.co.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; INSA Senior Scientist, *National Institute of Immunology, Aruna Asaf Ali Marg, New Delhi 110067*; H.No. 12, Dakshinapuram, Jawaharlal Nehru University, New Delhi 110067 [Tel (011) 2670-3652 (O), 93-1228-7881 (M); Fax 2674-2125; Email lalit@nii.ac.in, lalitcgarg@gmail.com]; **SC: VIII.**



2019: GAUR, Deepak (b 1972), PhD, Sp: Malaria Parasite Biology & Vaccine Development; Professor, *School of Biotechnology, Jawaharlal Nehru University, New Mehrauli Road, New Delhi 110067*; D-3/3565, Vasant Kunj, New Delhi 110067 [Tel (011) 2673-8892 (O), 98-188-07105 (M); Fax 2670-2040; Email deepakgaur@mail.jnu.ac.in, deepakgaur189@gmail.com]; **SC: IX.**



1980 : GAUR, Vinod Kumar (b 1936), PhD, DSc (bc), 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@iip.res.in]; **Medal:** DN Wadia (2007); **Lecture:** Dr GP Chatterjee Memorial (1991); **Council:** Mem 1985-87, 1994-96; **SC: IV.**





2006 : GAVAI, Rajiv Vasantryao (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, *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, Kakkudiyil (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, Thiruvananthapuram 695004*; C12/2, Kakkudiyil, Lekshmi Nagar, Pattom, Thiruvananthapuram 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 (*bc*), Sp: Molecular Biology of *Vibrio cholerae*; FASc, FNASc, FBRS, JC Bose Chair Professor, National Academy of Sciences, India (NASI); *ICMR-National Institute of Cholera and Enteric Diseases (JICA Building), P-33, CIT Scheme XM, Beliaghata, Kolkata 700010*; formerly Director, CSIR-Institute of Microbial Technology, Chandigarh and Indian Institute of Advanced Research, Gandhinagar, Gujarat [Tel (033) 2353-7470 (O), 4603-3573 (R), 94-336-92858 (M); Email amitghosh24@yahoo.com]; **Council:** Mem 2011-13; **SC: XI.**



2000 : GHOSH, Amitabha (b 1941), PhD, DSc (*bc*), Sp: Mechanical Engineering; FASc, FNASc, FNAE, formerly Professor, IIT Kanpur, Director, IIT Kharagpur; INSA Honorary 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, amitabhaitk@gmail.com]; **SC: V.**



2017 : GHOSH, Arindam (b 1969), PhD, Sp: Experimental Condensed Matter Physics at Ultra-low Temperature, Nano Electronics, Semiconductor Physics; FNASc, FASc, Professor, *Department of Physics, Indian Institute of Science, Bengaluru 560012*; HE 351, Indian Institute of Science Campus, Bengaluru 560012 [Tel (080) 2293-3288 (O), 98-800-64200 (M); Fax 2360-2602; Email arindam@iisc.ac.in]; **SC: II.**

2014 : GHOSH, Aswini (b 1953), PhD, Sp: Condensed Matter Physics and Materials Science; FASc, JC Bose National Fellow, Former 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), 90-073-57514 (M); Fax 2473-2805; Email sspag@iacs.res.in, aswghosh@gmail.com; Web <http://iacs.res.in/faculty-profile.html?id=71>]; **SC: VI.**



2011 : GHOSH, Balaram (b 1955), PhD, Sp: Biochemistry, Immunology, Molecular Genetics; FASc, FNASc, JC Bose National Fellow, formerly 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), 2786-0108 (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.**



2017 : GHOSH, Hirendra N (b 1966), PhD, Sp: Chemistry; FNASc, FASc, Scientist-G, Institute of Nano Science and Technology, Habitat Centre, Phase-X, Sector-64, Mohali 160062; 404 Y-Tower, Falcon View, Sector-66A Mohali 160055 [Tel (0172) 221-0075 (O), 99-300-42720 (R), 99-201-65111 (M); Fax 221-1074; Email hngghosh@inst.ac.in, hngghosh2004@gmail.com]; **Medal:** INSA Young Scientist (1998); AK Bose Memorial (2000); **SC: III.**



2007 : GHOSH, Kunal (b 1946), PhD, DSc, Sp: Agricultural Chemistry and Soil Science; Director of the Board, Projects & Development India Limited (PDIL), Headquarters: Noida, Ministry of Chemicals & Fertilizers, Government of India; INSA Honorary Scientist, *Raman Centre for Applied and Interdisciplinary Sciences, 16A Jheel Road, Kolkata 700075*; formerly Professor and Head, Agricultural Chemistry and Soil Science, Calcutta University; 4A Ratnabali, 7A Judges Court Road, Alipore, Kolkata 700027 [Tel (033) 2446-7048, 2483-0029 (O), 2479-1112, 2448-0537 (R), 94-330-10233, 83-360-42420 (M); Email kghoshcu@gmail.com]; INSA Senior Scientist (2012-16); **Council:** Mem 2013-15, Ad Mem 2017-19; **SC: XII.**



2012 : GHOSH, Subrata (b 1950), PhD, Sp: Synthetic Organic Chemistry; FASc, INSA Senior Scientist, *School of Chemical Sciences, 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]; **SC: III.**





1999 : GHOSH, Swapan Kumar (*b* 1949), PhD, Sp: Theoretical Chemistry, Computational Materials Science, Soft Condensed Matter Physics; FASc, FNASc, FTWAS, INSA Emeritus Scientist, *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 2015-17; **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.**



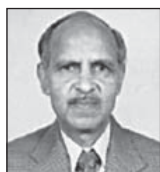
1981 : GILL, Khem Singh (*b* 1930), PhD, Sp: Genetics & Plant Breeding; FNAAS, FTWAS, Chairman, Akal Academies, Baru Sahib (HP); formerly VC, Director (Ext Ed), Principal Investigator (Wheat), Director (Res) & Dean, College of Agriculture, Professor & Head, Department of Plant Breeding, PAU, Ludhiana; *119-D Kitchlu Nagar, Ludhiana 141001* [Telefax (0161) 507-1930 (R), 98-724-15109 (M); Email khemsg@yahoo.co.in, khemsgill@gmail.com]; **Council:** Mem 1983-85; **SC: XII.**



2013 : GIRI, Ashok Kumar (*b* 1952), PhD, DSc, Sp: Genetic Toxicology, Environmental Mutagenesis, Human Genetics and Genomics; FNASc, INSA Senior Scientist, 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.**



2003 : GODBOLE, Rohini Madhusudan (*b* 1952), PhD, DLitt, Sp: Theoretical High Energy Physics; FASc, FNASc, FTWAS, Chair, INSA 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@iisc.ac.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, FNAE, FNASc, FTWAS, Dr Raja Ramanna Chair Professor, NIAS, Honorary Distinguished Professor, ISRO HQ; formerly Secretary, MoES, New Delhi; formerly Chairman, RAC (DRDO); formerly Director, ISAC; *No. 6, 1st Main, 9th Cross, Oppo BESSCOM office, ISRO Layout, Bengaluru 560111* [Tel 73-826-18774, 99-100-49388 (M); Email dr.psgoel@gmail.com]; **SC: V.**

2014 : GOKHALE, Rajesh Sudhir (*b* 1967), PhD, Sp: Chemical Biology; FASc, FNASc, Staff Scientist-VII, *National Institute of Immunology, Aruna Asaf Ali Marg, New Delhi 110067*; H-8, NII, Aruna Asaf Ali Marg, Near JNU East Gate, New Delhi 110067 [Tel (011) 2670-3545 (O), 98-115-59987 (M); Fax 2987-9111; Email rsg@nii.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, 4653-6020 (O); Fax 4653-6002; Email rajesh.gopakumar@icts.res.in, gopakumr@gmail.com]; **Council: Mem 2014-16; 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 Nagara, Bengaluru 560054 [Tel (080) 2293-3219 (O), 2360-2838 (R), 98-804-50577 (M); Fax 2360-0535; Email bgopal@iisc.ac.in; Web <http://mbu.iisc.ac.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), 94-495-45185 (M); Email gopalkrish@iisc.ac.in, gopalj18@gmail.com]; **Lecture: Professor Sadhan Basu Memorial (2008); INSA Senior Scientist (2009-13); SC: III**.



1966 : GOPALAN, Coluthur (*b* 1918), MD (Madras), DSc (Lond), DSc (*hc*), 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.nutritionfoundationin.org/>]; **Medal: CV Raman (1988); Council: Mem 1969-70; SC: XI**.



1986 : GOPALAN, Kunchithapadam (*b* 1938), PhD, Sp: Geochronology & Isotope Geology; FASc, FNASc, *CSIR-National Geophysical Research Institute, Uppal Road, Hyderabad 500007*; Plot 7, 2nd Street, Kalyanpuri, Hyderabad 500039 [Tel (040) 2343-4665 (O), 2720-4108 (R); Fax 2717-1564; Email gopalan1@rediffmail.com]; **Medal: Professor K Naha Memorial (2010); INSA Honorary Scientist (2008-15); SC: IV**.





1993 : GOPINATHAN, Karumathil Puthanveetil (*b* 1939), PhD, Sp: Molecular Biology & Biotechnology; FASc, FNASc, 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), 97-314-40030 (M); Fax 2360-2697; Email kpg@iisc.ac.in]; **Lecture:** Dr MR Das Memorial (2005); INSA Senior Scientist (2005-09), INSA Honorary Scientist (2010-15); **SC: X.**



1992 : GOPINATHAN, Melethil Sankaran (*b* 1942), PhD, Sp: Quantum Chemistry & Nonlinear Dynamics; FASc, Professor Emeritus, *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, SERB Distinguished Fellow, *Department of Physics, Cotton University, Guwahati 781001*; formerly Director, Indian Institute of Tropical Meteorology, Pune; House No. 95, Kharghuli Main Road, Kharghuli, Guwahati 781004 [Tel 98-602-01144 (M); Email bhpengoswami100@gmail.com]; **Medal:** KR Ramanathan (2008); INSA Senior Scientist (2017-18); **SC: IV.**



2000 : GOSWAMI, Jitendra Nath (*b* 1950) PhD, Sp: Solar System Studies, Earth and Planetary Sciences; FASc, FNASc, FTWAS, 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, Metal-Ligand Cooperation, Electro-Protic Storage, Electronic and Optoelectronic 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.**



2018 : GOSWAMI, Srubabati (*b* 1966), PhD, Sp: High Energy Physics; FASc, FNASc, Professor, *Theoretical Physics Division, Physical Research Laboratory, Navrangpura, Ahmedabad 380009*; E3 PRL Quarters, Vikramnagar, Bopal Road, Ahmedabad 380058 [Tel (079) 2631-4471 (O), 99-099-06086 (M); Fax 2631-7900; Email sruba@prl.res.in, sruba.goswami@gmail.com]; **SC: II.**

2019: GOURINATH, Samudrala (b 1972), PhD, Sp: Structural Biology (Infectious Disease); Professor, Lab# 430, Structural Biology Lab, School of Life Sciences, Jawaharlal Nehru University, New Delhi 110067; A-504, Paschimabad, Jawaharlal Nehru University, New Delhi 110067 [Tel (011) 2670-4513 (O), 98-184-20366 (M); Fax 2618-7338; Email samudralag@yahoo.com, sgourinath@mail.jnu.ac.in]; **SC: X**.



1983 : GOVIL, Girjesh (b 1940), PhD, Sp: Molecular Biophysics; FASc, FNASc, FTWAS, NASI Senior Scientist, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400005; 302, Vigyanashila, Juhu-Versova Link Road, Andheri (W), Mumbai 400061 [Tel (022) 2278-2371 (O), 2635-1251 (R), 98-675-74613 (M); 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); INSA Honorary Scientist (2014-17); **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, INSA Senior Scientist, Centre for DNA Fingerprinting and Diagnostics (CDFD), Inner Ring Road, Uppal, Hyderabad 500039; formerly Staff Scientist and Director, CDFD & Scientist, CCMB, Hyderabad; N-1, Nemali Meadows, 12-2-715/B, Padmanaba Nagar, Mehdipatnam, Hyderabad 500028 [Tel (040) 2721-6122 (O), 2352-3959 (R), 91-604-30111 (M); Fax 2721-6006; 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), 4985-4674 (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, Raja Ramanna Fellow (AEC), Adjunct Professor, Indian Institute of Technology (Indian School of Mines), Dhanbad; E-202, Green Valley Apartments, Chiriamore, Kaikhalai 700136 [Tel (033) 2573-0548 (R), 86-013-50902 (M); Email alok.krishna.gupta@gmail.com]; **Lecture:** JL Nehru Birth Centenary (2011); INSA Honorary Scientist (2013-16); **Council:** VP 2007-09; **SC: IV**.



2012 : GUPTA, Anil Kumar (b 1960), PhD, Sp: Micropaleontology, Paleomonsoon and Paleoclimatology; FASc, FNASc, FTWAS, JC Bose National Fellow, Professor (HAG), Department of Geology & Geophysics, Indian Institute of Technology Kharagpur, Kharagpur 721302 [Tel (03222) 283-368 (O), 94-340-21903, 81-266-61820 (M); Email anilgupta021160@gmail.com, anilg@gg.iitkgpernet.in]; **SC: IV**.





2019: GUPTA, Anil Kumar (*b* 1952), PhD, Sp: Inclusive, Frugal and Grassroots Innovation, Institution Building, Sustainable Agriculture, Technological, Educational, Institutional Innovations, Public Policy; FNAAS, FWAAS, Founder, Honey Bee Network, SRISTI, GIAN and NIF, Visiting Faculty, IIMA and Distinguished Visiting Faculty, IITB, *GLAN, Bungalow No. 1, Satellite Complex, Near Satellite Tower, Mansi Cross Road, Premchand Nagar Road, Satellite, Ahmedabad 380015*; 17, Abhishek Bungalow, Gala Gymkhana Road, Opp. SOBO Center, Near Rajvi Society, South Bopal, Bopal, Ahmedabad 380058 [Tel (02717) 489-516 (O), 98-250-14437 (M); Fax 2630-7341; Email anilg@sristi.org, anilg@iima.ac.in]; **Lecture:** Professor BD Tilak (2005); **NC***.



1989 : GUPTA, Chhitar Mal (*b* 1944), PhD, Sp: Membrane Biology and Bio-organic Chemistry; FASc, FNASc, FAMS, FTWAS, Distinguished Professor (Hon.) & Infosys Chair, Institute of Bioinformatics and Applied Biotechnology (Room GF 18), Biotech Park, Electronics City Phase 1, Bengaluru 560100, formerly Director, CSIR-IMTech., Chandigarh and CSIR-CDRI, Lucknow and Distinguished Biotechnology Research Professor (DBT); *D-508, Rabeja Residency, IIIrd 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); **Lecture:** 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, Distinguished Scientist Chair (ICMR), Nucleic Acids Research Laboratory, CSIR-Institute of Genomics and Integrative Biology, Mall Road, Delhi University Campus, Delhi 110007; Visiting Professor, Department of Biological Sciences and Bioengineering (BSBE) and Centre for Environmental Science and Engineering (CESE), Indian Institute of Technology, Kanpur 208016; 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@iitk.ac.in, kcgupta@igib.res.in, kcgupta9@gmail.com]; **SC: X**.

* NC: New Category (for guidelines refer INSA Website)

1992 : GUPTA, Laxmi Chand (*b* 1938), PhD, Sp: Superconductivity and Magnetism in Quaternary Borocarbides and Intermetallics, Nuclear Magnetic/Quadrupole Resonance and μ -SR Studies, Valence Fluctuations and Heavy Fermions; FASc, FNASc, FTWAS, formerly Senior Professor (I), TIFR, Mumbai; 403, *VIGYANSHILA, Jubu Versova Link Road, Andheri (W) Mumbai 400061* [Email lcgupta@tifr.res.in, lcgupta38@yahoo.com]; **SC: II.**



2014 : GUPTA, Munishwar Nath (*b* 1948), PhD, Sp: Biochemistry; FNASc, Formerly Emeritus Professor, Department of Biochemical Engineering & Biotechnology, Indian Institute of Technology Delhi, New Delhi; *Apt 508/block 3, Kirti Apartments, Mayur Vihar Phase 1 Extension, Delhi 110091* [Tel (011) 2271-5268 (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 Honorary Scientist, Department of Applied Mechanics, Indian Institute of Technology Delhi, New Delhi 110016; *A-53, 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); INSA Senior Scientist (2012-17); **Council:** VP 2008-10; **SC: V.**



1986 : GUPTA, Pushpendra Kumar (*b* 1936), PhD, Sp: Cytogenetics, Plant Breeding & Biotechnology; FASc, FNASc, FNAAS, INSA Honorary Scientist, Emeritus Professor, Department of Genetics and Plant Breeding, Chaudhary Charan Singh University, Meerut; *F-119, Shastri Nagar, Meerut 250004* [Tel (0121) 276-8195 (Lab), 276-2505 (R); Email pkgupta36@gmail.com]; INSA Senior Scientist (2003-06, 2015-16); **SC: VII.**



1995 : GUPTA, Raj Krishna (*b* 1946), PhD, Sp: Soil Science, Land Reclamation, Irrigation Water Quality and Conservation Agriculture; FNASc, FAAS, formerly Team Leader, Borlaug Institute for South Asia (BISA), Coordinator for Sustainable Land Management Project (Central Asia, ICARDA Tashkent) and Regional Facilitator of the Ecoregional Program (Rice Wheat Consortium for South Asian-Indo-Gangetic Plains), CIMMYT-India, NASC Complex, Pusa Campus, New Delhi; National Coordinator, NATP, ICAR, Krishi Bhawan, New Delhi; INSA Senior Scientist, Centre for Advancement of Sustainable Agriculture (CASA), NASC Complex, Pusa, New Delhi; *B-4/205, First Floor, Safdarjung Enclave, New Delhi 110029* [Tel (011) 2618-1175 (R), 97-110-09365 (M); Email rajbisa2013@gmail.com]; **Lecture:** Professor BD Tilak (2003); **SC: XII.**



2001 : GUPTA, Satish Kumar (*b* 1953), PhD, Sp: Reproductive Biology/Immunology, Vaccine Development; FASc, FNASc, FAMS, Emeritus Scientist, JC Bose National Fellow, *Reproductive Cell Biology Laboratory, National Institute of Immunology, Aruna Asaf Ali Marg, New Delhi 110067*; KG-04, Mahindra Aura, Sector 110A, Gurugram 122017 [Tel (011) 2670-3651, 2674-1249 (O), (0124) 490-5491 (R), 98-109-66357 (M); Fax 2674-2125; Email skgupta@nii.ac.in]; **Medal:** INSA Young Scientist (1982), Chandrakala Hora Memorial (2016); **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.**



1997 : GURJAR, Rajendra Vasant (b 1950), PhD, Sp: Algebraic Geometry, Commutative Algebra; Dr Raja Ramanna Fellow, *Department of Mathematics, Indian Institute of Technology Bombay, Powai, Mumbai 400076*; 1403 Whispering Woods, Powai Vihar Complex, Powai, Mumbai 400076 [Tel (022) 2576-9467 (O), 2570-0062 (R); Fax 2572-3480; Email gurjar@math.iitb.ac.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 gururow@gmail.com, gururow@iisc.ac.in; Web <http://sscu.iisc.ac.in/faculty/guru-row/>]; **SC: III.**



2013 : HAIDER, Syed Aftab (b 1958), PhD, Sp: Planetary Atmospheres, Ionospheres and Magnetospheres, Cometary Coma and Dust; FASc, FNASc, JC Bose National Fellow, Honorary Scientist-A, Co-ordinator of Planetary Science Division, *Physical Research Laboratory, Navrangpura, Ahmedabad 380009*; Bungalow 9, Unique Park Society, Sarkhej Road, Ahmedabad 380055 [Tel (079) 2631-4950 (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.**



2017 : HARINARAYANA, Kota (b 1943), PhD, Sp: Aeronautical Engineering; FNASc, FNAE, INAE Satish Dhawan Chair of Engineering Eminence, Honorary Advisor, CSIR-NAL, Founder Chairman, General Aeronautics Pvt. Ltd.; *NEB 3/401, Shriram Spandana, Chhallaghatta, off Wind Tunnel Road, Bengaluru 560037* [Tel (080) 4201-9017 (R), 98-807-96012 (M); Email hnkota@yahoo.com]; **NC***.

* NC: New Category (for guidelines refer INSA Website)

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 (bc), DMedSc (bc); 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; Vice Chancellor, Jamia Hamdard (Hamdard University) and Professor & Head, *Jamia Hamdard Institute of Molecular Medicine, Hamdard Nagar, New Delhi 110062* [Tel (011) 2605-9662/5216, 5213 (O)]; Invited Professor, Kusuma 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 schiitd@gmail.com; Web <http://www.seyedhasnain.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.**



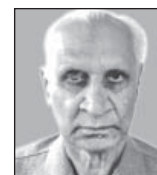
2010 : HOSUR, Madhusoodan Vijayacharya (b 1950), PhD, Sp: Biophysics, X-ray Crystallography; INSA Senior Scientist, *National Institute of Advanced Studies, Indian Institute of Science Campus, Bengaluru 560012*; C-4/8, Kendriya Vihar, Sector 11, Kharghar, Navi Mumbai 410210 [Tel (022) 2740-5142 (O), 2774-1682 (R), 98-219-88370 (M); Email hosurm@gmail.com]; **SC: X.**



1995 : HOSUR, Ramakrishna Vijayacharya (b 1953), PhD, Sp: Biophysical Chemistry, NMR, Structural Biology; FASc, FNASc, FTWAS, Visiting Professor, *UM-DAE Centre for Excellence in Basic Sciences, Mumbai University Campus, Kalina, Mumbai 400098*; [Tel 99-870-51556, 77-387-77336 (M); 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 (JNCASR), 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.**





2018 : INAMDAR, Maneesha Shreedhar (b 1967), PhD, Sp: Stem Cell Biology, Cardiovascular Development, Hematopoiesis, Angiogenesis; FASc, Professor, *Molecular Biology and Genetics Unit, Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Jakkur PO, Bengaluru 560064*; JVE-1 Vijnanapura, Opp ISRO HQ, New Bel Road, Bengaluru 560094 [Tel (080) 2208-2818 (O), 99-004-54365 (M); Fax 2208-2766; Email inamdar@jncasr.ac.in]; **SC: VIII.**



2001 : IQBAL, Javed (b 1947), PhD, Sp: Organic and Medicinal Chemistry; FASc, Executive Director, *Dr Reddy's Institute of Life Sciences, University of Hyderabad Campus, Gachibonli, Hyderabad 500046* [Tel 98-497-99444 (M); Email prof.javediqbal@gmail.com]; **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, FNAE, Emeritus Professor and NASI Senior Scientist Platinum Jubilee Fellow, *Department of Materials Engineering, Indian Institute of Science, Bengaluru 560012*; 210, Indira Nagar, Stage I, 7th Cross, Bengaluru 560038 [Tel (080) 2293-2494 (O), 2525-2765 (R); Fax 2360-0683, 2360-0685, 2360-0472; Email katob@iisc.ac.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; FASc, 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, nrjgj@yahoo.co.in]; **Council:** VP 2017-; **SC: XI.**



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 110034* [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 Honorary 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]; INSA Senior Scientist (2011-15); **SC: IV.**

1981 : JAIN, Dharam Vir Singh (*b* 1933), PhD (S Calif), Sp: Physical & Theoretical Chemistry; FASc, FNASc, Department of Chemistry, Panjab University, Chandigarh 160014; formerly Professor of Physical Chemistry & Director, RSIC, Panjab University, Chandigarh; 1529, Sector 49-B, Pushpac Complex, Chandigarh 160047 [Tel (0172) 253-4415 (O), 507-2127 (R), 95-692-13466, 79-865-12829 (M); Fax 254-5074; Email dvsjain@pu.ac.in, dvsjain@yahoo.com]; **Lecture:** JL Nehru Birth Centenary (1999); INSA Senior Scientist (1996-2001), INSA Honorary Scientist (2006-15); **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; FASc, FNASc, FNAAS, formerly 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.**



2019: JAIN, Neeraj (*b* 1960), PhD, Sp: Neuroscience; FNASc; Professor and Scientist VII, National Brain Research Centre, Nainwal Road, NH 8, Manesar, Gurugram 122052; 603, Tower 2, Uniworld Gardens, Sohna Road, Gurugram 122018 [Tel (0124) 284-5200 (O), 98-104-46444 (M); Email neeraj.jain@nbrc.ac.in, njain.nbrc@gmail.com]; **SC: XI.**



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, Founder & formerly Director, SK Jain Institute of Ethnobiology, Jiwaji University, Gwalior; formerly Director, BSI; A-26, Aras 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); INSA Honorary Scientist (2006-15); **SC: VII.**





1992 : JAIRAJPURI, Mohammad Shamim (b 1942), PhD, DSc, Sp: Nematology, Parasitology Taxonomy, Biological Diversity; FASc, FNASc, FNAAS, FTWAS, INSA Emeritus 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 (Okhla Village), 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); INSA Honorary Scientist (2009-15); **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, 526 DLF Tower A, Jasola, New Delhi 110025*; 26, Zakir Bagh, New Delhi 110025 [Tel (011) 4100-8402/03 (O), 2684-0631 (R); Email shahid.jameel@indiaalliance.org; Web <http://www.indiaalliance.org>]; **Lecture:** Dr MR Das Memorial (2008); **SC: XI.**



2017 : JAYAKRISHNAN, Athipettah (b 1953), PhD, Sp: Polymer Chemistry, Biomaterials; FASc, Professor, *Department of Biotechnology, Bhupat and Jyoti Mehta School of Biosciences, Indian Institute of Technology Madras, Chennai 600036*; C1-6-8, Second Loop Road, Delhi Avenue, IIT Madras, Chennai 600036 [Tel (044) 2257-4129 (O), 2257-6129 (R), 99-467-92226 (M); Fax 2257-4102; Email ajk@iitm.ac.in]; **SC: VI.**



2002 : JAYANNAVAR, Arun Mallojirao (b 1956), PhD, Sp: Condensed Matter Physics (Theory); FASc, FNASc, Senior Professor, *Institute of Physics, PO Sainik School, Bhubaneswar 751005*; Institute of Physics Campus, PO Sainik School, Bhubaneswar 751005 [Tel (0674) 230-6404 (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@iisc.ac.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]; **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 (Hon.), *Department of Inorganic and Physical Chemistry, Indian Institute of Science, Bengaluru 560012*; formerly Director, IISER, Thiruvananthapuram; No. 324, Embassy Heritage, 8th Main Road, Malleswaram, Bengaluru 560055 [Tel (080) 2293-3347/48 (Lab), 2367-0324 (R), 94-835-98097 (M); Fax 2360-1552; Email jemmis@gmail.com, jemmis@iisc.ac.in; Web <http://ipc.iisc.ac.in/edj.php>]; **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, formerly Chief Scientist & Divisional Chair, Marine Biotechnology and Ecology Division, CSIR-Central Salt and Marine Chemicals Research Institute, G.B. Marg, Bhavnagar 364002, Gujarat; *Flat No. 401, RGS GREEN Apartments, Opposite Gate No. 32A, Rajapur, Patna 800001, Bihar* [Tel 94-272-32120, 70-162-34913 (M); Email jha.bhavanath@gmail.com]; **SC: VII.**



1979 : JHA, Sudhanshu Shekhar (*b* 1940), PhD (Stanford), Sp: Solid State Physics & Optoelectronics; FASc, FNASc, FTWAS, Honorary Professor, UM-DAE Centre for Excellence in Basic Sciences, Mumbai; formerly Director, TIFR, Mumbai and Distinguished Guest Professor, IIT Bombay, Powai, Mumbai; *402, Vigyanshila, Jubh-Versova Link Road, 7 Bunglows, 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: Decentralized Solar Power Systems, Electric Vehicles, Telecommunication, Wireless Communications, Computer Networks, Fibre Optics, Industry-Academia Interaction; FASc, FNASc, FNAE, FIEEE, Institute Professor, *Indian Institute of Technology Madras, Chennai 600036* [Tel (044) 2257-0120, 2257-4408 (O), 2257-0202 (R); Email ashok@tenet.res.in; Web <http://www.tenet.res.in>]; **Lecture:** JL Nehru Birth Centenary (2006); **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@iisc.ac.in; Web <http://www.physics.iisc.ac.in/~cjjog/>]; **Medal:** HJ Bhabha (2017); **Council:** Mem 2017-; **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, Jubu-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, Raja Ramanna Fellow, *TIFR Centre for Applicable Mathematics, PB No 6503, GKVK PO, Sharada Nagar, Chikkabommasandra, Bengaluru 560065, Karnataka*; Sri Guru Deepam, Flat No. 201, No. 31, 2nd 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 Nebru 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]; **Lecture:** Professor Har Swarup Memorial (2017); **SC: VIII.**



2013 : JOSHI, Arun Kumar (*b* 1958), PhD, Sp: Agricultural Sciences; CIMMYT Asia Regional Representative & Director Borlaug Institute for South Asia (BISA), *International Maize and Wheat Improvement Center (CIMMYT), G-2, B-Block, NASC Complex, DPS Marg, New Delhi 110012* [Tel (011) 2584-2940, 2584-2938 (O), 94-152-21526 (M); Email joshi_vns@yahoo.com, a.k.joshi@cgiar.org]; **SC: XII.**



1995 : JOSHI, Jyeshtharaj Bhalchandra (*b* 1949), PhD (Tech), Sp: Chemical Engineering; FASc, FNASc, FNAE, FTWAS, Honorary Distinguished Professor, 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 jbjoshi@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, CSIR-National Physical Laboratory, Dr KS Krishnan Marg, New Delhi 110012; formerly DG, CSIR; *M 56 South City 1, Gurugram 122001* [Tel (011) 4560-9363 (O), (0124) 238-3700, 405-1187 (R); Email skjoshinpl@gmail.com]; **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 Emeritus Scientist, Cochin University of Science and Technology, Department of Biotechnology & Former Professor, Head of Department and Co-ordinator, CAS, Department of Zoology, Banaras Hindu University, Varanasi 221005; *Keerikkattil, Vadavancode P.O., Ernakulam, Kerala 682310* [Tel 82-812-74891, 91-885-02891 (M); Email kpjoy@bhu.ac.in, kpjoybhu@gmail.com, keerikkattilpailyjoy@yahoo.com]; INSA Senior Scientist (2015-18); **SC: VIII.**



1990 : JUNJAPPA, Hiriyakkanavar (*b* 1936), PhD, Sp: Synthetic and Mechanistic Organic Chemistry; FASc, INSA Honorary 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]; INSA Senior Scientist (2012-15); **SC: III.**



2013 : KAILAS, Swaminathan (*b* 1949), PhD, Sp: Accelerator Based Nuclear Physics and Applications; FASc, Adjunct Faculty, *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 2551-2291 (R), 98-190-66226 (M); Email kailas@barc.gov.in, drskailas@rediffmail.com, swaminathankailas305@gmail.com, kailas@cbs.ac.in]; **SC: II.**



1989 : KAMBOJ, Ved Prakash (*b* 1937), PhD, DSc, Sp: Reproductive Biology, Contraception and Endocrinology; FNASc, Mem NYASc, formerly Director, CDRI, Lucknow and formerly Chairman, BIBCOLD, 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]; INSA Honorary Scientist (2008-15); **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) 2590-4281 (O), 2588-7270 (R); Fax 2586-5142; Email kamra@tropmet.res.in]; **SC: IV.**



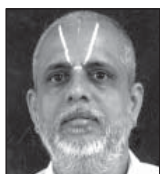
2016 : KANG, Gagandeep (b 1962), MBBS, MD, PhD, FRCPath, Sp: Medicine, Microbiology, Vaccines, Enteric Infections, Public Health; FASc, FNASc, Professor, *The Wellcome Trust Research Laboratory, Division of Gastrointestinal Sciences, Christian Medical College, Vellore 632004* (On sabbatical as Executive Director, THSTI, Faridabad); 327, South Road, CMC Campus, Bagayam, 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.**



2019: KANJILAL, Dinakar (b 1955), PhD, Sp: Material Sciences & Engineering, Accelerator Physics; FNASc, Former Director, *Inter-University Accelerator Centre (IUAC), Aruna Asaf Ali Marg, New Delhi 110067*; B-225, Prodyogiki Appt, Plot 11, Sector-3, Dwarka, New Delhi 110078 [Tel (011) 2412-6018 (O), 98-687-16629 (M); Fax 2412-6041; Email dkiuac@gmail.com, dk@iuac.res.in]; **SC: VI.**



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, SRM University AP, Amaravati; *1-1448, Koneru Street, Mangalagiri, Guntur Dt., Andhra Pradesh 522503* [Tel 99-491-93737 (M); Email vksm.uoh@nic.in, kannan.v@srmmap.edu.in]; **Council:** Mem 2007-09; **SC: I.**



2007 : KANT, Tarun (b 1946), PhD, Sp: Structural Mechanics; FASc, FNASc, FNAE, INSA Senior Scientist, Professor Emeritus, *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); 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; Past President, International Society of Soil Science (1978-82) and Treasurer as first Asian Honorary Member of International Union of Soil Science (1990); *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, INSA Emeritus Scientist, 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), 93-235-04942 (M); Email kapoorss2002@yahoo.co.in]; INSA Honorary Scientist (2008-15); **Council:** Mem 1996-98; **SC: II.**



2015 : KAPURIA, Santosh (*b* 1968), PhD, Sp: Structural Mechanics, Multifunctional Structures; FASc, FNASc, FNAE, JC Bose National Fellow and Director, *CSIR-Structural Engineering Research Centre, Taramani, Chennai 600113*; 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 (044) 2254-9201 (O), 2254-9116 (R), 96-547-28776 (M); Fax 2254-1508; Email kapuria@am.iitd.ac.in, director@serc.res.in]; **SC: V.**



2014 : KAR, Premashis (*b* 1950), MD, DM, PhD, Sp: Gastroenterology; FRCP, FAMS, INSA Senior Scientist, Director and Head, Department of Gastroenterology and Hepatology, Max Super Speciality Hospital, W-3 Sector-1, Vaishali 201012, Ghaziabad;—formerly Director, Professor of Medicine & Gastroenterologist, New Delhi; *House No-B001, Pragiyotishpur Apartments, Plot No-7, Sector 10, Dwarka, New Delhi 110075* [Tel (011) 2808-4181 (R), 98-110-42164 (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 Biomedical Applications; FASc, Advisor, Department of 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, INSA Senior Scientist, *Centre for DNA Fingerprinting and Diagnostics, Tuljaguda Complex, Opp M.J. Market, 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; *237, Senator Place, Cincinatti, 45220, Ohio, USA* [Tel (+1) (513) 827-1015; Email premakasturi@yahoo.in]; **SC: III.**



1989 : KASTURIRANGAN, Krishnaswamy (b 1940), PhD, DSc (bc), Sp: Experimental Astronomy, Satellite Technology & Remote Sensing Systems; FASc, FNASc, FNAE, FTWAS, Honorary Distinguished Advisor, Indian Space Research Organisation; Distinguished Professor Emeritus, National Institute of Advanced Studies, Indian Institute of Science Campus, Bengaluru 560012; *Flat No. 1002, Alder 1, Godrej Woodsman Estate, Bellary Road, Hebbal, Bengaluru 560024* [Tel (080) 2218-5061 (O), 4216-1181 (R); Fax 2218-5028; Email k.rangan@gov.in]; **Medal:** Aryabhata (2000); **Council:** Mem 1993-94; **SC: V.**



2009 : KATOCH, Vishwa Mohan (b 1953), MD, Sp: Microbiology and Molecular Biology of Mycobacteria/Mycobactriology; FASc, FNASc, 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, FRCPath(Lond), Sp: Molecular Medicine, Functional Genomics, Genomic-Immunity; FICA, FWAAS, Founder-Professor, Molecular Biology Unit, Senior 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 A3, KGEYES Samudra, Plot No. 1 & 2, Coastal Road, Kalakhestra Colony, 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*; Flat No. H-402, Aparna Sarover Grande, Nallagandla, Hyderabad 500019 [Tel (040) 2313-4322 (O); Fax 2301-0227; Email kaul.sn@gmail.com, sn.kaul@uohyd.ac.in, kaul_sn@yahoo.com]; **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 pkesavan@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, *Department of Chemical Engineering, Indian Institute of Technology Bombay, Powai, Mumbai 400076* [Tel (022) 2576-7001 (O), 98-206-05351 (M); 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) 2452-4371(R)]; **SC: III.**



2005 : KHANDUJA, Sudesh Kaur (b 1951), PhD, Sp: Algebra, Algebraic Number Theory; FASc, FNASc, FTWAS, INSA Senior Scientist, *Indian Institute of Science Education & Research (IISER), Mohali, Sector 81, Knowledge City, SAS Nagar, PO Manauli 140306, Punjab*, H No 1297, Sector 37-B, Chandigarh 160036 [Tel (0172) 224-0266 (O), 405-1297 (R), 98-152-04096 (M); Email skhanduja@iisermohali.ac.in]; **Lecture:** Professor VV Narlikar Memorial (2015); **SC: I.**





2018 : KHANNA, Navin Chandra (b 1956), PhD, Sp: Biotechnology: Recombinant Proteins of Medical Use; FNASc, FASc, Group Leader, *Recombinant Gene Products Laboratory, International Center for Genetic Engineering & Biotechnology, Aruna Asaf Ali Marg, New Delhi 110067*; 4373, B-5, Vasant Kunj, New Delhi 110070 [Tel (011) 2674-2357/60 (O), 4176-1859 (R), 96-501-00229 (M); Fax 2674-2316; Email navin@icgeb.res.in, navinkhanna5@gmail.com; Web <http://www.icgeb.org/navin-khanna.html>]; **SC: IX.**



1994 : KHANNA-CHOPRA, Renu (b 1949), PhD, Sp: Plant Physiology, Stress Physiology, Biochemistry; FNASc, FNAAS, INSA Senior Scientist, 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), 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, Vice-Chancellor, *Central University of Sikkim, 6th Mile, Samdur, P.O., Tadong, Gangtok, Sikkim 737102*; C-20 (29/31) University Apartments, Chhatra Marg, University of Delhi, Delhi 110007 [Tel (03592) 251-067/251-073 (O), 97-183-28154 (M); Email khareavinash82@gmail.com, vc@cus.ac.in]; **Lecture:** Dr Biren Roy Memorial (2016); **SC: II.**



1996 : KHARE, Avinash Vasant (b 1945), PhD, Sp: Theoretical Physics; FASc, *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]; INSA Senior Scientist (2015-18); **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 160059, 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 (bc), 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 clkhetrapal@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, Director, *University of Delhi South Campus*; Professor, *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, 2019-; **SC: VII.**



2011 : KHURANA, Paramjit (b 1956), PhD, Sp: Plant Biotechnology, Molecular Biology, Genomics; FASc, FNASc, FNAAS, FTWAS, 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/dpmbindex.php?page=p-khurana>]; **Council:** Ad Mem 2016, 2017, 2018; **SC: VII.**



1978 : KHUSH, Gurdev Singh (b 1935), PhD (Calif), Dsc (*h.c.*), 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, 98-770-34221 (M); Fax 286-4111; Email rkkohli45@yahoo.com, rkkohli45@gmail.com, vc@cup.edu.in; Web <http://www.rkkohli.com>]; **SC: VII.**





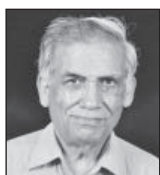
1994 : KOLASKAR, Ashok Sadanand (b 1950), PhD, DLitt (*bc*), DSc (*bc*), DSc (*bc*), Sp: Molecular Biophysics, Bioinformatics; FNASc, Vice Chancellor, 'The Neotia University' (TNU), *Vishvakarma, 86C, Topsia Road (S) Kolkata 700046*; former Vice Chancellor, KIIT University, Bhubaneswar and University of Pune; formerly Advisor, National Knowledge Commission, New Delhi; Flat No. 04-1403, 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@iisc.ac.in]; **SC: XI**.



2017 : KOTHA, Sambasivarao (b 1957), PhD, Sp: Organic Chemistry; FNASc, FASc, FRSC, JC Bose National Fellow, Pramod Chaudhari Chair Professor (Green Chemistry), *Department of Chemistry, Indian Institute of Technology Bombay, Powai, Mumbai 400076*; B 280, Building No. 24, Nilgiri Apartment, Faculty Housing, IIT-Bombay, Powai, Mumbai 400076 [Tel (022) 2576-7160 (O), 2576-8160, 2572-6743 (R), 98-693-92696 (M); Fax 2576-7152; Email srk@chem.iitb.ac.in]; **SC: III**.



1984 : KRISHAN LAL (b 1941), PhD, DSc (*bc*), Sp: Physics of Materials; FNASc, Foreign Mem, Russian Academy of Science, Co-Chair, IAP for Science, the Global Network of Science Academies (2016--); Past-President, AASSA, the Association of Academies and Societies of Sciences; and Past-President, ICSU-CODATA, formerly Director, CSIR-National Physical Laboratory, Dr KS Krishnan Marg, New Delhi 110012; *C-116, Ground Floor, Inderpuri, New Delhi 110012* [Tel (011) 4560-9104, 2322-1958 (O), 2583-6409, 4702-6374 (R); Email cochairkr@gmail.com, krish41ster@gmail.com]; **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 and Cosmology (Radio Galaxies and Quasars); FASc, FNASc, NASI Senior Scientist Platinum Jubilee Fellow, *Centre for Excellence in Basic Sciences (CEBS), University of Mumbai Campus, Mumbai 400098* [Tel 98-504-15719 (M); Email gopaltani@gmail.com]; **SC: II**.



2013 : KRISHNA, Kolluru Sree (b 1958), PhD, Sp: Lithospheric Dynamics, Tectonics, Plate Tectonics, Marine Geophysics; FASc, FNASc, Professor and Head, *Centre for Earth and Space Sciences, University of Hyderabad, Prof. C.R. Rao Road, Gachibowli, Hyderabad 500046*; H No 421-1, La Oceana-2, Behind Goa International Centre, Dona Paula, Goa 403004 [Tel (040) 2313-2669 (O), 97-654-94935, 97-653-21229 (M); Fax 2301-0152; Email krishna@uohyd.ac.in, nio.krishna@gmail.com]; **SC: IV**.

1982 : KRISHNA, Padmanabhan (*b* 1938), PhD, Sp: Crystallography, Crystal Growth, Education, Science & Society; FASc, In-charge, *Study Centre, Krishnamurti Foundation India, Rajghat Fort, Varanasi 221001*; formerly Professor of Physics, BHU, Varanasi; Study Centre, KF1, Rajghat Fort, Varanasi 221001 [Tel (0542) 244-1289 (O), 244-1356 (R), 94-152-23667, 79-052-37895 (M); Email pkrishna@pkrishna.org; Web <http://www.pkrishna.org>]; **SC: II.**



2009 : KRISHNAMOORTHY, Guruswamy (*b* 1950), PhD, Sp: Biophysical Laser Spectroscopy, Macromolecular Dynamics; FASc, FRSC, INSA Senior Scientist, *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, Distinguished Visiting Scientist, *Centre for Atmospheric and Oceanic Sciences, Indian Institute of Sciences, Bengaluru 560012*; 'ROSHNI' TC 25/927, # 202, ETRA, East Thampanoor, Thiruvananthapuram 695014 [Tel (0471) 232-3542 (R), 94-960-50095, 99-455-30293 (M); Email krishnamoorthy@iisc.ac.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, Sanjaynagar, Bengaluru 560094 [Tel (080) 2293-3282, 2360-8658 (O), 2341-6627 (R); Fax 2360-2602, 2360-0683; Email hrkrish@iisc.ac.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, Kodigehalli, Bengaluru 560092 [Tel (080) 2293-2401 (O), 2351-6293 (R), 98-454-57190 (M); Email sskrish@iisc.ac.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, *Jawabarlal Nebru Centre for Advanced Scientific Research (JNCASR), 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, vkrishnan@iisc.ac.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 Diabetes 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.



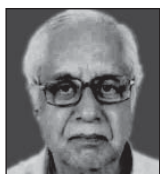
2012 : KRUPANIDHI, Saluru Baba (b 1951), PhD, Sp: Physics of Materials, Epitaxial Multi-Component Oxides, Compound Semiconductors, Superlattices, Functional Devices & Applications; FASc, INSA Senior Scientist, Professor, *Materials Research Centre, Indian Institute of Science, Bengaluru 560012*; 164, 2nd Cross, Central Excise Layout, Bhoopasandra, Bengaluru 560094 [Tel (080) 2360-1330, 2293-2601 (O); Fax 2360-7316; Email sbk@iisc.ac.in, sbkenator@gmail.com]; **SC:** M.



1991 : KULKARNI, Bhaskar Dattatraya (b 1949), PhD, Sp: Chemical Engineering; FASc, FNAE, FTWAS, INSA Emeritus Scientist, *CSIR-National Chemical Laboratory, Pashan Road, Pune 411008*; Saptashrungi Bunglow, Plot No. 11+12, Vidnyannagar, 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); INSA Senior Scientist (2016-18); **SC:** V.



2011 : KULKARNI, Sulabha Kashinath (b 1949), PhD, Sp: Nanotechnology, Materials Science, Surface Science; FASc, FNASc, INSA Senior Scientist, *Centre for Materials for Electronics Technology (CMET), Panchwati, Pune 411008* [Tel (020) 2598-9273 Ext 224 (O), 2544-1158 (R), 88-884-25978 (M); Email skknano@gmail.com]; **SC:** II.



1989 : KUMAR, Anil (b 1941), PhD, Sp: Nuclear Magnetic Resonance Spectroscopy & Applications to Biomolecules and Quantum Computing; FASc, FNASc, FTWAS, NASI-Honorary Scientist, *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@iisc.ac.in, anilnmr@gmail.com]; **Lecture:** Professor KR Rao Memorial (1996); **Council:** Mem 2013-15; **SC:** X.

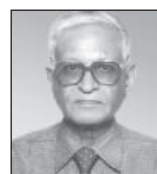
2009 : KUMAR, Anil (b 1955), PhD, Sp: Physical Chemistry, Thermodynamics, Physical-Organic Chemistry; FASc, FNASc, JC Bose National Fellow, *Physical Chemistry Division, CSIR-National Chemical Laboratory, Pune 411008*; Flat 6, Megha Terrace, Near Wireless Colony, Aundh, Pune 411007 [Tel (020) 2590-2278 (O), 2588-8712 (R), 98-220-74509, 75-070-53053 (M); Fax 2590-2636; Email dranilkumar1956@gmail.com, 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; FASc, FNAE, FIEEEE, FTWAS, Professor, *Department of Electrical Communication Engg., Indian Institute of Science, Bengaluru 560012* [Tel (080) 2293-2281 (O), 2341-5032 (R); Fax 2360-0991; Email anurag@iisc.ac.in; Web <http://iisc.ac.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.**



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@iisc.ac.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, Evolution and Biosafety, Industrial and Food Crops Breeding and Biotechnology; FASc, FNASc, FNAAS, INSA Emeritus Scientist, SKA Institution for Research, Education and Development and NIPGR; 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, 99-584-32895 (M); Email sushil2000_01@yahoo.co.in, sushil2016onwards@gmail.com]; **Medal: Professor SB Saksena Memorial (2002); INSA Honorary Scientist (2011-15); SC: X.**



2010 : KUMARA SWAMY, Kalasa Chandrasekhar Jois (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 chemistry.uohyd.ac.in/~kcksc/]; **SC: III.**





2002 : KUMARAN, Viswanathan (b 1966), PhD, Sp: Chemical Engineering; FASc, FNAE, 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@iisc.ac.in]; **Medal:** INSA Young Scientist (1996); **SC: V.**



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.**



2019: LAHIRI, Goutam Kumar (b 1960), PhD, Sp: Inorganic Chemistry; FASc, FNASc, Professor, *Department of Chemistry, Indian Institute of Technology Bombay, Powai, Mumbai 400076*; Nilgiri Building (B-311), IIT Bombay, Powai, Mumbai 400076 [Tel (022) 2576-7159 (O), 2576-8159 (R), 98-195-81787 (M); Fax 2572-3480; Email lahiri@chem.iitb.ac.in]; **SC: III.**



2005 : LAHIRI MAJUMDER, Arunendra Nath (b 1946), PhD, DSc, Sp: Plant Biochemistry & Molecular Biology, Plant Biotechnology; FASc, FNASc, FNAAS, INSA Senior Scientist, formerly DAE Raja Ramanna Fellow, formerly Senior Professor & Head, *Division of Plant Biology and Acharya 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@jcbose.ac.in, alahirimajumder@yahoo.com, alahirimajumder@gmail.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 Honorary 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); INSA Senior Scientist (2008-13); **SC: IV.**



1993 : LAKHOTIA, Subhash Chandra (b 1945), PhD, Sp: Cytogenetics, Molecular Genetics & Cell Biology, Ayurvedic Biology; FASc, FNASc, BHU Distinguished Professor, *Cytogenetics Laboratory, Department of Zoology, Banaras Hindu University, Varanasi 221005*; P3/4, Ravindra Puri, Lane No 13, Varanasi 221005 [Tel (0542) 236-8145, 236-8457 (Lab), 231-2012 (R), 94-530-48657 (M); Email lakhotia@bhu.ac.in, sclakhotia@yahoo.co.in]; **Medal:** INSA Young Scientist (1975), SL Hora (2002), Aryabhata (2018); INSA Senior Scientist (2016-18); **Council:** Mem 2004-05, VP 2006, 2015-17; 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 & SERB Distinguished 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@cnd.bdu.ac.in, lakshman.cnd@gmail.com; Web <http://www.physicscnd.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, FRSC, Dr. B.P. Godrej Distinguished Professor of Green Chemistry and Sustainability Engineering, *Department of Chemical Engineering, Institute of Chemical Technology, Natbalal Parekh Marg, Matunga, Mumbai 400019*; 501-Palms, 2-2-20/B/8, D.D. Colony, Baghamberpeta, Hyderabad 500013 [Tel (022) 3361-2015 (O), 97-691-01554 (M); Fax 3361-1020; Email lk.mannepalli@ictmumbai.edu.in, lkmannepli3@gmail.com]; **Lecture:** Professor Darshan Ranganathan Memorial (2016); **SC: III.**



2013 : LAL, Rup (*b* 1953), PhD, Sp: Microbial Diversity, Genomics and Metagenomics; 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 ruplal@gmail.com; Web <http://people.du.ac.in/~rlal/>]; **SC: XII.**



2012 : LAVANIA, Umesh Chandra (*b* 1952), PhD, DSc, Sp: General and Molecular Cytogenetics, Molecular Systematics and Chromosome Evolution, Medicinal and Aromatic Plants, Phytotechnologies; 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, Gomi 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.**



2018 : LELE, Ashish Kishore (*b* 1967), PhD, Sp: Chemical Engineering, Polymer Science and Engineering; FNAE, FASc, Senior Vice-President and Head, *Advanced Materials and Alternate Energy Group, Research and Development, Reliance Industries Ltd., Reliance Corporate Park, Navi Mumbai 400709* [Email Ashish.Lele@ril.com]; **SC: V.**





1987 : LELE, Shrikant (b 1943), PhD, Sp: Physical Metallurgy & Materials Science; FASc, FNAsc, FNAE, 377, *Mabhatma 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.**



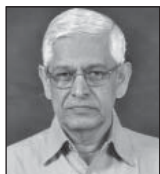
1977 : LUTHRA, Usha Kehar (b 1932), MD (Path & Bac), PhD (Path), Sp: Pathology, Cytopathology, Cancer Research, Medical Research; FRCPath(Lond), FAMS, formerly Additional DG and Director, Institute of Cytology and Preventive Oncology, ICMR; *J-202, Som Vihar, Maj. Som Nath Marg, RK Puram, New Delhi 110022* [Tel (011) 2671-6748 (R); Email ukluthra@hotmail.com]; **SC: XI.**



2004 : MADAN, Mohan (b 1953), PhD, Sp: Agricultural Biotechnology; FNAAS, formerly 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 moham98@hotmail.com]; **SC: XII.**



2011 : MADHUBALA, Rentala (b 1952), PhD, Sp: Molecular Parasitology, Functional Genomics; FASc, FNAsc, FTWAS, Professor, *School of Life Sciences, Jawaharlal Nehru University, New Delhi 110067*; House No A15/28, Vasant Vihar, New Delhi 110057 [Tel (011) 2674-2630, 2616-7676 Ext 4521 (O); Fax 2674-2630; Email madhubala@mail.jnu.ac.in, rentala@hotmail.com]; **Council:** Mem 2019-; **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, FNAsc, 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.isc.ernet.in, giridharmadras@gmail.com]; **SC: V.**



1993 : MAHAJAN, Kushal Kumar (b 1939), PhD, Sp: Radio, Atmospheric and Space Sciences; FASc, INSA Emeritus 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) 2553-6334 (R), 98-100-92120 (M); Email kkmahajan@yahoo.com]; INSA Senior Scientist (2004-09), INSA Honorary Scientist (2010-15); **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, Jeebangir Mervanji 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.**



2018 : MAHAN, MJ (b 1968), PhD, Sp: Hyperbolic Geometry, Geometric Group Theory, Topology of Algebraic Varieties; FASc, JC Bose National Fellow, Full Professor (H), *School of Mathematics, Tata Institute of Fundamental Research, Homi Bhabha Road, Colaba, Mumbai 400005*; Ramakrishna Math and Ramakrishna Mission, Ramakrishna Mission Marg, 12th Road, Khar (West), Mumbai 400052 [Tel (022) 2278-2353 (O), 86-974-06956 (M); Email mahan.mj@gmail.com, mahan@math.tifr.res.in]; **SC: I.**



1995 : MAHARANA, Jnanadeva (b 1945), PhD, Sp: String Theory & Quantum Gravity; FASc, INSA Senior Scientist, 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, *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]; INSA Honorary Scientist (2006-15); **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, Homi 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.**





2019: MAITI, Souvik (b 1971), PhD, Sp: Chemical Biology and Biophysics; Senior Principal Scientist, *CSIR-Institute of Genomics and Integrative Biology, Sukhdev Vihar, Mathura Road, New Delhi 110025*; C-601, F7 Antriksh Greens, Sector-50, Noida 201301 [Tel (011) 2987-9108 (O), 98-111-30093 (M); Fax 2766-7471; Email souvik@igib.res.in]; **SC: X**.



2009 : MAITRA, Uday (b 1957), PhD, Sp: Organic Chemistry, Supramolecular Chemistry, Chemistry of Bile Acids, Organo and Hydrogels; FASc, Professor, *Department of Organic 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@iisc.ac.in; Web <http://www.orgchem.iisc.ac.in/uday-maitra>]; **SC: III**.



2010 : MAJUMDAR, Subeer S (b 1961), PhD, Sp: Transgenic Animals and Endocrinology, Animal Biotechnology; Director, *National Institute of Animal Biotechnology, Opp. Journalist Colony, Near Gowlidoddy Extended, Q City Road, Gachibowli, Hyderabad, Telangana 500032* [Tel (040) 2312-0102 (O), 98-181-70750 (M); Email subeer@nii.ac.in, subeer@niab.org.in]; **SC: VIII**.



2004 : MAJUMDER, Hemanta Kumar (b 1950), PhD, Sp: Molecular Parasitology, Molecular Biology, Biochemistry; FASc, FNASc, FTWAS, NASI Senior Scientist Platinum Jubilee Fellow, formerly DAE Raja Ramanna Fellow and JC Bose National Fellow, *CSIR-Indian Institute of Chemical Biology, 4, Raja SC Mullick Road, Jadavpur, Kolkata 700032*, Adjunct Professor, Department of Biophysics, Molecular Biology and Bio Informatics, Calcutta University and former Working Chairman, WB State Council of S&T, Govt. of West Bengal, Kolkata; Diaganika Samabaya Abasani, Flat F/11, Block AH, Sector II, Salt Lake City, Kolkata 700091 [Tel (033) 2412-3207 (O), 2359-1532 (R), 98-319-26491 (M); Fax 2473-5197; Email hkmajumder@iicb.res.in, hemantamajumder@yahoo.co.in]; **Lecture:** Dr Nitya Anand Endowment (2012); **Council:** Mem 2019-; **SC: VIII**.



2001 : MAJUMDER, Partha Pratim (b 1952), PhD, Sp: Human Genetics, Genetic Epidemiology Biostatistics; FASc, FNASc, Distinguished Professor and Founder, *National Institute of Biomedical Genomics, P.O. Netaji Subhas Sanatorium, 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>]; **Medal:** Golden Jubilee Commemoration (Animal Sc) (2018); **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, INSA Senior Scientist, Professor, *Department of Biotechnology, Delhi Technological University, Main Bawana Road, Delhi 110042*; Flat 4-C, Pocket GG-2, Durgyana 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, CBSH 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; 23, Dakshinapuram, JNU Campus, New Delhi 110067 [Tel (011) 2670-4522 (O), 2674-1370 (R), 98-106-60572 (M); Fax 2674-1586, 2674-2558; Email remsbnm@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; A-41, 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 : MALLIK, Asok Kumar (b 1947), PhD, Sp: Vibration Engineering, Kinematics; FASc, FNASc, FNAE, formerly Professor, IIT Kanpur; P31 CIT Road, Scheme VI (MS), Kolkata 700054 [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, DBT-Distinguished Biotechnology Research Professor, JC Bose National Fellow, *CSIR-Indian Institute of Chemical Biology, 4, Raja SC Mullick Road, Jadavpur, Kolkata 700032*; B-131 Survey Park, Kolkata 700075 [Tel (033) 2499-5717 (O), 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.**



2018 : MANDAL, Gautam (b 1962), PhD, Sp: Quantum Field Theory, String Theory and Gravitational Physics; FASc, Senior Professor, *Department of Theoretical Physics, Tata Institute of Fundamental Research, Homi Bhabha Road, Colaba, Mumbai 400005* [Tel (022) 2278-2429 (O); Fax 2280-4611; Email mandal@theory.tifr.res.in; Web <http://theory.tifr.res.in/~mandal>]; **SC: II.**



2019: MANDAL, Mahitosh (b 1963), PhD, Sp: Cancer Biology; FASc, FNASc, Professor, *School of Medical Science and Technology, Indian Institute of Technology Kharagpur, Kharagpur 721302*; B-132, IIT Campus, Kharagpur 721302 [Tel (03222) 283-578 (O), 283-579 (R), 94-348-96984 (M); Fax 282-221; Email mahitosh@smst.iitkgp.ernet.in, mahitoshm@gmail.com]; **SC: VIII.**



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), 94-325-74488 (M); Email nibirmandal@yahoo.co.in]; **Medal:** INSA Young Scientist (1992); **Council:** Mem 2015-17; **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, Ganeshkhind, Pune 411007* [Tel (020) 2570-8121, 2569-1065 (O); Fax 2569-7756; Email shekhar@nccs.res.in, director@nccs.res.in; Web <http://www.nccs.res.in/drSCM-Webpage/shekhar.html>]; **Lecture:** BC Guha Memorial (2017); **SC: X.**



2011 : MANNA, Indranil (b 1961) PhD, Sp: Materials Engineering, Phase Transformation, Surface Engineering, Bainitic Steel, Nanofluid; FTWAS, Professor, *Metallurgical & Materials Engineering Department, Indian Institute of Technology Kharagpur, Kharagpur 721302*; formerly Director, IIT Kanpur and formerly Director, CSIR-CGCRI, Kolkata [Tel (03222) 283-266 (O), 283-267 (R); Email imanna@metal.iitkgp.ernet.in, imanna@iitk.ac.in]; **Council:** Ad Mem 2016; **SC: V.**

1985 : MANOHARAN, Periakaruppan Thangiah (b 1935), PhD, Sp: Physical Inorganic Chemistry, Nanoscience & Spectroscopy; FASc, FTWAS, Distinguished Fellow, *Department of Chemistry, Indian Institute of Technology Madras, Chennai 600036*; ‘Sriskanda’, 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); INSA Senior Scientist (2012-15), INSA Honorary Scientist (2015-18); **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); Email mailboxgm@gmail.com, mailbox_gm@rediffmail.com]; **Medal:** Chandrakala Hora Memorial (2010); **Council:** Mem 2010-12; **SC: VIII.**



1984 : MASHELKAR, Raghunath Anant (b 1943), PhD, DSc (bc), Sp: Polymer Science and Engineering; FASc, FNAsc, FNAE, FTWAS, FRS, Foreign Assoc US NAS, Foreign Assoc US Nat Acad Engg, Foreign Mem Royal Acad Engg, National Research Professor, *3rd Floor, Adams Court, Above Bank of Baroda, Pune 411045*; formerly Secretary, DSIR & DG, CSIR, New Delhi; ‘Raghunath’, D-4, Varsha Park, Baner, Pune 411045 [Tel (020) 4692-5703 (O); Email ram@mashelkar.com]; **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 Shanbhi, 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 Shanbhi, 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), 96-213-95580 (M); Email asha.mathur@gmail.com]; **SC: XI.**



1999 : MATHUR, Deepak (*b* 1952), PhD, Sp: Atomic and Molecular Physics, Biological Physics; FASc, FTWAS, JC Bose National Fellow, *Department of Atomic and Molecular Physics, LG1, Academic Block 5, MIT Campus, Manipal University, Manipal 576104*; c/o House No. 1, IIT Indore, Simrol, Indore 453552 [Tel (0820) 292-5071 (O), 98-691-15322 (R); Email atmol1@gmail.com, deepak.mathur@manipal.edu]; **Council:** Mem 2014-16; **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, Bioclimatology & 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), Room No. 2008, 2nd Floor, Convergence Block, AIIMS, New Delhi 110029; former Professor & Founder Head, Department of Transplant Immunology & Immunogenetics, AIIMS, New Delhi; *A563E, Sushant Lok I, Block A, Gurugram 122001* [Tel (011) 2654-9173 (O), (0124) 408-8428 (R), 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, University Distinguished Professor and Dr Kallam Anji Reddy 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]; **Professorship:** INSA-Srinivasa Ramanujan Research Professor (1992-97); **Medal:** Golden Jubilee Commemoration (Chem Sc) (1989), CV Raman (2003), INSA Medal for Promotion & Service to Science (2017); **Lecture:** JL Nehru Birth Centenary (1990); **Council:** Mem 1989-91, VP 1995-97, Pres 1999-2001; **SC: III.**

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:** DN 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.**



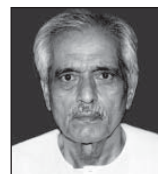
2006 : MISHRA, Gyan Chandra (b 1947), PhD, Sp: Immunology; Eminent Scientist, *National Centre for Cell Science, NCCS Complex, Pune University Campus, Ganeshkhind, Pune 411007*; Director's Bungalow, NCCS Campus, Pune University Campus, Ganeshkhind, Pune 411007 [Tel (020) 2570-8248 (O), 2569-1064 (R); Fax 2569-7756; Email gcmishra@nccs.res.in; Web <http://www.web.nccs.res.in>]; **Council:** Ad Mem 2019; **SC: X.**



2015 : MISHRA, Rakesh Kumar (b 1961), PhD, Sp: Genomics of the non-coding DNA & Epigenetic Regulation and Development; FASc, FNASc, Director, *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 411067* [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, IInd Stage, Bengaluru 560009 [Tel (080) 2293-2712 (O), 94-498-17021 (M); Fax 2360-0146; Email gadadhar.misra@gmail.com, gm@iisc.ac.in]; **Council:** VP 2018-; **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 Bareilly 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, formerly Professor, Theory Division, Saha Institute of Nuclear Physics, Sector 1, Block AF, Bidhan Nagar, Kolkata 700064; *6, Panditita Terrace, Kolkata 700029* [Tel (033) 2475-3926 (R); Email parthasinp@gmail.com]; **SC: II.**



1987 : MITRA, Samaresh (b 1940), DPhil, Sp: Bioinorganic Chemistry, Biological Chemistry; FASc, FNASc, CSIR-Indian Institute of Chemical Biology, Kolkata 700032; formerly Senior Professor, TIFR, Mumbai; *Panchami 508, Udita, 1050/1, Survey Park, Kolkata 700075* [Tel (033) 2418-8209 (R), 98-312-73257 (M); Email samaresh.mitra@gmail.com, mitrasamresh@yahoo.com]; **Lecture:** Professor S Swaminathan 60th Birthday Commemoration (1998); INSA Senior Scientist (2011-15); **SC: III.**



2019: MITRA, Sushmita (b 1962), PhD, Sp: Computer Science; FNASc, FNAE, FIEEE, Professor, *Machine Intelligence Unit, Indian Statistical Institute, 203 B.T. Road, Kolkata 700108*; AE 590, Salt Lake Sector I, Kolkata 700064 [Tel (033) 2575-3102 (O), 94-333-53507 (M); Fax 2578-3357; Email sushmita@isical.ac.in]; **SC: V.**



1988 : MITTAL, Jai Pal (b 1940), PhD (Notre Dame, USA), Sp: Radiation & Photochemistry, Chemical Dynamics & Laser Chemistry; FASc, FNASc, FTWAS, INSA Senior 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, Robini Coop. Hsg Society, Sector 9-A, Vasbi, 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 2014-16; **SC: III.**

2011 : MITTAL, Sanjay (b 1968), PhD, Sp: Unsteady Aerodynamics, Finite Elements, High Performance Computing; FASc, FNAE, *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.**



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.drmohans.com, www.mdrf.in]; **SC: XI.**



2000 : MOHAN RAO, Chintalagiri (b 1954) PhD, Sp: Biophysical Chemistry and Molecular Biology, Protein Folding in Health and Disease, Molecular Diagnostics, Microfluidics and Nanobiology; FASc, FNASc, FTWAS, CSIR Distinguished Scientist and JC Bose National Fellow, *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) 2719-5631/30 (O), 2720-3931 (R); Fax 2719-5633; Email mohan@ccmb.res.in; Web <http://www.ccmb.res.in/staff/mohan/>]; **Lecture:** BC Guha Memorial (2014); **Council:** Mem 2010-12; **SC: X.**



2017 : MOHANTY, Bedangadas (b 1973), PhD, Sp: Experimental High Energy Physics, Phenomenology of Quark Gluon Plasma, QCD Phase Diagram and Direct Dark Matter Search; FASc, FNASc, JC Bose National Fellow, Professor and Chairman, *School of Physical Sciences and Dean Faculty Affairs, National Institute of Science Education and Research Bhubaneswar, Jatni 752050, Odisha*; E-40, NISER, Jatni 752050, Odisha [Tel (0674) 249-4266 (O), 249-4200 (R), 88-955-84872 (M); Fax 249-4004; Email bedanga@niser.ac.in, bedanga@gmail.com]; **Medal:** INSA Young Scientist (2003), SS Bhatnagar (2015); **SC: II.**



2013 : MOHANTY, Debasisa (b 1966), PhD, Sp: Computational Biology & Bioinformatics; FASc, FNASc, Staff Scientist-VII, *National Institute of Immunology, Aruna Asaf Ali Marg, New Delhi 110067*; Apt No H-5, 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, *School of Earth, Ocean & Climate Sciences (SEOCS), Indian Institute of Technology Bhubaneswar (IITBBS) SBS Building, Argul, Khurda-Jatni Road, Khurda 752050, Odisha*; Plot No. 1579/2558, Lane No.4, BM Nagar, Jagamara, Bhubaneswar 751030 [Tel 70-644-19596 (O), (0674) 235-2164 (R), 87-638-62775, 98-689-57957 (M); Fax 230-6203; Email ucmohanty@gmail.com, ucmohanty@iitbbs.ac.in]; **SC: IV.**



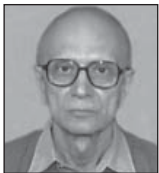
2013 : MOHAPATRA, Trilochan (b 1962), PhD, Sp: Agricultural Biotechnology; FNASc, FNAAS, Secretary, *Department of Agricultural Research and Education (DARE)* and Director General, *Indian Council of Agricultural Research (ICAR), Room No. 108, Krishi Bhavan, New Delhi 110001*; B-8, IARI Campus, Pusa, New Delhi 110012 [Tel (011) 2338-2629, 2338-6711 (O), 2584-6420 (R), 78-400-00542 (M); Fax 2338-4773; Email dg.icar@nic.in]; **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, DAE Raja Ramanna Fellow, *Applied Nuclear Physics Division, Saha Institute of Nuclear Physics, Kolkata 700064*; NRE 292, New Town Heights, Action Area III, New Town, Kolkata 700135 [Tel (033) 2337-5345 Ext 1733 (O), 4064-8539 (R), 99-875-37701 (M); Email nkm@tifr.res.in, nabak.mondal@gmail.com]; **SC: II.**



2018 : MOORTHY, Jarugu Narasimha (b 1964), PhD, Sp: Physical Organic Chemistry; FASc, FRSC, JC Bose National Fellow, *Department of Chemistry, Indian Institute of Technology Kanpur, Kanpur 208016*; House No. 462, Indian Institute of Technology Kanpur, Kanpur 208016 [Tel (0512) 259-7438 (O), 259-8527 (R), 94-503-43016 (M); Fax 259-6806; Email moorthy@iitk.ac.in; Web <http://home.iitk.ac.in/~moorthy/>]; **SC: III.**



1998 : MOULIK, Satya Priya (b 1936), DSc, PhD, Sp: Surface & Biophysical Chemistry; JU Emeritus Professor & INSA Emeritus Scientist, *Centre for Surface Science, Department of Chemistry, Jadavpur University, Kolkata 700032*; 202, JU EMPL COOP, Panchasayar, Kolkata 700094 [Tel (033) 2414-6411 (O), 94-339-57837 (M); Fax 2414-6266; Email spmcss@yahoo.com, spmcss@gmail.com]; **Lecture:** Professor S Swaminathan 60th Birthday Commemoration (2004); INSA Honorary Scientist (2006-15); **SC: III.**



2017 : MUGESH, Govindasamy (b 1970), PhD, Sp: Inorganic Chemistry; FASc, FNASc, FRSC, Professor, *Department of Inorganic and Physical Chemistry, Indian Institute of Science, Bengaluru 560012*; HE-242, New Housing Colony, Indian Institute of Science Campus, Bengaluru 560012 [Tel (080) 2360-2566 (O), 2360-5888 (R), 94-484-50108 (M); Fax 2360-2566; Email mugesh@iisc.ac.in]; **SC: III.**

2018 : MUJUMDAR, Pradeep Pralhad (*b* 1958), PhD, Sp: Hydrology; FASc, FNAE, Professor, *Department of Civil Engineering, Indian Institute of Science, Bengaluru 560012*; E-32, New Housing Colony, Indian Institute of Science, Bengaluru 560012 [Tel (080) 2293-2669, 2293-2323 (O), 2360-2668 (R), 98-452-15612 (M); Fax 2360-0290, 2360-0404; Email pradeep@iisc.ac.in; Web <http://civil.iisc.ernet.in/~pradeepj>]; **SC: IV.**



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 : MUKERJEE, Sunil Kumar (*b* 1926), PhD, Sp: Organic Chemistry & Agrochemicals; FRSC, FNAAS, 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, Debashis (*b* 1946), PhD, DSc (*hc*), Sp: Theoretical Chemistry, Theoretical Spectroscopy; FASc, FNASc, FTWAS, Emeritus Professor, SERB Distinguished Fellow 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, *Department of Chemistry, Indian Institute of Technology Kanpur, Kanpur 208016*; Elita Garden Vista, Block 5 Flat No. 11-01, Action Area III, Rajarhat, New Town, Kolkata 700135 [Tel (0512) 259-7437 (O), 99-033-82482 (M); Fax 259-7436; Email rnm@iitk.ac.in, rnath.mukherjee@gmail.com]; **SC: III.**



2007 : MUKHERJEE, Sunil Kumar (*b* 1950), PhD, Sp: Plant Molecular Biology; FASc, FNASc, INSA Senior Scientist, *Advanced Center of Plant Virology, Division of Plant Pathology, ICAR-LARI, New Delhi 110012*; 7145, B 10, Vasant Kunj, New Delhi 110070 [Tel (011) 2689-5815 (R), 98-719-95629 (M); 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, *Physics Department, 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*; H-4, 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, Dhruvajyoti (b 1938), PhD, DIC, Sp: Structural & Precambrian Geology; FASc, FNASc, INSA Emeritus Scientist, Raman Centre for Applied and Interdisciplinary Sciences, 16 A Jheel Road, Kolkata 700075; *G-7 MIG Hsg Estate, 25/3 Raja Manindra Road, Kolkata 700037* [Tel (033) 2556-8099 (R), 94-330-92581 (M); Email dhruva_38@yahoo.co.uk]; **Medal:** Professor K Naha Memorial (2001); INSA Senior Scientist (2003-08), INSA Honorary Scientist (2008-15); **Council:** Mem 1997-99; **SC: IV**.



2016 : MUKHOPADHYAY, Sangita (b 1966), PhD, Sp: Immunology and Infection Biology; FNASc, FASc, Staff Scientist VI, *Centre for DNA Fingerprinting and Diagnostics, Laboratory Block: Tuljaiguda (Opp MJ Market), Nampally, Hyderabad 500001*; 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, Narasimhaiengar (b 1939), PhD, Sp: Mechanics, Optics, Mathematical Physics; FASc, FNASc, FTWAS, INSA Distinguished 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, Honorary Professor, *Department of Biochemistry, Indian Institute of Science, Bengaluru 560012*; No. 8/9, 4th Cross, MLA layout, RMV II Stage, Bengaluru 560094 [Tel (080) 2293-2235, 2360-0278 (O), 4866-6966 (R); Fax 2360-0814, 2360-0683; Email kmbc@iisc.ac.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@iisc.ac.in; Web <http://www.mecheng.iisc.ac.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, formerly Jawaharlal Nehru Chair, School of Life Sciences, University of Hyderabad, Hyderabad 500046; formerly Honorary Professor, South Asian University, New Delhi; #303, 7-1-69/1/25, DK Road, Ameerpet, Hyderabad 500016 [Tel 98-109-27705 (M); Email murali9810@hotmail.com, kambadur2015@gmail.com]; **Lecture:** Professor MRN Prasad Memorial (2010); **Council:** Mem 1998-2000; **SC: VIII.**



1997 : MURTHY, Mathur Ramabhadrasastry Narasimha (*b* 1950), PhD, Sp: X-ray Diffraction, Macromolecular Crystallography, Protein Structure and Function, Virus Structure and Assembly; FASc, FAAS, FTWAS, INSA Senior Scientist, Professor, *Molecular Biophysics Unit, Indian Institute of Science, Bengaluru 560012*; 531, Beladingalu, 14th Main Gokul, I Stage, I Phase, Bengaluru 560054 [Tel (080) 2293-3219 (O), 2337-2981 (R), 99-003-13742 (M); Fax 2360-0535; Email mrn@mbu.ac.in, mbumrn@gmail.com]; **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 murty@iitm.ac.in, murty.iitm@gmail.com; Web www.mme.iitm.ac.in/murty]; **Medal:** INSA Young Scientist (1995); **SC: VI.**



2015 : MURUGAVEL, Ramaswamy (*b* 1964), PhD, Sp: Inorganic Chemistry; FASc, FRSC, Biswas Palepu Distinguished Chair Professor, *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 : MUTHUKKARUPPAN, Veerappan (*b* 1934), PhD, Sp: Immunology, Ocular Diseases, Stem Cell Biology; 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.**

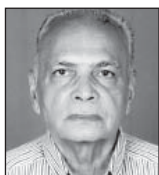


1991 : NADKARNI, Mahendra Ganpatrao (*b* 1939), PhD, Sp: Harmonic Analysis & Ergodic Theory; FASc, Professor Emeritus, Department of Mathematics, University of Mumbai, Kalina, Mumbai 400098; *C-31, Mangiresesh, M M Chotani Road, Mahim, Mumbai 400016* [Tel (022) 2652-8871 (O), 2444-1093 (R); Email mgnadkarni@gmail.com];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





1990 : NAG, Kamalaksha (b 1942), PhD, DSc (*hc*), Sp: Inorganic Chemistry; FASc, formerly Emeritus & Senior Professor, Indian Association for the Cultivation of Science, Kolkata; B-26, Jayashri Park, Behala, Kolkata 700034 [Tel (033) 2406-6575 (R), 96-745-13756 (M); Email kamalakshanag@gmail.com, kniacs@yahoo.com, ickn@iacs.res.in]; INSA Senior Scientist (2008-12), INSA Honorary Scientist (2013-15); **SC: III.**



1981 : NAGABUSHANAM, 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.**



2017 : NAGARAJ, Donihakalu Shankar (b 1958), PhD, Sp: Algebraic Geometry; FASc, FNAsc, Professor, Indian Institute of Science Education and Research Tirupati, Karakambadi Road, Rami Reddy Nagar, Mangalam (P.O.), Andhra Pradesh 517507; J-3, Shivani, Block II, 40, East Coast Road, Thiruvanniyur, Chennai 600041 [Tel (0877) 250-0421 (O), 2451-6393 (R), 96-770-30434 (M); Email dsn@imsc.res.in, dsn@iisertirupati.ac.in]; **SC: I.**



1998 : NAGARAJ, Ramakrishnan (b 1953), PhD, Sp: Peptide Biochemistry, Membrane Biochemistry; 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 nrjccmb@gmail.com; Web http://www.ccmb.res.in]; **Medal:** INSA Young Scientist (1981); **Lecture:** Dr Nitya Anand Endowment (1997); **SC: X.**



2004 : NAGARAJA, Valakunja (b1954), PhD, Sp: Molecular Biology of Mycobacteria, Regulation of Gene Expression and Protein-DNA Interactions; President, Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Jakkur, Bengaluru 560064 and Professor, Department of Microbiology and Cell Biology, Indian Institute of Science, Bengaluru 560012; 'Sumeru' No. 19, NTI Layout, Adj. Dollar Colony, RMV Extn II Stage, Bengaluru 560094 [Tel (080) 2208-2752, 2362-2672 (JNCASR), 2360-0668 (IISc) (O), 2341-8256 (R); Fax 2208-2758, 2360-2697; Email president@jncasr.ac.in, vraj@iisc.ac.in]; **Medal:** JC Bose (2010); **Lecture:** Dr Nitya Anand Endowment (2009); **SC:X.**



1977 : NAGARAJAN, Kuppuswamy (b1930), 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; Block 1, Flat 007, Serene Urbana, Kannamangala, Bangalore Rural, Karnataka 562110 [Tel (080) 6735-6112 Ext 9212, (O), 98-867-13958 (M); Email n_kuppuswamy@hotmail.com, dknb69@yahoo.com, k_nagarajan@hikal.com]; **SC: III.**

2000 : NAGARAJAN, Radhakrishnan (b 1942), MSc (Prev), Sp: Superconductivity, Valence Fluctuation, Mossbauer 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, najgan2006@gmail.com]; **Lecture:** INSA Prize for Materials Science (2003); **SC: II.**



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, 3rd Milestone, Faridabad-Gurgaon Expressway, PO Box # 4, Faridabad 121001*; A-082, DLF, Belvedere Towers, Phase-II, Cyber City, Gurugram 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.**



2019: NANDICOORI, Vinay Kumar (b 1969), PhD, Sp: Microbiology, Molecular Biology and Cell Signalling; FNAsc, FASc, Staff Scientist VII, *Signal Transduction Lab 1, National Institute of Immunology, Aruna Asaf Ali Marg, New Delhi 110067*; A-12, National Institute of Immunology, Aruna Asaf Ali Marg, New Delhi 110067 [Tel (011) 2670-3789 (O), 98-914-97516 (M); Fax 2674-2125; Email vinaykn@nii.ac.in]; **SC: IX.**



2009 : NANGIA, Ashwini (b 1960), PhD, Sp: Organic Chemistry, Crystal Engineering, Pharmaceutical Cocrystals; Director, *CSIR-National Chemical Laboratory, Pune 411008*; formerly Professor, School of Chemistry, University of Hyderabad, Hyderabad 500046 [Tel (020) 2590-2600 (O), 98-481-55416 (M); Fax 2590-2601; Email ashwini.nangia@gmail.com, ak.nangia@ncl.res.in]; **Medal:** Golden Jubilee Commemoration (Chem Sc) (2016); **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 Paleoceanography; FASc, FNAsc, FTWAS, Distinguished Scientist & J.C. Bose Fellow, Council of Scientific & Industrial Research (Ministry of Science & Technology, Government of India), 2, Rafi Marg, New Delhi 110001; C-204, Sunrise Greens, Indirapuram, Ghaziabad 201014 [Tel (011) 2347-0222 (O), (0120) 629-1509 (R), 96-433-14093 (M); 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 narahari@iisc.ac.in; Web <http://lcm.csa.iisc.ernet.in/hari>]; **SC: V.**



1978 : NARAIN, Prem (*b* 1934), PhD, DSc (Edinburgh), Sp: Statistical Genetics and Agricultural Statistics; FASc, FNASc, FNAAS, formerly Professor Emeritus, CSIR, Dean & Joint Director (Education), IARI & Director, IASRI; *29278 Glen Oaks Blvd. W., Farmington Hills, MI 48334-2932, USA* [Email narainprem@hotmail.com, premn877@gmail.com]; **Lecture:** Dr GP Chatterjee Memorial (1987); INSA Honorary Scientist (2006-15); **SC: XII.**



1979 : NARASIMHA, Roddam (*b* 1933), PhD (Caltech), DIIsc, AIISc, PhD (*bc*), Sp: Aerospace & Atmospheric Fluid Mechanics; FASc, FTWAS, FRS, Foreign Assoc, US Nat Acad Engg, Foreign Assoc US NAS, Foreign Hon. Member, American Academy of Arts and Sciences, Honorary Professor, *Engineering Mechanics Unit, Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), 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@alumni.iisc.ac.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; *C/o R.Ganapathy, R.House No. 2, Divya Swapna Complex, Dr. C. Gidvani Marg, Chembur, Mumbai 400074* [Tel (022) 2520-1512 (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@iisc.ac.in]; **Council:** Mem 2018-; **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, UGC-DAE Consortium for Scientific Research, University Campus, Khandwa Road, Indore 452001; formerly Director Grade Scientist, NPL, New Delhi; *211-212 Peace Point Colony, Behind Queens College, Khandwa Road, Indore 452001*; 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 jvn@iucaa.in]; **Medal:** INSA-Vainu Bappu Memorial (1988); Indira Gandhi Prize for Popularization of Science (1990); **Council:** Mem 1987-88; **SC: II.**



2017 : NATARAJAN, Saradha (*b* 1954), PhD, Sp: Number Theory; INSA Senior Scientist, University of Mumbai-Department of Atomic Energy, Centre for Excellence in Basic Sciences, Mumbai 400098; B-706, Everard Towers, Everard Nagar, Eastern Express Highway, Sion, Mumbai 400022 [Tel (022) 2409-4239 (O), 98-923-61908 (M); Email saradha54@gmail.com]; **SC: I.**



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@iisc.ac.in, rajan1960@gmail.com; Web <http://sscu.iisc.ac.in/faculty/prof-srinivasan-natarajan/>]; **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, Senior 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), SK Mitra Memorial (2018); **Council:** F Sec 1995-97; **SC: XI.**





2014 : NAUTIYAL, Chandra Shekhar (b 1956), PhD, Sp: Plant-Microbe Interactions & Soil Microbiology; FNASc, FNAAS, JC Bose National Fellow, *Vice-Chancellor, Doon University, Motbrowala Road, Kedarpur, Dehradun 248001*; formerly Director, CSIR-National Botanical Research Institute, Rana Pratap Marg, PO Box 436, Lucknow 226001; C-50, Nirala Nagar, Lucknow 226001 [Tel 63-959-22202, 94-155-11111 (M); Email nautiyalnri@lycos.com, csnnri@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; Chairman, Pathology and Director Hospital Laboratory Services, Faculty of Medicine, Kuwait University; X-29, Hauz Khas, New Delhi 110016 [Tel 70-424-65558 (M), 2656-8171 (R), Fax 2656-8171(R); Email dr_ncnayak@yahoo.com]; **SC: XI.**



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.**



1985 : PADMANABAN, Govindarajan (b 1938), PhD, DSc (*hc*), Sp: Biochemistry, Molecular Biology & Malaria; FASc, FNASc, 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@iisc.ac.in]; **Professorship:** INSA-CV Raman Research Professor (1991-96); **Medal:** SS Bhatnagar (1999); **Visiting Fellowship:** JL Nehru Birth Centenary (1991); INSA Senior Scientist (2013-15); **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, Ganeshkhind, 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 (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 (bc) Sp: Natural Products & Herbal Drugs; FNASc, formerly Director & Distinguished Fellow (CSIR), IICB, Kolkata; *Megbamallar, Flat No 8F/2, 18/3, Gariabat 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), INSA Honorary Scientist (2009-15); **Council:** Ad Mem 1988-91, 1995; **SC: III.**



2016 : PAL, Amlan Jyoti (b 1960), PhD, Sp: Organic Electronics, Materials Engineering, Device Physics; FASc, FNAE, FNASc, JC Bose National Fellow, 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 sspajp@iacs.res.in, amlan.pal@gmail.com; Web http://iacs.res.in/faculty-profile.html?id=73]; **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; FNASc, FNAE, FIEEE, *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; Web www.isical.ac.in/~nikhil]; **SC: V.**



1994 : PAL, Sankar Kumar (b 1950), PhD (Cal & Lond), DIC, Sp: Computer Science, Soft Computing and Machine Intelligence, Pattern Recognition and Image/Video Processing, Fuzzy Systems & Neural Learning, Data Mining and Social Network Analysis, Bioinformatics, Cognitive Machines and Machine-Mind Development; FNASc, FASc, FNAE, FTWAS, FIEEE, INSA Distinguished Professor, Emeritus Professor, formerly Distinguished Scientist and Director, *Indian Statistical Institute, 203, BT Road, Kolkata 700108*, formerly DAE Raja Ramanna Fellow; B-4, Lake View Park, PO ISI, Kolkata 700108 [Tel (033) 2575-2041 (D), 2575-2040, 2575-3100 (O), 2464-8775, 2577-2030 (R); Fax 2578-8699, 2578-3357; Email sankar@isical.ac.in, sankarpal@yahoo.com; Web http://www.isical.ac.in/~sankar]; **Medal:** SH Zaheer (2001); **Lecture:** JL Nehru Birth Centenary (2017); **SC: V.**





2003 : PAL, Sourav (*b* 1955), PhD, Sp: Theoretical Chemistry, Electronic Structure Theory, Ab initio Quantum Chemistry; FASc, FNASc, FRSC, Director, *Indian Institute of Science Education and Research, Kolkata, Mohanpur 741246, Nadia, West Bengal*; Director's Bungalow, IISER Kolkata campus, Mohanpur 741246, West Bengal [Tel (033) 6634-0012 (O), 6634-0013 (R); Fax 2502-8002; Email s.pal@iiserkol.ac.in, s.pal@ncl.res.in, spal@chem.iitb.ac.in; Web <http://www.chem.iitb.ac.in>, www.iiserkol.ac.in]; **Medal:** INSA Young Scientist (1987); **Lecture:** Dr Jagdish Shankar Memorial (2006); Professor Sadhan Basu Memorial (2014); **Council:** Mem 2018-; **SC: III.**



2014 : PALANIANDAVAR, Mallayan (*b* 1951), PhD, Sp: 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; FASc, FRSC, *Department of Chemistry, Bharathidasan University, Tiruchirappalli 620023*; 10, Gokulam Colony, Tiruchirappalli 620023 [Tel (0431) 245-7510 (R), 94-436-44758 (M); Email palanim51@yahoo.com, palaniandavarm@gmail.com, palaniandavar@bdu.ac.in]; **SC: III.**



2014 : PALIT, Dipak Kumar (*b* 1957), PhD, Sp: Radiation and Photochemistry, Ultrafast Spectroscopy and Chemical Reaction Dynamics; FASc, FNASc, Visiting Professor, *UM-DAE Centre for Excellence in Basic Sciences, University of Mumbai, Kalina Campus, Santacruz (E), Mumbai 400098*; Flat No. B22-03, Neptune Building, Suncity Housing Complex, A.S. Marg, Powai, Mumbai 400076 [Tel (022) 2557-1283 (R), 99-691-49589 (M); Email palitdk@gmail.com]; **SC: III.**



2013 : PALNI, Lok Man Singh (*b* 1953), PhD, Sp: Plant Physiology & Biotechnology, Plant-Microbe Interactions, Himalayan Issues; FNASc, FNAAS, Professor & Vice Chancellor, *Graphic Era (Deemed) University, Clement Town, Dehradun 248002*; formerly Director, GB Pant National Institute of Himalayan Environment & Sustainable Development, Almora; Flat 1-A/B, Riturain, Woldorf Compound, Nr. Vijaya Bank, Nainital 263001, Uttarakhand [Tel 84-759-96514, 94-567-48720 (M); Email lmspalni@rediffmail.com]; **SC: VII.**



2018 : PANDA, Dulal (*b* 1964), PhD, Sp: Biochemistry, Cell Biology and Biophysics; FNASc, FASc, Chair Professor, *Department of Biosciences & Bioengineering, Indian Institute of Technology Bombay, Mumbai 400076*; Apt B245, ARAVALI, Hill Side, Indian Institute of Technology Bombay, Mumbai 400076 [Tel (022) 2576-7838, 2576-4796 (O), 2572-0281 (R), 98-203-91591 (M); Fax 2572-3480; Email panda@iitb.ac.in]; **SC: X.**



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; FASc, FNASc, JC Bose National Fellow, 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, Ravindrapuri Extension, Varanasi 221005 [Tel (0542) 670-1790 (O), 231-4658 (R), 94-530-48510 (M); Fax 236-8174, 236-8428; Email dpandey_bhu@yahoo.co.in, dp.mst1979@gmail.com]; **Medal:** INSA Young Scientist (1980); **Council:** Mem 2016-17; **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, gp8577@gmail.com; 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, Mem 2017-; **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, 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.**



2017 : PANDIT, Maharaj Krishan (*b* 1958), PhD, Sp: Plant Sciences, Ecogenomics, Conservation Biology; FNASc, Dean, Faculty of Science, Professor & Head, Department of Environmental Studies & Director, CISMHE, University of Delhi, Delhi; L-3/19, *DLF Phase 2, Gurugram 122002* [Tel (011) 2766-7125 (O), (0124) 420-1173 (R), 98-110-47018 (M); Email mkpandit@cismhe.org, rajkpandit@gmail.com; Web www.maharajpandit.com]; **SC: VII.**





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), 2664-7689 (R); Fax 2360-2602; Email rahul@iisc.ac.in; Web <http://www.physics.iisc.ac.in/~rahul/>]; **Medal:** INSA Young Scientist (1988); **SC: II.**



2009 : PANDITA, Pran Nath (b 1949), PhD, Sp: Theoretical High Energy Physics; FASc, FNASc, INSA Senior Scientist, *Centre for High Energy Physics, Indian Institute of Science, Bengaluru 560012*; former Professor and Head & JC Bose National Fellow, Department of Physics, North Eastern Hill University, Mawkynroh Umshing, Shillong 793022; H.No. 10, Lane 2, Bharat Nagar, Bantalab, Jammu 181123 [Tel (080) 2293-2396 (O), 94-361-02186 (M); Fax 2360-0106; Email pandita@associates.iucaa.in]; **SC: II.**



1986 : PANDYA, Sudhir Pradyumna (b 1928), PhD, Sp: Nuclear Physics; FASc, 26, *Mithila Society, Near Shreyas Foundation, Ambawadi, Ahmedabad 380001* [Email sudhir.pandya@yahoo.com]; INSA Senior Scientist (1989-91); **SC: II.**



2018 : PARAMESWARAN, Aryampilly Jayanthan (b 1962), PhD, Sp: Algebraic Geometry; FASc, Professor (I), *School of Mathematics, Tata Institute of Fundamental Research, Homi Bhabha Road, Colaba, Mumbai 400005*; 102 Satyendra, TIFR Housing Colony, Homi Bhabha Road, Colaba, Mumbai 400005 [Tel (022) 2278-3222 (O), 90-041-99416 (M); Email param@math.tifr.res.in]; **Medal:** INSA Young Scientist (1994); **SC: I.**



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]; **Council:** Mem 2019-; **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, *CSIR-Centre for Cellular & Molecular Biology, Uppal Road, Hyderabad 500007*; 103, Vinay Vihar, Str No 11, Tarnaka, Hyderabad 500017 [Tel 98-850-86220 (M); Email veenap@csircmb.org, veenaparnaik@gmail.com]; INSA Senior Scientist (2016-18); **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, LARI, 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: Earth and Planetary Science, Mineralogy, High-Pressure Mineral Physics, Nanogeoscience, Materials Science; FRSC, Adjunct Professor, School of Natural and Engineering Sciences, National Institute of Advanced Studies, Indian Institute of Science Campus, Bengaluru 560012; *"Anannya", T-121, 35th Cross, 14th Main, 4th T Block, Jayanagar, Bengaluru 560041* [Tel 78-936-15248 (M); Email gpsarathy1958@yahoo.com, drg.parthasarathy@gmail.com]; **SC: IV.**



1976 : PARTHASARATHY, Kalyanapuram Rangachari (b 1936), PhD, Sp: Probability Theory & Quantum Information Theory; FASc, FNAsc, FTWAS, Emeritus Scientist (formerly Distinguished Scientist), *Indian Statistical Institute, 7, SJS Sansamval Marg, New Delhi 110016*; A-51, Gyandeept Apts, Plot 8, Mayur Vihar, Phase I, Delhi 110091 [Tel (011) 4149-3923 (O), 4984-6959 (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, Rajagopalan (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)]; INSA Senior Scientist (2016-18); **SC: I.**



1995 : PARTHASARATHY, Thiruvengkatachari (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, Honorary Professor, Indian Institute of Science Education and Research, Mohali; INSA Emeritus Scientist; Professor, Ashoka University, Sonapat (Haryana); 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); INSA Honorary Scientist (2017-18); **Council:** Mem 2015-17; **SC: I.**





2015 : PATHAK, Himanshu (b 1965), PhD, Sp: Agricultural Sciences; FNASc, FNAAS, Director, *ICAR-National Rice Research Institute, Cuttack, Odisha 753006*; Director's Bunglow, VII/1 NRRI, Cuttack, Odisha 753006 [Tel (0671) 236-7759 (O), 94-375-79257 (M); Email hpathak.iari@gmail.com]; **Medal:** Silver Jubilee Commemoration (2016); **SC: XII.**



2009 : PATHAK, Kare Narain (b 1941), PhD, Sp: Condensed Matter Physics, Solid State Physics; FASc, FNASc, formerly VC & Professor Emeritus, NASI Platinum Jubilee Fellow (Senior Scientist), *Department of Physics, Panjab University, Chandigarh 160014* [Tel (0172) 253-4467 (O), 269-9944 (R); Fax 278-3336; Email pathak@pu.ac.in, knpathak26@gmail.com]; INSA Senior Scientist (2011-15); **Council:** Mem 2014-16; **SC: II.**



2019: PATI, Swapan Kumar (b 1968), PhD, Sp: Solid State Sciences; FASc, FNASc, FTWAS, Professor, *Theoretical Sciences Unit, Jawaharlal Nebru Centre for Advanced Scientific Research (JNCASR), Jakkur Campus, Jakkur, Bengaluru 560064; #47, IIIrd Phase, Royal Enclave, Srirampura, Jakkur, Bengaluru 560064* [Tel (080) 2208-2839 (O), 94-485-60474 (M); Fax 2208-2767; Email pati@jncastr.ac.in; Web www.jncastr.ac.in/pati/]; **SC: III.**



1992 : PATNAIK, Lalit Mohan (b 1946), PhD, DSc, Sp: Computer Science and Engineering, Electronics & Information Technology; FASc, FNASc, FNAE, FTWAS, INSA Senior Scientist & Adjunct Professor, *National Institute of Advanced Studies, Bengaluru 560012*; formerly VC, Defence Institute of Advanced Technology, Pune; Apartment No 313, Sriniket 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), 90-073-89217 (M); Email dalimpaul@yahoo.co.in]; **SC: IV.**



2018 : PAUL, Vinod Kumar (b 1955), MBBS, MD, PhD, Sp: Pediatrics, Health Sciences, Basic and Clinical Sciences / Public Health; FAMS, FNASc, FASc, Member, *National Institution for Transforming India, NITI Aayog, Government of India, New Delhi 110001* [Tel (011) 2309-6809 (O), 2658-9702 (R), 98-110-42437 (M); Fax 2309-6810; Email vinodk.paul@gov.in, vinodkpaul@gmail.com]; **SC: XI.**

2004 : PENTAL, Deepak (b 1951), PhD, DSc (bc) 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); INSA Senior Scientist (2016-17); **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 mpssc@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, Murugespalaya, Bengaluru 560017* [Tel 97-419-12592 (M); Email peri46@gmail.com]; **Lecture:** Professor RK Asundi Memorial (2009); **SC: III.**



2018 : PILLAI, Madhavan Radhakrishna (b 1960), PhD, MRCPATH, FRCPath, Sp: Disease Biology; FASc, FNASc, FAMS, Director, *Rajiv Gandhi Centre for Biotechnology, Thiruvananthapuram 695014*; Sarada Bhavanam, KP 8/110, House No. 111, Darsan Nagar, Thiruvananthapuram 695005 [Tel (0471) 234-7973 (O), 273-3819 (R), 99-951-99993 (M); Fax 234-6333; Email mrpillai@rgcb.res.in]; **SC: XI.**



2018 : PILLAI, Vijayamohanana Kunjukrishna (b 1960), PhD, Sp: Electrochemistry, Materials Chemistry; FASc, Director, *CSIR-Central Electrochemical Research Institute (CECRI), Karaikudi 630003, Tamil Nadu*; S-13, Director's Bungalow, CECRI, Karaikudi 630003 [Tel (4565) 227-777 (O), 226-662 (R), 94-422-26929 (M); Fax 227-779; Email director@cecri.res.in, vijay@cecri.res.in, k.vijayamohanana@gmail.com; Web www.cecri.res.in/profile.aspx]; **SC: III.**



2018 : PODILE, Appa Rao (b 1960), PhD, Sp: Plant-Microbe Interactions; FNASc, FNAAS, FASc, JC Bose Fellow, Vice Chancellor, *University of Hyderabad, Prof. C.R. Rao Road, Central University P.O., Gachibowli, Hyderabad 500046*; Vice-Chancellor's Lodge, University of Hyderabad, Prof. C.R. Rao Road, Central University, P.O. Gachibowli, Hyderabad 500046 [Tel (040) 2313-2000, 2301-0121 (O), 2301-0353 (R), 94-907-49922, 91-006-55777 (M); Fax 2301-1090; Email vc@uohyd.ac.in, podilerao@gmail.com]; **SC: VII.**





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 and Deepak Parekh Institute Chair 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.**



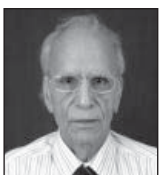
2012 : PRADHAN, Akshay Kumar (*b* 1956), PhD, Sp: Plant Genetics and Molecular Plant Breeding; FNASc, FNAAS, Professor, *Department of Genetics, University of Delhi, South Campus, Benito Juarez Road, New Delhi 110021*; 1052, Joy Apartment, Plot No 2, Sector 2, Dwarka Phase 1, New Delhi 110075 [Tel (011) 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), formerly Vice-President, Tata Consultancy Services (TCS), Chief Scientist and Head, Process Engineering Innovation Lab, Tata Research Development & Design Centre (a division of TCS); *A3/504, Oxford Village Classic, Wanowrie, Pune 411040* [Tel (020) 6522-6764 (R), 92-255-18568 (M); Email pradip18568@gmail.com]; **SC: VI.**



1984 : PRAKASA RAO, Bhagavatula Lakshmi Surya (*b* 1942), PhD, Sp: Mathematical Statistics; FASc, FNASc, INSA Senior Scientist, 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 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; Distinguished 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, prasad.dipendra@gmail.com]; **SC: I.**

1982 : PRASAD, Gopal (b 1945), PhD, Sp: Lie & Algebraic Groups; FASc, Raoul Bott Professor Emeritus, *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) 647-4468 (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-1/8, 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]; **Council: Mem 2018-;** **SC: IV.**



2017 : PRASAD, Manoj (b 1970), PhD, Sp: Plant Genetics & Genomics, Stress Biology; FNAAS, FNASc, Staff Scientist VI, *National Institute of Plant Genome Research (NIPGR), Aruna Asaf Ali Marg, JNU Campus, New Delhi 110067*; House No. T-003, NIPGR, Aruna Asaf Ali Marg, JNU Campus, New Delhi 110067 [Tel (011) 2673-5160 (O), 2673-5147 (R), 98-683-16379 (M); Fax 2674-1658; Email manoj_prasad@nipgr.ac.in; Web http://nipgr.res.in/research/dr_mprasad.php]; **SC: XII.**



2019: PRASAD, Nagaraj Guru (b 1974), PhD, Sp: Evolutionary Genetics; Associate Professor, *Indian Institute of Science Education and Research Mohali, Sector 81, SAS Nagar, PO Manauli, Punjab 140306*; H. No. 104, MJ Block, Indian Institute of Science Education and Research Mohali, Sector 81, SAS Nagar, PO Manauli, Punjab 140306 [Tel (0172) 224-0266 (O), 98-724-36249 (M); Fax 224-0124; Email prasad@iisermohali.ac.in, ngprasa@gmail.com]; **SC: VIII.**



1987 : PRASAD, Phoolan (b 1944), PhD, Sp: Theory of Wave Propagation, Partial Differential Equations & Fluid Dynamics; FASc, FNASc, formerly Honorary Professor & DAE Raja Ramanna Fellow, Professor in Super-Time Scale, Chairman and MSIL Chair Professor, *Department of Mathematics, Indian Institute of Science, Bengaluru 560012*; 927-28, 7th Cross, HMT Layout, Mathikere PO, Bengaluru 560054 [Tel (080) 2293-2711 (O), 2337-1039 (R), 94-484-61299 (M); Fax 2360-0146; Email prasadp@alumni.iisc.ac.in, phoolan.prasad@gmail.com]; **SC: I.**



1990 : PRASAD, Rajendra (b 1936), PhD (Mississippi State), Sp: Agronomy, Soil Fertility & Fertilizers, Cropping Systems; FNASc, FNAAS, 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]; INSA Honorary Scientist (2007-15); **SC: XII.**





2002 : PRASAD, Rajendra (b 1947), PhD, Sp: Membrane Biology, Biochemistry, Fungal Genetics; FASc, FNASc, Dean, *Faculty of Science, Engineering and Technology*, Director, *Amity Institute of Integrative Sciences and Health & Amity Institute of Biotechnology*, *Amity University Haryana, Amity Education Valley, Gurugram 122413*; D2-002, The Legend, Sector 57, Sushant Lok, Phase-III, Gurugram 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=rpj>]; **Council:** VP 2014-16; **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, National Environmental Engineering Research Institute, Nagpur; formerly Professor & Head, Department of Zoology, Nagpur University, Nagpur; *9-Deotale Layout, Nagpur University Campus, Nagpur 440033* [Tel (0712) 224-9010 (R), 94-236-32159 (M); Email prasadraopd99@gmail.com]; **Lecture:** Professor Har Swarup Memorial (2014); INSA Honorary Scientist (2012-15); **SC:** VIII.



1999 : PRATHAP, Gangan (b 1951), PhD, Sp: Computational Mechanics, Informetrics; FASc, Honorary Professor, APJ Abdul Kalam Technological University, Thiruvananthapuram 695016; formerly Director, National Institute of Science Communication and Information Resources, New Delhi; *56, Pebble Gardens, Njandoorkonam, Thiruvananthapuram 695587* [Tel (0471) 271-1956 (R); Email gangan_prathap@hotmail.com]; **SC:** V.



2012 : PURI, Sanjay (b 1961), PhD, Sp: Physical Sciences; FASc, Professor, *School of Physical Sciences, Jawaharlal Nehru University, New Delhi 110067*; 66, Dakshinapuram, 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, Uttaranchal; *"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 qadriayub@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 (O), 2980-2989 (R); Fax 2301-2460; Email tpr@uohyd.ac.in]; **Medal:** INSA Young Scientist (1992); **SC: III.**



2002 : RAGHAVENDRA, Agepati Srinivasa (b 1950), PhD, Sp: Botany, Plant Biochemistry, Molecular Plant Physiology and Plant Metabolomics; FASc, FNASc, FNAAS, FTWAS, Professor, *School of Life Sciences, Department of Plant Sciences, University of Hyderabad, Hyderabad 500046*; Flat M-1701, Aparna Sarovar, Nallagandla, Gachibowli, Hyderabad 500046 [Tel (040) 2301-0630, 6679-4555 (O), 4861-4460 (R); Fax 2301-0145; Email asrsl@uohyd.ernet.in, as_raghavendra@yahoo.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 Professor, *Centre of Excellence in Basic Sciences, University of Mumbai, Vidyanagari Campus, Kalina, Santacruz East, Mumbai 400098*; 503, Atlantis, Raheja Acropolis-1, Deonar Pada Road, Chembur, Mumbai 400088 [Tel (022) 2652-4983 (O), 2550-4766 (R); Fax 2652-4982; Email msr@math.iitb.ac.in]; **Professorship:** INSA-SN Bose Research Professor (1994-96); **Medal:** Srinivasa Ramanujan (1991); Aryabhata (2006); **Council:** Mem 1984-86; **SC: I.**

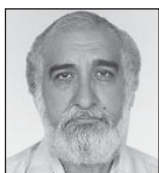


2010 : RAI, Lal Chand (b 1950), PhD, Sp: Phycology, Environmental Microbiology, Abiotic Stress Proteomics and Genomics of Cyanobacteria; FNASc, FNAAS, BHU Distinguished Professor (Lifelong), JC Bose National Fellow, DAE Raja Ramanna Fellow, formerly Head & Coordinator, *Centre of Advanced Study in Botany, Molecular Biology Section, Institute of Science, Banaras Hindu University, Varanasi 221005*; B 30/40, 27-28, Orthocity, Madhav Market, Lanka, Varanasi 221005 [Tel (0542) 236-7520 (R), 94-152-25821, 75-700-00360 (M); Fax 236-8174; Email lcrbhu15@gmail.com, lcrbi@bhu.ac.in]; **Medal:** Professor SB Saksena Memorial (2011); **SC: VII.**





2009 : RAI, Shyam Sundar (*b* 1954), PhD, Sp: Geophysical System Modelling, Seismology, Tectonophysics and Geophysical Exploration; FASc, FNASc, Professor & Chair, *Department of Earth and Climate Science, Indian Institute of Science Education & Research (IISER), Pune, Dr Homi Bhabha Road, Pune 411008*; B-102, Faculty Housing, IISER Pune Campus, Homi Bhabha Road, Pashan, Pune 411008 [Tel (020) 2590-8255 (O), 2590-8515 (R), 98-903-22705 (M); Fax 2590-8186, 2586-5086; Email shyamsrai@iiserpune.ac.in, shyamsrai@gmail.com]; **SC: IV.**



2018 : RAINA, Dhruv (*b* 1958), PhD, Sp: History and Philosophy of Science; Professor, *Zakir Husain Centre for Educational Studies, School of Social Sciences, Jawaharlal Nehru University, New Delhi 110067*; 529 B, Paschimabad, Jawaharlal Nehru University, New Delhi 110067 [Tel (011) 2670-4418, 2670-4416 (O), 2674-2825 (R), 99-105-62068 (M); Fax 2670-4192, 2671-7580; Email d_raina@yahoo.com, dhruv@mail.jnu.ac.in]; **NC***.



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



2015: RAJAM, Manchikatla Venkat (*b* 1955), PhD, Sp: Plant Biotechnology, Polyamine Physiology and RNA Interference; FNASc, FNAAS, Professor, 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; *H-430, Brigade Courtyard, HMT Factory Main Road, Jalahalli, Bengaluru 560013* [Tel 99-101-81299 (M); Email rajav1946@gmail.com]; **Council: Mem 2012-14; SC: IV.**



2012 : RAJAN, Balaji Sundar (*b* 1958), PhD, Sp: Electrical Engineering (Communications); FNASc, FNAE, FIEEE, JC Bose National Fellow, formerly 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@iisc.ac.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.**

* NC: New Category (for guidelines refer INSA Website)

1985 : RAJAPPA, 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 2&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@iisc.ac.in]; **Medal:** SH Zaheer (1998); **Council:** Mem 1986-88; **SC: V.**



1986 : RAJASEKARAN, Guruswamy (*b* 1936), PhD, Sp: High Energy Physics & Quantum Field Theory; FASc, FNASc, *The 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.**



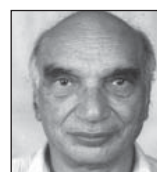
2012 : RAJASEKHARAN, Ram (*b* 1960), PhD, Sp: Plant Lipid Metabolism; FASc, FNASc, FNAAS, #2/10 NMS Nagar, *Chichiluppai (B.O.), Alathur Village, Oomachikulam, Madurai, Tamil Nadu 625014* [Tel 94-835-21260 (M); Email lipidindia@yahoo.com]; **SC: VII.**



2017 : RAJEEVAN, Madhavan Nair (*b* 1961), PhD, Sp: Atmospheric Science; FASc, FNASc, Secretary to the Government of India, *Ministry of Earth Sciences, Pribhvi Bhawan, Lodhi Road, New Delhi 110003*; formerly Director, Indian Institute of Tropical Meteorology, Pune; 114, New Moti Bagh, New Delhi 110021 [Tel (011) 2462-9771/72 (O), 85-059-02700 (M); Fax 2462-9777, 2462-9779; Email secretary@moes.gov.in, rajeevan61@yahoo.co.in; Web <http://moes.gov.in>]; **SC: IV.**



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 98-481-35163 (M), 2717-3360 (R); Email ramarao@avralab.com; Web <http://www.avramarao.com>]; **Medal:** Vishwakarma (1991); **Council:** Mem 1995-97; **SC: III.**



1989 : RAMACHANDRAN, Balasubrahmanyam (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, Senior Consultant and Director, *Institute of Gastroenterology, Hepatobiliary Science & Transplantation, SRM Institutes for Medical Science, 1 Jawaharlal Nehru Road, Vadapalani, Chennai 600026*; 202 Green Park, 32 Vaidyanatha Street, Nungambakkam, Chennai 600034 [Tel (044) 2362-6314 (O), 99-946-14890 (M); Email wurama@hotmail.com]; **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, Gurugram 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 (1997-2002); **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, 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]; INSA Honorary Scientist (2012-15); **Council:** Ad Mem 2008, 2012, 2017, 2019; **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, Purbhachal Housing Estate, Sector III, Salt Lake City, Kolkata 700091 [Tel (0129) 287-6485 (O), 94-321-14945 (M); Fax 287-6402; Email tramu@thsti.res.in, rama1murthy@yahoo.com]; **SC: IX.**



1987 : RAMAMURTHY, Valangiman Subramanian (b 1942), PhD (Bombay), Sp: Nuclear Physics, Ion Beam Applications, Science & Technology Policy; FASc, FNASc, FNAE, FTWAS, Hon. FIETE, Emeritus Professor and formerly Director, *National Institute of Advanced Studies, IISc Campus, Bengaluru 560012*; formerly Secretary, DST, New Delhi [Tel (080) 2218-5127 (O), 2351-5920 (R), 99-000-02178 (M); Email vsramamurthy@nic.in, vsramamurthy@nias.res.in, vsramamurthy@gmail.com]; **Medal:** Meghnad Saha (2009); **Council:** Ad Mem 1996-2006; **SC: II.**



2012 : RAMAMURTY, Upadrasta (b 1967), PhD, Sp: Mechanical Behavior of Materials, Advanced Materials and Manufacturing; FASc, FNAE, FTWAS, Professor, *School of Mechanical and Aerospace Engineering, Nanyang Technological University, Singapore 639798*; # EV 201, Vigyanapura, New BEL Road, Sanjaynagar, Bengaluru 560094 [Tel (+65) 6790-4040 (O); Fax 6792-4062; Email satwiku@gmail.com]; **SC: V.**



1998 : RAMAN, Rajiva (b 1948), PhD, Sp: Molecular Cytogenetics, Human Genetics; FASc, FNASc, Professor Emeritus, *Department of Zoology, Banaras Hindu University, Varanasi 221005*; 8, Mahamana Puri, PO BHU, Varanasi 221005 [Tel (0542) 257-0967 (R); Telefax 236-8174, 236-8457; Email rajiva.raman@gmail.com, raman@bhu.ac.in]; **Medal:** SL Hora (2005); **Visiting Fellowship:** JL Nehru Birth Centenary (2016); **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*; formerly Distinguished Professor, TIFR, Mumbai [Tel (044) 2254-3376 (O), 2434-1169 (R), 94-445-49919 (M); Email sramanan@cmi.ac.in]; **Council:** Mem 1993-95; **SC: I.**



2017 : RAMARAJ, Ramasamy (*b* 1956), PhD, DSc (Japan), DSc (Madurai), Sp: Inorganic and Physical Chemistry; FASc, FNASc, CSIR Emeritus Scientist, former Head, *Department of Physical Chemistry, School of Chemistry, Madurai Kamaraj University, Madurai 625021*; B4 Shanthi Sadhan, Melakkal Main Road, Kochadai, Madurai 625016 [Tel (0452) 245-9084 (O), 238-2399 (R), 89-039-71420 (M); Email ramaraj.ram@gmail.com, ramarajr@yahoo.com; Web <http://mkuniversity.org/direct/schools/departments/chemistry/ramaraj.php>]; **SC: III.**



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, Nayudamma Abdul Wahid Chair Professor, Anna University, Centre for Academic and Research Excellence, CSIR-CLRI, Adyar 600020; B-5, *Lake View Road, IIT Staff Quarters, Chennai 600036* [Tel 98-182-28329 (M); Email samisrisailam@gmail.com, dstsec@yahoo.co.in]; **Medal:** Meghnad Saha (2012); **Council:** Ad Mem 2007-10; **SC: III.**



1989 : RAMASARMA, Tangirala (*b* 1932), PhD, Sp: Biochemistry, Biological Oxidation; INSA Emeritus Scientist, formerly Professor, Biochemistry Department, IISc, Bengaluru; *408 Shashikiran Apts, 18th Cross, Malleswaram, Bengaluru 560055* [Tel (080) 2334-6134 (R); Email ramasarma_1932@rediffmail.com, trs@alum.iisc.ac.in]; INSA Honorary Scientist (2007-15); **SC: X.**



2005 : RAMASESHA, Suryanarayana Sastry (*b* 1950), PhD, Sp: Theoretical Chemistry; FASc, FTWAS, INSA Senior Scientist, Honorary Professor, *Solid State and Structural Chemistry Unit, Indian Institute of Science, Bengaluru 560012*; No. 151, 5th Cross Road, NGEF Layout, Sanjaynagar, Bengaluru 560094 [Tel (080) 2293-2925 (O), 98-425-12356 (M); Fax 2360-1310; Email ramasesh@iisc.ac.in; Web <http://sscu.iisc.ac.in/faculty/prof-s-ramasesha/>]; **Medal:** INSA Young Scientist (1978); **SC: III.**



2019: RAMASUBRAMANIAN, Krishnamurthi (*b* 1969), PhD, Sp: Non-linear Dynamics and Chaos, Indian Astronomy and Mathematics, Advaita Vedanta; Professor, *Department of Humanities and Social Sciences, Indian Institute of Technology Bombay, Powai, Mumbai 400076*; Staff Hostel Annex, 21, IIT Bombay, Powai, Mumbai 400076 [Tel (022) 2576-7368 (O); Email ram@hss.iitb.ac.in]; **NC***.

* NC: New Category (for guidelines refer INSA Website)

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; FRS, FASc, Professor, *Department of Physics, Indian Institute of Science, Bengaluru 560012*; Adjunct Professor, Tata Institute of Fundamental Research, Hyderabad [Tel (080) 2360-2698, 2293-3283 (O), 2308-9166 (R); Fax 2360-2602; Email sriram@iisc.ac.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); **SC: I.**



2016 : RANADE, Vivek Vinayak (b 1963), PhD, Sp: Chemical Engineering, Multiphase Reactors, Process Intensification, CFD; FASc, FNAE, Professor of Chemical Engineering, *School of Chemistry and Chemical Engineering, Queen's University Belfast, David Keir Building, Stranmillis Road, Belfast BT9 5AG, Northern Ireland, UK*; 17 Wireless Colony, Aundh, Pune 411007 [Tel (+44) 28-909-74592 (O); Email V.Ranade@qub.ac.uk]; **SC: V.**



1994 : RANDHAWA, Harbans Singh (b 1933), PhD, Sp: Medical Mycology, Microbiology; INSA Emeritus 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]; INSA Honorary Scientist (2006-15); **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, RQ14 Distinguished Fellow, Honorary Professor, National Institute of Advanced Studies, Professor Emeritus, *Department of Materials Engineering, Indian Institute of Science, Bengaluru 560012* [Tel (080) 2360-1198 (O), 2351-8521 (R); Fax 2360-1198; Email rangu@iisc.ac.in; Web <http://materials.iisc.ac.in/faculty/s-ranganathan/>]; **Lecture:** INSA Prize for Materials Science (1991); **SC: V.**





2017 : RANGARAJAN, Pundi Narasimhan (*b* 1963), PhD, Sp: Eukaryotic Gene Expression & Infectious Diseases; FNASc, FASc, FAMS, Professor, *Department of Biochemistry, Indian Institute of Science, Bengaluru 560012; 1214-17/53, 4th Main, E Block, Rajajinagar 2nd Stage, Bengaluru 560010* [Telefax (080) 2360-1492 (O), 98-863-03700 (M); Email pnr@biochem.iisc.ernet.in]; **Medal:** INSA Young Scientist (1994); **SC: X.**



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 rlm68@yahoo.co.in]; **SC: VII.**



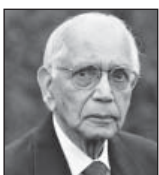
2008 : RANU, Brindaban Chandra (*b* 1949), PhD, Sp: Organic Synthesis, Green Chemistry; FASc, INSA Senior Scientist, *Department of Organic Chemistry, Indian Association for the Cultivation of Science, Jadavpur, Kolkata 700032; E2, Basundhara, 19/922, Raja SC Mullick Road, Kolkata 700086* [Tel (033) 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, Indian Institute of Science, Bengaluru 560012; 247, 1st Cross, 3rd Main, Hanumanthanagar, Bengaluru* [Tel (080) 2293-2308 (O), 2650-7124 (R), 98-458-02391 (M); Email ajrao@biochem.iisc.ernet.in, ajrao_2000@yahoo.com, ajrao2006@gmail.com]; **Lecture:** Professor MRN Prasad Memorial (2004); **Council:** Mem 2015-17; **SC: VIII.**



2010 : RAO, Basuthkar Jagadeeshwar (*b* 1956), PhD, Sp: Molecular basis of Genome Dynamics Biophysics of Genome Repair Complexes; FASc, FNASc, JC Bose Fellow, Professor & Dean (Faculty), *Indian Institute of Science Education and Research (IISER) Tirupati, Transit Campus: Sree Rama Engineering College, Karkambadi Road, Mangalam, Tirupati 517507* [Tel (0877) 250-0401 (O), 87-725-00401, 90-045-88909 (M); Email bjrao@iisertirupati.ac.in]; **SC: X.**

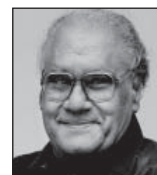


1954 : RAO, Calympudi Radhakrishna (*b* 1920), PhD, ScD, DSc (*bc*), D Litt (*bc*), Sp: Statistics & Matrix Algebra; FASc, FNASc, FTWAS, FRS, Fellow, NAS US, Lithuanian Acad. Sc, European Acad. of Sc, National Medal of Science Laureate, USA, formerly Director, ISI; Adjunct Professor, University of Pittsburgh; 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, JC Bose National Fellow, 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 cp rao@iitb.ac.in, cp rao@chem.iitb.ac.in, cp raoiitb@gmail.com]; **SC: III.**



1974 : RAO, Chintamani Nagesa Ramachandra (b 1934), PhD (Purdue), DSc (Mysore), DSc (*hc*), ScD (*hc*), LLD (*hc*), DLitt (*hc*), Dr. Engg. (*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, Slovan & Serbian Academies, American Philosophical Soc, African Acad, Foreign Fellow of Academia Europea, Royal Soc of Canada, Chinese Academy of Sciences; National Research Professsor, Linus Pauling Research Professor and Honorary President, *Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), 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@jncasr.ac.in; Web <http://www.jncasr.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:** Blakett 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, Ist Floor, 4th Cross, RM V Extension, Bengaluru 560080 [Tel (080) 2293-2538 (O), 2361-1677 (R); Fax 2360-0683; Email dnrao@biochem.iisc.ernet.in]; **Medal:** Professor GN Ramachandran 60th Birthday Commemoration (2018); **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, Nagasetthalli, 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, Gurugram 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 & Director, *Centre for Plant Molecular Biology, Osmania University, Hyderabad 500007*; Plot No. 19, H No. 8-3-315/25A, Maruthinagar, Yousufguda, Hyderabad 500045 [Tel (040) 2709-8087 (O), 2374-5253 (R), 93-913-20822 (M); Fax 2709-6170; Email rao_kv1@rediffmail.com]; **SC: VII.**



2017 : RAO, Madan (*b* 1960), PhD, Sp: Statistical Physics, Nonequilibrium Statistical Physics, Soft Matter, Biological Physics, Cell and Tissue Biophysics; FASc, Professor, *National Centre for Biological Sciences, Tata Institute of Fundamental Research, GKVK Campus, Bellary Road, Bengaluru 560065*; 101 Dennison Appts., 12 Hall Road, Richards Town, Bengaluru 560005 [Tel (080) 2366-6271 (O), 2580-5419 (R), 98-865-38926 (M); Fax 2363-6662; Email madan@ncbs.res.in]; **SC: II.**



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 (JNCASR), 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, bcbcnar@gmail.com]; **Medal:** JC Bose (1989); **Lecture:** JL Nehru Birth Centenary (2001); **Council:** Sec 1996-98; **SC: X.**



2019: RAO, Nittala Venkata Chalapathi (*b* 1969), PhD, Sp: Mineralogy, Igneous Petrology, Geochemistry, Geodynamics and Mineral Resources; FASc, Professor, *Electron Probe Micro Analyzer (EPMA) & Scanning Electron Microscope (SEM) Laboratory, Centre of Advanced Study in Geology, Institute of Science, Banaras Hindu University, Varanasi 221005*; B-8, Heritage Housing Apartments, Ganga Pradushan Road, Bhagwanpur, Lanka, Varanasi 221005 [Tel 99-356-47365 (M); Email nvcr100@gmail.com, nvcrao@bhu.ac.in]; **SC: IV.**

1980 : RAO, Palle Rama (*b* 1937), PhD, DSc (*bc*), Sp: Physical & Mechanical Metallurgy; FASc, FNASc, FNAE, FTWAS, Foreign Mem, Royal Acad Engg (UK), Ukrainian 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, Artificial Intelligence, Speech & Script Recognition, Natural Language Processing; FASc, FNASc, FNAE, 601, *Vigyan*, Plot No. 23, Sector 17, Vashi, Navi Mumbai 400703 [Tel (022) 2789-0712 (R), 92-255-18888 (M); Email dr.pvsrao@gmail.com]; **SC: V.**



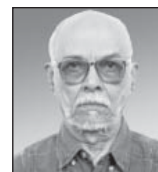
2015 : RAO, Ravi Achutha (*b* 1954), PhD, Sp: Classical K-theory; Professor (H), *School of Mathematics, Tata Institute of Fundamental Research, 1, Dr. Homi Bhabha Road, Mumbai 400005*; A-8, Goodwill Assurance Building, Manmala Tank Road, Mahim, Mumbai 400016 [Tel (022) 2278-2470 (O), 2430-9827 (R), 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, *No. 303, Sharada Nivas, 15th Cross, 6th main, II Stage, Indira Nagar, Bengaluru 560038* [Tel 91-132-15570, 94-488-52356 (M); Email raocimap@gmail.com]; INSA Honorary Scientist (2011-15); **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.**



2015 : RAO, Valipe Ramgopal (*b* 1965), Dr Ing, Sp: Nanoelectronics; FASc, FNASc, FNAE, FIEEE, Director, *Indian Institute of Technology Delhi, Hauz Khas, New Delhi 110016*; Director's Lodge, IIT Campus, Hauz Khas, New Delhi 110016 [Tel (011) 2659-1701 (O), 2659-1801 (R); Email director@iitd.ac.in, rrao@iitd.ac.in, rrao@ee.iitb.ac.in; Web <http://www.ee.iitb.ac.in/~rrao/>]; **Council:** Ad Mem 2019; **SC: V.**





2007 : RAO, Venigalla Purnachandra (b 1955), PhD, Sp: Marine Geology, Sedimentology; FASc, Emeritus Scientist, *Department of Civil Engineering, Vignana's University, Vadlamudi, Guntur 522213, AP*; formerly Chief Scientist, CSIR-NIO, Goa; Angalakuduru, Kopalle Donka Road, Tenali, Guntur, AP [Tel (0863) 234-4761 (O), 94-224-16008 (M); Email vp rao55@gmail.com]; **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.**



2019: RAVINDRAN, Vajravelu (b 1965), PhD, Sp: High Energy Physics; FASc, Professor H, *The Institute of Mathematical Sciences, CIT Campus, Taramani, Chennai 600113*; A5, Swarnamukhi Apartment, III Main Road, Adyar, Gandhi Nagar, Chennai 600020 [Tel (044) 2254-3208 (O), 95-001-40279 (M); Fax 2254-1586; Email ravindra@imsc.res.in]; **SC: II.**



2005 : RAVINDRANATH, Vijayalakshmi (b 1953), PhD, Sp: Neuroscience; FASc, FNASc, FTWAS, FAMS, Professor, *Centre for Neuroscience, Indian Institute of Science, Bengaluru 560012*; 301, Vaishnavi Springs, 49/5, Ranga Rao Road, Shankarapuram, Bengaluru 560004 [Tel (080) 2293-3433 (O), 2694-2958 (R); Fax 2360-3323; Email viji@iisc.ac.in, viji.ravindranath@gmail.com; Web <http://www.cns.iisc.ac.in>]; **Medal:** Professor KP Bhargava Memorial (2000), SS Bhatnagar (2016); **Lecture:** JL Nehru Birth Centenary (2017); **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.**

2019: RAY, Krishanu (b 1964), PhD, Sp: Molecular Cell Biology of Spermatogenesis and Intra-Cellular Transport in *Drosophila*; Professor, *Department of Biological Science, Tata Institute of Fundamental Research (TIFR), Homi Bhabha Road, Colaba, Mumbai 400005*; 703 Bhaskara, TIFR Housing Colony, Homi Bhabha Road, Colaba, Mumbai 400005 [Tel (022) 2278-2730 (O), 98-691-29589 (M); Fax 2280-4610/11; Email krishanu@tifr.res.in, krishanu64@gmail.com]; **SC: VIII.**



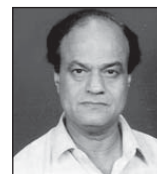
2002 : RAYCHAUDHURI, Amitava (b 1952), PhD, DSc (bc), Sp: Particle Physics including Astroparticle Physics; FASc, FNASc, Professor Emeritus, formerly Sir Tarak Nath Palit Professor of Physics, *University of Calcutta, 92 Acharya Prafulla Chandra Road, Kolkata 700009*; formerly Director, Harish-Chandra 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 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, 1-10-119/1 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.**



1984 : REDDY, Gidnahalli Karagappa Narayana (b 1928), PhD (Lond), Sp: Coordination Chemistry, Organometallics & Catalysis; FNASc, formerly Professor & Head, Department of Chemistry, Bangalore University & VC, Karnatak 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, FIEEE, 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, Former Director, NIN, Hyderabad; 503 *Mount Meru Apts, Banjara Hills, Road No.5, Hyderabad 500 034* [Tel 98-665-90722 (M); Email vinodinireddy@hotmail.com]; **SC: XI.**



2008 : RINDANI, Saurabh Dilsukhray (b 1952), PhD, Sp: Particle Physics; FASc, FNASc, JC Bose National Fellow, *Theoretical Physics Division, Physical Research Laboratory, Navrangpura, Ahmedabad 380009*; M 404, Garden Residency 3, South Bopal Road, Bopal, Ahmedabad 380058 [Tel (079) 2631-4938 (O), (02717) 243-107 (R), 94-270-18152 (M); Email saurabh@prl.res.in, sdrindani@gmail.com]; **SC: II.**



1997 : ROUT, Damodar (b 1944), MS, MCh, Sp: Neurosurgery, Micro-neurosurgery, 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, 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]; INSA Honorary Scientist (2012-15); **SC: IV.**



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, Bidhannagar, Kolkata 700091*; formerly Senior Professor & Chair, Department of Theoretical Physics, TIFR, Mumbai; CK 147, Sector 2, Bidhannagar, 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, JC Bose National Fellow, 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.ac.in]; **SC: X.**

1989 : ROY, Shasanka Mohan (b 1941), PhD, Sp: Foundations of Quantum Theory & Particle Physics; FASc, FNAsc, FTWAS, INSA Honorary Scientist, Homi Bhabha Centre for Science Education, Tata Institute of Fundamental Research, VN Purav Marg, Mankhurd, Mumbai 400088; 501 Vigyan, Plot 23, Sector 17, Vasbi, 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); INSA Senior Scientist (2011-16); **SC: II.**



2005 : ROY, Siddhartha (b 1954) PhD, Sp: Biophysics, Biochemistry, Structural Biology, Chemical Biology; FASc, FRSC, FTWAS, JC Bose National Fellow, 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, Vice Chancellor, Cooch Behar Panchanan Barma University, Vivekananda Street, Cooch Behar 736101, West Bengal; 199 Jodhpur Park, Kolkata 700068 [Tel (03582) 229-030 (O), (033) 2472-5624 (R), 98-745-32967 (M); Fax 230-833; Email drsyamalroy@yahoo.com]; **SC: VIII.**



2017 : ROYCHOUDHURY, Susanta (b 1955), PhD, Sp: Cancer Biology; FNAsc, FASc, Chief, Basic Research, Saroj Gupta Cancer Centre and Research Institute, Mahatma Gandhi Road, Thakurpukur, Kolkata 700063; formerly Chief Scientist, CSIR-IICB; former Professor, Academy of Scientific and Innovative Research (AcSIR); HB-47, Sector-III, Salt Lake, Kolkata 700106 [Tel (033) 2453-2781-83 Ext 2115 (O), 2358-1528 (R), 94-331-02986 (M); Fax 2453-6711; Email susantarc@gmail.com]; **SC: VIII.**

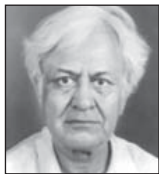


1982 : RUDRAIAH, Nanjundappa (b 1932), MA (UOT, Canada), PhD (UWO, Canada) DSc (bc), Sp: Applied Mathematics, Fluid Mechanics; FASc, FNAsc, FIAM (UK), FUWA (India), FIAPS, Honorary Professor, UGC-Centre for Fluid Mechanics, Department of Mathematics, Bangalore University & Hon Director, National Research 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.**



2019: SABU, Mamiyil (b 1959), PhD, Sp: Angiosperm Taxonomy, Reproductive Biology, Floristics; Professor, Department of Botany, University of Calicut, Calicut University P.O., Kerala 673635; 'Mamiyil', Nagathumpadam, Olavanna P.O., Calicut, 673019, Kerala [Tel (0494) 240-7407 (O), (0495) 243-1545 (R), 94-476-36333 (M); Fax (0494) 240-0275; Email msabu9@gmail.com]; **SC: VII.**





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; *303, 1B cross, 2nd Phase, 6th Block, BSK 3rd Stage, Bengaluru 560085* [Tel (080) 2672-0507 (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, former Director General, CSIR and Secretary, DSIR, *Anusandhan Bhavan, 2, Rafi Marg, New Delhi 110001* [Tel 98-883-71548 (M); Email girishsahni@gmail.com]; **SC: X.**



2011 : SAHNI, Varun (*b* 1956), PhD, Sp: Theoretical Physics; FASc, FNASc, FTWAS, 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, S.P. 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/index.php/TeamMembersC/asahu>]; **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) 297-8259 (R), 96-633-78259 (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, Advisor to DG, ICMR, JC Bose National Fellow, Ex-Director In-charge, *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, poonamsalotra@hotmail.com]; **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*; #2379, B-2, Vasant Kunj, New Delhi 110070 [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]; **Lecture:** Professor Sadhan Basu Memorial (2017); **SC: III.**



2015 : SAMPATH, Srinivasan (b 1961), PhD, Sp: Materials Chemistry (Interfacial Chemistry/Electrochemistry); FASc, FNAE, 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@iisc.ac.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), 98-921-00402 (M); 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, Department of Chemistry, Punjabi University, Patiala 147002; formerly Director, RRL, Jorhat, Assam; *Lalberi Road, Hardev Nagar, Khanna 141401* [Tel (0175) 304-6409- 10 (O), (01628) 237-017 (R); Email j_sandhu2002@yahoo.com]; INSA Honorary Scientist (2012-15); **SC: III.**





1991 : SANE, Prafullachandra Vishnu (*b* 1937), PhD (Alberta), Sp: Photosynthesis, Plant Physiology, Biochemistry & Molecular Biology; FASc, FNASc, FNAAS, formerly Director, NBRI, Rana Pratap Marg, Lucknow 226001; C-739/B, Sector C, Mahanagar Extension, Lucknow 226006 [Tel (0522) 495-2323 (R); Email rajsane@hotmail.com]; **Council:** Mem 1996-98; **SC: VII.**



2017 : SANGWAN, Neelam S (*b* 1966), PhD, Sp: Plant Sciences; FNAAS, Professor, CSIR-Academy of Scientific & Innovation Research, New Delhi 110001; Senior Principal Scientist (Scientist F), *Metabolic and Structural Biology, CSIR-Central Institute of Medicinal & Aromatic Plants (CIMAP), PO CIMAP, Lucknow 226015*; House No. E-1, Sugandh Vihar, Vikas Nagar, Sector-7, Lucknow 226015 [Tel (0522) 271-8636 (O), 273-9839 (R), 94-157-66696 (M); Email sangwan.neelam@gmail.com]; **Medal:** INSA Young Scientist (1994); **SC: VII.**



2018 : SANGWAN, Rajender Singh (*b* 1958), PhD, Sp: Secondary Metabolism and Secondary Agriculture Bioprocessing for Resource Recovery & Value Added Products; FNAAS, FNASc, Director, *Academy of Scientific and Innovative Research (AcSIR), AcSIR Campus at CSIR-HRDC, Sector-19, Kamla Nebru Nagar, Ghazipur 201002*; House E-1, CIMAP Colony (Sugandh Vihar), Vikas Nagar, Sector-7, Lucknow 226022 [Tel 99-150-35566 (O), 94-157-66696 (R), 99-150-35566, 94-512-46764 (M); Email dr.sangwan@gmail.com, sangwan@acsir.res.in, director@acsir.res.in]; **SC: XII.**



2014 : SANJAPPA, Munivenkatappa (*b* 1951), PhD, Sp: Plant Taxonomy & Conservation; FASc, FNASc, INSA Senior Scientist, *Mahatma Gandhi Botanical Garden, University of Agricultural Sciences, GKVK, Bengaluru 560065*; 504, C-7, Kendriya Vihar, Yelahanka, Bengaluru 560064 [Tel (080) 2333-0153 Ext 302 (O), 99-780-35160 (M); Email sanjappam@ymail.com]; **SC: VII.**



2019 : SANKARAN, Parameswaran (*b* 1959), PhD, Sp: Topology, Representation Theory; FASc, FNASc, Professor H, *The Institute of Mathematical Sciences, CIT Campus, Taramani, Chennai 600113*; 24 Second Cross Street, Shastri Nagar, Adyar, Chennai 600020 [Tel (044) 2254-3211 (O), 99-401-39682 (M); Fax 2254-1586; Email sankaran@imsc.res.in]; **SC: I.**



2013 : SANKARANARAYANAN, Rajan (*b* 1968), PhD, Sp: Structural Biology, FASc, FNASc, Chief Scientist, *Structural Biology Laboratory, CSIR-Centre for Cellular and Molecular Biology, Uppal Road, Hyderabad 500007*; 1-2-99/D, Street No. 2, Kakatheya Nagar, Habsiguda, Hyderabad 500007 [Tel (040) 2719-2832 (O), 98-664-97744 (M); Fax 2716-0591; Email sankar@cceb.res.in]; **Lecture:** Dr MR Das Memorial (2017); **SC: X.**

2018 : SANYAL, Kaustuv (b 1969), PhD, Sp: Genetics and Genomics of Human Fungal Pathogens, Eukaryotic Chromosome Segregation; FASc, FNASc, Professor, *Molecular Mycology Laboratory, Molecular Biology & Genetics Unit, Jawaharlal Nebru Centre for Advanced Scientific Research (JNCASR), Jakkur, Bengaluru 560064*; C 412, M.V, Royal Homes, Srirampura, Jakkur, Bengaluru 560064 [Tel (080) 2208-2878 (O), 2362-7661 (R), 94-498-10323 (M); Fax 2208-2766; Email sanyal@jncasr.ac.in, wwwsanyal@gmail.com; Web <http://www.jncasr.ac.in/sanyal>]; **SC: IX.**



2001 : SANYAL, Milan Kumar (b 1954), PhD, Sp: Condensed Matter Physics, Surface Physics & Synchrotron X-ray Scattering; FASc, FNASc, FTWAS, Emeritus Professor and former Director, *Saha Institute of Nuclear Physics, 1/AF, Bidhannagar, Kolkata 700064*; Emeritus Professor, Satyendra Nath Bose National Centre for Basic Sciences, Block JD, Sector III, Salt Lake, Kolkata 700106; Adjunct Professor, Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Jakkur P.O., Bengaluru 560064; 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@bose.res.in, milank.sanyal@gmail.com; Web <http://www.saha.ac.in/web/scientific>, <http://newweb.bose.res.in/people/FacultyMembers.jsp>]; **Council:** Mem 2010-12; **SC: II.**



1995 : SARAN, Anil (b 1940), DPhil (Sc), Sp: Molecular Biophysics & Biomolecular NMR; FNASc, formerly Professor H, TIFR, Mumbai 400005; *41, New Cosmos Co-operative Housing Society, Jubu-Versova Link Road, Andheri (West), Mumbai 400053* [Tel (022) 2628-8483 (R), 98-191-11024 (M); Email anilsaran@gmail.com]; INSA Honorary Scientist (2010-15); **SC: X.**



2008 : SARIN, Manmohan (b 1951), PhD, Sp: Chemical Oceanography, Atmospheric and Aerosol Chemistry; FASc, FNASc, *Geosciences Division, Physical Research Laboratory, Navrangpura, Ahmedabad 380009*; No A-301, Shashwat Apartments, Nr. Bodakdev Municipal office, Bodakdev, Ahmedabad 380054 [Tel (079) 2631-4939 (O), 2685-8711 (R), 94-267-27301 (M); Fax 2631-4900; Email sarin@prl.res.in]; INSA Senior Scientist (2015-18); **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]; **Medal:** Professor KP Bhargava Memorial (2017); **Lecture:** Dr Y SubbaRow Memorial (2005); **SC: XI.**



2012 : SARKAR, Anindya (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 (03222) 283-392 (O) 283-393 (R), 94-340-43377 (M); Fax 282-268; Email anindya@gg.iitkgp.ernet.in, sarkaranindya@hotmail.com]; **Medal:** INSA Young Scientist (1990); **SC: IV.**





2016 : SARKAR, Chitra (b 1955), MBBS, MD, FRCPath, Sp: Neuropathology and Neuro-oncology; FASc, FNASc, FAMS, JC Bose National Fellow, Professor, *Room No. 1083/1083-A, 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, Director, *Indian Institute of Science Education and Research (IISER), Mohali, Sector 81, SAS Nagar, PO Manauli, Mohali 140306*; Professor & former Head & Dean (Faculty of Interdisciplinary and Applied Sciences), Department of Biochemistry, University of Delhi, South Campus, New Delhi [Telefax (0172) 224-0266 (O), 224-0113 (R), 98-106-96767 (M); Email director@iisermohali.ac.in, dpsarkar@iisermohali.ac.in, dpsarkar59@gmail.com]; **SC: X.**



1999 : SARKAR, Pranab Kumar (b 1939), PhD, Sp: Neurodegenerative Diseases, Molecular Neurobiology, Neuroendocrinology; FASc, *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]; INSA Honorary Scientist (2009-15); **SC: X.**



2007 : SARKAR, Utpal (b 1956), PhD, Sp: Theoretical Particle and Astroparticle Physics; FASc, FNASc, Visiting Professor, *Physics Department, Indian Institute of Technology Kharagpur, Kharagpur 721302*; A-132, IIT Campus, Indian Institute of Technology Kharagpur, Kharagpur 721302 [Tel (03222) 281-974 (O), 98-985-86326 (M); Email utpal@phy.iitkgp.ernet.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@iisc.ac.in; Web <http://sscu.iisc.ac.in/people/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.**



2016 : SASTRY, Srikanth (*b* 1964), PhD, Sp: Statistical Mechanics, Soft Condensed Matter Physics, Chemical Physics; FASc, FNASc, Professor, *Theoretical Sciences Unit, Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Jakkur Campus, Bengaluru 560064*; No. 5 (JP), 6th Cross, L.I.C Colony, Jayanagar III Block (East), Bengaluru 560011 [Tel (080) 2208-2838 (O), 94-483-86838 (M); Fax 2208-2966, 2208-2767; Email sastry@jncasr.ac.in; Web <http://www.jncasr.ac.in/sastry/>]; **SC: II.**



2011 : SATHEESH, Sreedharan Krishnakumari (*b* 1970), PhD, Sp: Atmospheric Aerosol & Climate; FASc, FNASc, FTWAS, Chairman, *Divecha Centre for Climate Change, Professor, Centre for Atmospheric and Oceanic Science, Indian Institute of Science, Bengaluru 560012*; G-504, Brigade Gateway, 26/1, Dr. Rajkumar Road, Malleswaram West, Bengaluru 560055 [Tel (080) 2293-3070 (O), 2360-0275 (R), 94-483-60274 (M); Fax 2360-0865; Email satheesh@iisc.ac.in, profsks@gmail.com]; **Medal:** INSA Young Scientist (2002); **Council:** Mem 2017-; **SC: IV.**



1993 : SATHYAMURTHY, Narayanasami (*b* 1951), PhD, Sp: Theoretical, Molecular Reaction Dynamics; FASc, FTWAS, Honorary Professor, *Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Jakkur PO, Bengaluru 560064* [Tel 97-791-44905 (M); Email nsath@iitk.ac.in, nsath@iisermohali.ac.in]; **Medal:** INSA Young Scientist (1980), CV Raman (2016); **Council:** VP 2010-12; **SC: III.**



2005 : SAVITHRI, Handanahal Subbarao (*b* 1951), PhD, Sp: Plant Molecular Virology, Enzymology, Protein Chemistry; FASc, FNASc, INSA Senior Scientist, Emeritus Professor, JC Bose National Fellow, *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 hss@alumni.iisc.ac.in, hssavithri@gmail.com; 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, NIT, Haryana 121001* [Tel (0129) 241-0908 (R), 92-160-16090 (M); 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; *A-302 Gitanjali Apartments, Karkardooma, Delhi 110092* [Tel (011) 2237-4686 (R), 99-585-48850 (M); 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, JC Bose National Fellow, *Faculty of Life Sciences and Biotechnology, South Asian University, Akbar Bhawan, Chanakyapuri, New Delhi 110021*; 27 Empire Estate, Sultanpur, MG Road, New Delhi 110030 [Tel (011) 2419-5297 (O), 6502-8822 (R); Fax 2412-2511; Email rajivksaxena@hotmail.com, rksaxena@sau.int; Web <http://www.SAU.ac.in>; www.rajivksaxena.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 2360-1552, 2360-0683; Email kls@iisc.ac.in; Web <http://ipc.iisc.ac.in/~kls/>]; **SC: III.**



2006 : SEN, Abhijit (b 1946), PhD, Sp: Plasma Physics and Non Linear Dynamics; Emeritus Professor and INSA Senior Scientist, *Institute for Plasma Research, Bhat, Gandhinagar 382428*; 846, Nandanvan Society, S.G. Highway, Ahmedabad 380058 [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); **Council:** Mem 2019-; **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>]; **Medal:** SN Bose (2004); **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@iisc.ac.in; Web <http://chep.iisc.ernet.in/Personnel/pages/diptiman/index.html>]; **SC: II.**



2011 : SEN, Kalidas (b 1948), PhD, Sp: Chemical Physics; FASc, INSA Senior Scientist, *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, kds77@uohyd.ac.in]; **Medal:** INSA Young Scientist (1978); **SC: III.**

2018 : SEN, Ranjan (*b* 1967), PhD, Sp: Microbiology, Biochemistry; FNASc, FASc, Staff Scientist VII, *Center for DNA Fingerprinting and Diagnostics, Inner Ring Road, Uppal, Hyderabad 500039*; 503B Surya Towers, Snehapuri Colony, Road No. 2, Nacharam, Hyderabad 500076 [Tel (040) 2721-6103 (O), 2715-8703 (R), 98-661-22652 (M); Fax 2721-6006; Email rsen@cdfd.org.in]; **SC: X.**



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.ac.in]; **SC: V.**



1979 : SEN, Sisir Kumar (*b* 1929), PhD (Chicago), Sp: Metamorphic Petrology & Geochemistry; FNASc; formerly Professor & Dean, IIT, Kharagpur; *B12, Indraprastha Apartments, Plot No 114 IP Extension, Patparganj, Delhi 110092* [Tel 99-716-61943 (M); Email sksen201030@gmail.com]; **Medal:** DN Wadia (2012); INSA Senior Scientist (1994-99); **SC: IV.**



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.**



2017 : SENGUPTA, Sagar (*b* 1968), PhD, Sp: Cancer Biology, Cell Biology, DNA Damage Response, DNA Repair, Mitochondria Biology; Staff Scientist VI, *National Institute of Immunology, Aruna Asaf Ali Marg, New Delhi 110067*; Flat 1602, Plot 95, Golfink Apartment, Sector 54, Gurugram 122011 [Tel (011) 2671-5025 (O); Fax 2674-2125; Email sagar@nii.ac.in]; **SC: X.**



1995 : SENGUPTA, Sudipta (*b* 1946), PhD, Sp: Structural Geology & Precambrian Geology; formerly Professor, *Department of Geological Sciences, Jadavpur University, Kolkata 700032*; C-27, 5th Floor, Swinhoe Apartment, 12/1 Swinhoe Street, Kolkata 700019 [Tel (033) 2440-5471 (R), 98-302-30144 (M); Email sudipta20@gmail.com, sudiptasg@yahoo.com]; **Medal:** DN Wadia (2015); INSA Senior Scientist (2011-15); **Council:** Mem 2001-03; **SC: IV.**



2017 : SENTHILKUMARAN, Balasubramanian (*b* 1965), PhD, Sp: Fish Molecular Endocrinology, Developmental Biology and Reproductive Biology; FNASc, Professor, *Department of Animal Biology, School of Life Sciences, University of Hyderabad, PO Central University, Gachibowli, Hyderabad 500046*; A-47, Faculty Quarters, South Campus, University of Hyderabad Campus, University of Hyderabad, PO Central University, Gachibowli, Hyderabad 500046 [Tel (040) 2313-4562/4662 (O), 2301-1854 (R), 94-401-40637 (M); Fax 2301-0120; Email bsksl@uohyd.ernet.in, senthilkumarab@yahoo.com, senthilkumaranbalasubramanian@gmail.com]; **SC: VIII.**





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, Kalakshetra Colony, Besant Nagar, Chennai 600090 [Tel (044) 6748-0921 (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, NASI Senior Scientist & Founder CEO, *Biotechnology Park & Former Director, IITR, Sector-G, Jankipuram Kursi Road, Lucknow 226021*; C-296, Nirala Nagar, Lucknow 226020 [Tel (0522) 405-3004, 236-5050 (O), 278-6437 (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. D-801, Majesto Tower, Lodha Meridian Apartments, Rain Tree Park Road, Kukatpally Phase 5, Hyderabad 500085* [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, Professor of Eminence, *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) 2674-1501 (O), 2674-2528, 2674-2480 (R), 99-584-20001 (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 2016-18; **SC: X.**



2007 : SHANBHAG, Bhagyashri Achut (*b* 1950), PhD, Sp: Biology of Reproduction and Endocrinology, Behavioral Ecology; FASc, FNASc, formerly Professor of Zoology, Karnatak University, Dharwad; *FF4, Trigunatmika Apartments, Haliyal Road, Saptapur, Dharwad 580001, Karnataka* [Tel (0836) 277-5330 (R), 94-481-84536 (M); Email bhagyashrishanbhag@gmail.com]; INSA Senior Scientist (2013-15); **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 maithilis@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 Delhi, Hauz Khas, New Delhi 110016*; 4, C-Street, IIT Campus, New Delhi 110016 [Tel (011) 2659-1350, 2659-1331 (O), 2686-7022, 2659-1929 (R); Email asharma@physics.iitd.ac.in]; **Medal:** INSA Young Scientist (1986), AK Bose Memorial (1991); **Council:** VP 2017-; **SC: V.**



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 Nanomaterials for Energy, Environment, Health and Sensors; 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), Meghnad Saha (2018); **Council:** Mem 2014-16; **SC: V.**



2014 : SHARMA, Eklabya (*b* 1958), PhD, Sp: Ecology; FNASc, Deputy Director General, *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.**





1976 : SHARMA, Man Mohan (b 1937), PhD (Cantab), DSc (*hc*), DEng (*hc*), Sp: Multiphase Reactions and Reactors; FASc, FTWAS, FREng, FRS, Foreign Assoc USNA Engg, FNASc (Hon), LLD(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, 70/36 *Pratapnagar, Sector 7, Sangamner (RHB), Jaipur 302033* [Tel (0141) 279-0317 (R), 94-148-88025 (M); Email sharma.r.sw@gmail.com]; **SC: IV.**



1999 : SHARMA, Rameshwar Prasad (b 1940) PhD, Sp: Genetics, Cytogenetics and Plant Biotechnology; FASc, FNASc, FNAAS, INSA Emeritus Scientist & formerly Project Director, National Research Centre on Plant Biotechnology, Indian Agricultural Research Institute, New Delhi 110012; *C-II-204, Eldeco Ananda Apartments, Block-D, Sector 48, Noida 201301* [Tel 98-106-78220 (M); Email rpsnrpcb@yahoo.co.in]; **Medal:** Silver Jubilee Commemoration (2013); INSA Honorary Scientist (2010-15); **Council:** Mem 2001-03; **SC: XII.**



2015 : SHARMA, Shobhona (b 1953), PhD, Sp: Parasite Biology and Immunology; FASc, 1103 *A, Tulsigagan Building, President HS, Plot No 28 & 29, Sector 21, Kharghar, Navi Mumbai 410210* [Tel (022) 2774-3426 (R), 98-923-52830 (M); Email sharma@tifr.res.in, shobhona@gmail.com; Web http://www.tifr.res.in/~dbs/faculty/S_Sharma.html]; **Council:** Mem 2018-; **SC: IX.**



2013 : SHARMA, Surendra Kumar (b 1951), MD, PhD, Sp: General Medicine, Pulmonary, Critical Care and Sleep Medicine & Infectious Diseases; FNASc, FASc, JC Bose National Fellow, Adjunct Professor, *Department of Molecular Medicine, Jamia Hamdard Institute of Molecular Medicine, Hamdard University, Hamdard Nagar, Delhi 110062* & Director Research & Adjunct Professor, Departments of General Medicine & Respiratory Medicine, JNMC, Datta Meghe Institute of Medical Sciences (DMIMS), Sawangi (M), Wardha (Maharashtra); formerly Professor & Head, Department of Medicine, AIIMS, New Delhi [Tel (011) 4940-5842 (O), 2611-5666 (R), 98-990-88092 (M); Email sksharma.aiims2@gmail.com]; **SC: XI.**

2016 : SHARMA, Surinder Mohan (b 1952), PhD, Sp: Materials Behavior under High Pressures and Development of Synchrotron Beamlines; FNASc, FASc, Retd DAE Distinguished Scientist & Director, Physics Group & Head, High Pressure & Synchrotron Radiation Physics Division, BARC, Mumbai; *C-32, Kendriya Vihar Coop Hsg Soc., Sector 38, Nerul, Navi Mumbai 400706* [Tel 98-197-67483, 001 509-715-7281 (M); Email smsharma09@gmail.com]; **SC: VI.**



2013 : SHARMA, Tilak Raj (b 1965), PhD, Sp: Agricultural Biotechnology and Disease Resistance; FNASc, FNAAS, JC Bose National Fellow, Executive Director, *National Agri-Food Biotechnology Institute, Sector 81, Knowledge City, PO Manauli, SAS Nagar, Mohali 140306*; Executive Director's Residence, NABI-Campus, Sec 81, SAS Nagar, Mohali 140306 [Tel (0172) 499-0101/02 (O), 98-183-86057 (M); Fax 522-1100; Email trsharma1965@gmail.com, trsharma@nabi.res.in]; **Medal:** Professor KS Bilgrami Memorial (2018); **SC: XII.**



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, formerly Professor & Head, Department of Biotechnology, All India Institute of Medical Sciences, Ansari Nagar, New Delhi 110029; *C-65, Golfview Apartments, Saket, New Delhi 110017* [Tel 98-108-44106 (M); Email ydsharma_aaims@yahoo.com, ydsharma@hotmail.com]; **SC: VIII.**



2019: SHARMA, Yogendra (b 1959), PhD, Sp: Biophysics; FNASc, FASc; Chief Scientist (Scientist G), *Room S206, CSIR-Centre for Cellular and Molecular Biology, Uppal Road, Hyderabad 500007*; Flat E204, Indu Aranya Pallavi Apt., GSI Post, Nagole, Hyderabad 500068 [Tel (040) 2719-2561 (O), 99-086-30358 (M); Fax 2719-0561; Email yogendra@ccmb.res.in, yogendra.ccmb@gmail.com]; **SC: X.**



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, VP 2016-17; **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.**





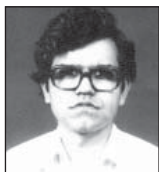
1984 : SHASTRY, Sishta Venkata Seetharama (b 1928), MS, PhD, Sp: Genetics, Plant Breeding & Taxonomy; FASc, FNAAS, formerly Asst Professor & Botanist, IARI, New Delhi; Project Co-ordinator (Rice), ICAR, New Delhi; Sr Agricultural Officer and Exec Secretary IRC, FAO (UN) Rome; Director of Research, International Institute of Tropical Agriculture, Nigeria; "*Ashoka*" 202, *Gautami Apartments, Barkathpura, Hyderabad 500027* [Tel (040) 2755-1666, 99-897-11982 (M); Email svsshastry@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), 90-110-56605 (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, 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, Nandiballi, Via Thovinakere, Tumkur District, Karnataka 572138* [Tel (080) 2363-5555 (O), 94-495-43848 (R); Fax 2353-0070; Email shivanna@atree.org, shivannakr40@gmail.com]; **Lecture: Professor Panchanan Maheshwari Memorial (2004); INSA Senior Scientist (2003-08), INSA Honorary Scientist (2009-15); SC: VII.**



1986 : SHOREY, Tarlok Nath (b 1945), PhD, Sp: Number Theory; FASc, FNASc, INSA Senior Scientist, Adjunct Professor, National Institute of Advanced Studies, IISc Campus, Bengaluru 560012; *2062 Prestige Park View, Near Hope Farm Junction, Kadugodi Road, Whitefield, Bengaluru 560066* [Tel (080) 2218-5000 (O), 4956-2205 (R); Email tarloknathshorey@gmail.com]; **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, Emeritus Professor, *Solid State and Structural Chemistry Unit, Indian Institute of Science, Bengaluru 560012* [Tel (080) 2293-2795 (O), 2337-4075 (R); Fax 2360-1310; Email akshukla2006@gmail.com]; **Medal: Vishwakarma (2018); SC: M.**



2004 : SHYAM LAL (b 1951), PhD, Sp: Atmospheric Science, Ozone Chemistry and Greenhouse Gases; FASc, FNASc, INSA Senior Scientist, *Physical Research Laboratory, Navrangpura, Ahmedabad 380009; A9 Sterling Row House, Gurukul Road, Memnagar, Ahmedabad 380052* [Tel (079) 2631-4938 (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.**



2017 : SIDDAVATTAM, Dayananda (*b* 1957), PhD, Sp: Microbiology; FNASc, Professor, *Department of Animal Biology, School of Life Sciences, University of Hyderabad, Hyderabad 500046*; 345, Doyens Township, Serilingam Palli, Hyderabad 500032 [Tel (040) 2301-3233 (O), 2313-4578 (R), 98-498-85348 (M); Fax 2301-0120; Email siddavattam@gmail.com, sdsl@uohyd.ernet.in]; **SC: IX.**



1995 : SIDDIQ, Ebrahimali Abubacker (*b* 1937), PhD, DSc (*bc*), 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@gmail.com, easiddiq@rediffmail.com]; **Medal:** Silver Jubilee Commemoration (1997), SL Hora (2011); INSA Senior Scientist (2017-18); **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@cmb.res.in, imransiddi@gmail.com]; **SC: VII.**



1988 : SIKKA, Satinder Kumar (*b* 1942), PhD, Sp: High Pressure, Shockwaves, Neutron Diffraction & Energy Bands; FASc, FNASc, 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 sksikka42@gmail.com]; **Medal:** HJ Bhabha (2005); INSA Honorary Scientist (2013-16); **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 Emeritus Scientist, *Apt. 102, Block II, Sixth Floor, Din Apartments, Plot No. 7, Sector 4, Dwarka, New Delhi 110075* [Tel 92-120-68046 (M); Email ajitis@gmail.com]; INSA Honorary Scientist (2013-16); **Council:** Mem 2006-08; **SC: I.**



2019: SINGH, Ashok Kumar (b 1962), PhD, Sp: Genetics and Molecular Breeding in Rice; FNAAS, Head, *Division of Genetics, Indian Agricultural Research Institute, New Delhi 110012*; B-18, Pusa Campus, Indian Agricultural Research Institute, New Delhi 110012 [Tel (011) 2584-1481 (O), 2584-3464 (R), 98-990-45037 (M); Fax 2584-1481; Email aks_gene@yahoo.com]; **SC: XII.**



1992 : SINGH, Balwant (b 1940), PhD, Sp: Algebraic Geometry & Commutative Algebra; FASc, Emeritus Professor, 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), 98-924-50089 (M); 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 Honorary 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); INSA Senior Scientist (2012-17); **Council:** Mem 2010-12; **SC: XII.**



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:** Mem1997-99; **SC: III.**



2012 : SINGH, Harkesh Bahadur (b 1956), PhD (LKO), PhD (Aston), Sp: Organometallic Chemistry, Inorganic Chemistry; FASc, FNASc, JC Bose National Fellow, 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; 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), INSA Honorary Scientist (2013-16); **SC: IV.**



1984 : SINGH, Jamuna Sharan (b 1941), PhD, Sp: Ecology, Ecosystems Analysis & Ecophysiology; FASc, FNASc, FTWAS, INSA Honorary Scientist, Professor Emeritus, *Department of Botany, Banaras Hindu University, Varanasi 221005*; N 4/11 A-2-B-T, Rajiv Nagar Colony, Karaundi, 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); INSA Senior Scientist (2014-16); **Council:** Mem 1989-91; **SC: VII.**



2018 : SINGH, Kulinder Pal (b 1952), PhD, Sp: Astronomy and Astrophysics; FASc, FNASc, Visiting Professor, Department of Physical Sciences, Indian Institute of Science Education and Research, Mohali, Knowledge City, Sector 81, SAS Nagar, Manauli PO 140306, Punjab; formerly Senior Professor, TIFR, Mumbai; *28A, Bank Colony, Patiala 147001* [Tel 90-048-38965 (M); Email singh@tifr.res.in, kps@iisermohali.ac.in, kulinderpal@gmail.com]; **SC: II.**



1986 : SINGH, Mahendra Pal (b 1931), PhD (Maryland), Sp: Applied Mathematics, Air Pollution Modelling and Biofluid Dynamics; FNASc, FASc, formerly Professor, Department of Mathematics, Centre for Biomedical Engg, and Founding Head of Centre for Atmos Science, IIT Delhi; Founding Director, Ansal Institute of Technology, Gurugram; Executive Director, Ansal Institute of Technology and Management, Lucknow; *101/01 Silver Oak Apts, DLF Qutub Enclave, Phase I, Gurugram 122002* [Tel (0124) 408-7186 (O), 436-0833 (R), 99-715-11155, 76-785-62490 (M); Email profmpsingh33@gmail.com, execdir@aitmlucknow.edu.in, mpsingh3@hotmail.com]; **SC: I.**



2019: SINGH, Maya Shankar (b 1960), PhD, Sp: Synthetic Organic Chemistry (Methodology); FNASc, Professor, *Department of Chemistry, Institute of Science, Banaras Hindu University, Varanasi 221005*; #131, KESHAV-MAYA, Janaki Nagar, Bhagwanpur, Samane Ghat Lanka, Varanasi 221005 [Tel (0542) 236-8127 (O), 236-9983 (R), 94-153-72614 (M); Fax 236-8127; Email mayashankarbhu@gmail.com, mssingh@bhu.ac.in, mssinghbhu@yahoo.co.in]; **SC: III.**



2009 : SINGH, Mewa (b 1951), PhD, Sp: Ecology, Animal Behaviour; FASc, FNASc, JC Bose National Fellow, Distinguished Professor, *Department of Psychology, University of Mysore, Manasagangothri, Mysore 570006*; 193, Kuvempu Raste, RT Nagar, Ramakrishnana Nagar PO, Mysore 570022 [Telefax (0821) 241-9372 (O), 234-7327 (R), 94-486-03506 (M); Email mewasinghltm@gmail.com]; **Medal:** SL Hora (2017); **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@nrpcb.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; *125D Kitchlu Nagar, Ludhiana 141001* [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 Honorary 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 pksalga@yahoo.co.in]; INSA Senior Scientist (2011-15); **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 & Humanities, 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, Environmental and Earth System Modelling; FASc, Visiting Professor (Earth Science), *Indian Institute of Technology Gandhinagar, Palaj, Gandhinagar 382355*; formerly Scientist-in-Charge, CMMACS, Bengaluru and Director, NEERI, Nagpur; HB 9-202, IIT Gandhinagar, Gandhinagar 382355 [Tel 93-463-52339 (M); Email rishiprema@gmail.com, rnsingh@iitgn.ac.in]; INSA Senior Scientist (2010-15); **Council:** Mem 2000-2002; **SC: IV.**



1991 : SINGH, Sarva Jit (*b* 1939), PhD, Sp: Theoretical Seismology & Applied Mathematics; FASc, FNASc, Professor Emeritus, Department of Mathematics, Maharshi Dayanand University, Rohtak, Haryana; *22A, Navyug Adarsh Apartments, F Block, Vikaspuri, New Delhi 110018* [Tel (011) 2854-9222 (R), 93-122-50454 (M); Email s_j_singh@yahoo.com]; INSA Honorary Scientist (2009-15); **SC: I.**



1996 : SINGH, Sita Ram (*b* 1942), PhD, Sp: Soil and Water Engineering, Irrigation and Drainage Engineering, Ground Water Modelling; FNAE, FNAAS, 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 Bareilly Road, Lucknow 226025* [Tel 99-356-31990 (M); Email strmsingh@yahoo.com]; INSA Senior Scientist (2008-13), INSA Honorary Scientist (2013-15); **SC: XII.**



2019: SINGH, Sunil Kumar (*b* 1971), PhD, Sp: Low Temperature Geochemistry, Earth Surface Processes and Biogeochemistry of Trace Elements and Isotopes in Ocean; FASc, Director, *CSIR-National Institute of Oceanography, Dona Paula 403004, Goa*; Director Bungalow, CSIR-National Institute of Oceanography, Dona Paula 403004, Goa [Tel (0832) 245-0200/201 (O), 96-070-17855 (M); Fax 245-0602; Email sunil@nio.org]; **SC: IV.**



2003 : SINGH, Surendra Pratap (*b* 1945), PhD, Sp: Ecology, Ecosystem Services, Himalayan Tree Lines and Climate Change; INSA Senior Scientist, formerly Professor and Head, Department of Botany, Kumaun University, Nainital and VC, HN Bahuguna Garhwal University, Srinagar; Advisor, Planning Commission, Uttarakhand State; Chair of Excellence in Ecology and Biodiversity, FRI, Dehradun; *New Vasant Vihar Enclave Lane, Opposite Poly Kids School, Dehradun 248006* [Tel 97-587-65300 (M); Email surps@yahoo.com, spsecology@gmail.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, Distinguished Professor, INSA Senior Scientist, *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) 454-5295 (R), 93-122-49508, 99-538-30047 (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, FTWAS, Professor, *Department of Chemistry, Indian Institute of Technology Kanpur, Kanpur 208016* [Tel (0512) 259-7291/7577 (O), 259-8429 (R), 99-811-44455 (M); Email vinodks@iitk.ac.in; Web <http://home.iitk.ac.in/~vinodks/>]; **Medal:** Professor Subramania Ranganathan Memorial (2018); **Council:** Mem 2014-16; **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, Jubu-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; Visiting Professor, *Department of Chemistry, Indian Institute of Science Education and Research Bhopal, Bhauri, Bhopal Bypass Road, Bhopal 462066*; C-7, Vrindavan States, Pashabhai Park, Race Course Road, Vadodara 390007 [Tel (0755) 269-1355 (O), 99-209-20144 (M); Email vks@chem.iitb.ac.in]; **SC: III.**



2009 : SINGH, Yadvinder (b 1951), PhD, Sp: Soil Science; FNAAS, INSA Honorary 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); INSA Senior Scientist (2011-15); **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]; **Council:** Mem 2018-; **SC: II.**



2013 : SINGH, Yogendra (b 1957), PhD, Sp: Bacterial Pathogenesis, Bacterial Protein Toxins, Signal Transduction in Bacteria; FASc, FNASc, Professor, *Department of Zoology, University of Delhi, Delhi 110007*; BA-11, Shalimar Bagh (West), Delhi 110088 [Tel 98-710-95673 (M); Email ysinghdu@gmail.com]; **SC: IX.**



1989 : SINGHI, Navin Kumar Madhavprasad (b 1949), PhD, Sp: Discrete Mathematics & Computer Science; FASc, 1601 Montreal Tower, Shastri Nagar, Lokhandwala, Andheri (West), Mumbai 400053 [Tel 93-241-11460 (R); Email niknavin@gmail.com]; **Medal:** INSA Young Scientist (1977); **SC: I.**

2000 : SINGHVI, Ashok Kumar (b 1950), PhD, Sp: Quaternary Climates 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) 2685-5831 (R), 90-990-61962 (M); Fax 2631-4900; Email 2aksprl11@gmail.com]; **Medal:** Professor K Naha Memorial (2007); **Council:** Mem 2006-08, VP 2018-; **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, U.S.A*; **SC: III.**



2019: SINHA, Alok Krishna (b 1969), PhD, Sp: Plant Physiology and Molecular Biology; FNASc, Staff Scientist VII, *National Institute of Plant Genome Research, Aruna Asaf Ali Marg, New Delhi 110067*; H-VB-D1-002, NIPGR Campus, Aruna Asaf Ali Marg, New Delhi 110067 [Tel (011) 2673-5188 (O), 98-684-74090 (M); Fax 2674-1658; Email alok@nipgr.ac.in, alokksinha@yahoo.com]; **SC: VII.**



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.**

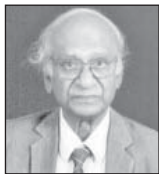


1989 : SINHA, Bikash Chandra (b 1945), PhD, DSc, Sp: Nuclear Physics, High Energy Physics, Quark Gluon Plasma, Early Universe Cosmology; FASc, FNASc, FTWAS, F.Inst. P (UK), INSA Honorary Scientist, DAE Homi Bhabha Professor, formerly Director, *Variable Energy Cyclotron Centre, Department of Atomic Energy, 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), 98-312-90838 (M); 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 (JNCASR), 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, 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), INSA Honorary Scientist (2006-15); **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 Medicine, Oncology (Glioma) and Immunology; FNASc, FASc, FAMS, Professor and Head, *Department of Biochemistry, All India Institute of Medical Sciences, New Delhi 110029; H1/3 Hauz Khas, New Delhi 110016* [Tel (011) 2659-4483 (O), 2696-6586 (R), 98-119-01376 (M); Fax 2658-8641; Email sub_sinha@hotmail.com, sub_sinha2004@yahoo.co.in]; **Lecture:** Professor Vishwa Nath Memorial (2015); **SC: XI.**



2015 : SINHA, Sudeshna (b 1962), PhD, Sp: Nonlinear Dynamics, Chaos and Complex Systems; FASc, FTWAS, 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 Teclincs, 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, drvrsinha@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, Richard Karp Institute Chair 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 (*hc*, Purdue), Sp: Polymer Science; FASc, FNAsc, FNAE, FTWAS, INSA Senior Scientist and Honorary Professor, *Indian Institute of Science Education and Research, Dr. Homi Bhabha Road, Pune 411008*; Apt 10, Gulmohar Glory, 5, Gulmohar Park, ITI Road, Aundh, Pune 411007 [Tel (020) 2590-8434 (O), 4120-5731 (R), 98-607-99954 (M); Email s.sivaram@iiserpune.ac.in; Web <http://www.swaminathansivaram.in>]; **Medal:** Vishwakarma (2003); **Council:** VP 2004-06; **SC: V.**



2012 : SOBTI, Ranbir Chander (b 1948), PhD, DSc, Sp: Cell Biology, Molecular Genetics Cytogenetics, Animals and Humans; FNAsc, FNAAS, FAMS, FTWAS, INSA Senior Scientist, *Department of Biotechnology, Panjab University, Chandigarh 160014*; formerly Vice-Chancellor, Babasaheb Bhimrao Ambedkar University, Lucknow and Panjab University, Chandigarh; Past President, Indian Science Congress Association [Tel (0172) 266-0177 (R), 94-638-00523 (M); Email rcsobti@pu.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 skumar1@iisc.ac.in, ksomasundaram1@gmail.com]; **Medal:** Professor BS Trivedi Memorial (2017); **SC: XI.**



2009 : SONTI, Ramesh Venkata (b 1960), PhD, Sp: Pathogen-plant Interactions; FASc, FNAsc, FNAAS, Director, *National Institute of Plant Genome Research, Aruna Asaf Ali Marg, PO Box No.10531, New Delhi 110067* [Tel (011) 2674-2267, 2673-5169 (O), 2674-2263, 2673-5123 (R), 94-410-55295 (M); Fax 2674-1759; Email director@nipgr.ac.in, sonti@nipgr.ac.in, rameshvsonti@gmail.com]; **Council:** Mem 2018-; **SC: VII.**



1996 : SOOD, Ajay Kumar (b 1951), PhD, Sp: Condensed Matter Physics; FASc, FNAsc, FTWAS, FRS, Year of Science Professor, *Department of Physics, Indian Institute of Science, Bengaluru 560012*; B-805, Hoysala Samruddhi Apartments, 1st Main Road, Talacauvery Layout, Amruthahalli, Byatarayanapura, Bengaluru 560092 [Tel (080) 2360-2238, 2293-2964 (O); Fax 2360-2602; Email asood@iisc.ac.in; Web <http://www.physics.iisc.ernet.in/~asood>]; **Medal:** HJ Bhabha (2002); **Lecture:** Professor KR Rao Memorial (2000); **Council:** VP 2008-10, Pres 2017-; **SC: II.**





1994 : SOPORY, Sudhir Kumar (b 1948), PhD, Sp: Molecular Plant Physiology; FASc, FNASc, FNAAS, FTWAS, SERB Distinguished Fellow, International Centre for Genetic Engineering and Biotechnology, Aruna Asaf Ali Marg, New Delhi 110067; *House No 584, Sector 14, Faridabad 121007, Haryana* [Tel (0129) 222-2208 (R), 98-114-31741 (M); 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-GKVK 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 bvsreekantan@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, 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 sridharanasuri@yahoo.com]; **Medal:** PC Mahalanobis (2005); INSA Senior Scientist (2003-07), INSA Honorary Scientist (2009-15); **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: Climate Science; FASc, FNAE, Distinguished Scientist, Divecha Centre for Climate Change, *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@iisc.ac.in]; **SC: V.**



1985 : SRINIVASAN, Mandakolathor Subramanya (b 1938), PhD, Sp: Oceanic Biostratigraphy & Paleooceanography; 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]; INSA Senior Scientist (2013-16); **SC: IV.**



1987 : SRIVASTAVA, Chandra Mani (b 1932), PhD, DIC (Lond), Sp: Ferro-magnetic 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, JC Bose National Fellow, 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), 94-563-81281 (M); Fax 285-638; Email dpkesfes@iitr.ac.in, dpkesfes@gmail.com]; **SC: IV.**

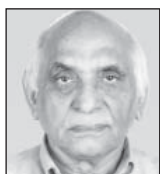




2016 : SRIVASTAVA, Dinesh Kumar (*b* 1952), PhD, Sp: Theoretical Nuclear Physics; FNASc, DAE Raja Ramanna Fellow, formerly Director & Distinguished Scientist, *Variable Energy Cyclotron Centre, 1/AF, Bidhan Nagar, Kolkata 700064*; Senior Professor, Homi Bhabha National Institute (Deemed University); C3/44, Kendriya Vihar, V.I.P. Road, Mondal Ganthi, Kolkata 700052 [Tel (033) 2359-0488, 2318-2316 (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, Sampurnanand 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.**



1987 : SUBBA RAO, Ganugapati Sree Rama (*b* 1937), PhD (Manchester), DSc (Andhra), Sp: Organic Chemistry; FASc, Department of Organic Chemistry, Indian Institute of Science, Bengaluru 560012; *1A, Pradban Apartments, 16/5, 18th Cross Malleswaram, Bengaluru 560055* [Tel (080) 2293-2403 (O), 2346-6430 (R), 98-863-10603 (M); Fax 2360-0529; Email grrs@orgchem.iisc.ernet.in, grrsrao@gmail.com]; **Medal:** Professor TR Seshadri 70th Birthday Commemoration (1997), Golden Jubilee Commemoration (Chem Sc) (2004); INSA Senior Scientist (2003-07), INSA Honorary Scientist (2010-15); **Council: Mem 2001-03; 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, Biotechnology; formerly President Research, Bigtec Private Limited, Bengaluru; *890 N California Ave, Palo Alto, CA-94303* [Tel (+1) (650) 289-8722 (R); Email pvr Rao@gmail.com]; **SC: X.**



1978 : SUBBARAO, Eleswarapu Chinna (*b* 1928), MS, PhD, Sp: Materials Science, R&D Management; FASc, FNAE, *Daamini, 6 Pallod Farms, Baner Road, Pune 411045* [Email 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, *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), 2311-2619 (R), 94-407-34284 (M); Email ksrbrain@gmail.com]; INSA Honorary Scientist (2010-15); **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 Malariology and Vectors Transmitting Dengue, Chikungunya and Zika; FNASc, formerly Director, National Institute of Malaria Research, New Delhi; formerly Consultant, Vector Borne Diseases Science Forum, Epidemiology and Communicable Diseases Division, Indian Council of Medical 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.**



2017 : SUBBARAYAPPA, Bidare Venkatasubbaiah (*b* 1925), PhD, Dottore ab Honorum (University of Bologna, Italy), Sp: History and Philosophy of Science; FNASc, formerly Director (Academic), Nehru Centre, Mumbai; formerly President, IUHPS (DHS); *Dr BV Subbarayappa, Apt. No. 301, KT-3 Apartments, 40th Cross, 8th Block, Jayanagar, Bengaluru 560070* [Tel (080) 2664-1163 (R), 99-802-03329 (M); Email bidare25@gmail.com]; **NC***.



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; *76 Hill Road, Bahlyn North, Victoria, Australia 3104* [Tel 061-3-9859-5414 (R), 061 40-140-4617 (M); Email ncsubra@hotmail.com]; **SC: VII.**



1990 : SUBRAMANIAN, Sankaran (*b* 1942), PhD (Leicester), Sp: NMR, EPR, Theoretical Chemistry, Magnetic Resonance Imaging; FASc, INSA Senior Scientist, Adjunct Professor, *Department of Chemistry, Indian Institute of Technology Madras, Chennai 600036* [Tel (044) 2257-4240 (O), 2243-0942 (R), 95-001-12796 (M); Email subkannan@gmail.com, subkannan@iitm.ac.in]; **SC: III.**



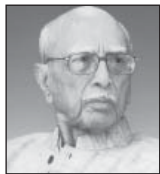
1995 : SUBRAMONIAM, Thanumalayaperumal (*b* 1941), PhD, DSc, Sp: Invertebrate Reproductive Biology & Cryobiology; FAAS, FNASc, Senior Scientist, *Centre for Climate Change Studies, Sathyabama Institute of Science and Technology, Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai 600119; 3/552, 3rd Cross Street, 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 Philosophi 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.**



* NC: New Category (for guidelines refer INSA Website)



1968 : SUKH DEV (b 1923), PhD, DSc, DSc (bc), 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 Hiranandani School, Powai, Mumbai 400076 [Tel (022) 2576-7518 (O), 2570-1052 (R); Email sukhhatme@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, FTWAS, Professor, Centre for Ecological Sciences, TE-13, 3rd Floor, Biological Sciences Building, Indian Institute of Sciences, Bengaluru 560012; FF-101, RP Orchards, 2nd Cross, KEB Layout, Sanjaynagar, Bengaluru 560094 [Tel (080) 2360-0382 (O), 4091-4760 (R); Fax 2360-2280; Email rsuku@iisc.ac.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, drshyamsundar@bhu.ac.in]; **Council:** Mem 2012-14; **SC: XI.**



1996 : SUNDARARAJAN, G (b 1953), PhD, Sp: Surface Engineering & Deformation Behaviour; FASc, FNASc, FNAE, Professor, Department of Metallurgical and Materials Engg, IIT Madras, Chennai 600036; Flat No. 401, Lokeshwari Residency, 1-4-94, Snehanagar Colony, Street No 8, Habsiguda, Hyderabad 500007 [Tel (044) 2257-4759 (O); Fax 2257-4752; Email gsundararajan@iitm.ac.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, Professor, The 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@iisc.ac.in]; **SC: V.**



2018 : SURESH, Byrana Nagappa (b 1943), PhD, Sp: Controls Systems, Actuation Systems, Simulation, Launch Vehicle, Design, System Engineering, Mission Planning and R & D Management; FNAE, Chancellor, Indian Institute of Space Science and Technology, Thiruvananthapuram, Honorary Distinguished Professor, ISRO HQ, Department of Space, Antriksh Bhavan, New BEL Road, Bengaluru 560231; 559, *Shreyas, 3rd Main, 5th Stage BEML Layout, Rajarajeswari Nagar, Bengaluru 560098* [Tel (080) 2341-7294, 2217-2405 (O), 2861-1889 (R), 94-835-02002, 99-000-38502 (M); Fax 2341-5409; Email byranasuresh@gmail.com]; **NC***.



2010 : SURESH, Kattera Appanna (b 1948), PhD, Sp: Soft Condensed Matter (Physics of Liquid Crystals and Surface Science); FNASc, Honorary Professor, *Centre for Nano and Soft Matter Sciences (CeNS), PB No. 1329, Prof. UR Rao Road, Jalahalli, Bengaluru 560013*; No. 92, 4 Main Road, Amarajothi Layout, Cholanagar, RT Nagar Post, Bengaluru 560032 [Tel (080) 2345-6404, 2308-4239 (O), 2333-0887 (R); Fax 2838-2044; Email suresh@cens.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.**



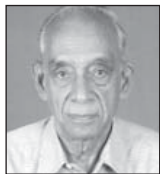
1990 : SUROLIA, Avadhesh (b 1947), PhD, Sp: Protein Folding, Function & Design, Tuberculosis; FASc, FNASc, FTWAS, SERB Distinguished Fellow, Honorary Professor, *Molecular Biophysics Unit, Indian Institute of Science, Bengaluru 560012*; formerly Director, NII, New Delhi [Tel (080) 2293-2714, 2360-2763; Fax 2360-0535; Email surolia@iisc.ac.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*; “Dharini”, #21, Rathna Nagar, Teynampet, Chennai 600018 [Tel (044) 2254-2790, 2254-1229, 2254-1698 (O), 2434-5312 (R); Fax 2254-1319; Email swami@mssrf.res.in]; **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.**



* NC: New Category (for guidelines refer INSA Website)



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.**



2017 : SWAMINATHAN, Soumya (b 1959), MBBS, MD, Sp: Clinical Medical Sciences; FASc, FNASc, FAMS, Secretary, Department of Health Research & Director General, Indian Council of Medical Research, V. Ramalingaswami Bhawan, Post Box No. 4911, Ansari Nagar, New Delhi 110029; B8, Sagarika Apartments, 15, 3rd Seaward Road, Valmiki Nagar, Chennai 600041 [Tel (011) 2658-8204 (O), 94-440-57478 (M); Fax 2658-8662; Email soumya.s@nic.in, doctorsoumya@yahoo.com]; **SC: XI.**



2003 : SWARUP, Ghanshyam (b 1953), PhD, Sp: Molecular and Cell Biology, Molecular Basis of Disease, Cell Signalling, Membrane Vesicle Trafficking; FASc, JC Bose National Fellow, CSIR-Centre for Cellular and Molecular Biology, Uppal Road, Hyderabad 500007; Flat No. 303, Eashanya Residency, Sai Enclave, Habshiguda, 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>]; INSA Senior Scientist (2016-18); **SC: X.**



1975 : SWARUP, Govind (b 1929), PhD (Stanford), DSc (Hons) (Roorkee, Varanasi, Ravi Shankar), Sp: Radio Astronomy; FASc, FNASc, FTWAS, FRS, 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, Sindh 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.**



2018 : TAHSEEN, Qudsia (b 1964), PhD, Sp: Taxonomy and Biology of Fresh water and Soil-Inhabiting Nematodes; FASc, FNASc, Professor, Department of Zoology, Aligarh Muslim University, Aligarh 202002; 4/153N, Shibli Bagh, Hamdard Nagar, Jamalpur, Aligarh 202002 [Tel (0571) 270-0920-23 Ext 3440 (O), 74-174-81607 (M); Email qtahseen@yahoo.com, qtahseen@gmail.com]; **Medal:** INSA Young Scientist (1995); **SC: VIII.**



1989 : TAKKAR, Pran Nath (b 1940), PhD, Sp: Agriculture, Soil Chemistry, Fertility and Plant Nutrition, Micronutrients; FNAAS, INSA Emeritus Scientist, formerly Director, ICAR-IISS and Project Coordinator ICAR-AICRP on Micronutrients ICAR-IISS, Bhopal; H-1/114, First Floor, Lajpat Nagar I, New Delhi 110024 [Tel (011) 4051-5622 (R), 99-539-03254 (M); Email pntakkar@gmail.com]; INSA Honorary Scientist (2010-15); **SC: XII.**

1971 : TALWAR, Gursaran Parshad (b 1926), Docteur es Sciences (Sorbonne Univ., Paris), DSc (*bc*), DSc (*bc*), 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 88-003-22055 (M); 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 (*bc*) 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.**



1979 : TANDON, Prakash Narain (b 1928), MS, FRCS, DSc (*bc*), Sp: Neurosurgery; FASc, FNASc, FTWAS, FAMS, FRSM, Mem, Norsk Videnscap Acad; President, National Brain Research Centre Society, Beside NSG Campus, Nainwal Mode, Manesar 122050; Professor Emeritus, Department of Neurosurgery, AIIMS, New Delhi 110029; *1, 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, Visiting Professor, Department of Earth and Environmental Sciences, IISER, Bhopal; formerly DN Wadia Chair Professor, Department of Earth Sciences, IIT, Kanpur; Department of Geology and Pro-Vice Chancellor, University of Delhi; *Block A, House 566C, Sushant Lok, Phase 1, Gurugram 122009* [Tel (0755) 669-1381 (O), 98-104-37365 (M); Fax 669-2392; Email sktand@rediffmail.com, sktand@iitk.ac.in, sktand@iiserb.ac.in]; **Medal:** INSA Young Scientist (1974); **SC: IV.**



1990 : TEWARI, Hrishu 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; FNASc, FASc, Chief 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]; **Lecture:** Professor VV Narlikar Memorial (2018); **Council:** Mem 2012-14; **SC: I.**



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 Juarez Road, New 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 2016-18; **SC: VIII.**



2018 : TOLE, Shubha (b 1967), PhD, Sp: Neuroscience; FASc, FNASc, Professor, *Department of Biological Sciences, Tata Institute of Fundamental Research, Homi Bhabha Road, Colaba, Mumbai 400005*; 210, Bhaskara, TIFR Complex, Homi Bhabha Road, Colaba, Mumbai 400005 [Tel (022) 2278-2878 (O), 2278-2678 (Lab); Fax 2280-4610; Email shubhatole@gmail.com; Web <http://www.tifr.res.in/~dbs/faculty/stolelab/Home.html>]; **SC: VIII.**



2015 : 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, tripathianil@rediffmail.com]; **Lecture:** Professor BD Tilak (2017); **SC: IX.**



2015 : TRIPATHI, Pradeep Kumar (b 1957), PhD, Sp: Synthetic Organic Chemistry; FNASc, INSA Senior Scientist, formerly 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) 2590-2050 (O), 94-210-78425 (M); Fax 2590-2629; Email pk.tripathi@ncl.res.in]; **SC: III.**

2001 : 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**.



2005 : TRIPATHY, Baishnab Charan (b 1952), PhD, Sp: Plant Physiology, Plant Biotechnology, FNASc, FNAAS, Professor and Dean, *School of Life Sciences, Jamaharlal 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**.



2012 : TRIVEDI, Sandip Parimal (b 1963), PhD, Sp: String Theory and Particle Physics and Cosmology; FASc, Director and Distinguished Professor, *Tata Institute of Fundamental Research, Dr Homi Bhabha Road, Mumbai 400005*; 1010, Bhaskara, TIFR Housing Complex, Dr Homi Bhabha Road, Mumbai 400005 [Tel (022) 2278-2306, 2278-2424 (O), 98-921-05000, 98-672-22878 (M); Fax 2280-4610; Email trivedi.sp@gmail.com, director@tifr.res.in]; **Council: Mem 2016-18; SC: II**.



2002 : 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**.



2007 : 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, 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 (011) 2674-1007 (O), 98-112-33350 (M); Fax 2674-2316; Email narendra@icgeb.res.in, narendratuteja@gmail.com; Web <https://scholar.google.co.in/citations?user=R1QS5FgAAAAJ&hl=en>]; **SC: VII**.



1999 : TYAGI, Akhilesh Kumar (b 1956), PhD, Sp: Plant Biology; FASc, FNASc, FNAAS, FTWAS, Professor, *Department of Plant Molecular Biology, University of Delhi, South Campus, New Delhi 110021*; formerly Director, National Institute of Plant Genome Research (NIPGR), New Delhi; 1, Type V-B Staff Residences, University of Delhi, South Campus, New Delhi 110021 [Tel (011) 2411-5095 (O), 2411-0195 (R); Email akhilesh@genomeindia.org]; **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 110078*; 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 and Head, *Department of Biotechnology, All India Institute of Medical Sciences, Ansari Nagar, New Delhi 110029* & Honorary Visiting Professor, *Centre for Bio-design and Diagnostics, THSTI, Faridabad 121001*; C-II/24, Ansari Nagar, New Delhi 110029 [Telefax (011) 2658-8491 (O), 2659-4544 (R), 98-104-09761 (M); Email jayatyagi.aiims@gmail.com]; **Council: Mem 2015-17; SC: X.**



2006 : UDAYAKUMAR, Makarla (b 1946), PhD, Sp: Crop Physiology, Plant Molecular Biology; FASc, FNASc, FNAAS, INSA Senior Scientist, Co-ordinator, 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.**



2002 : UDGAONKAR, Jayant B (b 1960), PhD, Sp: Physical Biochemistry; Professor and Director, *Indian Institute of Science Education and Research (IISER) Pune, Dr Homi Bhabha Road, Pune 411008* [Tel (020) 2590-8009, 2590-8001 (O); Fax 2025-1566; Email director@iiserpune.ac.in; Web <http://www.iiserpune.ac.in>]; **SC: X.**



2006 : UPADHYAYA, Kailash Chandra (b 1946), PhD (Penn State), Sp: Molecular Genetics and Genomics, Plant Molecular Biology and Biotechnology; FNASc, INSA Senior Scientist, 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) 2673-8730 (O), 4244-8653 (R), 98-711-87171 (M); Email kcupadhyaya@yahoo.com, kcupadhyaya@gmail.com]; **SC: VII.**



2018 : UPRETI, Dalip Kumar (b 1958), PhD, Sp: Lichenology, Biosystematics, Environmental Studies; FNASc, Deputy Director, *CSIR-National Botanical Research Institute, Rana Pratap Marg, Lucknow 226001*; 4-D, South Wing, Shalimar Heights, 28 Jopling Road, Lucknow 226001 [Tel (0522) 229-7850/851 (O), 94-504-00264 (M); Fax 220-5836/39; Email upretidk@rediffmail.com, upretidknbri@gmail.com]; **SC: VII.**

2015 : VAIDYA, Vidita Ashok (*b* 1970), PhD, Sp: Neuroscience; Professor (H), *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, kvaldiya@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, FNAE, FAMS, FTWAS, National Research Professor, *Manipal Academy of Higher Education, School of Life Sciences, Dr TMA Pai 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, formerly Professor, Department of Chemistry, Indian Institute of Technology, Kanpur; *Flat # 602, Wing ‘D’, 6th Floor, Imperial Heights, Near BEST Nagar Colony, Behind Oshiwara Bus Depot, Goregaon (West), Mumbai 400104* [Tel 99-350-62562 (M); 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@iisc.ac.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, FNAE, FNAsc (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 & OADB; Chief Consultant, Planning Commission of India; DG, CSIR and Chairman, Nat. Council of Science Museums; *4A, Girdhar Apts, 28, Feroz Shab 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, INSA Emeritus Scientist, 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, Bindraban, Palampur 176061 (HP) [Tel (011) 2584-2134 (O), 2507-2511 (R), 98-102-17141 (M); Email anupamvarma@vsnl.net, av.acpv@gmail.com, anupamvarma40@hotmail.com]; **Medal:** SS Bhatnagar (2010); **Lecture:** Professor TS Sadasivan (2002); INSA Senior Scientist (2005-10), INSA Honorary Scientist (2010-15); **Council:** Mem 1999-01, VP 2005-07; **SC: VII.**



2014 : VARSHNEY, Rajeev Kumar (b 1973), PhD, Sp: Crop Genetics, Genomics and Molecular Breeding; FTWAS, FNAsc, FNAAS, Research Program Director-Genetic Gains and Director, *Centre of Excellence in Genomics & Systems Biology, CEG Building #300, International Crops Research Institute for Semi-Arid Tropics (ICRISAT), Patancheru 502324, Telangana*; House # IRSH 602/15, ICRISAT Campus, ICRISAT, Patancheru 502324, Telangana [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, *Department of Microbiology and Cell Biology*, and Chairman, *Division of Biological Sciences, 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@iisc.ac.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 Kensington Gardens, 17 HMT Main Road, Bengaluru 560013 [Tel (080) 2293-2382, 2293-2661 (O); Fax 2360-1552; Email svipc@iisc.ac.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, Sharada Nagar, Chikkabommasandra, PB No. 6503, Bengaluru 560065; # 1262, BENAKA, 10th Main, 1st Cross, Judicial Layout, GKVK 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, Karuppanan (*b* 1953), PhD, Sp: Plant Sciences, Plant Biotechnology, Plant Virology; FASc, FNASc, INSA Senior Scientist, formerly Professor, *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 2016-18; 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, *W6-A14, Prasantiniyayam, 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, Colaba, Mumbai 400005; 402, SATYENDRA, Homi Bhabha Road, Colaba, Mumbai 400005* [Tel (022) 2278-2224 (O), 2280-4831 (R); Email venky@math.tifr.res.in]; **Medal: Srinivasa Ramanujan (2016); 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 560055* [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.**





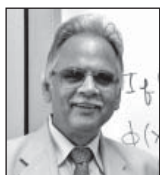
1990 : VENKATESH, Yedatore Venkatakrishnaiya (b 1942), ME, PhD, Sp: System Theory, Signal Processing, Machine & Computer Vision and Neural Networks, Biometrics and Hyperspectral Satellite Image Analysis; FASc, FNAE, formerly Chairman, Division of Electrical Sciences, Dean, Faculty of Engineering, Tata-Chem 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-283, Nilgiri Building, 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, *Department of Chemistry and Coordinator, Center for Nanoscience, 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.**



2017 : VIJAY KUMAR, Panganamala (b 1955), PhD, Sp: Electrical Communication Engineering: Error-Correcting Codes, Wireless Communication; Professor, *Department of Electrical Communication Engineering, Indian Institute of Science, Bengaluru 560012*; 169, 3rd Main, 11th Cross, RMV 2nd Stage, Bengaluru 560094 [Tel (080) 2293-3155 (O), 99-451-79215 (M); Fax 2360-0563; Email pvk1729@gmail.com, pvk@iisc.ac.in; Web <http://ece.iisc.ernet.in/~vijay>]; **SC: V.**



1987 : VIJAYAN, Mamannamana (b 1941), PhD, Sp: Molecular Biophysics, Biological Crystallography and Structural Biology; FASc, FNASc, FTWAS, NASI Platinum Jubilee Senior Scientist, *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@iisc.ac.in; Web <http://mbu.iisc.ernet.in/~mvlab>]; **Professorship:** INSA-Albert Einstein Centenary Research Professor (2013-18); **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, Vashi, New Mumbai 400703* [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 : VIJAYARAGHAVAN, Krishnaswamy (b 1954), PhD, Sp: Developmental Biology and Genetics; FASc, FRS, Principal Scientific Adviser, *GoI, Room No 319, Vigyan Bhawan Annexe, New Delhi 110011*; Former Secretary, DBT [Tel (011) 2469-5482, 2302-2112 (O); Fax 2469-5483; Email vijayaraghavan@gov.in]; **Lecture:** JLNehru Birth Centenary (2007); **SC: VIII.**



2008 : VIJAYARAGHAVAN, 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@iisc.ac.in, uvr123@gmail.com]; **Medal:** Professor Har Swarup Memorial (2018); **SC: VII.**



1993 : VIRK, Daljit Singh (b 1944), PhD & DSc (Birmingham), Sp: Genetics and Plant Breeding; FNASc, FNAAS, Adjunct Professor, *Eternal University, Baru Sahib, HP 173101 & Former 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.**

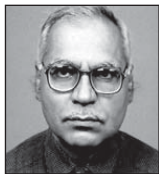


1988 : VISWANADHAM, Nukala (b 1943), PhD, Sp: Global Manufacturing and Service Networks, Logistics; FASc, FTWAS, INSA Senior Scientist, *Indian Institute of Science, Bengaluru 560012*; 529, 2nd Main Road, RMV Extension Stage II, Block III, Bengaluru 560094 [Tel (080) 2293-2693 (O), 2351-9864 (R); Email n.viswanadham@gmail.com]; **SC: V.**



2013 : VISWESWARIAH, Sandhya Srikant (b 1957), PhD, Sp: Biochemistry, Cell Biology; FASc, FTWAS, JC Bose National Fellow, Chair, *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@iisc.ac.in, s.sandhya@gmail.com]; **Medal:** INSA Young Scientist (1988); **SC: X.**





2009 : VIYOGI, Yogendra Pathak (b 1948), PhD, Sp: Experimental Nuclear Physics; FNASc, INSA Senior Scientist, Variable Energy Cyclotron Centre, Kolkata 700064, formerly DAE Raja Ramanna Fellow and Outstanding Scientist, VECC, Kolkata; formerly Director, Institute of Physics, Bhubaneswar; *Block 8, Flat 2B, Diamond City North, Kolkata 700055* [Tel (033) 2318-2414 (O), 98-310-37532 (M); Email viyogi@gmail.com]; **SC: II.**



1997 : WADIA, Spenta Rustom (b 1950), PhD, Sp: String Theory, Quantum Gravity, Statistical Mechanics; FASc, FNASc, FTWAS, Infosys Homi Bhabha Chair Professor, Emeritus Professor & Founding Director, *International Centre for Theoretical Sciences (ICTS-TIFR), Tata Institute of Fundamental Research, Shivakote, Bengaluru 560089*; N-11, ICTS-TIFR, Shivakote, Bengaluru 560089 [Tel (080) 4653-6010 (O), 4653-6480 (R); Email spenta.wadia@icts.res.in; Web <https://www.icts.res.in/people/spenta-wadia/>]; **SC: II.**



2014 : WAGHMARE, Umesh Vasudeo (b 1968), PhD, Sp: Theory, Modeling and Simulations of Materials; FASc, FNASc, Professor, *Theoretical Sciences Unit, Jawaharlal 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), 94-482-87711 (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]; **Council: Mem 2017-;** **SC: VIII.**



2007 : YADAV, Ganapati Dadasaheb (b 1952), PhD (Tech) Sp: Chemical Engineering, Green Chemistry and Engineering, Catalytic Science and Engineering, Energy Engineering; FASc, FNASc, FTWAS, FRSC, 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 gd.yadav@ictmumbai.edu.in, gdyadav@yahoo.com, vc@ictmumbai.edu.in]; **Medal: SH Zaheer (2017); Council: Mem 2019-;** **SC: V.**



1998 : YADAV, Jhillu Singh (b 1950), PhD, Sp: Organic Chemistry; FASc, FNASc, FTWAS, JC Bose Fellow, former Director, CSIR-IICT and Bhatnagar Fellow, Trustee and Director of Research, *Indrashil Institute of Technology, PO Rajpur, Taluka Kadi, Mehsana 382730, Gujarat*; C-3 Quarters, IICT Campus, Tarnaka, Uppal Road, Hyderabad 500607 [Tel (02764) 278-813, 278-815 (O), 2719-3636 (R), 70-690-76528, 98-492-40801 (M); Fax 2716-0512; Email jsyadav@iist.edu.in, yadavfna@gmail.com]; **Lecture: Professor S Swaminathan 60th Birthday Commemoration (2002); SC: III.**

2017 : YADAV, Shrirang Ramchandra (b 1954), PhD, Sp: Angiosperm Taxonomy; FNASc, Professor (Retd), UGC BSR Faculty Fellow, *Department of Botany, Shivaji University, Kolhapur 416004*; NISARG, Gulmohar Colony, Behind Dadu Chougule Nagar, Ujlaiwadi, Kolhapur 416004 [Tel (0231) 260-9389 (O), 260-7025 (R), 94-211-02350 (M); Fax 691-533, 692-333; Email sryadavdu@rediffmail.com]; **SC: VII.**



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), 94-497-66160 (M); Fax 2360-1310; Email yashonath@iisc.ac.in]; **SC: III.**



1999 : YEGNANARAYANA, Bayya (b 1944), PhD, Sp: Signal Processing, Speech, Vision and Neural Networks; FASc, FNAE, FIEEE, FIETE, INSA Senior Scientist, *International Institute of Information Technology, Gachibowli, Hyderabad 500032*; 201, Savitri Nilayam, Lane 23, Road 1, Ravindranagar, Habsiguda, Hyderabad 500007 [Tel (040) 6653-1271 (O), 2715-4526 (R), 94-418-86526 (M); Email yegna@iiit.ac.in, bayya.yegna@gmail.com]; **Medal: SH Zaheer (2014); SC: V.**



FOREIGN FELLOWS



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, adhya@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 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* [Email jallende@uchile.cl].

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 (*h.c.*), 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); 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 eyensu@gmail.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 Morean 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, francisco_barrantes@uca.edu.ar].



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 0RX [Tel (44-1223) 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, Korea National Academy of Sciences, Fellow, American Society of Microbiology, American Association for Advancement of Science; Chief Science Officer, Indigo Agriculture Inc.; National Science Board, National Science Foundation; Professor, *Department of Biology, Washington University, St. Louis, Missouri (USA)* [Email rbeachy@WUSTL.edu].



2019: BHADESHIA, Sir Harshad Kumar Dharamshi (*b* 1953), PhD, Sp: Physical Metallurgy, Alloys of Iron; FRS, Tata Steel Professor of Metallurgy, *Materials Science and Metallurgy, University of Cambridge, 27 Charles Babbage Road, Cambridge CB3 0FS, UK; 57 Barrons Way, Comberton, CB23 7EQ, UK* [Tel (44-1223) 263-775, 334-300; Fax 334-567; Email hkdb@cam.ac.uk].



2015 : BHARGAVA, Manjul (*b* 1974), PhD, Sp: Number Theory; FNASc, Fellow, American Mathematical Society, US National Academy of Sciences, Professor, *Department of Mathematics, Princeton University, Princeton, NJ 08544, USA* [Tel (+1) (609) 258-4192 (O); Fax 258-1367; Email bhargava@math.princeton.edu].



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 (33-1) 4476-7612 (R); Fax 4476-7865; Email jacques.blamont@cnes.fr].



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 0049-761-2701-8116; Fax 0049-761- 2701-8117; Email hubert.blum@uniklinik-freiburg.de].



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 tlb20@cam.ac.uk].

2019: BUCKLER, Edward S (b 1970), PhD, Sp: Statistical Genetics; Fellow, American Association for the Advancement of Science; Fellow, US National Academy of Sciences, Research Geneticist, *USDA-ARS, Institute for Genomic Diversity, Cornell University, 159 Biotechnology Bldg, Ithaca, NY 14853-2703* [Tel (607) 255-4520; Fax 255-6249; Email esb33@cornell.edu].



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].



2019: CHEETHAM, Anthony Kevin (b 1946), PhD, DSc (*hc*), Sp: Chemistry of Materials; FRS, FTWAS, FASc, Foreign Member, National Academy of Sciences, India, Mongolian Academy of Sciences; Member, Academia Europaea, German National Academy of Sciences, Leopoldina, American Academy of Arts and Sciences, Goldsmiths' Professor of Materials Science Emeritus, *Department of Materials Science and Metallurgy, University of Cambridge, Cambridge CB0 3FS UK*; Materials Research Laboratory, University of California, Santa Barbara, California 93106 [Tel (44-7411) 930-721; Email akc30@cam.ac.uk].



2000 : COHEN-TANNOUDJI, 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 Supérieure, Laboratoire Kastler Brossel 24, rue Lhomond, 75231 Paris Cedex 05, France*; 38 rue des Cordelières, 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 claudc.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; FRS, 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 Buddhist 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, Member, Am Philosoph Soc, Professor of Chemistry, *Department of Chemistry, 221 Hildebrand Hall, University of California, Berkeley, California 94720, USA* [Tel (510) 643-2735; Fax 642-6340; Email fleming@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 and Honorary Member, Materials Research Society (USA); Fellow and Honorary Member, Materials Research Society of India; Honorary Member, American Nano Society; Fellow of Indian Society of Mathematical Modeling; German National Academy of Sciences, Leopoldina; US National Academy of Engineering; American Academy of Arts and Sciences; EU Academy of Sciences; Academia Europaea; Indian National Academy of Engineering; Indian Academy of Sciences; European Academy of Sciences; 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; Lanzhou University; Zhejiang University; 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].



2018 : GREWAL, Shiv IS (b 1965), PhD, Sp: Epigenetics, Chromatin Modifications and RNA-mediated Chromatin Assembly Pathways; Fellow, US National Academy of Sciences, Fellow, American Academy of Arts and Sciences, NIH Distinguished Investigator, Chief of the Laboratory of Biochemistry and Molecular Biology, Head, *Chromosome Biology Section, National Cancer Institute, National Institutes of Health, Bethesda, MD, 20892, USA*; National Institute of Health, 9000 Rockville Pike, Building 37, Room 6068, Bethesda, MD 20892 [Tel (240) 760-7553 (O); Email shiv.grewal@nih.gov; Web <http://1.usa.gov/1OaVSK3>].



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 Nazdelle Scienze (Ital), (Hon) Permanent Secretary, *Institut de France, Academié 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 (0345) 47239-910; Fax +49 (0345) 47239-919; 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, Hajdribova 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].



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 (O), +41 61 701 7502 (R); 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/david-hopwood>].

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 Klopferspitz 18, D-82152 Martinsried, Germany* [Tel 0049-89-8578-2677 (O); Fax 8578-3516; Email huber@biochem.mpg.de].



2018 : JAGADISH, Chennupati (b 1957), PhD, Sp: Optoelectronics, Nanotechnology and Materials Science; FAA, FTSE, FTWAS, FASc, FNAE, Distinguished Professor and Head of Semiconductor Optoelectronics and Nanotechnology Group, *Department of Electronics Materials Engineering, Research School of Physics and Engineering, Australian National University, Canberra, ACT2601, Australia* [Tel +61 (2) 6125-0363 (O); Fax 6125-0511; Email chennupati.jagadish@anu.edu.au].



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, Laureate, National Medal of Science, 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* [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 (bc), 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 Acad Sc and Humanities, Past President IUPAC, *School of Chemistry, Raymond and Beverly Sackler Faculty of Exact Sciences, Tel Aviv University, Tel Aviv 69978, Israel* [Tel (972) 3-640-8322; Fax (972) 3-641-5054; Email jortner@post.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, FTWAS, 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 Greenoaks, Dr Atherton, CA 94027-2116* [Tel (001-650) 494-9401 (O); Email kailath@stanford.edu, profkailath@yahoo.com; Web www.stanford.edu/~tkailath].



2013 : KLEINER, Matthias (*b* 1955), PhD, Sp: Material Science and Material Processing Modeling, Simulation and Control, Production Engineering, Lightweight Construction; Full Professor IUL TU Dortmund, Fellow, German National Acad. Leopoldina, Fellow, Berlin-Brandenburg Acad. Science, Fellow, Acatech – National Acad. Engineering, Fellow, Acad. Europea, Fellow, Europ. Acad. Sciences and Arts, Fellow, Swiss Acad. Tech. Sciences, Fellow, CIRP-Intern. Acad. Prod. Engineering, Chair, University Council Goethe University Frankfurt; Chair, Global Learning Council; President, German Research Foundation (DFG) (2007-2012), Member of the Scientific Council of the European Research Council (ERC) (2012-2016); 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; Web www.leibniz-association.eu].



1997 : LACHMANN, Sir Peter Julius (*b* 1931), ScD, FRCP, FRCPath, Sp: Immunology; FRS, FMedSci, Foreign Mem Norwegian Acad Sc & Letters, Honorary Mem Czech Academy of Medicine, Mem Academia Europaea; 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*; 38 Conduit Head Road, Cambridge CB30EY, UK [Tel (44-1223) 766-242 (O), 357-842 (R), 44-7941-760460 (M); Fax (44-1223) 766-244 (O); 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 für Stromungsforschung; Corresponding Member, Göttingen 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, Energy Technologies and Policy; FRS, Academia Europea, *Oxford University, Theoretical Physics, Clarendon Laboratory, Parks Road, Oxford OX1 3PU, UK* [Tel 44 (0) 1865-273997; Email c.llewellyn-smith@physics.ox.ac.uk].



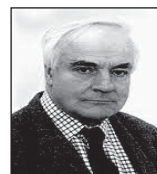
2018 : MAINI, Philip Kumar (b 1959), DPhil (Oxon), Sp: Mathematical Biology; FRS, FMedSci, Statutory Professor of Mathematical Biology, Director, *Wolfson Centre for Mathematical Biology, Mathematical Institute, University of Oxford, Andrew Wiles Building, Radcliffe Observatory Quarter, Woodstock Road, Oxford OX2 6GG, UK* [Tel +44 (1865) 280-497, 283-889 (O), 864-352 (R), +44 (0) 75-052-23670 (M); Email maini@maths.ox.ac.uk].



1986 : MCKENZIE, Dan Peter (b 1942), PhD, DSc (bc), Sp: Earth & Planetary Sciences; FRS, Nat Acad Sc (USA), Member of the Companions of Honour (CH), Emeritus Professor of Earth Sciences, *Department of Earth Sciences, Bullard Laboratories, Cambridge Univ, Madingley Road, Cambridge CB3 0EZ 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) 521 106 6153 (M); Fax +49 (0) 521 106 6146; 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*), LL.D (*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 gnessal@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].



2001 : O'NIONS, Robert Keith (*b* 1944), Director General, *Science and Innovation, Department for Innovation, Universities and Skills, 1 Victoria St., London, SW1H 0ET, 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 Norwegian 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].



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; FASc, 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].



2019: PAYNE, Sir David Neil (*b* 1944), PhD, Sp: Photonics, Optoelectronics (Communication Engineering); FRS, Marconi Fellow, Fellow, Russian Academy of Sciences, Norwegian Academy of Sciences, Member, Russian Academy of Sciences, Director, *Optoelectronics Research Centre, University of Southampton, Southampton, SO17 1BJ, UK*; 13 Sylvan Lane, Hamble, Southampton SO31 4QG, UK [Tel (44-23) 8059-3583, 8059-3142; Email dnp@soton.ac.uk].



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].



2017 : QADRI, Firdausi (*b* 1951), PhD, Sp: Biochemistry, Immunology, Vaccine Research; FTWAS, Fellow, Bangladesh Academy of Sciences; Fellow, American Academy of Microbiology; Senior Director, *Infectious Diseases Division* and Head, *Mucosal Immunology and Vaccinology Unit, ICDDR, b, 68, Shabeed Tajuddin Ahmed Sarani, Mohakhali, Dhaka 1212*; House-48, Road-9, Block-B, Bashundhara R/A, Dhaka 1212 [Tel +880 (02) 982-7035/32 (O); Fax 982-7077; Email fqadri@icddr.org].



2009 : RAM MURTY, Maruti (*b* 1953), PhD, Sp: Number Theory; Fellow Royal Society of Canada, American Mathematical Society, Canadian Mathematical Society, Fields Institute Fellow, Simons Fellow; *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; *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-Cratonule, 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, 4344 Shaw Blvd., St Louis, MO 63110, USA* [Tel (314) 577-9577 (O); (314) 302-1556 (M); 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-Kieselbach-Platz 2, Münchenstift, Haus St. Josef, D-81377, München, Germany* [Telefax (+49 89) 723-9487; Email heinz.rembold@web.de].

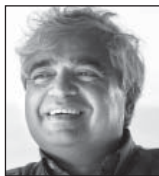


1989 : RIMAN, Josef Vavrinec (b 1925), MD, PhD, DSc (Chem), DSc (Biol, hc), Sp: Biochemistry & Molecular Biology of Retroviruses; Full Mem, Central European Acad Sc & Art, CS Acad Sc, Hon Mem, Hungarian Acad Sc, Biol Chem Soc, Foreign Mem, Bulgarian Acad Sc, Acad Sc USSR, Russian Acad Sc, Acad Sc GDR, 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 Sciences, 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].





2019: SACHDEV, Subir (*b* 1961), PhD, Sp: Condensed Matter Theory; Fellow, US National Academy of Sciences, American Physical Society, Department Chair and the Herchel Smith Professor of Physics, *Department of Physics, Harvard University, Cambridge, MA 02138, USA* [Tel (617) 495-3923; Fax 496-2545; Email sachdev@g.harvard.edu].



2018 : SMITH, Peter (*b* 1965), PhD, Sp: Climate Change Impacts and Mitigation Options in Agriculture, Land and Soils; FRS, FRSE, Professor of Soils & Global Change, *Institute of Biological and Environmental Sciences, University of Aberdeen, 23 St Machar Drive, Aberdeen, AB24 3UU, Scotland, UK*; Moorlands Cottage, Hightown, Collieston, Ellon, AB41 8RS, Scotland [Tel +44 (1224) 272-702 (O), 79-564-57886 (M); Fax 272-703; Email pete.smith@abdn.ac.uk; Web <http://www.abdn.ac.uk/ibes/people/profiles/pete.smith>].



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].



2017 : STAROBINSKY, Alexei A (*b* 1948), MS, PhD, Sp: Gravitation, Astrophysics & Cosmology; FNASc, Fellow, Russian Academy of Sciences, Foreign Associate, US National Academy of Sciences; Member, German National Academy of Sciences, Leopoldina, Norwegian Acad Sc & Letters, Physicist, Principal Research Scientist, *Landau Institute for Theoretical Physics, Moscow 119334, Russia* [Tel 7 (495) 959-3198 (O); Email alstar@landau.ac.ru].



2016 : SUR, Mriganka (*b* 1953), PhD, Sp: Neuroscience; FRS, FTWAS, FAAAS, 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://www.surlab.org>, <http://bcs.mit.edu/sur>, <http://scsb.mit.edu>].

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, *Nanyang Technological University, 50 Nanyang Avenue, Administration Building, Singapore 639798*; formerly Director, US National Science Foundation [Tel (+65) 6592 2694 (O); Email d-po@ntu.edu.sg].



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 1AA, UK; *15, Bittacy Park Avenue, London NW7 2HA, UK* [Tel (44-20) 8346-6291 (R); Email jrtata134@clara.co.uk, Jamshed.Tata@crick.ac.uk].



1985 : THOMAS, Sir John Meurig (b 1932), PhD, DSc, Sp: Solid State, Catalysis, Surfaces, Materials Science; FRS, FREng, FRSE, 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) 334-300 (O); Fax 334-567; Email jmt2@cam.ac.uk].



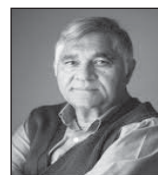
2016 : VALE, Ronald (b 1959), PhD, Sp: Biophysics; FAAAS, Fellow, US National Academy of Sciences, Professor, Department of Cellular and Molecular Pharmacology, Investigator, Howard Hughes Medical Institute (HHMI), *The University of California, San Francisco, GH-N312E, MC 2200, 600 16th Street, San 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; American Cancer Society Professor of Molecular Biology, *1620 Valdes Dr, La Jolla, California, 92037* [Tel 858-551-7558, 858-967-9260 (M); Email imohanv1@gmail.com].





1994 : VIJH, Ashok Kumar (b 1938), OC, CQ, KC StJ, PhD, LLD (*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), Maitre De Recherche, *Institute de Recherched'Hydro-Quebec (IREQ), 1800 blvd. Lionel Boulet, Varennes Quebec, Canada, J3X 1S1*; 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, 120 Oxford Street, Cambridge, MA 02138-2902, USA* [Tel (617) 495-9430 (O); Fax 495-9857; Email gwhitesides@gmwhgroup.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(0)191 334-3580 (O), 384-5642 (R); Fax 334-5823; Email a.wolfendale@durham.ac.uk]; **Medal:** INSA-Vainu Bappu Memorial (2013).



2017 : WOLYNES, Peter Guy (b 1953), PhD, Sp: Theoretical Chemistry, Chemical Physics, Theoretical Biophysics; Fellow, American Physical Society, Fellow, American Academy of Arts and Sciences, Fellow, American Association for the Advancement of Science; Member, National Academy of Sciences, USA, German National Academy of Sciences, Leopoldina, American Philosophical Society, Foreign Member, Royal Society of London, D.R. Bullard-Welch Foundation Professor of Science, *Rice University, Center for Theoretical Biological Physics-BRC, 6100 Main Street, MS 654, Houston, TX 77005, USA* [Tel (713) 348-4101 (O); Email pwolynes@rice.edu].

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, Granites, 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/content/peter-j-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 : ZEWAİL, 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



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: Information Theory; Marconi Fellow, FNAE, FNASc, FASc, FTWAS, FIEEE, FAAAS, 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 (M); Email apaulraj@stanford.edu; Web <http://www.stanford.edu/~apaulraj/>].



2016 : SHARMA, Amit Prakash (*b* 1968), PhD, Sp: Biochemistry, Biophysics, Parasitology, Microbiome; FNASc, FASc, FTWAS, JC Bose National Fellow, Group Leader, *Molecular Medicine, 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 2018

(Effective from 01 January 2019)

Anurag Agrawal (*b* 1972), MBBS, MD, DM, PhD, Director, CSIR-Institute of Genomics & Integrative Biology, Delhi.

For showing that obesity or Air pollution related cellular stress precipitates asthma by affecting the cellular metabolism of Air way epithelial cells. He has shown how donation of mitochondria by stem cells can correct the cellular functions. His contribution to eHealth would enhance health care delivery.

Madhoolika Agrawal (*b* 1958), PhD, Professor, Department of Botany, Banaras Hindu University, Varanasi.

For her significant research contributions on global environmental change including effect of O₃ and UV-B on agricultural crops under field conditions.

Balram Bhargava (*b* 1961), MBBS, MD, DM, Director General, Indian Council of Medical Research, New Delhi.

An outstanding cardiologist and one of the foremost leaders in biomedical innovation, public health and medical education/research. Professor Balaram Bhargava has pioneered a number of medical innovations, of which some are approved for human use. His research and innovation on Indian stents, cardiac compression devices, interosseous needles etc. have influenced health care.

Soumen Chakrabarti (*b* 1969), PhD, Professor, Computer Science, Indian Institute of Technology Bombay, Mumbai.

For the conceptualization and development of powerful algorithms for web search, right from the early days of the Internet. One of his outstanding contributions is *focused crawling* which is a part of current day search engines and rigorously combines text-based search spectral analysis of the web graph. He has pushed the frontier of search far beyond just web page links to directly interpreting and answering questions.

Jayaram Narayanan Chengalur (*b* 1965), PhD, Senior Professor, National Centre for Radio Astrophysics-TIFR, Pune.

For his pioneering work at GMRT, in particular for his very challenging 21 cm radio observations of gas in galaxies at different stages of evolution that had a major impact on our understanding of star formation.

Amita Das (*b* 1965), PhD, Professor, Department of Physics, Indian Institute of Technology Delhi, New Delhi.

For her foundational contributions in the field of laser plasma interactions emphasizing the role of self-generated magnetic fields.

Maitrayee Dasgupta (b 1959), PhD, Professor, Department of Biochemistry, Calcutta University, Ballygunge Science College, Kolkata.

For her outstanding contribution in the field of root nodule symbiosis (RNS), particularly delineating the role of symbiosis and cytokinin signaling in developing RNS in crack-entry legumes like *Arachis*.

Deepak Gaur (b 1972), PhD, Professor, School of Biotechnology, Jawaharlal Nehru University, New Delhi.

For making significant contributions in understanding molecular mechanism of red cell invasion by malaria parasite, and his elucidation of novel candidates for malaria vaccine development.

Samudrala Gourinath (b 1972), PhD, Professor, Structural Biology Lab, School of Life Sciences, Jawaharlal Nehru University, New Delhi.

For establishing a strong structural biology group to study structure-function relation in the infectious microorganisms *Entamoeba histolytica* and *Helicobacter pylori*. He has elucidated the function of Calcium-binding proteins involved in *E. histolytica* phagocytosis. His work has revealed novel features of cysteine biosynthetic enzymes in *E. histolytica* and DNA replication protein in *H. pylori*.

Anil Kumar Gupta (b 1952), PhD, Secretary, Gujarat Grassroots Innovations Augmentation Network (GIAN), Ahmedabad.

For opening new, creative, innovative and entrepreneurial bottom-up paths of progress for millions of creative, inclusive, generous minds of not only India but the world at large. He spawned the inclusive frugal grassroots innovation movement thirty years ago through the Honey Bee Network. It has created institutions some of which became part of national polity (such as SRISTI, GIAN and NIF) but these also redefined the concept of National Innovation systems.

Neeraj Jain (b 1960), PhD, Professor and Scientist VII, National Brain Research Centre, Manesar.

Dr Neeraj Jain's work has increased our understanding of organization and information processing in sensorimotor areas of the mammalian brain. His work on adult brain plasticity and post injury reorganization has direct relevance to human disease.

Dinakar Kanjilal (b 1955), PhD, Former Director, Inter-University Accelerator Centre (IUAC), New Delhi.

For path-breaking development of high temperature superconducting electron cyclotron resonance ion source and for significant contributions to controlled modification of material-properties through high energy ion irradiation.

Goutam Kumar Lahiri (b 1960), PhD, Professor, Department of Chemistry, Indian Institute of Technology Bombay, Mumbai.

For his seminal contributions in the area of electron transfer in multi-metal complexes to understand biological processes and several organometallic catalytic reactions.

Souvik Maiti (b 1971), PhD, Senior Principal Scientist, CSIR-Institute of Genomics and Integrative Biology, New Delhi.

For comprehensively studying thermodynamics basis of RNA quadruplexes to understand their role in gene expression. He has used integrated chemical biology approaches by modifying and designing small molecules that can modulate miRNA levels.

Mahitosh Mandal (*b* 1963), PhD, Professor, School of Medical Science and Technology, Indian Institute of Technology Kharagpur, Kharagpur.

For his outstanding contributions to cancer biology, studying the role of both natural and synthetic inhibitors that impact survival and stress related signaling cascades and inhibit tumor growth. He has also innovatively applied the use of nanocomposites loaded with chemo therapeutics to overcome chemo-resistance.

Sushmita Mitra (*b* 1962), PhD, Professor, Machine Intelligence Unit, Indian Statistical Institute, Kolkata.

For her pioneering contributions in the area of neuro-fuzzy computing, pattern recognition, and machine intelligence. She is a pioneer in neuro-fuzzy rule generation which led to the development of neuro-fuzzy expert systems. Her contributions in the use of soft computing in bioinformatics has opened many avenues for the mining of high-dimensional gene expression data.

Vinay Kumar Nandicoori (*b* 1969), PhD, Staff Scientist VII, Signal Transduction Lab1, National Institute of Immunology, New Delhi.

For his seminal contributions towards understanding signaling and survival mechanisms of *Mycobacterium tuberculosis*, and developing technologies to study the pathogen towards translational objectives.

Swapan Kumar Pati (*b* 1968), PhD, Professor, Theoretical Sciences Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Bengaluru.

For his significant contributions to the understanding of novel properties of molecules and materials systems using computational methods.

Nagaraj Guru Prasad (*b* 1974), PhD, Associate Professor, Indian Institute of Science Education and Research Mohali.

For his outstanding contributions to our understanding of the role of immunity and sexual selection in evolution. This work has important implications for speciation.

Krishnamurthi Ramasubramanian (*b* 1969), PhD, Professor, Department of Humanities and Social Sciences, Indian Institute of Technology Bombay, Mumbai.

Professor K Ramasubramanian is a prominent historian of classical Indic science with a strong grounding in the physical sciences as well as Sanskrit. He has done important research on the history of Indian astronomy, and his scholarly translations of the works of the Kerala School of Mathematics constitute a major contribution to an authentic assessment of the remarkable advances made in India foreseeing the development of calculus in Europe a few centuries later.

Nittala Venkata Chalapathi Rao (*b* 1969), PhD, Professor, Centre of Advanced Study in Geology, Institute of Science, Banaras Hindu University, Varanasi.

For his cutting edge research on kimberlites, lamproites, lamprophyres, their entrained xenoliths and mafic dykes has significantly enhanced our understanding of the geodynamic evolution of the Indian lithosphere. He has established a world-class school of deep mantle petrology.

Vajravelu Ravindran (*b* 1965), PhD, Professor H, The Institute of Mathematical Sciences, Chennai.

For his critical work on the computation of the Higgs Boson cross-section and properties that contributed significantly to its discovery.

Krishanu Ray (*b* 1964), PhD, Professor, Department of Biological Sciences, Tata Institute of Fundamental Research, Mumbai.

For contributing significantly towards establishing a role for motor proteins in axonal transport, in particular specific cargo motor interactions. He has also provided key insights into the mechanisms that control sperm release in fruit fly. His work on F actin dynamics has key implications for the ability of animal cells to repel microbial invasion.

Mamiyil Sabu (*b* 1959), PhD, Professor, Department of Botany, University of Calicut, Kerala.

For contributing significantly on the taxonomy of families Zingiberaceae and Musaceae. Besides taxonomical aspects of palynology and cytology of these two families, he has published four monographs and established the largest germplasm collections of Zingiberaceae in India.

Parameswaran Sankaran (*b* 1959), PhD, Professor H, The Institute of Mathematical Sciences, Chennai.

For his significant contributions to topology, group theory, representation theory and algebraic groups. His work on equivariant Schubert calculus has been especially influential. The techniques and ideas of Sankaran proved to be crucial in the construction of Littelmann's bases. His results explicitly describing classical cohomology theories for toric manifolds have influenced works on higher algebraic K-theory and cobordism as well as equivariant compactifications.

Yogendra Sharma (*b* 1959), PhD, Chief Scientist (Scientist G), CSIR-Centre for Cellular and Molecular Biology, Hyderabad.

For discovering novel calcium binding protein superfamily of $\beta\gamma$ -crystallins. Through his work he has established this family as the second most prevalent family of calcium binding proteins after EF-hand family.

Ashok Kumar Singh (*b* 1962), PhD, Head, Division of Genetics, Indian Agricultural Research Institute, New Delhi.

For his outstanding contributions in basic and applied research on rice genetics and molecular breeding and developing 14 basmati rice varieties and hybrids.

Maya Shankar Singh (*b* 1960), PhD, Professor, Department of Chemistry, Institute of Science, Banaras Hindu University, Varanasi.

For his contribution to the development of selective one-pot reactions employing simple and easily available synthons leading to various important intermediates.

Sunil Kumar Singh (*b* 1971), PhD, Director, CSIR-National Institute of Oceanography, Dona Paula, Goa.

For his outstanding research on particle-water interaction and submarine groundwater discharge have provided new insights into regulating the flux and distribution of trace elements and isotopes to the ocean. His work on Re-Os chronometry of black shales enabled direct dating of sedimentary sequences in the country. He has made fundamental contributions on the Himalayan erosion and its linkage to climate and tectonics.

Alok Krishna Sinha (*b* 1969), PhD, Staff Scientist VII, National Institute of Plant Genome Research, New Delhi.

For his significant contribution towards understanding the MAPK cascade in plants. His research on regulation of SUB1A1 by MPK3 during submergence has led to understanding the underlying mechanism of submergence tolerance in rice. Blue light dependent regulation of MYC2 by MPK6 during *Arabidopsis* seedling development is another significant contribution.

FOREIGN FELLOWS ELECTED 2018

(Effective from 01 January 2019)

Harshad Kumar Dharamshi Hansraj Bhadeshia (*b* 1953), Tata Steel Professor of Metallurgy, Materials Science and Metallurgy, University of Cambridge, 27 Charles Babbage Road, Cambridge CB3 0FS, UK.

For his work on the theory of solid-state phase transformations, in particular the prediction and verification of microstructural development in multicomponent steels. He has made a major contribution to the understanding of the complex bainitic transformation to show that different modes of transformation have measurable influences on the final microstructure that has impacted steel manufacturing industry.

Edward S Buckler (*b* 1970), Research Geneticist, USDA-ARS, Institute for Genomic Diversity, Cornell University, 159 Biotechnology Bldg, Ithaca, NY 14853-2703.

For his outstanding contribution to understand the genetic basis of trait variation and to use this natural variation to improve crops. He is the pioneer leader in unifying quantitative genetics with genomics, and then applying these technologies and approaches to a wide range of crops.

Anthony Kevin Cheetham (*b* 1946), Goldsmiths' Professor of Materials Science Emeritus, Department of Materials Science and Metallurgy, University of Cambridge, Cambridge CB0 3FS, UK.

Professor Anthony K Cheetham is one of the world's leading materials chemists. His principal achievements have been in four distinct areas: Structural properties of materials, especially with neutron and synchrotron X-ray methods; Catalysis with zeolites and other materials; Oxides for solid-state lighting and Metal-Organic Frameworks (MOFs).

Sir David Neil Payne (*b* 1944), Director, Optoelectronics Research Centre, University of Southampton, Southampton, SO17 1 BJ, UK.

For his contributions in fibre fabrication in the 70's resulted in almost all of the special fibres in use today. He led the team that in 1985 first announced the silica fibre laser and the Erbium-Doped Optical Amplifier (EDFA), the device that fuelled an explosive growth in the internet through its ability to transmit and amplify vast amount of data. The fibre laser is now also undergoing rapid growth for application in manufacturing and defence.

Subir Sachdev (*b* 1961), Department Chair and the Herchel Smith Professor of Physics, Department of Physics, Harvard University, Cambridge, MA 02138, USA.

Professor Subir Sachdev is a world renowned condensed matter theorist, with many seminal contributions to the theory of strongly interacting condensed matter systems. He is a pioneer in the study of systems near quantum phase transitions. He has also pioneered the exploration of the connection between physical properties of modern quantum materials and the nature of quantum entanglement in their many-particle state, elucidating the diverse varieties of entangled states of quantum matter.

FELLOWSHIP – SECTIONAL COMMITTEEWISE

SECTIONAL COMMITTEE-I

Mathematical Sciences: Applied Mathematics, Pure Mathematics, Theoretical Computer Science, Statistics

Total Fellows: 76

<i>Name</i>	<i>Specialization</i>
Adimurthi A	Partial Differential Equations
Agrawal M	Theory of Computation
Balaji V	Mathematics
Balasubramanian R	Theory of Numbers
Bambah RP	Number Theory and Discrete Geometry
Bapat RB	Combinatorial Matrix Theory, Generalised Inverses
Bhat BVR	Mathematics
Bhatia R	Mathematics: Matrix Analysis, Functional Analysis, Harmonic Analysis
Bhatwadekar SM	Commutative Algebra and Algebraic Geometry
Bhosle UN	Algebraic geometry
Bhutani OP	Applied Mathematics, Symmetries and Differential Equations
Biswas I	Algebraic Geometry
Bose Arup	Statistics and Probability
Bujurke NM	Applied Mathematics, Fluid Mechanics, Computational Techniques, Krylov Subspace Methods, Wavelets, Physiological Fluid Flows
Chaudhuri P	Statistics
Dani SG	Ergodic Theory, Lie Groups, Probability Measures on Groups, History of Mathematics
Dey Aloke	Statistics
Gurjar RV	Algebraic Geometry
Hans-Gill RJ	Geometry of Numbers, Number Theory, Discrete Geometry
Jain MK	Differential Equations - Numerical Solution
Jain PC	Numerical Mathematics, Computational Algorithms
Joseph KT	Hyperbolic Conservation Laws and Parabolic PDES, Boundary Layers and Delta Shocks
Kannan V	Mathematical Analysis and Topology

Karandikar RL	Probability and Statistics
Khanduja SK	Algebra, Algebraic Number Theory
Mahan MJ	Hyperbolic Geometry, Geometric Group Theory, Topology of Algebraic Varieties
Misra G	Operator Theory
Mukerjee R	Statistics (Design of Experiments, Asymptotic Theory, Survey Sampling)
Mukunda N	Mechanics, Optics, Mathematical Physics
Nadkarni MG	Harmonic Analysis and Ergodic Theory
Nagaraj DS	Algebraic Geometry
Narasimhan MS	Analysis, Differential Geometry and Algebraic Geometry
Natarajan S	Number Theory
Nori MV	Algebraic Geometry, Commutative Algebra
Parameswaran AJ	Algebraic Geometry
Paranjape K	Geometry
Parimala R	Algebra
Parthasarathy KR	Probability Theory & Quantum Information Theory
Parthasarathy R	Representations of Lie Groups
Parthasarathy T	Game Theory & Mathematical Programming
Passi IBS	Algebra
Prakasa Rao BLS	Mathematical Statistics
Prasad Dipendra	Automorphic Form, Number Theory
Prasad G	Lie & Algebraic Group
Prasad P	Theory of Wave Propagation, Partial Differential Equations & Fluid Dynamics
Radhakrishnan J	Theoretical Computer Science, Complexity Theory, Discrete Mathematics
Raghunathan MS	Lie Groups, Algebraic Groups, Discontinuous Groups
Rajan CS	Arithmetic Geometry, Automorphic forms, Representation theory
Ramachandran B	Analytical Probability Theory
Ramadas TR	Algebraic and Differential Geometry, Mathematical Physics
Ramanan S	Algebraic and Differential Geometry
Ramdorai Sujatha	Algebra, Geometry, Number Theory
Rao CR	Statistics & Matrix Algebra
Rao Ravi A	Classical K-theory
Rudraiah N	Applied Mathematics, Fluid Mechanics
*Sankaran P	Topology, Representation Theory
Seshadri CS	Algebraic Geometry & Algebraic Groups
Sharan Maithili	Applied Mathematics: Atmospheric Science

Sharma VD	Quasilinear Systems of Hyperbolic Partial Differential Equations and Nonlinear Wave Phenomena
Shorey TN	Number Theory
Shrikhande SS	Combinatorics and Graph Theory
Singh AI	Functional Analysis, Harmonic Analysis, Quantum Information Theory
Singh Balwant	Algebraic Geometry & Commutative Algebra
Singh MP	Applied Mathematics, Air Pollution Modelling and Bio-fluid Dynamics
Singh SJ	Theoretical Seismology & Applied Mathematics
Singhi NKM	Discrete Mathematics & Computer Science
Sinha KB	Spectral Theory & Non-commutative Geometry & Stochastic Processes
Sridharan R	Algebra
Srinivas V	Algebra, Algebraic Geometry
Sunder VS	Subfactors, Operator Algebras, Functional Analysis
Suresh V	Algebra and Algebraic Geometry
Thangavelu S	Harmonic Analysis
Veerappa Gowda GD	Partial Differential Equations in Particular, Conservation Laws and Hamilton-Jacobi Equations, Theory and Numerics
Venkatachalappa M	Applied Mathematics: Fluid Mechanics, Magneto-hydrodynamics
Venkataramana TN	Algebraic Groups, Arithmetic Groups, Automorphic Forms
Verma JK	Mathematics (Algebra)

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: 135

<i>Name</i>	<i>Specialization</i>
Agarwal GS	Quantum Optics, Nano Photonics, Plasmonics
Agrawal BK	Condensed Matter Physics, Nanostructures and Superconductivity
Ananthakrishnan S	Radio Astronomy
Antia HM	Solar Physics and Numerical Techniques
Apparao KMV	Astronomy, Astrophysics, Space Physics
Ayyub P	Condensed Matter Physics (Nanostructured Materials)
Aziz T	Experimental High Energy Physics
Banerjee Sunanda	Experimental High Energy Physics
Barma M	Statistical Physics & Condensed Matter Physics

Baskaran G	Condensed Matter Physics, Statistical Mechanics and Theoretical Biology
Bhat SV	Physics of Materials
Bhatnagar AK	Experimental Solid State & Materials Science, Superconductivity and Magnetism, Glasses, Films & Nano Materials
Bhattacharjee SM	Theoretical Condensed Matter Physics
Bhattacharyya G	High Energy Physics (Theory)
Bhawalkar DD	Lasers and their Applications
Budhani RC	Physics, Physics of Quantum Materials (Superconductivity and Magnetism in Low Dimensional Systems)
Buti B	Plasma Physics
Chaddah P	Condensed Matter Physics
Chakrabarti BK	Statistical and Condensed Matter Physics
*Chengalur JN	Astronomy
Chidambaram R	Materials Science and Crystallography, High Pressure Physics and Nuclear Technology
Chitre SM	Theoretical Astrophysics
Chopra KL	Solid State Physics, Science and Technology of Thin Films and Nanomatter
Choudhuri AR	Theoretical Astrophysics, Solar Physics, Magnetohydrodynamics
Choudhury D	Theoretical High Energy Physics
Chowdhury D	Statistical Physics, Biological Physics
Cowsik R	Astrophysics, Elementary Particles Cosmology, Gravitation
Damle Kedar	Condensed Matter and Statistical Physics
*Das Amita	Physics
Das SP	Theoretical Condensed Matter Physics
Dasannacharya BA	Condensed Matter Physics, Neutron & X-ray Scattering
Dasgupta C	Theoretical Condensed Matter Physics and Statistical Mechanics
Datta A	Particle Physics
Dattagupta S	Structure and Dynamics of Condensed Matter
Dhar Deepak	Statistical Physics
Dighe A	High Energy Physics
Gavai RV	Theoretical High Energy Physics, Quantum Field Theory on Lattice, Quark-Gluon Plasma, Heavy-Ion Collisions and Phase Transitions in Early Universe
Ghosh A	Experimental Condensed Matter Physics at Ultra-low Temperature, Nano Electronics, Semiconductor Physics

Ghosh BG	Condensed Matter Physics
Godbole Rohini M	Theoretical High Energy Physics
Gopakumar R	Theoretical Physics
Goswami Srubabati	High Energy Physics
Gupta LC	Superconductivity and Magnetism in Quaternary Borocarbides and Intermetallics, Nuclear Magnetic/Quadrupole Resonance and μ -SR Studies, Valence Fluctuations and Heavy Fermions
Gupta S	Theoretical High Energy Physics, Statistical Mechanics in Quantum Field Theory, Quantum Chromodynamics and Strong Interactions
Gupta SN	High Energy Physics
Jayannavar AM	Condensed Matter Physics (Theory)
Jha SS	Solid State Physics and Optoelectronics
Jog CJ	Astrophysics of Galaxies
Joshi PS	Gravitation Theory and Cosmology
Joshi SK	Solid State Physics
Joshiyura AS	High Energy Physics
Kailas S	Accelerator Based Nuclear Physics and Applications
Kapoor SS	Nuclear Physics, Particle Detectors, Particle Accelerators & Applications
Kaul RK	Quantum Field Theory, High Energy Physics & Quantum Gravity
Kaul SN	Condensed Matter Physics, Materials Science, Nanoscience and Nanotechnology
Khare A	Plasma Physics, Statistical Mechanics, Critical Phenomenon
Khare AV	Theoretical Physics
Krishan Lal	Physics of Materials
Krishna G	Radio Astronomy and Cosmology (Radio Galaxies and Quasars)
Krishna P	Crystallography, Crystal Growth, Education, Science & Society
Krishnamurthy HR	Theoretical Condensed Matter Physics, especially Quantum Many-Body Theory & Statistical Physics
Kulkarni SK	Nanotechnology, Materials Science, Surface Science
Lakshmanan M	Nonlinear Dynamics & Theoretical Physics
Lawande SV	Theoretical & Mathematical Physics
Madhusudana NV	Liquid Crystals
Maharana J	String Theory and Quantum Gravity
Maiti K	Condensed Matter Physics
Malik SK	Magnetism, Valence Fluctuation & Superconductivity
Mandal Gautam	Quantum Field Theory, String Theory and Gravitational Physics
Mathews PM	Geodynamics, Relativistic fields and Stochastic Processes
Mathur D	Atomic and Molecular Physics, Biological Physics

Mitra AN	Quarks, Particles, Nuclei & Fields
Mitra P	Theoretical Physics
Mohanty B	Experimental High Energy Physics, Phenomenology of Quark Gluon Plasma, QCD Phase Diagram and Direct Dark Matter Search
Mondal NK	Experimental Particle Physics, Accelerator Based and Non-Accelerator Based Particle Physics, Neutrino Physics
Mukhi Sunil	Theoretical High Energy Physics, String Theory
Nagarajan R	Superconductivity, Valence Fluctuation, Mossbauer Spectroscopy, Instrumentation
Narlikar AV	Superconductivity and Nanostructures
Narlikar JV	Cosmology and Theoretical Astrophysics
Nityananda R	Optics, Statistical Physics, Gravitational Dynamics
Padmanabhan T	Physics (Gravitation Quantum Theory, Cosmology)
Pal MK	Theoretical Nuclear Physics
Panda S	Field Theory, String Theory, Supergravity and String Cosmology
Pandey D	Condensed Matter Physics, Materials Science, Crystallography, Structural Phase Transition
Pandit Rahul	Statistical Mechanics of Phase Transitions, Condensed Matter Theory, Spatiotemporal Chaos, Mathematical Models for Cardiac Tissue and Turbulence
Pandita PN	Theoretical High Energy Physics
Pandya SP	Nuclear Physics
Pathak KN	Condensed Matter Physics/ Solid State Physics
Prakash S	Plasma Physics, Upper Atmospheric Physics and Space Borne Payload
Puri S	Physical Sciences
Rajaraman R	Theoretical Physics, Nuclear Policies
Rajasekaran G	High Energy Physics & Quantum Field Theory
Ramakrishnan TV	Theoretical Condensed Matter Physics and Statistical Mechanics
Ramamurthy VS	Nuclear Physics, Ion Beam Applications & Science and Technology Policy
Ramanamurthy PV	High Energy Astrophysics & Cosmic Rays
Ramaswamy SR	Condensed Matter, Statistical & Biological Physics
Rao Madan	Statistical Physics, Nonequilibrium Statistical Physics, Soft Matter, Biological Physics, Cell and Tissue Biophysics
Ravindra Kumar G	Physics (Nonlinear optics, study of matter in intense laser fields)
*Ravindran V	High Energy Physics
Raychaudhuri A	Particle Physics including Astroparticle Physics
Raychaudhuri AK	Physics, Low Temperature Physics, Physics of Nanomaterials, Scanning Probe Microscopy

Rindani SD	Particle Physics
Roy P	Astroparticle Physics & Particle Physics: Field Theory & Phenomenology
Roy SM	Foundations of Quantum Theory & Particle Physics
Sahni V	Theoretical Physics
Sampathkumaran EV	Magnetism & Superconductivity
Sanyal MK	Condensed Matter Physics, Surface Physics & Synchrotron X-ray Scattering
Sarkar U	Theoretical Particle and Astroparticle Physics
Sastry S	Statistical Mechanics, Soft Condensed Matter Physics, Chemical Physics
Sen Ashoke	High Energy Physics
Sen D	Theoretical Condensed Matter Physics, Quantum Field Theory
Shastri BS	Condensed Matter Theory, Statistical Mechanics
Sikka SK	High Pressure, Shockwaves, Neutron Diffraction & Energy Bands
Simon R	Classical and Quantum Optics, Foundations of Quantum Mechanics and Quantum Information Theory
Singh KP	Astronomy and Astrophysics
Singh V	Theoretical Physics, High Energy Physics, Foundation of Quantum Mechanics, History and Philosophy of Science
Singh Yashwant	Condensed Matter Theory, Theoretical Biology
Sinha BC	Nuclear Physics, High Energy Physics, Quark Gluon Plasma, Early Universe Cosmology
Sinha KP	Theoretical research on various Phenomena and Condensed Matter Nuclear Science
Sinha S	Nonlinear Dynamics, Chaos and Complex Systems
Sodha MS	Plasmas, Optics & Energy
Sood AK	Condensed Matter Physics
Sreekantan BV	Cosmic Rays, High Energy Astrophysics
Srivastava CM	Ferromagnetic Relaxation & Superconductivity
Srivastava DK	Theoretical Nuclear Physics
Srivastava ON	Physics of Materials, Hydrogen Energy, Nano Science & Technology
Sudarshan ECG	Particles, Quantized Fields, Dynamics Foundations
Suresh KA	Soft Condensed Matter (Physics of Liquid Crystals and Surface Science)
Swarup G	Radio Astronomy
Trivedi SP	String Theory and Particle Physics and Cosmology
Venkataraman G	Condensed Matter Physics
Vijayaraghavan R	Solid State Physics
Viyogi YP	Experimental Nuclear Physics

Wadia SR	String Theory, High Energy Physics, Quantum Gravity
Waghmare UV	Theory, Modeling and Simulations of Materials

SECTIONAL COMMITTEE-III

Chemical Sciences: Analytical, Inorganic, Organic, Physical and Theoretical Chemistry

Total Fellows: 127

<i>Name</i>	<i>Specialization</i>
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
Bera JK	Inorganic Chemistry
Bhaduri S	Inorganic and Organometallic Chemistry and Homogeneous Catalysis
Bhakuni DS	Natural Products, Bio-Organic and Medicinal Chemistry
Bharadwaj PK	Supramolecular 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
Chakravorty A	Inorganic & Structural Chemistry, History of Chemistry
Chandra A	Theoretical Physical Chemistry
Chandrakumar N	Magnetic Resonance Spectroscopy & Imaging, Chemical Physics, Physical Chemistry, Instrumentation
Chandrasekaran S	Organic Synthesis, Organometallic Chemistry, Catalysis
Chandrasekhar J	Computational Chemistry, Drug Discovery, Theoretical Organic Chemistry
Chandrasekhar S	Organic Chemistry (Chemical Sciences)
Chandrasekhar V	Inorganic Chemistry
Chandrashekar TK	Inorganic Chemistry of Biomolecules
Chattaraj PK	Theoretical Chemistry, Nonlinear Dynamics
Chattoraj DK	Surface Chemistry, Biophysical Chemistry

Chaudhuri MK	Inorganic Chemistry
Choudary BM	Catalysts, Nano-Materials and Pharmaceuticals
Das Amitava	Chemistry
Das Suresh	Photochemistry, Photophysics, Liquid Crystals, Organic Functional Materials, Photoresponsive Materials, NIR Absorbing Dyes, Dye Sensitized Solar Cells
Deb BM	Theoretical Chemistry, Chemical Physics
Desiraju GR	Crystal Engineering
Dogra SK	Physical Chemistry and Photo Chemistry
Gadre SR	Theoretical and Computational Chemistry
Gandhi RP	Organic Chemistry
Ganesh KN	Bio-organic Chemistry
George MV	Organic Reactions & Photochemistry, Laser Chemistry
George Thomas K.	Physical Chemistry, Photochemistry, Photophysics and Material Science
Ghosh HN	Chemistry
Ghosh S	Synthetic Organic Chemistry
Ghosh SK	Theoretical Chemistry, Computational Materials Science, Soft Condensed Matter Physics
Gopalakrishnan J	Solid State Inorganic Chemistry
Gopinathan MS	Quantum Chemistry and Non-linear Dynamics
Goswami Sreebrata	Inorganic Chemistry, Coordination Chemistry of Organic pi-Radical Ligands, Metal-Ligand Cooperation, Electro-Proton Storage, Electronic and Optoelectronic Materials
Guru Row TN	X-Ray Crystallography, Structural Chemistry
Hosur RV	Biophysical Chemistry, NMR, Structural Biology
Ila H	Synthetic and Medicinal Chemistry
Iqbal Javed	Organic and Medicinal Chemistry
Jain AC	Organic & Bio-organic Chemistry
Jain DVS	Physical & Theoretical Chemistry
Jemmis ED	Theoretical and Computational Chemistry
Junjappa H	Synthetic and Mechanistic Organic Chemistry
Kartha VB	Analytical Spectroscopy, Atomic & Molecular Physics, Laser Biomedical Applications
Kasturi TR	Synthetic & Mechanistic Organic Chemistry
Kessar SV	Synthetic Organic Chemistry
Khan MMT	Inorganic Chemistry, Homogeneous Catalysis
Khetrpal CL	Chemical Physics, Spectroscopy & NMR
Koitha S	Organic Chemistry

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
*Lahiri GK	Inorganic Chemistry
Lakshmi Kantam 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
Moorthy JN	Physical Organic Chemistry
Moulik SP	Surface and Biophysical Chemistry
Mugesh G	Inorganic 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, Pharmaceutical Cocrystals
Narasimhan NS	Organometallics & Organic Synthesis
Natarajan S	Inorganic Materials Chemistry
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
Pandey GP	Organic Chemistry
*Pati SK	Solid State Sciences
Periasamy M	Organic Chemistry, Organometallic and Chiral Reagents Chemistry
Periasamy N	Physical Chemistry
Pillai VK	Electrochemistry, Materials 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
Ramaraj R	Inorganic and Physical Chemistry
Rama Rao AV	Organic Chemistry, Medicinal Chemistry, Drug Technology, Chiral Synthesis & Technology and Natural Products
Ramasami T	Inorganic & Leather Chemistry
Ramasasha SS	Theoretical Chemistry
Ranu BC	Organic Synthesis, Green Chemistry
Rao CNR	Solid State Chemistry, Spectroscopy & Molecular Structures
Rao CP	Inorganic Chemistry
Rao KJ	Physical 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
Sathyamurthy N	Theoretical, Molecular Reaction Dynamics
Sebastian KL	Theoretical Chemistry
Sen Kalidas	Chemical Physics
Singh Harjit	Organic Chemistry
Singh HB	Organometallic Chemistry, Inorganic Chemistry
*Singh MS	Synthetic Organic Chemistry (Methodology)
Singh V	Organic Chemistry
Singh VK	Organic Chemistry
Sinha APB	Solid State Chemistry
Subba Rao GSR	Organic Chemistry
Subramanian S	NMR, EPR, Theoretical Chemistry, Magnetic Resonance Imaging
Sukh Dev	Organic Chemistry, Natural Products, Drug Discovery, Technology 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

Earth & Planetary Sciences: Surface and Solid Earth Science, Atmospheric Science, Ocean Science and Planetary Science

Total Fellows: 66

<i>Name</i>	<i>Specialization</i>
Ahmad T	Igneous Petrology-Geochemistry & Himalayan Geology
Banerjee DM	Precambrian Sedimentology, Sedimentary Geochemistry
Bhandari N	Earth and Planetary Science
Bhardwaj A	Planetary and Space Science
Bhargava ON	Stratigraphy and Structure with Special Reference to the Himalaya
Bhatia SB	Palaeontology, Micropalaeontology, Stratigraphy
Bhattacharya Abhijit	Petrology, Geochemistry, Tectonics
Bhattacharyya Archana	Ionospheric Physics and Geomagnetism
Bhimasankaram VLS	Applied Geophysics
Dasgupta S	Metamorphic Petrology, Geochemistry, Precambrian Geology
Deb Mihir	Ore Geology, Geochemistry, Precambrian Geology, Mining Environment & Sustainable Development
Dileep Kumar M	Oceanography
Dimri VP	Geophysics, Inversion, Fractals and Signal Processing
Gadgil S	Atmospheric & Oceanic Science, Evolutionary Biology
Gaur VK	Earth and Planetary Sciences
Gopalan K	Geochronology and Isotope Geology
Goswami BN	Tropical Meteorology, Monsoon Dynamics and Predictability of Weather and Climate
Goswami JN	Solar System Studies, Earth and Planetary Sciences
Gupta Alok K	Experimental Mineralogy and Petrology
Gupta Anil K	Micropaleontology, Paleomonsoon and Paleoclimatology
Gupta HK	Seismology, Geophysical Exploration, Ocean Sciences
Haider SA	Planetary Atmospheres, Ionospheres and Magnetospheres, Cometary Coma and Dust
Jain AK	Geology, Structural Geology and Tectonics
Kamra AK	Atmospheric Sciences

Krishna KS	Marine Geophysics, Lithospheric dynamics, Tectonics, Plate Tectonics
Krishnamoorthy K	Atmospheric Aerosols, Radiative Forcing
Lakhina GS	Geomagnetism and Atmospheric Sciences
Mahajan KK	Radio, Atmospheric and Space Sciences
Mandal N	Structural Geology and Tectonics
Merh SS	Structural Geology, Quarternary Geology
Mishra SK	Dynamic Meteorology and Numerical Modelling
Mohanty UC	Tropical Meteorology, Numerical Weather Prediction, Monsoon Dynamics, Meso-scale Modelling of Severe Weather and Climate Modelling
Mujumdar PP	Hydrology
Mukhopadhyay D	Structural and Precambrian Geology
Naqvi SWA	Aquatic Biogeochemistry, Chemical Oceanography and Palaeoceanography
Parthasarathy G	Earth and Planetary Science, Mineralogy, High-Pressure Mineral Physics, Nanogeoscience, Materials Science
Patra AK	Atmospheric and Ionospheric Physics, Radar Probing Techniques
Paul DK	Geochemistry, Isotope Geology, Petrology
Prasad GVR	Vertebrate Palaeontology, Biostratigraphy, Palaeobiogeography, Evolution of Mesozoic Mammals
Rai SS	Geophysical System Modelling, Seismology, Tectonophysics and Geophysical Exploration
Rajamani V	Geochemistry
Rajeevan MN	Atmospheric Science
Rama	Isotope Hydrology
*Rao NVC	Mineralogy, Igneous Petrology, Geochemistry, Geodynamics and Mineral Resources
Rao VP	Marine Geology/Sedimentology
Reddy BM	Atmospheric Sciences & Radio Communications
Reddy CA	Space Physics & Atmospheric Dynamics
Roy AB	Precambrian Geology, Tectonics
Sahni A	Geology, Vertebrate Paleontology 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
Sharma RS	Metamorphic Petrology & Precambrian Geology

Shetye SR	Physical Oceanography
Shyam Lal	Atmospheric Science, Ozone Chemistry and Greenhouse Gases
Singh IB	Sedimentology, Marine Geology, Basin & Facies Analysis, Quaternary Geology
Singh RN	Geophysics, Geophysical, Environmental and Earth System Modelling
*Singh SK	Low Temperature Geochemistry, Earth Surface Processes and Biogeochemistry of Trace Elements and Isotopes in Ocean
Singhvi AK	Quaternary Climates and Geochronology, Radiation Effects and Dosimetry
Srinivasan MS	Oceanic Biostratigraphy & Paleooceanography
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

SECTIONAL 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: 101

Name	Specialization
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, Complex Networks
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
Bhatnagar Shalabh	Stochastic Approximation Algorithms, Optimization via Simulation, Stochastic Control
Bhattacharyya AB	Micro-Electronics
Bhowmick AK	Polymer Science and Engineering
Biswas G	Heat Transfer, Computational Fluid Dynamics, Fluid Mechanics
Borkar VS	Analysis and Control of Stochastic Systems
Chakrabarti PP	Computer Science and Engineering
*Chakrabarti S	Computer Science, Text and Web Search, Social Networks

Chakraborty S	Microfluidics, Nanofluidics and Microscale/Nanoscale Transport Processes
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, Image Processing, Machine Learning and Haptics
Chhabra RP	Chemical Engineering
Chockalingam A	Electrical Engineering (Communications)
Chokshi AH	Metallurgy and Materials Science
Choudhary VR	Catalysis and Chemical Reaction Engineering
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
Dey Subhasish	Applied Hydrodynamics, Turbulence, Fluvial Hydrodynamics
Dutta P	Mechanical Engineering (Heat Transfer, Energy Sciences)
Dutta Majumder DK	Computer Science, Artificial Intelligence, Cybernetics & Pattern Recognition & Fuzzy Logic, Soft Computing, Image Processing, Computer Vision
Dutta Roy SC	Circuits, Systems & 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
Jacob KT	Materials Science and Processing, Thermodynamics of Materials, Phase Equilibria, Materials Extraction, Fuel Cells and Solid State Sensors, High Temperature Corrosion
Jayaram V	Materials Science and Engineering
Jhunjhunwala A	Decentralized Solar Power Systems, Electric Vehicles, Telecommunication, Wireless Communications, Computer Networks, Fibre Optics, Industry-Academia Interaction
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 AK	Chemical Engineering, Polymer Science and 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, Bainitic Steel, Nanofluid
Mashelkar RA	Polymer Science and Engineering
*Mitra S	Computer Science
Mittal S	Unsteady Aerodynamics, Finite Elements, High Performance Computing
Munjaj ML	Technical Acoustics, Industrial Noise Control, Automotive Noise Control
Narahari Y	Computer Science and Electronic Commerce, Game Theory
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 and Machine Intelligence, Pattern Recognition and Image/Video Processing, Fuzzy Systems & Neural Learning, Data Mining and Social Network Analysis, Bioinformatics, Cognitive Machines and Machine-Mind Development
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
Ramamurty U	Mechanical Behavior of Materials, Advanced Materials and Manufacturing

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, Artificial Intelligence, Speech & Script Recognition, Natural Language Processing
Rao VR	Nanoelectronics
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 Ashutosh	Nanotechnology, Patterning and Self-Organization of Soft Materials, Mesomechanics, Colloid and Interface Science, Thin Films, Membranes, Functional Nanomaterials for Energy, Environment, Health and Sensors
Sharma MM	Multiphase Reactions and Reactors
Shyamasundar RK	Computer Science
Singh Bhim	Electrical Engineering
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	Climate Science
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
Venkatesh YV	System Theory, Signal Processing, Machine & Computer Vision and Neural Networks, Biometrics and Hyperspectral Satellite Image Analysis
Vidyasagar M	Control Theory, Statistical Learning Theory, Computational Biology, Quantitative Finance
Vijay Kumar P	Electrical Communication Engineering: Error-Correcting Codes, Wireless Communication
Viswanadham N	Global Manufacturing and Service Networks, Logistics
Yadav GD	Chemical Engineering, Green Chemistry and Engineering, Catalytic Science and Engineering, Energy Engineering
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: 13

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
Jayakrishnan A	Polymer Chemistry, Biomaterials
*Kanjilal D	Material Sciences & Engineering, Accelerator Physics
Malhotra BD	Advanced Soft Electronic Materials including Nano-Materials, Self-Assembled Monolayers, Langmuir-Blodgett Films, Conducting Polymers, Sensors and Biomolecular Electronics
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: 69

Name	Specialization
Abrol YP	Agricultural/Environmental Sciences
Apte SK	Molecular Biology, Biochemistry, Microbial and Plant Biotechnology
Bapat VA	Plant Biotechnology and Genetic Engineering
Bhatnagar RK	Molecular Biology
Chakraborty N	Plant Molecular Biology, Plant Proteomics
Chattopadhyay D	Plant Biology, Plant Genomics

Chattopadhyay S	Plant Sciences (Developmental Biology)
Chopra VL	Genetics, Crop Improvement, Biotechnology
Das Sampa	Plant Molecular Biology, Plant Biotechnology
Dasgupta Indranil	Plant Viruses and Plant-Virus Interactions
*Dasgupta M	Symbiotic Nitrogen Fixation
Ganeshaiiah KNG	Plant Reproductive Ecology, Conservation Biology, Insect Behaviour & Crop Breeding
Grover Anil	Plant Abiotic Stress Responses
Gupta PK	Cytogenetics, Plant Breeding and Biotechnology
Jain SK	Ethnobotany, Plant Taxonomy, Conservation, Medicinal Plants
Jha B	Plant Molecular Biology & Biotechnology, Stress Genomics, Coastal & Marine Biotechnology, Gene Mining and Translational Research
Johri MM	Molecular Biology of Plants
Kesavan PC	Radiation Biology, Genetics, Biodiversity, Sustainability Science
Khurana JP	Photobiology and Signal Transduction Mechanisms in Higher Plants, Plant Genomics
Khurana P	Plant Biotechnology, Molecular Biology, Genomics
Kohli RK	Physiological Ecology, Invasion Plant Ecology, Forestry
Kumar HD	Algology, Ecology, Microbial Biotechnology
Lahiri Majumder AN	Plant Biochemistry & Molecular Biology, Plant Biotechnology
Lavania UC	General and Molecular Cytogenetics, Molecular Systematics and Chromosome Evolution, Medicinal and Aromatic Plants, Phytotechnologies
Maheshwari SC	Botany and Plant Molecular Biology
Malik CP	Cytogenetics, Molecular Plant Physiology and Environmental Science, Biotechnology, Nanotechnology
Meher-Homji VM	Ecology, Bio-climatology, Plant Geography
Mukherjee SK	Plant Molecular Biology
Palni LMS	Plant Physiology & Biotechnology, Plant-Microbe Interactions, Himalayan Issues
Pandit MK	Plant Sciences, Ecogenomics, Conservation Biology
Podile AR	Plant-Microbe Interactions
Raghavendra AS	Botany, Plant Biochemistry, Molecular Plant Physiology and Plant Metabolomics
Rai LC	Phycology, Environmental Microbiology, Abiotic Stress Proteomics and Genomics of Cyanobacteria
Rajam MV	Plant Biotechnology, Polyamine Physiology and RNA Interference
Rajasekharan R	Plant Lipid 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
*Sabu M	Angiosperm Taxonomy, Reproductive Biology, Floristics
Sachar RC	Biochemistry and Molecular Biology
Sane PV	Photosynthesis, Plant Physiology, Biochemistry & Molecular Biology
Sangwan NS	Plant Sciences
Sanjappa M	Plant Taxonomy & Conservation
Savithri HS	Plant Molecular Virology, Enzymology, Protein Chemistry
Sawhney SK	Plant Biochemistry
Shah JJ	Plant Anatomy, Wood Science
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, Microbiology, Algology, Sustainable Agriculture, Research Management
Singh SP	Ecology, Ecosystem Services, Himalayan Tree Lines and Climate Change
*Sinha AK	Plant Physiology and Molecular Biology
Sonti RV	Pathogen-plant interactions
Sopory SK	Molecular Plant Physiology
Srinivasan MC	Mycology, Industrial Microbiology & Enzyme Technology
Subrahmanyam NC	Plant Molecular Biology & Genetics
Tripathi RS	Plant Ecology (Population Ecology, Weed Biology, Forest Ecology, Biodiversity Management, Invasion Biology)
Tripathy BC	Plant Physiology, Plant Biotechnology
Tuteja N	Plant Molecular Biology, Plant Biotechnology, Signal Transduction, DNA/RNA Helicases, Plant Abiotic Stress Tolerance, Plant-Microbes Interactions
Tyagi AK	Plant Biology
Udayakumar M	Crop Physiology, Plant Molecular Biology
Upadhyaya KC	Molecular Genetics and Genomics, Plant Molecular Biology and Biotechnology
Upreti DK	Lichenology, Biosystematics, Environmental Studies
Varma A	Plant Virology, Plant Pathology, Biotechnology, Education
Veluthambi K	Plant Sciences, Plant Biotechnology, Plant Virology

Vijayraghavan U Molecular Genetics, Plant Development
 Yadav SR Angiosperm Taxonomy

SECTIONAL COMMITTEE-VIII

Animal Sciences: Taxonomy, Structure, Function, Physiology, Development, Genetics, Ecology, Behaviour and Evolution of Animals

Total Fellows: 68

<i>Name</i>	<i>Specialization</i>
Ali Sher	Molecular Genetics of Human and Animal Systems
Bamezai RNK	Genetics, Human Genetics
Bhalla US	Computation Neuro Science, Neuro Biology
Bhattacharya Alok	Molecular Parasitology, Genomics, Bioinformatics
Bhattacharya Samir	Comparative Endocrinology and Molecular Signaling
Borges RM	Evolutionary Ecology
Brahmachari Vani	Epigenetics and Development Biology, Molecular Genetics
Dass CMS	Cell Biology, Cellular Ultrastructure & Function, Silkworm Pathology
Datta K	Biochemistry, Molecular & Cell Biology
Datta Munshi JS	Fish & Fisheries, Ecology and Cell Biology
Dighe RR	Molecular Endocrinology, Reproductive Biology, Biotechnology
Dube Anuradha	Medical Parasitology (Leishmaniasis)
Dutta GP	Protozoology, Parasitology, Tropical Diseases, Drug Development, Cell Biology, Microbiology
Dutta Gupta A	Animal Sciences: Insect Molecular Physiology – Hormonal Regulation of Insect Development & Reproduction, Integrated Insect Pest Management
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
Inamdar MS	Stem Cell Biology, Cardiovascular Development, Hematopoiesis, Angiogenesis
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
*Mandal M	Cancer Biology
Marimuthu G	Animal Behaviour and Chronobiology
Muralidhar K	Biochemistry and Endocrinology
Muthukkaruppan V	Immunology, Ocular Diseases, Stem Cell Biology
Nagabushanam 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
*Prasad NG	Evolutionary Genetics
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
*Ray K	Molecular Cell Biology of Spermatogenesis and Intra-Cellular Transport in <i>Drosophila</i>
Roy Syamal	Parasitology, Immunology
Roychoudhury S	Cancer Biology
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
Senthilkumar B	Fish Molecular Endocrinology, Developmental Biology and Reproductive Biology
Setty BS	Reproductive Biology, Fertility Regulation
Shah RV	Comp. Anatomy, General Development Physiology
Shanbhag BA	Biology of Reproduction and Endocrinology, Behavioral Ecology
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
Subbarao SK	Insect Genetics, Cytogenetics, Molecular Entomology & Epidemiology, Transmission Dynamics and Control of Vector-borne Diseases with Special Interest in Malariology and Vectors Transmitting Dengue, Chikungunya and Zika
Subramoniam T	Invertebrate Reproductive Biology, Cryobiology
Sukumar R	Ecology
Tahseen Q	Taxonomy and Biology of Fresh water and Soil-Inhabiting Nematodes
Tewari HB	Cell Biology, Histochemistry, Neurochemistry
Thelma BK	Cytogenetics, Human Genetics and Medical Genomics
Tole Shubha	Neuroscience
Vaidya VA	Neuroscience
Vijayraghavan K	Developmental Biology and 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*

Total Fellows: 21

Name	Specialization
Arankalle VA	Virology, Biotechnology, Vaccinology
Balaji KN	Immunology, Infectious Diseases, Cell Biology
Bhatnagar R	Microbiology, Immunology
Chakravortty D	Microbiology, Infectious Diseases
Chitnis CE	Molecular Parasitology
Dikshit KL	Molecular Biology, Biochemistry
DurgaRao C	Virology, Cell and Molecular Biology, Biotechnology
*Gaur D	Malaria Parasite Biology & Vaccine Development
Kasbekar DP	Fungal Genetics and Molecular Biology
Khanna NC	Biotechnology: Recombinant Proteins of Medical Use
Mitra Debashis	Molecular Virology and Molecular Immunology
Mukhopadhyay S	Immunology and Infection Biology
*Nandicoori VK	Microbiology, Molecular Biology and Cell Signalling

Qadri Ayub	Immunology
Ramamurthy T	Microbiology and Molecular Microbiology
Sahu AK	Complement Biology, Molecular Virology
Sanyal K	Genetics and Genomics of Human Fungal Pathogens, Eukaryotic Chromosome Segregation
Sharma S	Parasite Biology and Immunology
Siddavattam D	Microbiology
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: 102

<i>Name</i>	<i>Specialization</i>
Adhya Samit	Molecular Biology
Ahmad F	Biophysical Chemistry and Biochemistry
Bachhawat AK	Microbial Genetics & Biochemistry / Yeast Glutathione & Sulphur Metabolism
Balaram H	Biochemistry, Metabolism, Molecular Parasitology, Molecular Enzymology
Balaram P	Bioorganic Chemistry and Molecular Biophysics
Balasubramanian D	Biophysical Chemistry, Biomolecular Interactions, Ocular Biochemistry, Protein Structure
Bandyopadhyay Uday	Biochemistry and Cell Biology
Banerjee AC	Viral Pathogenesis and Gene Therapy
Banerjee RK	Cell Biology, Molecular Enzymology
Bansal Manju	Molecular Biophysics, Structural and Computational Biology
Basu J	Molecular and Cellular Biology with special reference to Mycobacteria
Basu SK	Biochemistry, Molecular Biology and Genetics
Bhattacharya Sudha	Molecular Biology, Molecular Parasitology
Bhattacharyya B	Structural Biology, Biochemistry & Molecular Spectroscopy
Brahmachari SK	Structural Biology, Functional Genomics, Open Source Drug Discovery
Chakrabarti P	Molecular Biophysics, X-ray Crystallography and Structural Biology, Bioinformatics
Chandra HGS	Human Genetics, Evolution
Chary KVR	Molecular Biophysics, Structural Biology and NMR Spectroscopy

Chatterjee IB	Biochemistry, Vitamin C, Oxidative Damage, Molecular Mechanisms of Cigarette Smoke-Induced Pathophysiology of different organs and its prevention, Black Tea
Chatterjee SN	Biophysics, Microbiology, Molecular and Genetic Toxicology, Free Radicals Biology
Chatterji D	Biophysical Chemistry, Molecular Biology and Nanobiology
Chattopadhyay A	Membrane/Receptor Biophysics & Biology, Fluorescence Spectroscopy & Microscopy
Chattopadhyay S	Gene Regulation, Cancer Biology and Immunology
Chauhan VS	Peptide as self organizing system and a drug delivery platforms, Malaria Immunology, Subunit Vaccine and Malaria Drug Development
Das HK	Biochemistry, Molecular Biology and Recombinant DNA Technology
Das PK	Biochemistry, Cell Biology, Molecular Parasitology
Das Saumitra	Molecular Virology and Molecular Biology
Dasgupta CK	Biochemistry and Biophysics
Datta AK	Enzymology, Molecular Biology, Parasitology
Datta Asis	Biochemistry, Molecular Biology & Genetic Engineering
Dhar SK	Biochemistry, Molecular Biology, Cell Biology, Parasitology
Easwaran KRK	Molecular Biophysics; Membrane Biophysics, Structural Biology
Ghosh B	Biochemistry, Immunology, Molecular Genetics
Gokhale RS	Chemical Biology
Gopal B	Structural Biology
Gopinathan KP	Molecular Biology and Biotechnology
*Gourinath S	Structural Biology (Infectious Disease)
Govil G	Molecular Biophysics
Gowrishankar J	Microbial Genetics and Physiology, Molecular Biology and Biotechnology
Gupta CM	Membrane Biology and Bio-Organic Chemistry
Gupta KC	Nucleic Acid Chemistry, Nanobiotechnology
Gupta MN	Biochemistry
Hasnain SE	Functional Biology, Molecular Pathogenesis & Dissemination Dynamics of Human Pathogens Particularly <i>M. tuberculosis</i>
Hosur M	Biophysics, X-ray Crystallography
Jayaraman R	Molecular Biology and Microbial Genetics
Kannan KK	Macromolecular Crystallography, Molecular Biology
Kenkare UW	Molecular Enzymology, Structural Biochemistry, Molecular Biology
Kolaskar AS	Molecular Biophysics & Bioinformatics

Krishnamoorthy G	Biophysical Laser Spectroscopy, Macromolecular Dynamics
Kumar Anil	Nuclear Magnetic Resonance Spectroscopy & Applications to Biomolecules & Quantum Computing
Kumar Sushil	Plant and Microbial Genetics/Genomics, Biodiversity, Evolution and Biosafety, Industrial and Food Crops Breeding and Biotechnology
Kundu TK	Regulation of Gene Expression (Transcription) in Humans with Special Emphasis on Disease and Therapeutics and related Chemical Biology
*Maiti S	Chemical Biology and Biophysics
Mandal NC	Molecular Biology
Mande SC	Biophysics
Mayor S	Cell Biology
Mishra GC	Immunology
Mishra RK	Genomics of the non-coding DNA & Epigenetic Regulation and Development
Mohan Rao C	Biophysical Chemistry and Molecular Biology, Protein Folding in Health and Disease, Molecular Diagnostics and Nanobiology
Mohanty D	Computational Biology & Bioinformatics
Mukhopadhyay A	Cell Biology
Muniyappa K	Molecular Genetics, Molecular Cell Biology, Functional Genomics
Murthy MRN	X-ray Diffraction, Macromolecular Crystallography, Protein Structure and Function, Virus Structure and Assembly
Nagaraj R	Peptide Biochemistry, Membrane Biochemistry
Nagaraja V	Molecular Biology of Mycobacteria, Regulation of Gene Expression and Protein-DNA Interactions
Padmanaban G	Biochemistry, Molecular Biology, Malaria
Panda Dulal	Biochemistry, Cell Biology and Biophysics
Prasad R	Membrane Biology, Biochemistry, Fungal Genetics
Ramakrishnan C	Molecular Biophysics
Ramasarma T	Biochemistry, Biological Oxidation
Rangarajan PN	Eukaryotic Gene Expression & Infectious Diseases
Rao BJ	Molecular basis of Genome Dynamics Biophysics of Genome Repair Complexes
Rao DN	Protein-DNA Interactions
Rao MRS	Molecular & Cell Biology, Genomics and Human Molecular Genetics
Rao NA	Enzyme Regulation and Kinetics & Human Genetics
Roy RP	Biochemistry, Synthetic Protein Chemistry, Chemical Biology

Roy S	Biophysics, Biochemistry, Structural Biology, Chemical Biology
Sahni G	Enzymology, Protein Engineering
Salunke DM	Structural Biology, Macromolecular Crystallography, Molecular Biophysics
Sankaranarayanan R	Structural Biology
Saran Anil	Molecular Biophysics & Biomolecular NMR
Sarkar DP	Biochemistry, Molecular Virology, Molecular Cell Biology, Cell Signaling, Biotechnology & Membrane Biology
Sarkar PK	Neurodegenerative Diseases, Molecular Neurobiology, Neuroendocrinology
Sasisekharan V	Biomolecular Structure & Function
Sen Ranjan	Microbiology, Biochemistry
Sengupta S	Cancer Biology, Cell Biology, DNA Damage Response, DNA Repair, Mitochondria Biology
Shaha C	Cell Biology, Biochemistry
Sharma P	Signal Transduction, Biochemistry, Malaria, Neuroscience
*Sharma Y	Biophysics
Singh TP	Structural Biology, Protein Structures, Peptide Design and Drug Discovery
Sowdhamini R	Structural Bioinformatics, Protein Sequence Analysis, Genome Analysis, Function Prediction
Subba Rao PV	Biochemistry, Immunology
Surolia A	Protein Folding, Function & Design, Tuberculosis
Swarup G	Molecular and Cell Biology, Molecular basis of disease, Cell Signalling, Membrane Vesicle Trafficking
Tyagi Anil K	Biochemistry, Molecular Biology
Tyagi JS	Mycobacteriology, Molecular Biology
Udgaonkar JB	Physical Biochemistry
Varadarajan R	Protein Structure and Folding
Varadarajan S	Organic & Biological Chemistry, Molecular Biology, Biotechnology, Engineering Design, Technology Development Transfer, Manufacture, Market Development, New Product Development and Application, Human Nutrition, Policy, Energy, Management Systems
Varshney U	Molecular Biology
Vijayan M	Molecular Biophysics, Biological Crystallography and Structural Biology
Visweswariah SS	Biochemistry, Cell Biology

SECTIONAL COMMITTEE-XI

Health Sciences: *Basic and Clinical Medical Sciences, Anthropology, Psychology, Human Genetics, Public Health, Nutrition*

Total Fellows: 85

Name	Specialization
Acharya SK	Gastro Enterology, Hepatology
Agarwal KN	Paediatrics - Nutrition Growth & Development
Aggarwal R	Medical Sciences, Gastroenterology, Liver Disease, Viral Hepatitis, Epidemiology, Health Economics
*Agrawal A	Medicine, Respiratory Disease Biology, Molecular Physiology
Agrewala JN	Immunology, Tuberculosis, Vaccines, Gut Microbiome
Ali N	Biochemistry/Immunology
Anand Anuranjan	Human Genetics and Genomics
Anand Ashima	Cardiorespiratory & Neurophysiology
Bamji Mahtab S	Biochemistry, Nutrition
Banerjee K	Virology, Immunology and Epidemiology
Basu Anirban	Neurovirology, Neurobiology and Molecular Medicine
Bhan MK	Pediatric Gastroenterology, Pediatric infectious Diseases, Nutrition
*Bhargava B	Medicine (Cardiology) and Medtech Innovation
Bhatnagar Shinjini	Health Sciences
Bhattacharya SK	Diarrhoeal Diseases, HIV/AIDS, Kala-azar, Infectious Diseases
Bhisey RA	Environmental Carcinogenesis, Molecular Epidemiology
Chakrabarti S	Viral Diseases with Special Emphasis on Genetic Characterization of Viruses and Mechanism of Pathogenesis
Chakraborti PK	Molecular Biology & Biochemistry, Molecular Microbiology
Chaturvedi UC	Medical Microbiology, Virology, Immunology
Chowdhury A	Health Sciences: Hepatology
Das BC	Molecular Oncology, Molecular Virology and Human Molecular Genetics
Das Pradeep	Medical Biotechnology and Molecular Parasitology
Dash D	Biochemistry, Thrombus/Platelet Biology, Translational Nanomedicine
Deo MG	Pathology, Oncology, Molecular Medicine
Dey CS	Cell Biology, Molecular Biology, Insulin Signaling, Diabetes, Drug Resistance in Leishmania

Dikshit M	Molecular Pharmacology
Gangal SG	Cancer Immunology, Basic Immunology Genetic Diseases
Ganguly NK	Microbiology, Immunology, Biotechnology, Infectious Diseases, Public Health and Policy
Ghosh A	Molecular Biology of <i>Vibrio cholerae</i>
Giri AK	Genetic Toxicology, Environmental Mutagenesis and Human Genetics and Genomics
Gopalan C	Nutrition and Medical Research
Gupta SK	Reproductive Biology/ Immunology, Immunodiagnostics, Vaccine Development
Jagannathan NR	Clinical and Pre-clinical Cancer Research using Molecular Imaging/Magnetic Resonance Imaging (MRI) & in-vivo NMR Spectroscopy/Functional MRI Studies/NMR Metabolomics/Biophysics
*Jain N	Neuroscience
Jameel S	Virology
John TJ	Medicine : Paediatrics, Microbiology & Virology
Kang G	Medicine, Microbiology, Vaccines, Enteric Infections, Public Health
Kar Premashis	Gastroenterology
Katoch VM	Microbiology & Molecular Biology of Mycobacteria/Mycobacteriology
Kaul Deepak	Molecular Medicine, Functional Genomics, Genomic-Immunity
Kochupillai NP	Endocrinology, Metabolism, Diabetes & Biotechnology
Kondaiah P	Cancer Biology and Biomarkers, Cancer Therapeutics, Gene Regulation by Steroid Hormones
Krishnaswamy K	Internal Medicine
Luthra UK	Pathology, Cytopathology, Cancer Research, Medical Research
Madhubala R	Molecular Parasitology, Functional Genomics
Mahajan RC	Parasitology, Immunology and Microbiology
Malhotra KC	Human Ecology
Mandal C	Cancer Biology, Glycobiology, Immunology
Mathan MM	Pathology, Electron Microscopy
Mathan VI	Gastroenterology, Epidemiology
Mathur A	Medical Microbiology, Virology, Immunology
Mehra NK	Transplant Immunology, HLA and Clinical Immunogenetics
Mishra AC	Epidemiology & Natural Cycle of Viral Diseases
Misra UK	Neurology
Mittra I	Oncology/Cancer Surgery, Fundamental, Clinical and Public Health Research

	in Cancer
Mohan V	Medicine – Diabetes Mellitus
Nair GB	Medical and Molecular Microbiology
Nath Indira	Immunology, Pathology, Communicable Diseases, Leprosy, Medical Biotechnology
Nayak NC	Pathology, Liver Diseases & Cancer
Panda SK	Liver Pathology and Molecular Virology of Hepatitis Viruses
Paul VK	Pediatrics, Health Sciences, Basic and Clinical Sciences / Public Health
Pillai MR	Disease Biology
Ramakrishna BS	Gastroenterology
Randhawa HS	Medical Mycology, Microbiology
Rao KVS	Immunology
Ravindranath V	Neuroscience
Reddy V	Nutrition
Rout D	Neurosurgery, Microneurosurgery, Microvascular Surgery & Neurosciences
Salotra P	Molecular Parasitology and Immunology
Sarin SK	Hepatology and Gastroenterology
Sarkar C	Neuropathology and Neuro-oncology
Seth PK	Biochemical Pharmacology & Toxicology, Neurotoxicology, Neurochemistry, Biotechnology
Sharma SK	General Medicine, Pulmonary, Critical Care and Sleep Medicine & Infectious Diseases
Sinha AKP	Social, Experimental and Personality
Sinha S	Molecular Medicine, Oncology (Glioma) and Immunology
Somasundaram K	Cancer Biology, Virology, Genetics
Srimal RC	Pharmacology, Natural Products & Toxicology
Subba Rao K	Neurochemistry, Molecular Biology of Aging
Sundar Shyam	Medicine, Infectious Diseases, Visceral Leishmaniasis, HIV Medicine
Swaminathan S	Clinical Medical Sciences
Talwar GP	Biomedical Research
Talwar KK	Cardiology
Tandon PN	Neurosurgery
Thangaraj K	Population Genetics and Evolutionary Biology, Clinical and Medical Genetics, Ancient DNA and Forensic Genetics
Valiathan MVS	Cardiac Surgery

SECTIONAL COMMITTEE-XII

Agricultural Sciences: Agriculture, Horticulture, Forestry, Fisheries, Veterinary Science

Total Fellows: 60

<i>Name</i>	<i>Specialization</i>
Abrol IP	Soil Science, Sustainable Agriculture, Research Management
Adhya TK	Environmental Microbiology
*Agrawal M	Ecology and Environmental Science (Air Pollution, Global Environmental Change, Food Chain Contamination)
Arunachalam V	Quantitative Genetics, Plant Breeding, Biodiversity
Bagyaraj DJ	Agricultural Microbiology, Mycorrhizal Symbiosis
Balyan HS	Genetics, Plant Breeding & Crop Biotechnology
Bhatia CR	Genetics, Plant Breeding, Agriculture, Biotechnology
Das P	Biotechnology of Woody Plants & Horticultural Crops
Datta SK	Plant Biotechnology
Dhillon BS	Agricultural Sciences, Genetics
Gadgil MD	Ecology, Environment and Development
Ghosh K	Agricultural Chemistry and Soil Science
Gill BS	Tropical Veterinary Medicine
Gill KS	Genetics and Plant Breeding
Gupta RK	Soil Science, Land Reclamation, Irrigation Water Quality and Conservation Agriculture
Husain A	Plant Pathology
Jain HK	Genetics & Plant Breeding; Agricultural Research Policy
Joshi AK	Agricultural Sciences
Kanwar JS	Soil Science, Agriculture
Khanna-Chopra R	Plant Physiology, Stress Physiology, Biochemistry
Khehra AS	Plant Breeding & Quantitative Genetics
Khush GS	Plant Breeding and Genetics
Kirti PB	Plant Molecular Biology
Lal Rup	Microbial Diversity, Genomics and Metagenomics
Madan Mohan	Agricultural Biotechnology
Mallick N	Algal Biotechnology
Mohapatra T	Agricultural Biotechnology

Mukerjee SK	Organic Chemistry & Agrochemicals
Narain P	Statistical Genetics, Agricultural Statistics
Nautiyal CS	Plant-Microbe Interactions & Soil Microbiology
Paroda RS	Plant Breeding & Genetics
Pathak H	Agricultural Sciences
Pental D	Breeding of Mustard, Transgenic crops
Pradhan AK	Plant Genetics and Molecular Plant Breeding
Prasad Manoj	Plant Genetics & Genomics, Stress Biology
Prasad R	Agronomy, Soil Fertility, Fertilizers, Cropping Systems
Purohit AN	Environmental Plant Physiology, Physiology and Biochemistry of Medicinal Plants
Raina SK	Agricultural Biotechnology
Sangwan RS	Secondary Metabolism and Secondary Agriculture Bioprocessing for Resource Recovery & Value Added Products
Sethunathan N	Environmental Microbiology
Sharma RP	Genetics, Cytogenetics and Plant Biotechnology
Sharma TR	Agricultural Biotechnology and Disease Resistance
Shastry SVS	Genetics, Plant Breeding & Taxonomy
Siddiq EA	Genetics & Plant Breeding
*Singh AK	Genetics and Molecular Breeding in Rice
Singh Bijay	Soil Fertility and Chemistry
Singh N	Food Science and Technology
Singh NK	Plant Genomics, Transgenic Development, Molecular Breeding, Grain Quality in Rice and Wheat
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	Biochemistry & Molecular Genetics of Agriculturally & Medicinally Important Plants, Genomic Diversity in Plants for Precision Breeding, Food and Nutrition Biotechnology
Varshney RK	Crop Genetics, Genomics and Molecular Breeding
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

<i>Name</i>	<i>Specialization</i>
Ananthakrishna G	Theoretical Materials Science and Condensed Matter Physics
Krupanidhi SB	Physics of Materials, Epitaxial Multi-Component Oxides, Compound Semiconductors, Superlattices, Functional Devices & Applications
Majumder PP	Human Genetics, Genetic Epidemiology Biostatistics
Ramaswamy R	Nonlinear Science, Computational Biology and Bioinformatics
Sadashiva BK	Synthesis and Characterization of Liquid Crystalline Materials
Sarma DD	Electronic Structure of Solid
Sen Abhijit	Plasma Physics and Non Linear Dynamics
Shukla AK	Materials Electrochemistry with special emphasis on Batteries, Fuel Cells and Electrochemical Supercapacitors
Sinha Somdatta	Theoretical and Computational Biology, Complex Systems

SECTIONAL COMMITTEE-NC

New Category

Total Fellows: 06

<i>Name</i>	<i>Specialization</i>
*Gupta AK	Inclusive, Frugal and Grassroots Innovation, Institution Building, Sustainable Agriculture, Technological, Educational, Institutional Innovations, Public Policy
Harinarayana K	Aeronautical Engineering
Raina Dhruv	History and Philosophy of Science
*Ramasubramanian K	Non-linear dynamics and Chaos, Indian Astronomy and Mathematics, Advaita Vedanta
Subbarayappa BV	History and Philosophy of Science
Suresh BN	Control Systems, Actuation Systems, Simulation, Launch Vehicle, Design, System Engineering, Mission Planning and R & D Management

LOCAL CHAPTERS AND CONVENERS

(April 1, 2018 – March 31, 2021)

<i>Chapter</i>	<i>Convener</i>
Allahabad (All Fellows in Allahabad)	BK Agrawal
Ahmedabad (All Fellows in Gujarat and Rajasthan)	Shyam Lal
Bengaluru (All Fellows in Karnataka)	RM Borges
Bhubaneswar (All Fellows in Odisha and Bihar)	TK Adhya
Chandigarh (All Fellows in Chandigarh, Haryana, HP, J&K and Punjab)	DP Sarkar
Chennai (All Fellows in Tirupati and Tamil Nadu (except Madurai, Karaikudi and Trichy))	BS Murty
Delhi (All Fellows in Agra, Aligarh, Bhopal, Delhi, Ghaziabad, Gurugram, Gwalior, Meerut, Noida and Sagar)	Subrata Sinha
Hyderabad (All Fellows in Andhra Pradesh)	S Chandrasekhar
Kanpur (All Fellows in Kanpur)	Sandeep Verma
Kharagpur (All Fellows in Durgapur, Kharagpur)	Anindya Sarkar
Kolkata (All Fellows in Burdwan, Jadavpur, Kalyani, Kolkata and Shillong)	HK Majumder
Lucknow (All Fellows in Lucknow, Nainital, Pantnagar and Ranikhet)	AK Tripathi
Madurai (All Fellows in Karaikudi, Madurai, Puducherry and Trichy)	K Veluthambi
Mumbai (All Fellows in Mumbai and Indore)	G Ravindra Kumar
Pune (All Fellows in Ahmednagar, Aurangabad, Goa and Pune)	Anil Kumar
Thiruvananthapuram (All Fellows in Kerala)	A Ajayaghosh
Varanasi (All Fellows in Azamgarh, Gorakhpur and Varanasi)	Debabrata Dash

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.

I. STANDING COMMITTEES 2019

A. Infrastructure and Informatics

Professor AK Sood, *President (Chairperson)*
 Professor V Chandrasekhar, *Vice-President*
 Professor NR Jagannathan, *Vice-President*
 Professor JP Khurana, *Vice-President*
 Professor Gadadhar Misra, *Vice-President*
 Professor Anurag Sharma, *Vice-President*
 Professor AK Singhvi, *Vice-President*
 Professor DM Banerjee
 Professor Santosh Kapuria
 Professor V Ramgopal Rao

B. Resource Management

Professor AK Sood, *President (Chairperson)*
 Professor V Chandrasekhar, *Vice-President*
 Professor NR Jagannathan, *Vice-President*
 Professor JP Khurana, *Vice-President*
 Professor Gadadhar Misra, *Vice-President*
 Professor Anurag Sharma, *Vice-President*
 Professor AK Singhvi, *Vice-President*
 Professor DM Banerjee
 Professor Alok Bhattacharya
 FA, DST
 Nominee of Secretary, DST

C. Publication Advisory Board

Professor AK Sood, *President (Chairperson)*
 Professor V Chandrasekhar, *Vice-President*
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 Professor AK Singhvi, *Vice-President*
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 Professor DM Banerjee
 Professor Amit Ghosh
 Professor Amitabh Joshi
 Professor SC Lakhota
 Professor KL Sebastian

D. Editorial Board: *Indian Journal of Pure & Applied Mathematics*

Professor Gadadhar Misra, *Vice-President (Editor)*
 Professor Manindra Agrawal
 Professor RB Bapat
 Professor BVR Bhat
 Professor Indranil Biswas
 Professor NM Bujurke

Professor SG Dani
 Professor Aloke Dey
 Professor Eknath Ghate (Mumbai)
 Professor Sudhir Ghorpade (Mumbai)
 Professor KT Joseph
 Professor RL Karandikar
 Professor N Mohan Kumar (USA)
 Professor IBS Passi
 Professor Jaikumar Radhakrishnan (Mumbai)
 Professor KN Raghavan (Chennai)
 Professor CS Rajan
 Professor Ravi A Rao
 Professor TSSRK Rao (Bengaluru)
 Professor Rahul Roy (Delhi)
 Professor K Sandeep (Bengaluru)
 Professor SS Sane, Mumbai University
 Professor VD Sharma
 Professor KB Sinha
 Professor V Srinivas
 Professor B Sury (Bengaluru)
 Professor GD Veerappa Gowda
 Professor JK Verma
 Professor Kaushal Verma (Bengaluru)

E. Editorial Board: *Proceedings of the Indian National Science Academy*

Professor SC Lakhota, FNA (*Editor-in-Chief*)
 Professor IBS Passi (*Editor: Mathematical Sciences*)
 Professor Sanjay Puri (*Editor: Physical Sciences*)
 Professor Anunay Samanta (*Editor: Chemical Sciences*)
 Professor AK Singhvi (*Editor: Earth & Planetary Science*)
 Professor Suman Chakraborty (*Editor: Engineering & Technology*)
 Professor CS Sundar (*Editor: Material Science & Engineering*)
 Professor AN Lahiri Majumder (*Editor: Plant Sciences*)
 Dr BA Shanbhag (*Editor: Animal Science*)
 Professor Dipankar Chatterji (*Editor: Microbiology & Immunology*)
 Professor SK Dhar (*Editor: Cell & Biomolecular Science*)
 Professor Madhubala Rentala (*Editor: Health Sciences*)
 Professor R Khanna Chopra (*Editor: Agril Sciences*)
 Professor SK Apte
 Professor DM Banerjee
 Professor US Bhalla
 Professor HS Balyan
 Professor Amalendu Chandra
 Professor Sudip Chattopadhyay
 Professor Debashis Chowdhury
 Dr PK Das
 Dr Anuradha Dube
 Professor JH Hacker (Germany)
 Professor AK Jain

Professor Thomas Kailath (USA)
 Professor PV Kamat (USA)
 Professor Santosh Kapuria
 Professor P Kondaiah
 Professor Deepak Mathur
 Professor Sanjay Mittal
 Professor K Muniyappa
 Professor S Natarajan
 Professor AJ Paulraj (USA)
 Professor Upadrasta Ramamurty
 Professor EV Sampathkumaran
 Professor Yadvinder Singh
 Dr R Sowdhamini
 Professor Mriganka Sur (USA)
 Professor K Veluthambi
 Dr Anindita Bhadra (INAYAS)
 Dr Suryasarathi Bose (INAYAS)
 Dr Deepak Sharma (INAYAS)

F. Editorial Board for *Indian Journal of History of Science*

Professor D Balasubramanian, FNA (*Chairperson*)
 Professor K Ramasubramanian, Editor (Mumbai)
 Professor Prajit K Basu (Hyderabad)
 Professor AR Choudhuri
 Professor Paul T Craddock (UK)
 Professor Rajan Gurukkal (Bengaluru)
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 Dr P Ram Manohar (Coimbatore)
 Professor Raymond Mercier (UK)
 Professor Dhruv Raina
 Dr Rajinder Singh (Germany)
 Professor MD Srinivas (Chennai)
 Professor Sharda Srinivasan (Bengaluru)
 Professor Jaime Wisnaik (Israel)
 Mr. Madhvendra Narayan, Associate Editor & Member Secretary (Delhi)

G. Editorial Board for *Biographical Memoirs*

Professor DM Banerjee, FNA (*Editor*)
 Professor Kankan Bhattacharyya : Chemistry
 Professor Premashish Kar : Health Sciences
 Professor Avinash Khare : Physics
 Professor JP Khurana : Plant Sciences
 Professor NK Mehra : Immunology
 Professor DP Sarkar : Biochemistry
 Professor PK Seth : Toxicology
 Professor Maithili Sharan : Mathematics
 Professor Anurag Sharma : Engineering & Technology
 Professor BK Thelma : Genetics

II. ADVISORY COMMITTEES 2019

A. Inter-Academy Exchange Committee

Professor AK Sood, *President (Chairperson)*
Professor V Chandrasekhar, *Vice-President*
Professor NR Jagannathan, *Vice-President*
Professor JP Khurana, *Vice-President*
Professor Gadadhar Misra, *Vice-President*
Professor Anurag Sharma, *Vice-President*
Professor AK Singhvi, *Vice-President*
Professor SC Lakhotia
Professor V Ramgopal Rao
Dr Chandrima Shaha
Professor BK Thelma
Representative from DST

B. Advisory Committee for Science Promotion

Professor AK Sood, *President (Chairperson)*
Professor V Chandrasekhar, *Vice-President*
Professor NR Jagannathan, *Vice-President*
Professor JP Khurana, *Vice-President*
Professor Gadadhar Misra, *Vice-President*
Professor Anurag Sharma, *Vice-President*
Professor AK Singhvi, *Vice-President*
Professor Rajendra Bhatia
Professor SC Lakhotia
Professor V Ramgopal Rao
Professor BK Thelma

C. Advisory Committee for Science and Society

Professor AK Sood, *President (Chairperson)*
Professor V Chandrasekhar, *Vice-President*
Professor NR Jagannathan, *Vice-President*
Professor JP Khurana, *Vice-President*
Professor Gadadhar Misra, *Vice-President*
Professor Anurag Sharma, *Vice-President*
Professor AK Singhvi, *Vice-President*
Professor Kankan Bhattacharyya
Dr Nirranjan Chakraborty
Professor SC Lakhotia
Professor BK Thelma

D. Indian National Commission for History of Science

Professor AK Sood, *President (Chair)*
Professor D Balasubramanian, *(Vice-Chair)*
Professor V Chandrasekhar, *Vice-President*
Professor NR Jagannathan, *Vice-President*

Professor Soumitro Banerjee
 Professor AR Choudhuri
 Dr Michel Danino, International Forum for India's Heritage (Chennai)
 Professor Anil Kumar
 Dr P Ram Manohar (Coimbatore)
 Professor G Parthasarathy
 Professor K Ramasubramanian (Mumbai)
 Professor SC Roy, Editor, Science & Culture (Kolkata)
 Professor Smritikumar Sarkar (Kolkata)
 Dr BS Shylaja (Bengaluru)

E. Research Council for History of Science

Professor D Balasubramanian, FNA (*Chair*)
 Professor Ishrat Alam, Medieval Technology & History (AMU, Aligarh)
 Professor RN Iyenger (Bengaluru)
 Professor KC Malhotra
 Dr John Mathew (Pune)
 Professor Kamlesh Mohan (Chandigarh)
 Professor Kaushik Roy (Kolkata)
 Professor SK Saha (Kolkata)
 Dr JN Sinha (Delhi)
 Dr GC Tallur (Bengaluru)
 Professor Vibha Tripathi (Varanasi)

F. Panel for Science Education

Professor Gadadhar Misra, *Vice-President (Convener)*
 Professor V Chandrasekhar, *Vice-President*
 Professor NR Jagannathan, *Vice-President*
 Professor JP Khurana, *Vice-President*
 Professor Anurag Sharma, *Vice-President*
 Professor AK Singhvi, *Vice-President*
 Professor V Ramgopal Rao
 Professor DP Sarkar
 Professor JS Tyagi

G. Committee for Archives

Professor AK Sood, *President (Chair)*
 Professor V Chandrasekhar, *Vice-President*
 Professor NR Jagannathan, *Vice-President*
 Professor JP Khurana, *Vice-President*
 Professor Gadadhar Misra, *Vice-President*
 Professor Anurag Sharma, *Vice-President*
 Professor AK Singhvi, *Vice-President*
 Professor Kankan Bhattacharyya
 Professor Shobhona Sharma

H. INSA Core Committee for DST INSPIRE Programme

Professor AK Singhvi, *Vice-President (Chair)*
 Professor JP Khurana, *Vice-President*
 Professor CS Sundar

I. INSA Teachers Award Committee

Professor Uday Maitra, <i>Chair</i>	2019
Professor Sanjay Mittal	2019
Professor Deepak Pental	2019
Professor Sanjay Puri	2020
Professor BK Thelma	2020
Professor JK Verma	2020
Professor Sudha Bhattacharya	2021
Professor GVR Prasad	2021
Professor Srikanth Sastry	2021

J. INSA Panel on Ethics in Science

Professor Amit Ghosh, <i>Chair</i>
Professor S Chandrasekaran
Professor ML Munjal
Professor Sriram R Ramaswamy
Professor Chitra Sarkar
Professor N Sathyamurthy
Dr SR Shetye

K. INSA Panel on Women in Science

Professor Rohini Godbole, <i>Chair</i>
Professor Sudha Bhattacharya
Professor RL Karandikar
Professor Shobhana Narasimhan (Bengaluru)
Professor Ramkrishna Ramaswamy
Professor Ajit Iqbal Singh

INTER-ACADEMY PANELS

A. Inter-Academy Science Education Panel

Professor MRN Murthy, *Chair*
 Professor Kanhare Dilip G, *Co-Chairman*
 Professor Gadadhar Misra, *Vice-President*
 Professor E Arunan (Bengaluru)
 Professor AK Bachhawat
 Professor V Balakrishnan
 Professor PK Chattaraj
 Professor Nitin Chattopadhyay
 Professor Probal Chaudhuri
 Professor Deepak Dhar
 Professor VP Dimri
 Dr Amit Ghosh
 Professor JN Goswami
 Professor Paramjit Khurana
 Professor JP Mittal
 Professor N Mukunda
 Professor MRN Murthy
 Professor TP Radhakrishnan
 Professor Govindan Rangarajan (Bengaluru)
 Professor SK Saidapur
 Professor P Sankaran
 Professor SK Satheesh
 Professor KL Sebastian
 Professor Pulak Sengupta
 Professor Annapurni Subramaniam (Bengaluru)

B. Inter-Academy Panel on Women in Science

Professor Manju Sharma, *Chair*
 Professor Kasturi Datta
 Professor Rohini Godbole
 Professor Paramjit Khurana
 Professor Sunil Mukhi
 Professor V Ravindranath
 Professor Somdatta Sinha

C. Inter-Academy Panel on Ethics in Science

Professor Amit Ghosh, *Chair*
 Professor S Chandrasekaran
 Professor JP Mittal
 Professor Sunil Mukhi
 Professor ML Munjal
 Professor Sriram R Ramaswamy
 Professor Chitra Sarkar
 Professor N Sathyamurthy
 Dr SR Shetye
 Professor JS Tyagi

I. National Committees for International Science Council (ISC) & its affiliated Unions and Committees (January 1, 2016 to December 31, 2019) except IUGS-INQUA National Committee till December 31, 2020

INDIAN NATIONAL COMMITTEE FOR ISC

Professor AK Sood, President, INSA, *Chairman*

Professor V Chandrasekhar, Vice-President (Science Promotion) INSA, *Member*

Professor NR Jagannathan, Vice-President (Resource Management), INSA, *Member*

Professor JP Khurana, Vice-President (International Affairs), INSA, *Member*

Professor Gadadhar Misra, Vice-President (Publications/Informatics), INSA, *Member*

Professor Anurag Sharma, Vice-President (Fellowship Affairs), INSA, *Member*

Professor AK Singhvi, Vice-President (Science & Society), INSA, *Member*

Chairpersons of the National Committees corresponding to the International Unions/Committees, *Members*

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. Professor Rajnikant, Jammu University, Jammu, *Member*

3. Professor B Gopal, FNA, *Member*

4. Professor AK Tyagi, 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 VK Singh, FNA, *Chairman*

2. Professor GP Pandey, FNA, *Member*

3. Professor Uday Maitra, FNA, *Member*

4. Professor A Ajayaghosh, FNA, *Member*

5. Dr Sandeep Verma, FNA, *Member*

IV. National Committee for International Union of Pure & Applied Physics (IUPAP)

1. Professor HR Krishnamurthy, 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 JN Chengalur, FNA, *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, Gurugram, *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, CSIR-National Geophysical Research Institute, Hyderabad, *Member*
4. Dr SSC Sheno, Director, INCOIS, Hyderabad, *Member*
5. Dr BR Arora, Engineers Enclave Ph.III, GMS Road, Dehradun, *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, FNA, *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 Adithan, 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, Director, NIAS, IISc Campus, Bengaluru, *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, NARL, Gadanki, *Member*
4. Dr S Seetha, ISRO HQ, Bengaluru, *Member*
5. Dr D Guha, Institute of Radio Physics & Electronics, Kolkata University, *Member*
6. Dr J Padmanabhan, PRL, Ahmedabad, *Member*

XVIII. Future Earth National 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, Lucknow, *Member*

6. Dr Thamban Meloth, NCAOR, Goa, *Member*
7. Professor Harini Nagendra, Azim Premji University, Bengaluru, *Member*
8. Dr Himanshu Pathak, FNA, *Member*
9. Professor Ramachandran Ramesh, Anna University, Chennai, *Member*
10. Dr Madhu Verma, IIFM, Bhopal, *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 Debasisa Mohanty, FNA, *Chairman*
2. Dr Usha Munshi, IIPA, New Delhi, *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 – 2019

SECTIONAL COMMITTEE I : Mathematical Sciences

Bhosle UN	2019	Gowda GD Veerappa	2020
Rajan CS	2019	Balaji Vikraman	2021
Ramadas TR	2019	Bose Arup	2021
Bhat BV Rajarama	2020	Natarajan Saradha	2021
Karandikar RL	2020		
<i>(Secretary & Convener)</i>			

SECTIONAL COMMITTEE II : Physics

Ayyub Pushan	2019	Narayan KS	2020
Khare Avinash	2019	Sen Diptiman	2020
Wadia SR	2019	Barma Mustansir	2021
<i>(Secretary & Convener)</i>			
Choudhuri AR	2020	Sinha Sudeshna	2021
		Viyogi YP	2021

SECTIONAL COMMITTEE III : Chemical Sciences

Ajayaghosh A	2019	Das Suresh	2020
Natarajan Srinivasan	2019	Radhakrishnan TP	2020
Singh VK	2019	Jemmis ED	2021
<i>(Secretary & Convener)</i>			
Chandra Amalendu	2020	Murugavel Ramaswamy	2021
		Verma Sandeep	2021

SECTIONAL COMMITTEE IV : Earth & Planetary Sciences

Bhardwaj Anil	2019	Sengupta Pulak	2020
Haider SA	2019	Ahmad Talat	2021
Sarin Manmohan	2019	Jain AK	2021
Goswami JN	2020	Naqvi SWA	2021
Patra AK	2020	<i>(Secretary & Convener)</i>	

SECTIONAL COMMITTEE V : Engineering & Technology

*Bhowmick AK	2019	Kapuria Santosh	2020
Dutta Pradip	2019	Bandyopadhyay S	2021
Siva Ram Murthy C	2019	Kumaran V	2021
Chhabra RP	2020	<i>(Secretary & Convener)</i>	
Chockalingam A	2020	Sen Sandeep	2021

SECTIONAL COMMITTEE VI : Material Sciences & Engineering

Malhotra BD	2019	Pradip	2020
Pal Amlan Jyoti	2019	Sampath Srinivasan	2020
Sivaram S	2019	Jayakrishnan A	2021
<i>(Secretary & Convener)</i>			
Chaplot SL	2020	Jayaram Vikram	2021
		Kulkarni SK	2021

* In place of Professor V Ramgopal Rao for the year 2019 only

SECTIONAL COMMITTEE VII : Plant Sciences

Dasgupta Indranil	2019	Rao KV	2020
Lavania UC	2019	Chakraborty Niranjan	2021
Palni LMS	2019	Vijayraghavan Usha	2021
Bhatnagar Raj Kamal	2020	<i>(Secretary & Convener)</i>	
Rajam MV	2020	Yadav SR	2021

#SECTIONAL COMMITTEE VIII : Animal Sciences

Galande Sanjeev Anant	2019	Dube Anuradha	2020
Mallick BN	2019	Parnaik VK	2021
*Senthilkumaran B	2019	Sharma YD	2021
Borges Renne Maria	2020	Singh Mewa	2021
Brahmachari Vani	2020		

SECTIONAL COMMITTEE IX : Microbiology & Immunology

Bhatnagar Rakesh	2019	Singh Yogendra	2020
Das Saumitra	2019	Dikshit Kanak Lata	2021
Qadri Ayub	2019	Rao DN	2021
Banerjea AC	2020	Sharma Pushkar	2021
Mitra Debashis	2020		
<i>(Secretary & Convener)</i>			

SECTIONAL COMMITTEE X: Cell and Biomolecular Sciences

Chary KVR	2019	Rao BJ	2020
Gokhale RS	2019	Bachhawat AK	2021
Sowdhamini Ramanathan	2019	Hosur MV	2021
Gupta MN	2020	Sahu AK	2021
Mishra Rakesh Kumar	2020		
<i>(Secretary & Convener)</i>			

SECTIONAL COMMITTEE XI : Health Sciences

Ali Nahid	2019	Misra Usha Kant	2020
Chowdhury Abhijit	2019	Ghosh Amit	2021
Sarkar Chitra	2019	<i>(Secretary & Convener)</i>	
Das Pradeep	2020	Kang Gagandeep	2021
Dash Debabrata	2020	Thangaraj Kumarasamy	2021

SECTIONAL COMMITTEE XII : Agricultural Sciences

Mallick Nirupama	2019	Kirti PB	2020
Pathak Himanshu	2019	Prasad Manoj	2021
Singh NK	2019	Sangwan RS	2021
Adhya TK	2020	Tuli Rakesh	2021
Balyan HS	2020	<i>(Secretary & Convener)</i>	

Secretary & Convener to be decided

* In place of Dr VA Vaidya for the year 2019 only

ACADEMY AWARDS

The Indian National Science Academy has instituted 69 awards which are broadly classified into following categories:

- (A) **International Awards**
- (B) **General Medals & Lecture Awards**
- (C) **Subjectwise Medals/Lectures/Awards**
- (D) **Awards for Young Scientists**
- (E) **INSA Teachers Award**

All the International Awards, General Medal & Lecture Awards and Subjectwise Medals/Lectures are given once in three years and the nominations will be invited from the entire Fellowship, if not specified.

(A) INTERNATIONAL AWARDS

- (i) **INSA-Vainu Bappu Memorial Award**
For Astronomer/Astrophysicist of international recognition
The award carries a bronze Medal, an honorarium of Rs.25,000/- and a citation.
- (ii) **Jawaharlal Nehru Birth Centenary Medal**
For international cooperation in Science & Technology and for contributions to public understanding of Science
The award carries a plaque and a citation. The President INSA, shall suggest names for consideration by the Council.
- (iii) **PMS Blackett Memorial Lecture and Jagadis Chandra Bose Memorial Lecture**
For a scientist of international repute in any branch of science
The awards will be given once in three years alternatively. The awards carry an honorarium of Rs. 25,000/- and a citation.

(B) GENERAL MEDALS AND LECTURES

MEDALS

(a) *Any Branch of Science*

These awards carry a Copper Medal (gold plated) and a citation. The President, INSA, shall suggest name/s for consideration by the Council.

- (i) **Chandrasekhara Venkata Raman Medal**
- (ii) **Shanti Swarup Bhatnagar Medal**
- (iii) **Meghnad Saha Medal**
- (iv) **Aryabhata Medal**

(b) Popularization of Science**(i) Indira Gandhi Prize for Popularization of Science**

For outstanding work done by an individual for the popularization of science in any Indian language, including English

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. Maximum of six prizes (two in each category) will be awarded to the following categories:

- a) Science popularization efforts in English language by a career media personnel
- b) Science popularization efforts in English language by a career scientist
- c) Science popularization efforts in any language other than English either by a career media personnel or a career scientist

(ii) INSA Medal for Promotion and Service to Science

For exceptional service to promoting Science in India

The award carries a gold medal (of 20 grams) and a citation. The President, INSA, shall suggest, for consideration by the Council.

LECTURES***Any Branch of Science***

These awards carry an honorarium of Rs 25,000/- and a citation. The President, INSA, shall suggest, for consideration by the Council.

- (i) **Sisir Kumar Mitra Memorial Lecture**
- (ii) **Kariamanikkam Srinivasa Krishnan Memorial Lecture**
- (iii) **Daulat Singh Kothari Memorial Lecture**
- (iv) **Jawaharlal Nehru Birth Centenary Lecture** (two awards one in Physical Sciences and the other one in Biological Sciences)

(C) SUBJECTWISE MEDALS/LECTURES/AWARDS**(A) Medals Instituted by the Academy**

These awards carry a Copper Medal (Silver plated) and a citation.

- (i) **Srinivasa Ramanujan Medal**
– for Mathematical Sciences
- (ii) **Satyendranath Bose Medal**
– for Physics
- (iii) **Homi Jehangir Bhabha Medal**
– for Physics
- (iv) **Jagadis Chandra Bose Medal**
– for Biochemistry, Biophysics, Molecular Biology & related areas
- (v) **Sunder Lal Hora Medal**
– for Animal Sciences

- (vi) **Darashaw Noshewanji Wadia Medal**
– for Earth Sciences including Geography
- (vii) **Prasanta Chandra Mahalanobis Medal**
– for Mathematical Sciences
- (viii) **Syed Husain Zaheer Medal**
– for Engineering & Technology
- (ix) **Silver Jubilee Commemoration Medal**
– for Agricultural Sciences
- (x) **Golden Jubilee Commemoration Medal**
– for Chemical Sciences
- (xi) **Golden Jubilee Commemoration Medal**
– for Animal Sciences
- (xii) **Kalpathi Ramakrishna Ramanathan Medal**
– for Atmospheric Sciences and Meteorology

(B) Endowment Medals*

These awards carry a bronze Medal, an honorarium of Rs 25,000- and a citation.

1. **Vishwakarma Medal**
– for 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
2. **Professor Brahm Prakash Memorial Medal**
– for Engineering and Technology
3. **Professor Shyam Bahadur Saksena Memorial Medal***
– for Plant Sciences
4. **Professor GN Ramachandran 60th Birthday Commemoration Medal**
– for Biochemistry and Biophysics
5. **Professor TR Seshadri Seventieth Birthday Commemoration Medal***
– for Chemical Sciences
6. **Professor KP Bhargava Memorial Medal**
– for Medical Sciences
7. **Professor K Naha Memorial Medal**
– for Earth Sciences
8. **Professor Krishna Sahai Bilgrami Memorial Medal**
– for Agricultural Sciences
9. **Chandrakala Hora Memorial Medal**
– for Animal Sciences
10. **Shree Dhanwantari Prize***
– for Medical Sciences
11. **Professor Bhim Shanker Trivedi Memorial Medal**
– for Biological Science including Medicine and Psychology

12. **Professor Har Swarup Memorial Medal**
– for eminent woman scientist in any branch of Science and Technology
13. **Professor Subramania Ranganathan Memorial Medal**
–for Chemical Sciences
14. **Professor Mihir Chowdhury Memorial Medal**
–for Chemical Sciences

(C) Endowment Lectures*

These awards carry an honorarium of Rs 25,000/- and a citation.

1. **Professor Bal Dattatraya Tilak Lecture**
– for rural economy and life through innovative and effective application of Science and Technology
2. **Dr TS Tirumurti Memorial Lecture***
– for Medical Sciences
3. **Dr Nitya Anand Endowment Lecture**
– for Biomedical Research including New Drug Development
4. **INSA Prize for Materials Science***
– for Materials Science
5. **Professor S Swaminathan 60th Birthday Commemoration Lecture**
– for Chemical Sciences
6. **Professor Darshan Ranganathan Memorial Lecture**
– for any field of Science and Technology to a woman scientist
7. **Professor MRN Prasad Memorial Lecture***
– for Animal Sciences
8. **Bires Chandra Guha Memorial Lecture**
– for Biophysics and Biochemistry
9. **Bashambar Nath Chopra Lecture***
– for Plant Sciences
10. **Professor Shambu Nath De Memorial Lecture***
– for Biochemistry and Biophysics
11. **Professor Vishnu Vasudeva Narlikar Memorial Lecture**
– for Mathematics
12. **Dr Jagdish Shankar Memorial Lecture***
– for Chemical Sciences
13. **Professor Vishwa Nath Memorial Lecture**
– for Biochemistry and Biophysics
14. **Dr Biren Roy Memorial Lecture**
– for Physics
15. **Professor Sadhan Basu Memorial Lecture**
– for Chemical Sciences
16. **Dr Yellapragada Subba Row Memorial Lecture**
– for Medical Sciences

17. **Professor K Rangadhama Rao Memorial Lecture***
– for Spectroscopy
18. **Professor Rango Krishna Asundi Memorial Lecture***
– for Spectroscopy
19. **Professor Toppur Seethapathy Sadasivan Lecture***
– for Plant Sciences
20. **Professor Panchanan Maheshwari Memorial Lecture***
– for Plant Sciences
21. **Dr Guru Prasad Chatterjee Memorial Lecture***
– for Engineering & Technology
22. **Professor Har Swarup Memorial Lecture**
– for Animal Sciences
23. **Dr MR Das Memorial Lecture**
– for Biophysics & Biochemistry

(D) AWARDS FOR YOUNG SCIENTISTS

1. INSA Medal for Young Scientists

For young scientists of extraordinary promise and creativity who have made notable research contributions to any branch of science or technology 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 the award shall be eligible for this recognition. The award carries a bronze Medal, a cash prize of Rs. 50,000/- and a certificate. The award will be made annually and the number is limited to 30.

2. INSA Young Historian of Science Award

For young historians of extraordinary promise and creativity who have made notable research contributions to any branch of History of Indian Science, irrespective of the institution in which study has been carried out, whether in India or abroad.

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 this recognition. The award carries a bronze Medal, a cash prize of Rs. 25,000/- and a certificate. The award will be made annually and the number is limited to 2.

3. Professor LSS Kumar Memorial Award*

For the 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.

The award carries an honorarium of Rs 1,000/- and a certificate.

4. Anil Kumar Bose Memorial Award*

Two awards (one in Physical Sciences and one in Biological Sciences) for the best research paper published in reputed Journal by the recipients of last five years of INSA Medal for Young Scientists below the age of 40 years as on 31 December preceding the year of award.

The awards carry a bronze Medal, an honorarium of Rs 1,000- and a certificate.

5. Professor Har Swarup Memorial Award

For the best research paper, on the work done in India in any branch of Biological Sciences, published in reputed Journal within three years from the date of receipt of INSA Medal for Young Scientist.

The award carries a bronze medal, an honorarium of Rs 25,000/-, and a certificate.

(E) INSA TEACHERS AWARD

The award aims to recognize and honour teachers who have provided guidance, inspiration and mentored 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. The maximum number of awards is 12 per year. The awardees shall receive a scroll, a cash award of Rs. 50,000/- and a one-time book grant of Rs. 20,000/-.

The nominees should be teaching or have taught in India, with at least 20 years of teaching experience at undergraduate and/or at postgraduate level in any recognized College/University/Institution. Any teacher below the age of 55 years, as on December 31 of the year preceding the year of the award shall be eligible for this recognition.

The endowment medal/lecture awards marked with ‘’ have been suspended owing to insufficient funds (Council, April 2011)

AWARDS DUE IN THE YEAR 2020

A. INTERNATIONAL AWARDS

No Award due in 2020.

B. GENERAL MEDALS/ LECTURES

1. **Indira Gandhi Prize for Popularization of Science**
– popularization of science in any Indian language, including English
2. **INSA Medal for Promotion and Service to Science** (Nominated by President, INSA)
3. **Daulat Singh Kothari Memorial Lecture** (Nominated by President, INSA)
4. **Jawaharlal Nehru Birth Centenary Lecture** (Nominated by President, INSA)

C. SUBJECTWISE MEDALS

(a) *Medal Instituted by the Academy*

1. **Homi Jehangir Bhabha Medal**
– Physics
2. **Sunder Lal Hora Medal**
– Animal Sciences
3. **Prasanta Chandra Mahalanobis Medal**
– Mathematical Sciences
4. **Syed Husain Zaheer Medal**
– Engineering and Technology
5. **Kalpathi Ramakrishna Ramanathan Medal**
– Atmospheric Sciences and Meteorology

(b) *Endowment Medals*

1. **Professor KP Bhargava Memorial Medal**
– Medical Sciences
2. **Professor Bhim Shanker Trivedi Memorial Medal**
– Biological Science including Medicine and Psychology

(c) *Endowment Lectures*

1. **Professor Bal Dattatraya Tilak Lecture**
– rural economy and life through innovative and effective application of science and technology
2. **Bires Chandra Guha Memorial Lecture**
– Biophysics and Biochemistry
3. **Professor Sadhan Basu Memorial Lecture**
– Chemical Sciences

4. **Dr Yellapragada SubbaRow Memorial Lecture**
– Medical Sciences
5. **Professor Har Swarup Memorial Lecture**
– Animal Sciences
6. **Dr MR Das Memorial Lecture**
– Biophysics and Biochemistry

Last date for receiving nominations for **Indira Gandhi Prize for Popularization of Science** is **July 15, 2019** and for other Awards (except nominated by President, INSA) is **October 15, 2019**.

INSA MEDAL FOR YOUNG SCIENTISTS AWARDEES – 2018

1. **Dr Hafsa Ahmad** (*b* 26.05.1986), PhD, CSIR-National Botanical Research Institute, Lucknow.
For developing novel formulations using Withanolides that have shown significantly improved potency in the experimental model of ischaemic stroke. Considering the limitations of the current medications for stroke, it has substantial translational value.
2. **Dr Sushmee Badhulika** (*b* 13.05.1985), PhD, Department of Electrical Engineering, Indian Institute of Technology Hyderabad, Hyderabad.
For the development of layered materials and electronic devices for biomedical applications.
3. **Dr Mousomi Bhakta** (*b* 09.05.1983), PhD, Department of Mathematics, Indian Institute of Science Education and Research, Pune.
For establishing results on Hardy equations with critical and super critical non-linearities and obtaining significant regularity results on bounded and unbounded domains.
4. **Dr Mainak Das Gupta** (*b* 20.05.1984), PhD, Department of Comparative Development and Genetics, Max Planck Institute for Plant Breeding Research, Germany.
For unravelling the role of microRNA and their target genes in leaf pattern development.
5. **Dr Mehak Gupta** (*b* 20.09.1988), PhD, Oilseeds Section, Department of Plant Breeding and Genetics, Punjab Agricultural University, Ludhiana.
For her outstanding contribution in developing synthetic Brassicas and their evaluation.
6. **Dr Neha Gupta** (*b* 27.01.1986), PhD, Protein Conformation and Enzymology Laboratory, Department of Biosciences, Faculty of Natural Sciences, Jamia Millia Islamia, New Delhi.
For demonstrating a novel mechanism of hypoxia-induced venous thrombosis that acts via NLRP3 inflammasome that has implications for high altitude medicine.
7. **Dr Dhananjay Huilgol** (*b* 08.09.1983), PhD, Cold Spring Harbor Laboratory, New York, USA.
For his study on neuronal migration during mammalian development leading to the characterization of two novel migratory streams that form the posterior accessory olfactory bulb and the nucleus of the lateral olfactory tract which provide evolutionary insights into the development of the olfactory system.

8. **Dr Biman Jana** (b 14.01.1983), PhD, Department of Physical Chemistry, Indian Association for the Cultivation of Science, Jadavpur.
For theoretical understanding of molecular locomotion in motor proteins and mechanistic aspects of anti-freeze protein activity.
9. **Dr Somnath Jha** (b 11.07.1983), PhD, Department of Mathematics and Statistics, Indian Institute of Technology Kanpur, Kanpur.
For establishing a basic twisting lemma in non-commutative Iwasawa theory and obtaining duality results for Selmer groups of ordinary Hida families of modular forms.
10. **Dr Charanpreet Kaur** (b 06.07.1985), PhD, Stress Physiology and Molecular Biology Laboratory, Jawaharlal Nehru University, New Delhi.
For significantly contributing in understanding biochemical, molecular and functional properties of glyoxylase I and II enzymes, and demonstrating that methyl glyoxal acts as a stress-inducible signal molecule in plants.
11. **Dr Ujjwal Koley** (b 21.05.1983), PhD, Centre for Applicable Mathematics, Tata Institute of Fundamental Research, Bengaluru.
For obtaining higher order numerical schemes for KdV equations with an L^2 initial data that gave a new theoretical framework for stochastic PDE's, and proved explicit continuous dependence estimates on entropy solutions in the presence of noise.
12. **Dr M Muthamilarasan** (b 02.12.1986), PhD, ICAR-National Research Centre on Plant Biotechnology, New Delhi.
For his outstanding contributions in developing genomic resources in foxtail millet.
13. **Dr Ratnesh Chandra Mishra** (b 11.05.1984), PhD, Laboratory of Functional Plant Biology, Ghent University, Belgium.
For experimentally validating rice Hsp101 gene using *Arabidopsis* Hsp101 null mutant and demonstrating that its expression provides complementation and thermotolerance.
14. **Dr Mukesh** (b 24.09.1984), PhD, Centre for DNA Taxonomy, Molecular Systematics Division, Zoological Survey of India, Kolkata.
For his important contributions in understanding of *Hangul* (Kashmir deer) population status, ecology and conservation issues and setting the appropriate critically endangered species status for *Hangul* and establishing *in situ* and *ex situ* management and conservation.
15. **Dr Budhaditya Mukherjee** (b 26.08.1984), PhD, Department of Microbiology and Molecular Medicine, University of Geneva, Switzerland.
For understanding the mechanism of immune modulation of host cells during *Leishmania* infection and establishing the molecular basis of the resistance to the anti-*Leishmania* drug antimony.

16. **Dr Aseem Sudhir Paranjape** (*b* 26.01.1983), PhD, Inter-University Centre for Astronomy and Astrophysics, Pune.
For his demonstration that the dark energy problem in cosmology cannot be eliminated by averaging over fluctuations and for his development of new techniques to study the growth of large-scale structures in the Universe.
17. **Dr R Vinu** (*b* 08.10.1984), PhD, Department of Chemical Engineering, Indian Institute of Technology Madras, Chennai.
For his contributions to the development of low power microwave assisted pyrolysis of a wide range of municipal solid waste mixture of e-wastes, micro- and macro-algae, and coal biomass blends to produce valuable oils and blendstocks.
18. **Dr Ketan Rajawat** (*b* 14.02.1984), PhD, Department of Electrical Engineering, Indian Institute of Technology Kanpur, Kanpur.
For his contributions in the area of optimization in signal processing and communications, on topics related to asynchronous algorithms, distributed, online, and stochastic optimization.
19. **Dr Satya Brata Routh** (*b* 11.08.1985), PhD, Structural Biology Laboratory, CSIR-Centre for Cellular and Molecular Biology, Hyderabad.
For revealing structural and mechanistic features of the chiral specificity of D-aminoacyl-tRNA deacylase, which operates based on L-chiral reject mechanism but not on D-selection thus have brought to the fore the glycine misediting phenomenon in the cellular scenario.
20. **Dr S Vijayan** (*b* 11.01.1983), PhD, Planetary Science Division, Physical Research Laboratory, Ahmedabad.
For finding of recent fluvial activities on Mars at location unknown before.
21. **Dr Sumit Sen Santara** (*b* 16.02.1985), PhD, Boston Children's Hospital, Harvard Medical School, Boston, USA.
For reporting a globin coupled heme containing adenylate cyclase in a unicellular eukaryotic organism, *Leishmania* since this enzyme plays an essential role in the parasite survival and could be an important drug target.
22. **Dr Sakya Singha Sen** (*b* 02.03.1983), PhD, Inorganic Chemistry and Catalysis Division, CSIR-National Chemical Laboratory, Pune.
For stabilization of low valent main group compounds and their utilization as catalyst for cyanosilisation of carbonyl compounds.
23. **Dr Mahak Sharma** (*b* 23.04.1983), PhD, Department of Biological Sciences, Indian Institute of Science Education and Research, Mohali.
For her outstanding work showing the role of small GTP-binding proteins in lysosome positioning and cargo trafficking in *Salmonella*.

24. **Dr Perna Sharma** (b 20.09.1985), PhD, Department of Physics, Indian Institute of Science, Bengaluru.
For her innovative experimental approach to problem solving in soft matter physics using colloidal particles as model systems and to the quantitative understanding of adhesion of rheological properties of the stress-coupling medium.
25. **Dr Mayank Shrivastava** (b 14.09.1984), PhD, Department of Electronic Systems Engineering, Indian Institute of Science, Bengaluru.
For his contributions to the development, enablement, and integration of nano-scale CMOS and power MOSFET devices in System-on-Chip and power ASIC applications.
26. **Dr Sanjay Singh** (b 15.09.1983), PhD, School of Materials Science and Technology, Indian Institute of Technology, Varanasi.
For his contributions to the fundamental understanding of magnetic shape memory materials.
27. **Dr Kumar Somyajit** (b 24.05.1986), PhD, The Novo Nordisk Foundation, Centre for Protein Research, University of Copenhagen, Copenhagen.
For unravelling important novel roles of RAD51 paralogs in mammalian replication fork stability control biology which have significant implications in cancer genome instability.
28. **Dr Shallu Thakur** (b 03.02.1985), PhD, Division of Plant Biotechnology, Indian Institute of Pulse Research, Kanpur.
For her outstanding contributions in allele mining for blast resistance in rice.
29. **Dr Vishvanath Tiwari** (b 15.09.1983), PhD, Department of Biochemistry, Central University of Rajasthan, Ajmer.
For using proteomic and bioinformatics approaches to develop insights and strategies to control antibiotic-resistant strains of *Acinetobacter baumannii*.
30. **Dr Chandra MR Volla** (b 10.07.1983), PhD, Department of Chemistry, Indian Institute of Technology Bombay, Mumbai.
For development of cost-effective catalyst using cobalt for C-H functionalization reactions.

INSA YOUNG HISTORIAN OF SCIENCE AWARDEE – 2018

1. **Dr Aparajith Ramnath** (b 25.10.1983), PhD, Department of Humanities and Languages, School of Arts and Sciences and Amrut Mody School of Management, Ahmedabad University, Ahmedabad.
For his researches on the historical development of science and technology in twentieth-century India specially the engineering profession, addressing the nature of the late-colonial state and the history of industrialization.

INSA TEACHER AWARDEES–2018

1. **Dr Javed Ali** (*b* 17.07.1972), Department of Pharmaceutics, School of Pharmaceutical Education and Research, Jamia Hamdard, New Delhi.

Dr Ali is a compassionate and enthusiastic academician who has mentored a large number of well qualified and competitive students in the field of Pharmaceutics.
2. **Dr Urmi Bajpai** (*b* 30.09.1969), Acharya Narendra Dev College, University of Delhi, New Delhi.

Dr Bajpai has contributed significantly to the growth of Biomedical Science as a teaching program at under-graduate level and has been a role model for a large number of students and faculty colleagues.
3. **Professor Amartya Kumar Dutta** (*b* 28.02.1966), Theoretical Statistics and Mathematics Unit, Indian Statistical Institute, Kolkata.

Professor Dutta motivated a large number of students, through his teaching and research publications in Mathematics to take academic careers while his popular and public lectures greatly helped popularisation of Mathematics in public at large.
4. **Professor Nazir Ahmad Ganai** (*b* 12.05.1965), Faculty of Veterinary Sciences and Animal Husbandry, Sher-e-Kashmir University of Agricultural Sciences and Technology, Srinagar.

Professor Ganai, an inspirational teacher and a capable researcher, has trained many students in Veterinary Science and motivated them to take up research as a career.
5. **Professor Rajesh Ramachandran Iyer** (*b* 29.04.1966), Department of Physics and Electronics, St. Xavier's College, Ahmedabad.

Professor Iyer is an outstanding teacher-mentor who has inspired generations of students to take up successful research career.
6. **Professor Prafulla Kumar Jha** (*b* 02.02.1966), Department of Physics, Faculty of Science, The M.S. University of Baroda, Vadodara.

Professor Jha is an accomplished teacher renowned for his effective mentorship and guidance of students.
7. **Professor Vijaya Kumar Kopparapu** (*b* 01.07.1968), School of Earth Sciences, SRTM University, Nanded.

Professor Kumar, an outstanding teacher in Geology, has motivated a large number of students to take up research in Petrology and Pre-Cambrian Geology.
8. **Professor Ashis Kumar Mukherjee** (*b* 10.07.1970), Department of Molecular Biology and Biotechnology, Tezpur University, Tezpur.

Professor AK Mukherjee has significantly contributed to development of innovative teaching programs in Molecular Biology, Biotechnology, Nanoscience and five year integrated M.Sc.

programme in Bioscience and Bioinformatics which have benefited a large number of students in north-east India.

9. **Professor Achintya Mukhopadhyay** (*b* 04.04.1968), Department of Mechanical Engineering, Jadavpur University, Kolkata.

Professor Mukhopadhyay has educated and inspired a large number of students to become successful engineers, researcher and academicians.

10. **Dr Sivaraman R** (*b* 10.04.1975), Department of Mathematics, DG Vaishnav College, Chennai.

Dr Sivaraman motivated and supported a large number of students to take up career in Mathematics through his teaching, self-help books and articles in magazines and newspapers. His academic and financial help to needy and physically challenged students is especially noteworthy.

11. **Professor Vasudeva R** (*b* 20.06.1964), Department of Forest Biology and Tree Improvement, University of Agricultural Sciences, Dharwad, College of Forestry, Sirsi.

Professor Vasudeva is an excellent teacher and an involved researcher, who has been an inspiration to students in the area of tree biology and forestry.

12. **Professor Srabani Taraphder** (*b* 31.07.1969), Department of Chemistry, Indian Institute of Technology Kharagpur, Kharagpur.

Professor Taraphder's unique method to teach Statistical Mechanics through theory followed by advanced computer programming and her research, has inspired many students to reach successful academic careers.

RECIPIENTS OF MEDALS/LECTURES AWARDS DURING 2018

GENERAL MEDALS & LECTURE AWARDS

Meghnad Saha Medal

2018 Ashutosh Sharma

Aryabhata Medal

2018 SC Lakhotia

Sisir Kumar Mitra Memorial Lecture

2018 Indira Nath

SUBJECTWISE MEDALS

Satyendranath Bose Medal

2018 Chandan Dasgupta

Darashaw Noshervanji Wadia Medal

2018 Somnath Dasgupta

Golden Jubilee Commemoration Medal (Animal Sciences)

2018 PP Majumder

Vishwakarma Medal

2018 AK Shukla

Professor GN Ramachandran 60th Birthday Commemoration Medal

2018 DN Rao

Krishna Sahai Bilgrami Memorial Medal

2018 TR Sharma

Professor Har Swarup Memorial Medal

2018 Usha Vijayraghavan

Professor Subramania Ranganathan Memorial Medal

2018 VK Singh

Dr Nitya Anand Endowment Lecture

2018 No Award

Professor Vishnu Vasudeva Narlikar Memorial Lecture

2018 S Thangavelu

Professor Vishwa Nath Memorial Lecture

2018 SK Apte

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.

I. ADHERENCE TO THE INTERNATIONAL SCIENCE COUNCIL

International Science Council (ISC), formerly known as International Council for Science (ICSU) is a non-governmental organization.

The International Science Council (ISC) was created in 2018 from a merger of the International Council for Science (founded in 1931) and the International Social Science Council (founded in 1952).

The International Science Council (ISC) is a non-governmental organization with a unique global membership that brings together 40 international scientific Unions and Associations and over 140 national and regional scientific organizations including Academies and Research Councils.

INSA-ISC NATIONAL COMMITTEES AND THEIR ACTIVITIES/OBJECTIVES

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 ISC bodies. The Academy reconstituted the National Committees for a period of four years (2016-2019) except IUGS-INQUA National Committee till December 2020. 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 ISC bodies have also been included in the subsequent pages.

ISC national committee comprises the Chairmen of the National Committees corresponding to international Union/Committee, the President, Chairman and all the Vice-Presidents, INSA are the *Members* of this committee.

INDIAN SCIENTISTS HOLDING IMPORTANT POSITIONS IN ISC, ITS AFFILIATED UNIONS AND OTHER BODIES

<i>Name of Scientist</i>	<i>Position</i>
Professor LS Shashidhara	Secretary General, IUBS Executive Committee (2015-18)
Professor Ajit K Kembhavi	Vice-President, IAU (2015-18)
Professor AK Singhvi	Vice-President, INQUA (2015-19)
Professor P Chakrabarti	Past President, AsCA (2016-19)
Professor HK Gupta	Member, IUGG Council (2016-19)
Dr VM Tiwari	Member, IUGG Finance Committee (2017-19)
Professor Ch. Mohan Rao	Member, IUPAB Council (2017-2020)
Dr V Prakash	Vice President, IUNS (2017-2021)
Dr Ashima Anand	Chair, IUPS Ethics Committee (2017-2021)
Professor RB Singh	Secretary General and Treasurer, IGU (2018-2022)
Professor Sanjay Mittal	Member, IUTAM Congress Committee (2018-2022)
Professor TR Ramadas	Member at Large, IMU Executive Committee (2019-2022)
Dr Dipendra Prasad	President, Commission for Developing Countries (CDC) of IMU (2019-2022)

II. SCIENTIFIC COOPERATION WITH THE ACADEMIES/ORGANISATIONS OF FOREIGN COUNTRIES (For details see INSA website: www.insaindia.res.in)

International Bilateral Cooperation with Overseas Academies: 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.

Etienne Wolff and Ramanujan Lecture Series: 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.

Jawaharlal Nehru Birth Centenary Visiting Fellowship: 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.

INSA-German National Academy of Sciences, Leopoldina Lecture Series: INSA and German National Academy of Sciences, Leopoldina have jointly taken an initiative to establish Lecture series between the

two academies. A senior Indian speaker will deliver a (or a series of) lecture/s in Germany in one year and alternatively, a German scientist in India in the following year. This lecture series will be in addition to Indo-German Joint Symposia.

InterAcademy Partnership (IAP): 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 IAC Executive Board for the term 2013-2017. The Executive Committees of IAP and the InterAcademy Medical Panel (IAMP) together with the Board of InterAcademy Council have created a single umbrella organization, InterAcademy Partnership (IAP) that will permit this three “interacademy” Network to speak with one voice and thus will have greater impact on global issues of common interest. The three main components of InterAcademy Partnership will be IAP for Science (formerly IAP), IAP for Health (formerly IAMP) and IAP for Research (formerly IAC). This will also include four regional networks (AASSA, NASAC, IANAS and IASAC). The IAP will be representing 130 member academies. The Academy is a member of InterAcademy Partnership.

Association of Academies and Societies of Sciences in Asia (AASSA): 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.

Science Council of Asia (SCA): The Science Council of Asia (SCA) is an international scientific organization founded in 2000 by Asian science academies and other national scientific organizations. SCA aims to provide scientists in all fields, including cultural and social as well as natural sciences and technology, a collaborative platform for promoting scientific exchange and cooperation in Asia, and to develop and promote a holistic vision focusing on sustainable development and improvement in quality of life. At present, SCA is comprised of 29 academic organizations in Asia, and SCA Conference has been held annually since 2001. The Academy is a member of SCA.

The World Academy of Sciences (TWAS)/Third World Network of Scientific Organisations (TWNISO): The Academy as a member organisation of The World Academy of Sciences (TWAS)/Third World Network of Scientific Organisations (TWNISO) has been actively participating and contributing significantly in their activities in India. 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 named after Professor PC Ray, Dr Vikram Sarabhai, Professor DS Kothari, Professor AS Paintal, Dr BP Pal and Dr V Ramalingaswami

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.

INSA DISTINGUISHED PROFESSORS

The Academy has modified the terms of existing INSA Research Professorial Chairs and merged them with the newly initiated scheme of Ten “INSA Distinguished Professors”. 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 has made outstanding scientific research contributions and to enable him/her to continue to contribute to the subject of his/her choice. Each of the INSA Distinguished Professor would be required to have an institutional attachment and will receive consolidated honorarium of Rs.1.00 lakh per month and a contingency grant of Rs.2.00 lakhs per annum. Funds will be released to the institute with which the Distinguished Professor is attached.

For detailed guidelines refer INSA website <http://insaindia.res.in/rps.php>

INSA SENIOR SCIENTIST PROGRAMME

The Academy instituted in 1985 a programme of INSA Senior Scientist to utilize the expertise of superannuated INSA Fellows working in India to continue to work in the area of his/her choice in an R&D centre/university/institution in India.

The number of INSA Senior Scientists to be selected each year will be decided by the Council based on the availability of funds. The grants consist of an honorarium of Rs. 30,000/- per month and a contingency of Rs. 1,00,000/- per annum. The funds will be drawn by the host institution where the Senior Scientist works. He is entitled for 60 days leave in a year with honorarium. Proposal in the prescribed form can be submitted by June 17th-every year.

For detailed guidelines refer INSA website <http://insaindia.res.in/sps.php>

INSA HONORARY SCIENTIST PROGRAMME

INSA Honorary Scientist Scheme, initiated in May 2000, aims to engage and utilize the expertise of active superannuated Fellows of the Academy to contribute to the growth of science by working in some recognized institutions/universities in India through activities such as preparing monographs/books and other publications.

The term of an INSA Honorary Scientist is for a period of three years. Selected Fellows have to join within a period of six months from the date of issue of the offer letter. The number of scientists to be

selected each year will be decided by the Council. INSA Honorary scientist position will be operated only through the organization to which the fellow is affiliated. Contingency grant is Rs. 1,00,000/- per annum. Proposal in the prescribed form can be submitted by June 17th every year.

For detailed guidelines refer INSA website <http://insaindia.res.in/hss.php>

INSA EMERITUS SCIENTIST PROGRAMME

INSA Emeritus Scientist Programme, initiated in 2015, aims to encourage superannuated fellows to be scientifically active. The position, offered for life, carries no contingency/honorarium.

RESEARCH SUPPORT FOR THE INSA YOUNG SCIENTIST MEDAL AWARDEES

The Startup Research Grant for ongoing Project for INSA Young Scientist will be honour by Council. However, any new project will be considered only if additional funds are received from DST.

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. The number of INSA-Visiting Scientist positions to be awarded each year will be a maximum of 120 man-months per annum. Under this scheme consolidate amount of Rs. 30,000/- p.m. will be paid. This amount includes expenses towards travel, boarding, lodging etc. payable to the parent institute. The minimum period of fellowship is one month to a maximum of six months. The scientists who have already availed INSA Visiting Scientist position would be eligible for consideration after the gap of one year.

For detailed guidelines refer INSA website <http://insaindia.res.in/visiting.php>

PARTIAL FINANCIAL ASSISTANCE FOR HOLDING NATIONAL/INTERNATIONAL CONFERENCE/SEMINAR IN INDIA

The Academy provides partial financial support of Rs. 50,000/- (maximum) for National/International conferences/symposia/seminars/summer/winter schools and a maximum of 50 conferences can be supported in a financial year (not exceeding 13 in any quarter). Proposals are received by the Academy throughout the year but their selection is done on Quarterly basis.

INDIAN NATIONAL COMMISSION FOR HISTORY OF SCIENCE

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

Nutrition Security for India-Issues and way forward; Micro-nutrient Security for India-Priorities for research and action; Hazardous Metals and Minerals Pollution in India: Sources, Toxicity, and Management; Use of Animals in Scientific Research & Education; India's Nuclear Energy Programme; Indian Science Transforming India.

Lectures by INSA Fellows/ Young Scientist awardees/ Teacher awardees/ Indian National Young Academy of Science (INYAS) members to young students and teachers of schools and colleges in the remote/rural areas

The Academy sponsors a programme under which lecture-cum-interaction meetings were organized by the INSA Fellows / Young scientist awardees/ Teacher awardees / INYAS members at schools/colleges in areas which were away from the urban areas to develop scientific temperament among the young students of rural /remote areas.

INDIAN NATIONAL YOUNG ACADEMY OF SCIENCES (INYAS)

The Indian National Science Academy, in 2015, established Indian National Young Academy of Sciences (INYAS). In this young academy, 20 new members not exceeding the age of 40 years, at the time of induction, are selected as INYAS members every year. The membership is for a fixed period of five years, thus, at equilibrium INYAS will have 100 members. A seven member working group, from among their members run the day to day activities. The Indian National Young Academy of Science is a platform that enables young scientists to interact, and works towards spreading the enthusiasm about science among school children. INYAS is recognized as the voice of young scientists of India by the Global Young Academy, and actively participates in various international events that invite participation by young scientists. INYAS hopes to work towards building a generation of Indians who practice science as a way of life. For details and the present list of INYAS members visit www.insaindia.res.in/INYAS/.

INSA PANEL & INTER-ACADEMY PANEL ON 'SCIENCE EDUCATION'

The Indian National Science Academy established an INSA panel on Science Education (refer p 217). In addition, the Academy, 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.
2. *A 2-week All India Refresher Courses for teachers*: This two-week refresher 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.

Focus Area Science Technology Summer Fellowship [FAST-SF]

With a view to enhance the spread of Science and Technology in the specific regions of the country, the Inter Academy Panel has initiated the Focus Area Science Technology Summer Fellowship [FAST-SF]. This year focus will be the North Eastern states of the country and the states of Bihar, Chhattisgarh and Jammu Kashmir.

INSA PANEL & INTER-ACADEMY PANEL ON 'WOMEN IN SCIENCE'

The Indian National Science Academy established an INSA panel on Women in Science (refer p 218). In addition, an Inter-Academy Panel on Women in Science was constituted jointly by three Academies (Indian National Science Academy, New Delhi; Indian Academy of Sciences, Bengaluru & National Academy of Sciences, India, Allahabad) with the aim of ensuring inclusion of women in S&T issues in all possible and pragmatic ways and strengthen the application of S&T to reduce the drudgery of women in rural areas. The seven member panel (refer p 219) is chaired by Professor Manju Sharma, former Secretary to Government of India. The main objectives of the panel are: to prepare a road map for implementation to encourage women in science and application of science for the welfare of women; to include more women in science and accelerate contributions of women in science; to ensure access to information about various opportunities.

INSA PANEL & INTER ACADEMY PANEL ON 'ETHICS IN SCIENCE'

The Indian National Science Academy established an INSA panel on Ethics in Science (refer p 218). In addition, an Inter-Academy Panel on Ethics in Science has been set up (for membership refer p 219). This Inter Academy Panel will develop guidelines for ethical conduct of science, which could be adopted by all the Academies and other academic and research institutions across the country. Any complaint received by the Academies on ethical issues will be referred to this panel. Under this panel, INSA is bringing out a publication on Ethics in Science and Education.

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.

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 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.

INFORMATICS

The Informatics Centre of the Academy encompasses Computer Centre, Library and INSA Archives.

National Digital Library

INSA has been partnered with the National Digital Library (NDL) mission which is targeted to upload all the INSA publications e.g., Special Reports, Lectures, Journals, *Biographical Memoirs of INSA Fellows* etc. in digital format.

INSA APP

'INSA Fellows' APP has been developed both in Android and IOS platforms. This APP works as Digital diary of INSA Fellows, Events, Calendar and Communication details of the Fellows. Fellowship eVoting module has also been developed.

Online Journals

The Informatics Centre is actively associated with creation of electronic databases of INSA Journals and making them available for open access by the scientific community. Three INSA Journals namely *Proceedings*, *IJHS* and *IJPAM* are available online as open access at www.insa.nic.in. Through NKRC consortium eight international online publications (Emerald, IEEE, J-Gate, Oxford University Press, Royal Society of Chemistry, Taylor and Francis, Web of Science, Wiley) are accessible within the INSA premises, which include more than 10,000 online journals.

Library

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 350 scientific and technical journals and has collection of about 17,681 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 1450 Hindi books.

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 Academies/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.

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 media like Facebook, Twitter, YouTube, LinkedIn.

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.

PUBLICATIONS

The publications of the Academy include: *Proceedings of the Indian National Science Academy*, *Indian Journal of History of Science* and *Indian Journal of Pure and Applied Mathematics*. In addition, the Year Book of the Academy, Scientific Reports/Monographs/Seminar Proceedings, Biographical Memoirs 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 authors wishing to publish in the *Proceedings* of the Academy are welcome to submit their papers which shall be published following the usual standard peer reviewing process.

The *Proceedings* now includes Reviews, Original Research Articles, Commentaries/Opinion, Meeting Reports, Book-Reviews and Academy News.

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.

Indian Journal of Pure and Applied Mathematics

The journal is devoted to original research in all areas of Mathematical Sciences. The journal started as a quarterly publication of the Academy in the year 1970. Due to the growth in the number of submissions, it was published monthly from 1973. It was a bimonthly publication between 2006 and 2015. Starting from 2016, it has been a quarterly publication. The journal is being co-published with M/s Springer

Nature from the year 2010. The journal is freely available at <https://www.insa.nic.in/UI/journaldetails.aspx?AID=Mg==>

Other Publications

Biographical Memoirs of Deceased Fellows of the Indian National Science Academy: Commenced in 1966 and each volume is priced separately. So far, 42 Volumes containing more than 563 memoirs has been published.

Year Book: First Issued in 1960.

Academy News: A quarterly in-house news publication which was being published and circulated among Fellowship, other Academies and Scientific Community as *INSA News* was merged with the *Proceedings of the Indian National Science Academy* in the year 2015 as *Academy News*.

Special Publications are brought out from time to time.

All the details regarding the publication of the Academy is at the website www.insa.nic.in.

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