



Year Book
of
The Indian National
Science Academy

2021

The Year Book *2021*

Volume-I



INDIAN NATIONAL SCIENCE ACADEMY
New Delhi

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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–2021

Date	Event	Venue
FEBRUARY		
28 (Sun)	National Science Day	INSA, New Delhi
MARCH		
10 (Wed)	Meetings of Sectional Committees for Election of Fellows	INSA, New Delhi
24 (Wed)	Advisory Committee for Science & Society/ Publication Advisory Board/ Infrastructure and Informatics Committee	INSA, New Delhi
25-26 (Thu-Fri)	Meeting of the Indian National Commission for History of Science	INSA, New Delhi
MAY		
20-21 (Thu-Fri)	Meetings of Sectional Committees for Election of Fellows/Selection of Young Scientists / Advisory Boards for INSA Awards/ Science Promotion Committee	INSA, New Delhi
JUNE		
10-11 (Thu-Fri)	Council Meeting/General Body Meeting	INSA, New Delhi
SEPTEMBER		
1-2 (Wed-Thu)	History of Science Seminar/Meeting of the Indian National Commission for History of Science/ Science Promotion Committee	INSA, New Delhi
7-8 (Tue-Wed)	Meetings of ISC National Committees/Inter-Academy Exchange Committee/Council/General Body/Resource Management Committee	INSA, New Delhi
DECEMBER		
To be decided	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**

15 (Tue) INSA Senior Scientists Position (2022)

JULY15 (Thu) INSA Fellowship 2022
Inter-Academy Exchange Programme**OCTOBER**

18 (Mon) INSA Awards due in 2022

31 (Sun) INSA Medal for Young Scientists (2022)

COUNCIL

President

Professor Chandrima Shaha (New Delhi) (011) 2674-1501 (O),
2674-2528, 2674-2480 (R),
99-584-20001 (M)

Vice-Presidents

Professor V Chandrasekhar (Hyderabad) (040) 2020-3100/2020-3101 (O)
(*Science Promotion*)
Dr Amit Ghosh (Kolkata) (033) 4603-3573 (R),
(*Publications/ Informatics*) 94-336-92858, 70-448-08282 (M)
Professor Gaiti Hasan (Bengaluru) (080) 2366-6140 (O), 2361-3640 (R)
(*Fellowship Affairs*)
Professor DV Khakhar (Mumbai) (022) 2576-7212 (O),
(*Science & Society*) 98-206-05351 (M)
Professor JP Khurana (New Delhi) (011) 2411-5126 (O), 2411-9090 (R),
(*International Affairs*) 98-113-51217 (M)
Professor Subrata Sinha (New Delhi) (011) 2659-4483 (O), 2696-6586 (R),
(*Resource Management*) 98-119-01376 (M)

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Professor DM Banerjee (Delhi) (011) 2272-3938 (R), 98-186-64238 (M)
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98-452-37560 (M)
Professor Santanu Bhattacharya (Kolkata) (033) 2473-4688, 2473-4971 Ext 2101 (O)
Professor Amitabha Chattopadhyay (Hyderabad) (040) 2719-2578, 2716-0059 (O),
2701-5197 (R)
Professor Debashish Chowdhury (Kanpur) (0512) 259-7039 (O), 259-8465 (R)
Professor Tarun Kant (Mumbai) (022) 2576-7310, 2576-7301 (O),
2577-1090 (R), 99-691-64646,
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Dr HK Majumder (Kolkata) (033) 2412-3207 (O), 2359-1532 (R),
98-319-26491 (M)
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2360-0668 (IISc) (O), 2341-8256 (R)
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96-433-14093 (M)
Professor KH Paranjape (Mohali) (0172) 229-3110 (O)
Professor TR Ramadas (Kelambakkam) (044) 6748-0941 (O), 87-545-76434 (M)
Professor EV Sampathkumaran (Mumbai) (022) 2278-2437/2278-2439 (O),
2280-4977, 2278-3437 (R),
98-921-00402 (M)

Professor Abhijit Sen (<i>Gandhinagar</i>)	(079)	2396-9023 (O), 2692-6749 (R), 98-250-51578 (M)
Dr TR Sharma (<i>New Delhi</i>)	(0172)	499-0101/02 (O), 98-183-86057 (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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The National Academy of Sciences (India)

Professor Madhoolika Agrawal (<i>Varanasi</i>)		94-156-28573 (M)
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Government of India (Department of Science and Technology)

Professor Sandeep Verma (<i>New Delhi</i>)	(0512)	679-7643 (O), 99-350-81810 (M)
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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 Bains Prasad	1941-42
Dr Jnan Chandra Ghosh	1943-44
Dr Darashaw Nosherwanji Wadia	1945-46
Dr Shanti Swarup Bhatnagar	1947-48
Professor Satyendra Nath Bose	1949-50
Dr Sunder Lal Hora	1951-52
Professor Kariamanikkam Srinivasa Krishnan	1953-54
Dr Amulya Chandra Ukil	1955-56
Professor 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
Professor Ajay Kumar Sood	2017-19

RECENT PAST VICE-PRESIDENTS

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 Lakhota	2015-17
Professor LS Shashidhara	2015-17
Professor Kankan Bhattacharyya	2016-18
Dr Chandrima Shaha	2016-18
Professor NR Jagannathan	2017-19
Professor Anurag Sharma	2017-19
Professor Gadadhar Misra	2018-20
Professor AK Singhvi	2018-20

SECRETARIAT

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THE FELLOWSHIP

FELLOWS

1986: ABROL, Inder Pal (*b* 1939), PhD, Sp: Soil Science, Sustainable Agriculture, Research Management; FNASc, Director, *Centre for Advancement of Sustainable Agriculture (CASA)*, National Agricultural Science Complex (NASc), DPS Marg, New Delhi 110012; A34/2, DLF City, Phase I, Gurugram 122001 [Tel (011) 2584-8188, 2584-6880 (O), (0124) 235-8755, 235-4267(R); Fax (011) 2584-6880; Email abrolip@gmail.com; Web <http://www.agricasa.org.in>]; INSA Honorary Scientist (2011-15); **Council:** Mem 1994-96; VP 2002-04; **SC: XII.**



2010: ACHARYA, Subrat Kumar (*b* 1951), MBBS, MD, DM, Sp: Gastro enterology, Hepatology; FASc, FNASc, Pro-Chancellor, *KIIT University, Bhubaneswar 751024* and Emeritus Professor in Gastroenterology, AIIMS, New Delhi 110029; B 1481, Sector-11, CDA Cuttack, Odisha 753015 [Tel (0671) 230-9879 (R), 98-107-53779, 98-718-41769 (M); Email subratacharya2004@yahoo.com, subratacharya@gmail.com]; **SC: XI.**



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, Director, South Asia Nitrogen Centre, New Delhi; Co-Director (Science) UKRI-GCRF South Asia Nitrogen Hub & Professor, *School of Biotechnology, Kalinga Institute of Industrial Technology (Deemed 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, Amarjyothi Layout, Sanjay Nagar, Bengaluru 560094 [Tel (080) 6695-3742 (O), 2953-1505 (R), 96-635-65354 (M); Fax 6695-3799; Email adiadimurthi@gmail.com]; **SC: I.**





1985: AGARWAL, Girish Saran (b 1946), PhD, DSc (*hc*), 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, DSc (UKMU), 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.ped2020@gmail.com]; **Medal:** Professor KP Bhargava Memorial (2014); **SC: XI.**



2021: AGARWAL, Vivek (b 1964), PhD, Sp: Power Electronics; FNAE, FASc, FIEEE, FIETE, Professor, *Department of Electrical Engineering, Indian Institute of Technology Bombay, Powai, Mumbai 400076*; B-320, Nilgiri Building, Central Area, Indian Institute of Technology Bombay, Powai, Mumbai 400076 [Tel (022) 2576-7422 (O), 90-045-52983 (M); Fax 2572-3707; Email agarwal@ee.iitb.ac.in]; **SC: V.**



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.**



2017: AGGARWAL, Rakesh (b 1961), MBBS, MD, DM, Sp: Medical Sciences, Gastroenterology, Liver Disease, Viral Hepatitis, Epidemiology, Health Economics; FAMS, FASc, FNASc, Director, *Jawaharlal Institute of Postgraduate Medical Education and Research (JIPMER), Puducherry 605006*; Director's Bungalow, JIPMER Campus, Puducherry 605006 [Tel (0413) 227-2901 (O), 229-6064 (R), 94-153-28131 (M); Fax 227-2067; Email aggarwal.ra@gmail.com]; **SC: XI.**



2019: AGRAWAL, Anurag (b 1972), MBBS, MD, DM, PhD, Sp: Medicine, Respiratory Disease Biology, Molecular Physiology; Director, *CSIR-Institute of Genomics and Integrative Biology, Mall Road, Delhi University, Delhi 110007*; 12-B, Sriram Road, Civil Lines, Delhi 110054 [Tel (011) 2766-2075 (O), 98-184-51946 (M); Fax 2766-7471; Email draagrwal@gmail.com]; **SC: XI.**

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]; **Council:** Ad Mem 2021; **SC: XII.**



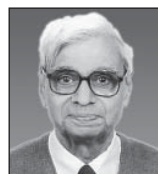
2008: AGRAWAL, Manindra (b 1966), PhD, Sp: Theory of Computation; FASc, FNASc, FNAE, FTWAS, Foreign Assoc US NAS, Professor, *Department of Computer Science, Indian Institute of Technology, Kanpur 208016*; H.No. 622, IIT Campus, Kanpur 208016 [Tel (0512) 259-7338 (O), 259-8363 (R), 99-350-62605 (M); 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. A5, IIT Ropar Housing, Ropar 140001, Punjab [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 jcahluwalia@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) 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, *University of Kashmir, Hazratbal, Srinagar 190006, J&K* [Tel (0194) 227-2000/2001 (O), 70-516-66707 (M); Fax 227-2086; Email 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, INSA Emeritus Scientists, 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, Distinguished Professor, Department of Life Science (SBSR), Sharda University, KP-III, Greater Noida 201306; Former Director, *Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi*; Former Head, *Molecular Genetics Division, NII, New Delhi*; Adjunct Professor, *Manipal Academy of Higher Education (MAHE), Mangalore*; Co-Chair, *Thematic Group 16, STIP-2020, Government of India* [Tel (011) 4558-6950 (O), 98-180-04632 (M); Email profsali55@gmail.com]; **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, *Electronics 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), 73-508-29530 (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 apparaokrishna@yahoo.com]; INSA Senior Scientist (1996-2000); **SC: II.**



1999: APTE, Shree Kumar (*b* 1952) PhD, Sp: Molecular Biology, Biochemistry, Microbial and Plant Biotechnology; FASc, FNASc, FNAAS, Distinguished Professor, *UM-DAE-Centre for Excellence in Basic Science*, and JC Bose National Fellow, *Room PF-BG-28, UM-DAE-CEBS, Vidyanagari, Kalina, Mumbai 400098*; 404, Runwal Hills, Deonar Farm Road, Deonar, Mumbai 400088 [Tel (022) 2653-0229 (O), 2558-0177 (R), 98-694-80205 (M); Fax 2653-2134; Email aptesk@cbs.ac.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 (Cambridge), 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 (*bc*), DSc (*bc*), DLitt (*bc*), Sp: Energy Systems and Development, Science, Technology & Public Policy, Materials Science & Engineering, Defence Technologies; FNASc, FNAE, FEng (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.**



2021: AWASTHI, Shally (*b* 1958), MBBS, MD, PhD, Sp: Pediatrics; FASc, FAMS, FNASc, FIAP, FRCPC (Hony) Professor, *Department of Pediatrics, King George's Medical University, Shabmina Road, Chowk, Lucknow 226003*; C-29 Sector C, Chetan Vihar, Aliganj, Lucknow 226024 [Tel (0522) 401-1510 (O), 98-392-21244 (M); Email shally07@gmail.com]; **SC: IX.**



2021: AYAPPA, K Ganapathy (*b* 1962), PhD, Sp: Chemical Engineering; FNAE, Professor, *Department of Chemical Engineering, Indian Institute of Science, Bengaluru 560012*; A1, Regency Manor, 34, Davis Road, Cooke Town Bengaluru 560084 [Tel (080) 2293-2769 (O), 98-444-94117 (M); Fax 2360-8121; Email ayappa@iisc.ac.in]; **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 Manauli, Punjab 140306*; 1079/2, Sector 39-B, Chandigarh 160036 [Tel (0172) 229-3154 (O), 98-882-24948 (M); Fax 224-0266; Email anand@iisermohali.ac.in]; **Lecture: BC Guha Memorial (2020); 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, *JSSCU, 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, NASI 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); INSA Honorary Scientist (2009-2011, 2016-19); 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://mcbli.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: Information Security, Complex Networks, Computational Electromagnetics, Polarimetric and Doppler Radars; FASc, FNASc, FNAE, FTWAS, INSA Senior Scientist, *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/prof-n-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: Chemical Biology and Molecular Biophysics; FASc, FTWAS, Former Director, *Indian Institute of Science, Bengaluru 560012*; DST Year of Science Chair Professor, National Centre for Biological Sciences, Bengaluru [Tel (080) 2334-0962 (R), 99-450-43004 (M); Email pb@iisc.ac.in, pbalar1949@gmail.com]; **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, 6810-2501 (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, Executive Director, R & D, *Sbasun 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); INSA Senior Scientist (2015-19); **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, Velachary, 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, Honorary Emeritus Professor, INSA Honorary Scientist, *Department of Genetics & Plant Breeding, Chaudhary Charan Singh University, Meerut 250004*; *1/239, Rakshapuram, Mawana Road, Meerut 250001* [Tel (0121) 796-3799 (Lab), 94-125-15497 (M); Fax 276-8195; Email hsbalyan@gmail.com]; INSA Senior Scientist (2015-19); **SC: XII.**



1955: BAMBAH, Ram Prakash (*b* 1925), PhD, D.Sc.(h.c) & ScD (Cantab), Sp: Number Theory & Discrete Geometry; FASc, FNASc, FTWAS, Professor Emeritus, formerly VC, Panjab Univ, Chandigarh; *1275, Sector 19B, Chandigarh 160019* [Tel 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, Mahindra Aura, Sector-110A, New Palam Vihar, Bajghera Road, Gurugram 122017* [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 Dist., 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, Director, *Bose Institute, P-1/12 C.I.T Scheme-VII-M, Kolkata 700054*; 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), Nature Nest, Flat 2H, 140 Prince Golum Hussain Shah Road, Kolkata 700032 [Tel (033) 2569-3200 (O), (03212) 227-933 (R), 94-740-03048 (M); Fax 2355-3886; Email ubandyo_1964@yahoo.com]; **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; formerly Professor, Department of Geology, Chattr 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]; INSA Honorary Scientist (2012-15, 2018-19); **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) Kolkata, 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, manju1972blr@gmail.com; Web <http://www.nucleix.mbu.iisc.ac.in/index.html>]; **Medal:** INSA Young Scientists (1979); **Council:** Mem 2019-; **SC: X.**



2005: BAPAT, Ravindra B (b 1954), PhD, Sp: Combinatorial Matrix Theory, Generalised Inverses; FASc, INSA Senior Scientist, *Indian Statistical Institute, 7, SJS Sansanwal Marg, New Delhi 110016; 147, Samachar Apartments, Mayur Vihar Phase II Extension, New Delhi 110091* [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, 36/P Gopanpally Village, Serilingampally, Hyderabad 500046* [Tel (040) 2020-3084 (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: BASAVIAIH, Deevi (b 1950), PhD, Sp: Organic Chemistry: Baylis-Hillman Chemistry and Chiral Catalysis; FASc, INSA Senior Scientist, *School of Chemistry, University of Hyderabad, Hyderabad 500046*; Villa # 34, Majeera Purple Town, Gopanpally, Hyderabad 500046 [Tel (040) 2313-4812 (O), 99-490-93977 (M)]; Fax 2301-2460; Email basavaiahdchem@uohyd.ac.in, basavaiahdeevi@gmail.com; Web <http://chemistry.uohyd.ac.in/~db/index.html>]; **Medal:** Professor TR Seshadri 70th Birthday Commemoration (2009); **SC: III.**



1992: BASKARAN, Ganapathy (b 1948), PhD, Sp: Condensed Matter Physics, Statistical Mechanics and Theoretical Biology; FASc, FTWAS, Professor Emeritus, *The Institute of Mathematical Sciences, Chennai 600113*; Distinguished Professor, Indian Institute of Technology, Chennai 600036; Distinguished Visiting 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.**



2020: BASKARAN, Sundarababu (b 1961), PhD, Sp: Synthetic Organic Chemistry; FASc, Institute Chair Professor, *Department of Chemistry, Indian Institute of Technology Madras, Chennai 600036*; B-26-2C, Chera Block, Delhi Avenue, IIT Madras, Chennai 600036 [Tel (044) 2257-4218, 2257-4200 (O), 2257-6218 (R), 98-401-30685 (M)]; Fax 2257-0545, 2257-4202; Email sbhaskar@iitm.ac.in; Web <http://www.chem.iitm.ac.in/faculty/baskaran/>; **SC: III.**



2017: BASU, Anirban (b 1968), PhD, Sp: Neurobiology, Neurovirology, Molecular Medicine and Drug Repurposing; FASc, FNASc, Fellow, American Academy of Microbiology, Scientist-VII, *National Brain Research Centre, Manesar 122052, Haryana*; 202 B, NBRC Campus Housing, National Brain Research Centre, Manesar 122052 [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.**



2021: BATRA, Janendra Kumar (*b* 1957), PhD, Sp: Biochemistry, Molecular Biology; FASc, FNASc, *Department of Biochemistry, School of Chemical and Life Sciences, Jamia Hamdard, New Delhi 110062* [Tel (011) 26059688 ext. 5513 (O), 9871499411 (M); Email jkbatra@jamiahamdard.ac.in, jkbatra@gmail.com]; **SC-VIII.**



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) 401-1611 (R), 74-281-37268 (M)]; **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.**



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 nnbhandari@yahoo.com; Web <http://nbhandari.com>]; INSA Honorary Scientist (2007-15); **SC: IV.**





2020: BHANDARI, Nita (b 1955), MBBS, PhD, Sp: Nutrition, Child Health, Vaccinology; FASc, Senior Scientist and Director, *Centre for Health Research and Development, Society for Applied Studies, 45, Kalu Sarai, New Delhi 110016*; B-10, Soami Nagar, New Delhi 110017 [Tel (011) 4604-3751-55 (O), 2601-3098 (R), 98-991-44123 (M); Fax 4604-3756; Email nita.bhandari@sas.org.in, nita.bhandari2@gmail.com]; **SC: XI.**



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, bvrajaramabhat@gmail.com]; **Medal:** INSA Young Scientist (1997); **SC: I.**

2003: BHAT, Subray Venkataraman (b 1945), PhD, Sp: Physics of Materials; FASc, FNASc, President, Asia-Pacific EPR/ESR Society (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.**



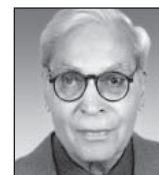
1988: BHATIA, Chittranjan (b 1936), PhD, Sp: Genetics, Plant Breeding, Agriculture, Biotechnology; FASc, FNASc, FNAAS, FTWAS, formerly Secretary to the Govt. of India, Department of Biotechnology; *17, Robini, Plot No. 29-30, Sector 9-A Vashi, Navi Mumbai 400703* [Tel (022) 2765-5178 (R), 98-205-02810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



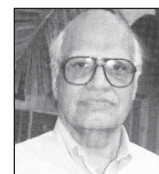
2005: BHATIA, Rajendra (b 1952), PhD, Sp: Mathematics: Matrix Analysis, Functional Analysis, Harmonic Analysis; FASc, FNASc, FTWAS, *Professor of Mathematics, Ashoka University, Sonapat 131029*; Professor Emeritus, Indian Statistical Institute, New Delhi; 5092 Parker Residency, Sector 61, Sonapat 131030 [Tel (0130) 230-0754 (O); Email rajendra.bhatia@ashoka.edu.in, rajenbhatia@gmail.com]; **Medal:** INSA Young Scientist (1982), PC Mahalanobis (2017); **Council:** Mem 2018-20; **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, *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]; INSA Senior Scientist (2018-19); **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 Apartment, 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, vc@bhu.ac.in]; **SC: IX.**





2018: BHATNAGAR, Shalabh (*b* 1968), PhD, Sp: Stochastic Approximation Algorithms, Optimization via Simulation, Stochastic Control; FASc, FNAE, FIETE, JC Bose National Fellow, 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.ac.in/~shalabh/>]; **SC: V.**



2018: BHATNAGAR, Shinjini (*b* 1960), MBBS, PhD, Sp: Health Sciences; FNASc, Professor of Eminence-*Maternal & Child Health, Translational Health Science and Technology Institute, NCR Biotech Science Cluster, 3rd Milestone, Faridabad-Gurgaon Expressway, Post Box#04, Faridabad 121001*; House No. 269, Sector 15A, Noida 201301 [Tel (0129) 287-6351 (O), (0120) 434-4552 (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, *Ashoka University, Sonapat 131029* [Tel (0130) 230-0799 (O), 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; FASc, Professor of Biology, *Ashoka University, Plot No. 2, Rajiv Gandhi Education City, P.O.Rai, Sonapat 131029*; formerly Professor, School of Life Sciences & School of Computational and Integrative Sciences, JNU, New Delhi; 1123, Sector B-1, Vasant Kunj, New Delhi 110070 [Tel 98-108-81439 (M); Email alok.bhattacharya@ashoka.edu.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, *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: BHATTACHARYA, 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: BHATTACHARYA, Archana (*b* 1948), PhD, Sp: Ionospheric Physics and Geomagnetism; FASc, FNASc, INSA Senior Scientist, *Centre of Studies in Resources Engineering, Indian Institute of Technology Bombay, Powai, Mumbai 400076*; 303 Mohnesh-3, Sector 21, Nerul (E), Navi Mumbai 400706 [Tel 96-195-43004 (M), 2772-2014 (R); Email archana.bhattacharyya@gmail.com]; **Council:** Ad Mem 2015; **SC: IV.**



1996: BHATTACHARYA, Bhabatarak (*b* 1944), PhD, Sp: Structural Biology, Biochemistry and Molecular Spectroscopy; FASc, FNASc, FTWAS, 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); INSA Senior Scientist (2014-19); **SC: X.**





2013: BHATTACHARYYA, Gautam (b 1966), PhD, Sp: High Energy Physics (Theory); FASc, FNASc, JC Bose National Fellow, Senior Professor and Director, *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.**



2021: BHATTACHARYYA Suvendra Nath (b 1975), PhD, Sp: Molecular Cell biology; Senior Principal Scientist and Head, *Molecular Genetics Division, CSIR-Indian Institute of Chemical Biology 4, Raja SC Mullick Road Kolkata 700032*; 23, Januki Nath Bose Road, Harinavi, 24 Parganas (South), West Bengal, 700148 [Tel (033) 24995783(O), 24279515 (R), 98-316-33460(M); Fax 24735197; Email suvendra@iicb.res.in; sb@csiriicb.in]; Medal: INSA Young Scientist (2004); **SC-VIII.**



2021: BHATTACHARYYA, Tirthankar (b 1968), PhD, Sp: Functional Analysis; FASc, Professor, *Department of Mathematics, Indian Institute of Science, Bengaluru 560012*; HE 321, HE Quarters, Indian Institute of Science, Bengaluru 560012 [Tel (080) 2293-2710 (O), 94-482-79673 (M); Fax 2360-0146; Email tirtha@iisc.ac.in]; **SC: I.**



2001: BHATWADEKAR, Shrikant Mahadeo (b 1946), PhD, Sp: Commutative Algebra and Algebraic Geometry; FASc, 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]; INSA Senior Scientist (2016-19); **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, Mahim, Mumbai 400016* [Tel (022) 2446-7356 (R); Email rajani.bhisey@gmail.com]; **SC: XI.**



2011: BHOSLE, Ushadevi Narendra (*b* 1949), PhD, Sp: Algebraic Geometry; FASc, FNASc, INSA Senior Scientist, Indian Statistical Institute, Bengaluru; 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, Research Professor, *Department of Chemical and Biomolecular Engineering, The University of Houston, Houston, Texas, 77204, USA*; former Professor of Eminence, Rubber Technology Centre, IIT Kharagpur; Former Director, IIT Patna [Tel (001-713) 743-9241 (O), 97-714-35882, 94-340-05882 (M); Email akbhownick@uh.edu, anilkb@rtc.iitkgp.ernet.in, anilbhownick@gmail.com; Web anilbhownick.com]; **Medal:** SH Zaheer (2020); **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, Microfluidics; FASc, FNASc, FNAE, JC Bose National Fellow, Professor, *Indian Institute of Technology Kanpur, Kanpur 208016*; formerly Director, IIT Guwahati and formerly Director, CSIR-CMERI, Durgapur [Tel (0512) 259-7656 (O), 88-110-86524 (M); Fax 259-7408; Email 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, 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, 78-922-66448 (M); Fax 274-7884; Email bujurke@yahoo.com]; INSA Senior Scientist (2005-07, 2009-12), INSA Honorary Scientist (2018-19); **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, Belegkata, 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; Professor, Indian Institute of Technology Kharagpur, Kharagpur 721302; Qtr No A-16, IIT Campus, Kharagpur 721302 [Tel (03222) 283-466 (O), 283-467 (R); Fax 282-000; Email ppchak@cse.iitkgp.ac.in, ppchak_99@yahoo.com]; **Medal:** INSA Young Scientist (1991), AK Bose Memorial (1995); **Council:** Mem 2017-19; **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, 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, Baguihati, 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, JC Bose National Fellow, Professor, *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, Visiting Professor, Department of Chemistry, Indian Institute of Technology Ropar, Rupnagar, Punjab 140001; Former Professor and Head, Department of Medicinal Chemistry, National Institute of Pharmaceutical Education and Research (NIPER), Punjab; *Mahananda Apartment, Block A, Flat No. 4, 5A Green Row, Kolkata 700084* [Tel 94-177-70515 (M); Email chakrabortiak@iitpr.ac.in, akchakraborti@nipr.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) 500-3975 (R), 98-158-63975 (M); Fax 2605-9666; Email pkchakraborti@jamiahamdard.ac.in, pradipkchakraborti@gmail.com]; **Medal:** Professor BS Trivedi Memorial (2020); **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.**



2020: CHAKRABORTY, Supriya (*b* 1969), PhD, Sp: Biology of Plant Virus Interactions; FNASc, FNAAS, Professor (Virology), *Molecular Virology Laboratory, School of Life Sciences, Jawaharlal Nehru University, New Delhi 110067*; 16, Dakshina Puram, Jawaharlal Nehru University, New Delhi 110067 [Tel (011) 2670-4153 (O), 2674-1875 (R), 98-686-28684 (M); Fax 2674-2558; Email supriyachakrasls@yahoo.com, schakraborty@mail.jnu.ac.in]; **SC: VII.**

2007: CHAKRABORTY, Tushar Kanti (*b* 1957), PhD, Sp: Organic Synthesis, Peptides, Peptidomimetics; FASc, FNASc, Professor, *Department of Organic Chemistry, Indian Institute of Science, Bengaluru 560012*; formerly Director, CSIR-Central Drug Research Institute, Lucknow [Tel (080) 2293-2215 (O), 6882-2680 (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, akhilchakravarty@gmail.com; Web <http://ipc.iisc.ac.in/arc/>]; **SC: III.**



2017: CHAKRAVORTTY, 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 94-338-01715, 96-744-08868 (M); Email animeshc31@gmail.com]; **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, 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, dipchak37@gmail.com]; **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*; 294 A, G1, 14th Cross, Dollars Colony, RMV II Stage, Bengaluru 560094 [Tel (080) 2293-2404 (O), 4165-1209 (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@iict.res.in]; **Medal:** INSA Young Scientist (1996), Golden Jubilee Commemoration (Chem Sc) (2019); **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), Professor Mihir Chowdhury Memorial (2019); **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, INSA Senior Scientist, 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) 2775-9768 (R); Fax 2551-9613; Email chaplot@barc.gov.in, chaplot1974@gmail.com]; **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@tifrh.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, JC Bose National Fellow, Institute Chair Professor and Professor, *Department of Chemistry, Indian Institute of Technology, Kharagpur 721302*; Distinguished Visiting Professor, Department of Chemistry, Indian Institute of Technology Bombay, Powai 400076; 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.chemistry.iitkgp.ac.in/faculty/PKC/web/>]; **Medal:** INSA Young Scientist (1990); **Lecture:** Professor Sadhan Basu Memorial (2020); **SC: III.**



2020: CHATTERJEE, Mitali (*b* 1960), MBBS, MD, PhD, Sp: Immunopharmacology, Leishmania Biology; FAMS, FASc, FNASc, FRCP, Professor, *Department of Pharmacology, Institute of Post-Graduate Medical Education and Research, 224B, Acharya JC Bose Road, Kolkata 700020*; 57/11B, Ballygunge Circular Road, Kolkata 700019 [Tel (033) 2204-1428 (O), 2454-4567 (R), 98-300-31523 (M); Fax 2223-4135; Email ilatimc@gmail.com]; **SC: XI.**





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.**



2021: CHATTERJEE Subhadeep (b 1975), PhD, Sp: Molecular microbiology, Quorum sensing, Plant-Microbe Interaction; Staff Scientist VI (Group leader), *Centre for DNA Fingerprinting and Diagnostics (CDFD), Inner ring road, Uppal, Hyderabad 500039, Telangana; B5, Flat no 102 Indu Aranya Pallavi, GSI Post, Bandlaguda, Hyderabad 500068* [Tel (040) 27216108 (O), 94-90794946 (M), Fax 27216006; Email subhadeep@cdfd.org.in, xoohyd@gmail.com]; **SC: VII.**



1997: CHATTERJI, Dipankar (b 1951), PhD, DSc (*bc*), 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/G Protein-coupled Receptor Biophysics & Biology, Fluorescence Spectroscopy & Microscopy; FASc, FNASc, FRSC, FTWAS, SERB Distinguished Fellow, *CSIR-Centre for Cellular & Molecular Biology, Uppal Road, Hyderabad 500007*; Distinguished Visiting Professor, Indian Institute of Technology Bombay, Mumbai; Adjunct Professor, Tata Institute of Fundamental Research, Mumbai; Swinburne University of Technology, Hawthorn (Victoria), Australia; 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, amit.gpcr@gmail.com; Web <http://e-portal.ccmb.res.in/e-space/amit/Pages/Index.htm>]; **Medal:** Professor GN Ramachandran 60th Birthday Commemoration (2015); **Lecture:** BC Guha Memorial (2008); **Council:** Mem 2020-; **SC: X.**



2020: CHATTOPADHYAY, Arun (b 1964), PhD, Sp: Chemical Physics; FASc, FRSC, Professor, *Department of Chemistry, Indian Institute of Technology Guwahati, Guwahati 781039; F-02, Indian Institute of Technology Guwahati, Guwahati 781039* [Tel (0361) 258-2304 (O), 258-4304 (R), 99-540-06897 (M); Fax 258-2349; Email arun@iitg.ac.in]; **SC: VI.**



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 Rockey 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.**





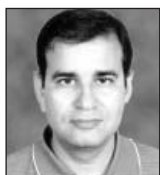
2007: CHAUDHURI, Bidyut Baran (b 1950), PhD, Sp: Computer Science and Engineering; FNASc, FNAE, FIEEE, FTWAS, Pro Vice-Chancellor, *Techno India University, EM 4, Sector V, Salt Lake, Kolkata 700091*; 87/29, A K Mukherjee Road, Kolkata 700090 [Tel 90-383-29290 (M); Email bidyutbaranchoudhuri@gmail.com, bbcisical@gmail.com]; **SC: V.**



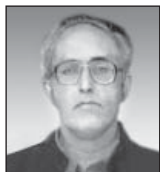
1991: CHAUDHURI, Mihir Kanti (b 1947), PhD, Dr rer nat, DSc (*hc*), Sp: Inorganic Chemistry; FASc, Advisor, Education [MoS], Govt. of Assam, *Janata Bhawan, Room No. B 118, Dispur, Gumabati 781006* [Telefax (0361) 223-7241, 99-544-49454 (M); Email mkc@tezu.ernet.in]; **Council: VP 2013-15; SC: III.**



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, Director, *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, Ad Mem 2020; 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.**



2020: CHAWLA-SARKAR, Mamta (b 1970), PhD, Sp: Molecular Virology; FNASc, Scientist-F, *Division of Virology, ICMR-National Institute of Cholera and Enteric Diseases (ICMR-NICED), P33 CIT Road, Scheme XM, Beliaghata, Kolkata 700010*; T-19, Panchasayar, Kolkata 700094 [Tel (033) 2353-7470 (O), 98-305-59871 (R), 98-306-60999 (M); Fax 2363-2398; Email chawlam70@gmail.com, chawlasarkar.m@icmr.gov.in]; **SC: XI.**



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



1978: CHIDAMBARAM, Rajagopala (b 1936), PhD, DSc (IISc), DSc (*hc*), Sp: Materials Science and Crystallography, High Pressure Physics and Nuclear Technology; FASc, FNASc, FNAE, FTWAS, DAE Homi Bhabha Professor, *Bhabha Atomic Research Centre, Trombay, Mumbai 400085*; 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@gov.in]; **Medal:** Meghnad Saha (2002), CV Raman (2013); **Visiting Fellowship:** JLNehru 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.**



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.ac.in/~achockal>, <http://ece.iisc.ac.in/~wrl>]; **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 Bhup, 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.**





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@iisc.ac.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); **Council:** Mem 2020-; **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 Emeritus 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:** JL 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 kedar@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, Professor, Department of Chemical Sciences and Dean, Research and Development; Indian Institute of Science Education and Research Kolkata, Mohanpur 741246, West Bengal; formerly Director, *CSIR-Central Salt & Marine Chemicals Research Institute, Bhavnagar* [Tel (033) 6136-0000 (O), 82-752-25356, 94-280-51283 (M); Fax 2334-7425; Email amitava@iiserkol.ac.in, a.das@csmcri.res.in, das.amitava1@gmail.com]; **SC: III.**



2005: DAS, Bhudev Chandra (*b* 1948), PhD, Sp: Molecular Cancer & Stem Cell Biology, Tumor 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, Jadavpur, 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.profpremanandadas.in, www.sftrrd.org]; **SC: XII.**



2009: DAS, Sampa (b 1951), PhD, Sp: Plant Molecular Biology, Plant Biotechnology; INSA Senior Scientist, *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@jcbose.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, Statistical Physics; FASc, FNASc, JC Bose National Fellow, Professor of Physics, *School of Physical Sciences, Jawaharlal Nebru University, New Delhi 110067*; 6229, Sector B, Pocket 9, Vasant Kunj, New Delhi 110070 [Tel (011) 2673-8768 (O), 4039-1050 (R), 98-996-74943 (M); Fax 2674-2580; Email shankar@jnu.ac.in, spd@uchicago.edu; Web https://www.jnu.ac.in/Faculty/shankar]; **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, Vasbi, 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 (2013-15); **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, INSA Senior Scientist, *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]; **Award:** INSA Teachers Award (2014); **Medal:** DN Wadia (2018); **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) 236-9300, 298-5806 (R), 93-369-10665, 96-709-57414 (M); Fax 236-7568; Email ddash.biochem@gmail.com]; **Lecture:** Dr Y SubbaRow Memorial (2020); **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; 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]; INSA Senior Scientist (2013-16, 2018-19); **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), 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); 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; Udit-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 jsmunshi@yahoo.co.in]; **Medal:** Chandrakala Hora Memorial (1992); INSA Senior Scientist (1996-2000); **Council:** Mem 1982-83; **SC: VIII.**



1994: DATTAGUPTA, Sushanta (*b* 1947), PhD, Sp: Structure and Dynamics of Condensed Matter; FASc, 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]; **Medal:** Professor Mihir Chowdhury Memorial (2019); **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; formerly Professor, Department of Geology and Director, School of Environmental Studies, University of Delhi, Delhi; *Sector C-1, Flat # 1157, Vasant Kunj, New Delhi 110070* [Tel (011) 2613-1157, 4304-6759 (R), 98-103-33889 (M); Email mihirdeb@gmail.com, mihirdeb@rediffmail.com]; INSA Senior Scientist (2010-14); **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, President, Moving Academy of Medicine and Biomedicine, Pune 411052; 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); INSA Senior Scientist (2014-16), INSA Honorary Scientist (2017-19); **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.**



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/departement/CE/faculty/ce-sdey>]; **SC: V.**



2021: DHAR, Abhishek (*b* 1970), PhD, Sp: Statistical Physics; FASc, FNASc, Professor (H), *International Centre for Theoretical Sciences, TIFR, Survey No. 151, Shivakote, Hesarghatta Hobli, Bengaluru 560089*; 3051 Prestige Wellington Park, IAF Main Road, Jalahalli, Bengaluru 560013 [Tel (080) 4653-6270 (O), 91-641-83540 (M); Fax 4653-6002; Email abhishek.dhar@icts.res.in]; **SC: II.**



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.**



2020: DHAWAN, Jyotsna (*b* 1959), PhD, Sp: Biology of Quiescent Adult Stem Cells; Emeritus Scientist, *CSIR-Centre for Cellular and Molecular Biology, Uppal Road, Hyderabad 500007*; formerly Chief Scientist and Group Leader, CSIR-CCMB and Professor, AcSIR; former Dean, DBT Institute for Stem Cell Science and Regenerative Medicine, Bengaluru; Indu Aranya Pallavi Apts, Block C2, Apt 201, Nagole Tattianaram Road, GSI Post, Nagole, Hyderabad 500068 [Tel (040) 2719-2544 (O), 96-200-16632 (M); Fax 2716-0591; Email jdhawan@ccmb.res.in, jdhawan@instem.res.in, jyotsna.dhawan@gmail.com]; **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); 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, INSA Senior Scientist, *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 (O), 2366-3313 (R), 99-019-03513 (M); 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, PUSHPAC 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, FAMS, JC Bose National Fellow, THSTI National Chair, *NCR Biotech Science Cluster, 3rd Milestone, Faridabad – Gurgaon Expressway, Faridabad, Haryana 121001*; Former Visiting Professor, IIT Jodhpur; 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@thsti.res.in]; **Medal:** INSA Young Scientist (1989); Professor KP Bhargava Memorial (1999); **Lecture:** Professor Darshan Ranganathan Memorial (2013), DS Kothari Memorial (2020); **Council:** Mem 2017-19; **SC: XI.**



2005: DILEEPKUMAR, Maripi (b 1954), PhD, Sp: Oceanography, Biogeochemistry; FASc, FNASc, JC Bose National Fellow, *500/22/F2, Sagar Ratna Hsg Society, Filomena Hsg. Colony, Alto-Santa Cruz, Bambolim P.O., Goa 403202* [Tel 94-044-34053 (M); Email maripidileepkumar@gmail.com]; **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); INSA Emeritus Scientist and JC Bose National Fellow, formerly Chief Scientist (Scientist G), *Division of Molecular Parasitology and Immunology, 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]; **Medal:** Professor BS Trivedi Memorial (2020); INSA Senior Scientist (2016-18); **SC: VIII.**



2014: DURGA RAO, Chilakalapudi (b 1950), PhD, Sp: Virology, Cell and Molecular Biology, Biotechnology; FNASc, Professor & Dean, *School of Liberal Arts & Basic Sciences, Department of Biology, SRM University, Mangalagiri Mandal Guntur Dist., Neerukonda, Amaravati 522502, Andhra Pradesh* [Tel (080) 2360-7945 (R), 98-808-82052 (M); Email cdrmcb@gmail.com, durgarao.c@srmmap.edu.in, dean.slabs@srmmap.edu.in]; INSA Senior Scientist (2016-19); **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 94-517-06439 (M), 70-072-32601 (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.**



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; Founder President, Indian Society of Evolutionary Biologists (ISEB); 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>, https://www.researchgate.net/profile/Raghavendra_Gadagkar]; **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 Member US NAS, *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, *Department of Chemistry and 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, FNASc, 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: GANESHAIAH, Kotiganahally Narayana Gowda (b 1953), PhD, Sp: Plant Reproductive Ecology, Conservation Biology, Insect Behaviour & Crop Breeding; FASc, FNAAS, FCSA, University Head, *Department of Forestry and Environment Sciences* and Professor, *School of Ecology and Conservation, University of Agricultural Sciences, GKVK Campus, Bengaluru 560065*; 7, PUNGAVEE, Santosh Vihar, Phase I, Jakkur Road, Bengaluru 560092 [Tel (080) 2363-6276 (O), 4127-5765 (R), 93-421-60639 (M); Fax 2353-0070; Email knganeshaiyah@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, Adviser to Director General, Mentor & Distinguished Professor, Department of Nuclear Science & Technology, 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 80-082-22001 (R), 80-082-22016 (M); Email chaitanya.ganguly@gmail.com, chm_ganguly@yahoo.com]; **SC: V.**





1993: GANGULY, Nirmal Kumar (b 1941), MD, DSc (*hc*), Sp: Microbiology, Immunology, Biotechnology, Infectious Diseases, Public Health and Policy; FASc, FNASc, FTWAS(Italy), FAMS, FRCPath(London), FRC Trop(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; Professor, The Ganga Ram Institute for Postgraduate Medical Education & Research (GRIPMER), Sir Ganga Ram Hospital, New Delhi; Senior Scientific Advisor, Global Health Strategies; President, Apollo Hospitals Educational and Research Foundation (AHERF); formerly DG-ICMR; former General President, Indian Science Congress Association; formerly President, JIPMER, Puducherry & Asian Institute of Public Health, Bhubaneswar, Odisha; formerly Director-in-Charge, National Institute of Biologicals, New Delhi; #191, 9th Floor, City View Apartments, Sector-35, Noida 201301; #701, Gayatri Apartments, GH-6, Sector 45, Faridabad 121003; 1103/1 Sector-39B, Chandigarh 160012 [Tel (011) 2682-5627 (O), (0129) 243-998 (R); Email ganguly1nk@gmail.com, ganguly.nk@aherf.net]; **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.**



2020: GARG, Pramod Kumar (b 1963), MBBS, MD, DM, Sp: Medicine, Gastroenterology, Pancreatology; FNASc, FAMS, FRCP, Professor, *Department of Gastroenterology, All India Institute of Medical Sciences, New Delhi 110029*; 1273, B-1, Vasant Kunj, New Delhi 110070 [Tel (011) 2659-3556/4425 (O), 4100-6336 (R), 98-100-38116 (M); Fax 2658-8663; Email pkgarg@aiims.ac.in, pgarg10@gmail.com]; **SC: XI.**



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

2006: GAVAI, Rajiv Vasant (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, Dr Raja Ramanna Fellow, *Department of Physics, Academic Building I, Indian Institute of Science Education and Research Bhopal, Indore By-pass Road, Bhauri, Bhopal 462066*; formerly Chair and Senior Professor, Department of Theoretical Physics, TIFR, Mumbai; Row House No. 54, Hill Garden Row House CHSL, Tikuji-ni-Wadi Road, Near Tikuji-ni-Wadi, Chitalsar, Manpada, Thane 400610, Maharashtra [Tel 98-209-54585 (M); Email gavai@tifr.res.in, rajiv.gavai@gmail.com]; **SC: II.**



2015: GEORGE THOMAS, Kakkudiyil (b 1961), PhD, Sp: Physical Chemistry, Photochemistry, Photophysics and Material Science; FASc, JC Bose National Fellow, Professor & Dean (Faculty Affairs), *School of Chemistry, Indian Institute of Science Education and Research Thiruvananthapuram (IISER-TVM), Maruthamala (PO), Vithura, Thiruvananthapuram 695551*; 11G, SFS Stanford, Madathunada, Mukkolackal, Kudappanakunnu (PO), Thiruvananthapuram 695043 [Tel (0471) 277-8040 (O), 254-2245 (R), 98-473-56057 (M); Email kgt@iisertvm.ac.in]; **SC: III.**



2021: GHATE, Eknath Prabhakar (b 1969), PhD, Sp: Mathematics (Number Theory); FASc, Professor and Dean, *School of Mathematics, Tata Institute of Fundamental Research, Mumbai 400005*; 702 Meghnad, TIFR Housing Colony, Homi Bhabha Road, Mumbai 400005 [Tel (022) 2278-2663 (O), 98-201-94361 (M); Fax 2280-4610; Email eghate@math.tifr.res.in]; **SC: I.**



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) 4603-3573 (R), 94-336-92858, 70-448-08282 (M); Email amitghosh24@yahoo.com]; INSA Senior Scientist (2015-16); **Council: Mem 2011-13; VP 2021-; SC: XI.**



2000: GHOSH, Amitabha (b 1941), PhD, DSc (*bc*), Sp: Mechanical Engineering; FASc, FNASc, FNAE, INSA Honorary Scientist, formerly Professor, IIT Kanpur, Director, IIT Kharagpur; 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, *School of Physical Sciences, 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 140308 [Tel (0172) 221-0075 (O), 99-300-42720 (R), 99-201-65111 (M); Fax 221-1074; Email hnghosh@inst.ac.in, hnghosh2004@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; INSA Honorary Scientist, Director, Agtec Innovations Pvt Ltd, Building IV, South Block, 2nd Floor, Behala Industrial Estate (Government of West Bengal), 620 Diamond Harbour Road, Kolkata 700034; 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 2017-21; **SC: XII.**



2021: GHOSH, Pradyut (b 1970), PhD, Sp: Inorganic and Supramolecular Chemistry; FASc, Senior Professor and Chair, *School of Chemical Sciences, Indian Association for the Cultivation of Science, 2A & 2B, Raja SC Mullick Road, Jadavpur, Kolkata 700032*; Eden Roma, Flat-2A/III, 39 East Purbachal Canal Road 1st Lane, Kalikapur, Kolkata 700078 [Tel (033) 2473-4971 Ext 1351, 94-331-38075 (M); Fax 2473-2805; Email icpg@iacs.res.in, icpg.iacs@gmail.com]; **SC: III.**



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, Distinguished Professor & Dean, *Academic Affairs, UM-DAE-Centre for Excellence in Basic Sciences, University of Mumbai, Kalina Campus, Santacruz (East), Mumbai 400098*; Plot No-56, Row House, Sector-1, Kopar Khairane, Navi Mumbai 400709 [Tel (022) 2559-5092 (O), 2754-9108 (R); Email swapankghosh@gmail.com, swapan.ghosh@cbs.ac.in]; **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.**



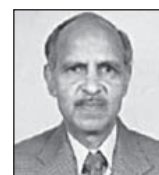
2013: GIRI, Ashok Kumar (b 1952), PhD, DSc, Sp: Genetic Toxicology, Environmental Mutagenesis, Human Genetics and Genomics, Monitoring of Human Population Exposed to Environmental Mutagens and Carcinogens; FNASc, INSA Senior Scientist, Emeritus Scientists (CSIR), *Molecular Genetics Division, CSIR-Indian 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 akhiri15@yahoo.com, akhiri@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); **Lecture:** KS Krishnan Memorial (2019); **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.**



1986: GOPALAN, Kunchithapadam (*b* 1938), PhD, Sp: Geochronology & Isotope Geology; FASc, FNASc, *38765 Adcock Drive, Fremont, California 94536, USA* [Tel (+1) (510) 771-4980 (R); Email mompattu@gmail.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, Formerly 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, “*SWATHI*”, *VPXI/872, Kodanganur PO, Thiruvananthapuram 695013* [Tel 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 bhupengoswami100@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 & INSA Senior Scientist, *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, *School of Chemical Sciences, 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); 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, Vigyanshila, 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, Director, *Indian Institute of Science Education and Research Mohali, Knowledge City, Sector 81, SAS Nagar, Manauli PO 140306*; formerly Staff Scientist and Director, CDFD & Scientist, CCMB, Hyderabad [Telefax (0172) 224-0266 (O), 229-3120 (R), 91-604-30111 (M); Email director@iisermohali.ac.in, jayaraman.gowrishankar@gmail.com]; **Medal:** INSA Young Scientist (1986); **Lecture:** JL Nehru Birth Centenary (2005); INSA Senior Scientist (2017-19); **Council:** Mem 2007-09; **SC: X.**



2007: GROVER, Anil (b 1958), PhD, Sp: Heat Stress Responses of Plants; 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), DSc (*bc*), Sp: Experimental Petrology; FASc, FNASc, Raja Ramanna Fellow (AEC), Visiting Professor, Purbanchal University; *E-203, Green Valley Apartments, Chiriamore, Kaikabali 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.iitkgp.ac.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, *CSIR-National Geophysical Research Institute (NGRI), Uppal Road, Hyderabad 500007*; President GSI and Member, Atomic Energy Regulatory Board; formerly: Member, National Disaster Management Authority, Govt. of India; Secretary to Govt. of India, DOD (now MoES); Director, NGRI, Hyderabad; Vice-Chancellor, Cochin University of Science and Technology, Cochin; Professor, University of Texas at Dallas, USA; *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.

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

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.**



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 93-155-06902 (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, Pushendra Kumar (*b* 1936), PhD, Sp: Cytogenetics, Plant Breeding & Biotechnology; FASc, FNASc, FNAAS, 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, pkgupta@ccsuniversity.ac.in]; INSA Senior Scientist (2003-06, 2015-16), INSA Honorary Scientist (2017-19); **SC: VII.**



1995: GUPTA, Raj Krishan (*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.**



011: GUPTA, Sourendu (b 1959), PhD, Sp: Theoretical High Energy Physics, Statistical Mechanics in Quantum Field Theory, Quantum Chromodynamics and Strong Interactions; Senior Professor and Chair, *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; INSA Senior Scientist, *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, INSA Senior Scientist, 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.**



2021: HABIB, Saman (b 1968), PhD, Sp: Malaria parasite biology, human genetic factors and malaria susceptibility; FASc, FNASc, Chief Scientist and Professor (AcSIR), *Division of Molecular & Structural Biology, CSIR-Central Drug Research Institute, Sector 10, Jankipuram Extension, Sitapur Road, Lucknow 226031*; 206, Heritage Apts., Madan Mohan Malviya Marg, Lucknow 226001 [Tel (0522) 2772477 (O), 93-352-48113 (M); Fax 2771941; Email saman.habib@gmail.com, saman_habib@cdri.res.in]; **SC: VIII.**



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.**

2020: HAMIED, Yusuf Khwaja (b 1936), PhD, ScD, DSc (*hc*), Sp: Steroid Chemistry, Applied Organic Chemistry; FRS, FRSC, Non-Executive Chairman, *Cipla Ltd.*, 289 Bellasis Road, Mumbai Central, Mumbai 400008; Windsor Villa, 2nd floor, Westfield Compound, Off B. Desai Road, Cumballa Hills, Mumbai 400026 [Tel (022) 2308-2891, 2309-5521 (O), 2369-8855, 2369-7740 (R), 88-799-70553, (+44) 79-796-90690 (M); Fax 2307-0013; Email ykh@cipla.com]; **NC***.



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, FASc, FNAE, SERB Distinguished Fellow, CSIR-NAL, Founder, General Aeronautics Pvt. Ltd., Chairman, BOG, IIT BHU; *NEB 3/401, Sbriram Spandana, Challaghatta, off Wind Tunnel Road, Bengaluru 560037* [Tel (080) 4201-9017 (R), 98-807-96012 (M); Email hnkota@yahoo.com]; **NC***.



2021: HARITSA, Jayant Ramaswamy (b 1964), PhD, Sp: Computer Science (Database Systems); FNASc, FNAE, FASc, FIEEE, FACM, JC Bose National Fellow, Professor (HAG Scale), *Department of Computational & Data Sciences, Indian Institute of Science, Sir CV Raman Road, Bengaluru 560012*; 17/1 Vani Vilas Road, Basavanagudi, Bengaluru 560004 [Tel (080) 2293-2793 (O), 94-490-15894 (M); Fax 2360-2648; Email jharitsa@gmail.com]; **SC: V.**



2006: HASAN, Gaiti (b 1956), PhD, Sp: Molecular Genetics, Intracellular Calcium Signalling and Neurobiology; FTWAS, SERB Distinguished Fellow, *National Centre for Biological Sciences, Tata Institute of Fundamental Research, GKVK Campus, Bellary Road, Bengaluru 560065*; No 93-94, 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]; **Lecture:** Professor Darshan Ranganathan Memorial (2019); **Council:** VP 2020-; **SC: VIII.**



1999: HASNAIN, Seyed Ehtesham (b 1954) PhD, DSc (*hc*), DMedSc (*hc*), Sp: Functional Biology, Molecular Pathogenesis & Dissemination Dynamics of Human Pathogens particularly *M. tuberculosis*; FASc, FNASc, FTWAS, Member, German National Acad Sci, Leopoldina, Fellow, American Academy of Microbiology; Professor, *Jamia Hamdard Institute of Molecular Medicine, Hamdard Nagar, New Delhi 110062*; Vice-Chancellor, Jamia Hamdard (Hamdard University) and Honorary Professor, Department of Biochemical Engineering and Biotechnology, Indian Institute of Technology Delhi; formerly Invited Professor, Kusuma School of Biological Sciences (2011-19), IIT Delhi, New Delhi; VC Lodge, Jamia Hamdard, Hamdard Nagar, New Delhi 110062 [Tel (011) 2605-9662/5216, 5213 (O); Fax 2605-9663; Email schiitd@gmail.com; Web <http://www.seyedhasnain.org.in>, <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.**



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



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 hosurmv@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 and Chair, *Molecular Biology and Genetics Unit, Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Jakkur PO, Bengaluru 560064* [Tel (080) 2208-2818 (O); 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, Gachibowli, 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), 98-454-79865 (M); Fax 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 of Eminence, *Chettinad Hospital & Research Institute, Kelambakkam, Chennai 603103* & Visiting Professor, *Department of Radiology, Sri Ramachandra Institute of Higher Education and Research, Porur, Chennai 600116* & Adjunct Professor, *Department of Electrical Engineering, IIT Madras, Chennai 600036; Villa B-7 (GF), Chettinad Health City, Rajiv Gandhi Salai, Kelambakkam, Chennai 603103* [Tel 99-682-92772 (M)]; Email jagan1954@hotmail.com, nrjgj@yahoo.co.in]; **Lecture:** JL Nehru Birth Centenary (2020); **Council:** VP 2017-19; **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 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.**



2019: JAIN, Neeraj (*b* 1960), PhD, Sp: Neuroscience; FNASc; Director, *National Brain Research Centre, Nainval Road, NH 8, Manesar, Gurugram 122052*; 603, Tower 2, Uniworld Gardens, Sohna Road, Gurugram 122018 [Tel (0124) 284-5207 (O), 98-104-46444 (M)]; Email director@nbrc.ac.in, director.nbrc@gov.in, neeraj.jain@nbrc.ac.in, njain.nbrc@gmail.com; Web <http://www.nbrc.ac.in/>, <http://neerajlab.weebly.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, Director, *Trivedi School of Biosciences, Ashoka University, Rajiv Gandhi Education City, Sonapat, Haryana 131029*; 26, Zakir Bagh, New Delhi 110025 [Tel (0130) 230-0000 (O), (011) 2684-0631 (R); Email shahid.jameel@ashoka.edu.in; Web <http://www.ashoka.edu.in>]; **Lecture:** Dr MR Das Memorial (2008); **SC: XI.**



2020: JASRA, Raksh Vir (b 1952), PhD, Sp: Catalysis, Adsorption, Petrochemicals, R&D Leadership, NanoPorous Materials; FNAE, Senior Vice-President (R&D), *R&D Centre, Reliance Industries Ltd., P.O. Petrochemicals, Vadodara 391346*; B-245, Sundervan Housing Society, New Sama Road, Vadodara 390024 [Tel (0265) 284-2304, 261-6313 (O), 271-1986 (R), 97-243-14454 (M); Email rakshvir.jasra@ril.com, rvjasra@gmail.com]; **SC: VI.**



2017: JAYAKRISHNAN, Athipettah (b 1953), PhD, Sp: Polymer Chemistry, Biomaterials; FASc, Raja Ramanna Fellow, *Rajiv Gandhi Centre for Biotechnology, Jagathy, Trivandrum 695014*; TC39/2221, Seventh Day School Road, Thirumala P.O., Trivandrum 695006 [Tel (0471) 278-1279 (O), 235-3309 (R), 99-467-92226 (M); Email jayakrishnan1953@gmail.com, jayakrishnana@rgcb.res.in]; **SC: VI.**



2021: JAYANANDA, Mudlappa (b 1959), PhD, Sp: Petrology, Solid Earth Geochemistry and Tectonics; FASc, FNASc, Professor, *Centre for Earth, Ocean and Atmospheric Sciences, University of Hyderabad, Prof. CR Rao Road, Gachibowli, Hyderabad 500046*; No.102, Satyam Block, Fortune Kumkum Heights, Masjid Banda, Kondapur, Hyderabad 500084 [Tel (040) 2321-2669 (O), 95-607-14425, 86-184-21127 (M); Email mjayan.geol@gmail.com]; **SC: IV.**

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, Professor, *Department of Materials Engineering, Indian Institute of Science, Bengaluru 560012*; M204, Brigade Gateway, 26/1 Dr Rajkumar Road, Malleshwaram West, Bengaluru 560055 [Tel (080) 2293-3243, 2293-2263 (O), 96-633-68667 (M); Fax 2360-1198, 2360-0472; Email qjayaram@iisc.ac.in, qjayaram@yahoo.com]; **SC: V.**



1998: JEMMIS, Eluvathingal Devassy (b 1951), PhD (Princeton), Sp: Theoretical and Computational Chemistry; FASc, FNASc, FTWAS, Year of Science Chair Professor-SERB, *Department of Inorganic and Physical Chemistry, Indian Institute of Science, Bengaluru 560012*; formerly Director, IISER, Thiruvananthapuram; No. 324, Embassy Heritage, 8th Main Road, Malleshwaram, Bengaluru 560055 [Tel (080) 2293-3347/48 (Lab), 2367-0324 (R), 94-835-98097 (M); Fax 2360-1552; Email jemmism@gmail.com, jemmism@iisc.ac.in; Web <http://ipc.iisc.ac.in/edj.php>]; **Medal:** INSA Young Scientist (1982), AK Bose Memorial (1988), Golden Jubilee Commemoration (Chem Sc) (2019); **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, Juhu-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 cjog@iisc.ac.in; Web <http://www.physics.iisc.ac.in/~cjog/>]; **Medal:** HJ Bhabha (2017); **Council:** Mem 2017-19; **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, formerly Professor and Chair, 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, Kayyunnappara 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, Sbarada Nagar, Chikkabommasandra, Bengaluru 560065, Karnataka*; No. 31, Sri Guru Deepam, Flat No. 201, 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 Nehru Centre for Advanced Scientific Research (JNCASR), Jakkur, 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 Bhalthandra (*b* 1949), PhD (Tech), Sp: Chemical Engineering; FASc, FNASc, FNAE, FTWAS, Emeritus Professor of Eminence, 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, Vice-Chancellor (Provost) & Founding Director, *International Center for Cosmology (ICC), CHARUSAT University, Anand 388421* [Tel (02697) 265-011/21 (O); Fax 265-007; Email psjcosmos@gmail.com]; **Medal:** INSA-Vainu Bappu Memorial (2019); **SC: II.**



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



2012: JOY, Keerikkattil Paily (*b* 1950), PhD, Sp: Neuroendocrinology, Reproductive Endocrinology; INSA Senior Scientist, 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, Vadanncode 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), INSA Emeritus Scientist (2018-19); **SC: VIII.**



1990: JUNJAPPA, Hiriyakkanavar (*b* 1936), PhD, Sp: Synthetic and Mechanistic Organic Chemistry; FASc, 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), INSA Honorary Scientist (2017-19); **SC: III.**



2013: KAILAS, Swaminathan (*b* 1949), PhD, Sp: Accelerator Based Nuclear Physics and Applications; FASc, INSA Senior Scientist, *UM-DAE Centre for Excellence in Basic Sciences, University of Mumbai, Mumbai 400098*; formerly Director, Physics Group, BARC, Mumbai; 501 Tulip, Neelkanth Gardens Govandi, Mumbai 400088 [Tel 2551-2291 (R), 98-190-66226, 99-691-53075 (M); Email drskailas@rediffmail.com, swaminathankailas305@gmail.com, kailas@cbs.ac.in]; **SC: II.**



1989: KAMBOJ, Ved Prakash (*b* 1937), PhD, DSc, Sp: Drug/Vaccine Development, Reproductive Biology, Contraception and Endocrinology; FNASc, Mem NYASC, formerly Director, CDRI, Lucknow and formerly Chairman, BIBCOLD, Bulandshahar; NASI Honorary Scientist, Biotech Park, Lucknow; *C-1111, Opposite Church, Indira Nagar, Lucknow 226016* [Tel (0522) 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 Emeritus 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]; INSA Honorary Scientist (2014-19); **SC: IV.**



2016: KANG, Gagandeep (*b* 1962), MBBS, MD, PhD, FRCPath, Sp: Medicine, Microbiology, Vaccines, Enteric Infections, Public Health; FASc, FNASc, Fellow, American Academy of Microbiology, FRS, Professor, *The Wellcome Trust Research Laboratory, Division of Gastrointestinal Sciences, Christian Medical College, Vellore 632004*; 313, Ring Road, CMC Campus, Bagayam, Thorapadi Post, Vellore 632002 [Tel (0416) 228-2052 (O), 228-4266 (R), 98-940-70266 (M); Fax 228-2294; Email gkang@cmcvellore.ac.in, wellcome@cmcvellore.ac.in]; **SC: XI.**



2019: KANJILAL, Dinakar (*b* 1955), PhD, Sp: Material Sciences & Engineering, Condensed Matter Physics, Accelerator Physics; FNASc, DAE Raja Ramanna Fellow & 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, Raheja 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: Solid & 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) 2576-7301 (O), 99-691-64646 (M); Email tkant@civil.iitb.ac.in, tkant1946@gmail.com; Web http://www.civil.iitb.ac.in/~tkant]; **Medal:** Professor Brahm Prakash Memorial (2019); **Council:** Mem 2020-; **SC: V.**



984: 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), 2986-4986 (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) 7196-1006 (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; *Apt. 007, BLESS HOMES Pvt. Ltd, Chembarakky, S. Vazhakkulam, Aluva 683105, Kerala* [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, Inner Ring Road, Uppal, Hyderabad 500039*; K-127, Vaishali Garden Apartments, Street No. 20, Tarnaka, Hyderabad 500017 [Tel (040) 2721-6000 (O), 2717-3903 (R), 89-782-51840 (M); Fax 2721-6006; 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, Cincinnati, 45220, Ohio, USA* [Tel (+1) (513) 827-1015; Email premakasturi@yahoo.in]; **SC: III.**



1989: KASTURIRANGAN, Krishnaswamy (*b* 1940), PhD, DSc (*hc*), 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) 2361-0522 (O); Fax 2361-0492; 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, DAE Raja Ramanna Fellow, *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, Coordinator, Center for Nanotechnology, University of Hyderabad (2008-2014); INSA Honorary 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]; INSA Senior Scientist (2014-19); **SC: II.**



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 600129 [Tel (044) 6529-9023 (D), 2254-1698, 2254-2698 (O), 2268-2254 (R), 94-440-24013 (M); Fax 2254-1319; Email pckamalam38@gmail.com; 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) 2576-7212 (O), 98-206-05351 (M); Email khakhar@iitb.ac.in; Web <http://www.che.iitb.ac.in/faculty/dvk.html>]; **Council:** Mem 2011-13; VP 2021-; **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, *Department of Biotechnology, School of Chemical and Life Sciences, Jamia Hamdard, Hamdard Nagar, New Delhi 110062*; A1/153, Paschim Vihar, New Delhi 110063 [Tel (011) 2605-9688 (O), 98-990-17170, 90-138-91001 (M); 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, INSA Honorary Scientist, *Department of Physics, Savitribai Phule Pune University, Pune 411007* [Tel (020) 2569-2678 Ext 333 (O), 97-653-96369 (M); Fax 2569-1684; Email khare@physics.unipune.ac.in]; 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, SGP GIMS and Professor, IISc, Bengaluru; Type V/2 SGP GIMS 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.**



2020: KHOSLA, Sanjeev (b 1969), PhD, Sp: Epigenetics, Host-pathogen Interaction; FNASc, Director, *CSIR-Institute of Microbial Technology, Sector 39A, Chandigarh 160036*; H.No.-E1, IMTech Housing, Sector 39A, Chandigarh 160036 [Tel (0172) 269-0785 (O), 666-5501 (R), 99-499-52300 (M); Fax 269-0585; Email sanjuk@imtech.res.in]; **SC: IX.**



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 (*bc*), 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, Certified Emeritus Sr Ecologist, ESA, USA; Vice-Chancellor, *Amity University, Mohali, Punjab 140306* [Tel (072) 401-5273 (O), 98-722-01516, 98-770-34221 (M); Email rkkohli45@yahoo.com, rkkohli45@gmail.com, rkkohli@pb.amity.edu; 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.**



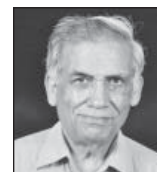
2015: KONDAIAH, Paturu (*b* 1954), PhD, Sp: Cancer Biology and Biomarkers, Cancer Therapeutics, Gene Regulation by Steroid Hormones; INSA Senior Scientist, Professor, *Department of Molecular Reproduction, Development and Genetics, Indian Institute of Science, Bengaluru 560012*; DQ14, New Housing Colony, Indian Institute of Science, Bengaluru 560012 [Tel (080) 2293-2688 (O), 2360-3531 (R), 94-484-89531 (M); Fax 2360-0999; Email paturu@alum.iisc.ac.in]; **SC: XI.**



2017: KOTHA, Sambasivarao (*b* 1957), PhD, Sp: Organic Chemistry; FNASc, FASc, FRSC, Pramod Chaudhari Chair Professor (Green Chemistry), *Department of Chemistry, Indian Institute of Technology Bombay, Powai, Mumbai 400076*; Tower 7, Apt 203, I&T Emerald Isle, Sakivihar Road Powai, Mumbai 400072 [Tel (022) 2576-7160 (O), 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, INSA Senior Scientist, *UM-DAE 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 1-95, New Plots near the Primary School, Chinaogirala, Vuyyuru (Mandalam), Krishna (Dt), Andhra Pradesh 521245 [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, Trustee, *Krishnamurti Foundation India, Rajghat Fort, Varanasi 221001*; formerly Professor of Physics, BHU, Varanasi; Sangam House, KF1, Rajghat Fort, Varanasi 221001 [Tel 94-152-23667 (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 Honorary 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]; INSA Senior Scientist (2016-19); **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 (080) 2293-3147 (O), 94-960-50095, 99-455-30293 (M); Email kkmoothy@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.**



2020: KRISHNAMURTHY, Manchikanti (*b* 1969), PhD, Sp: Atomic, Molecular, Optical and Plasma Physics; FASc, Professor (H), *Tata Institute of Fundamental Research, 36/P Gopannapally, Hyderabad 500107*; I-1901, Aparna Sarovar, Kanchi Gachibowli Road, Nallagandla, Hyderabad 500046 [Tel (040) 2020-3069 (O), 4776-6433 (R), 90-046-80294 (M); Email mkrism@gmail.com, mkrism@tifr.res.in]; **Medal:** INSA Young Scientist (2001); **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) 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.**



2020: KRISHNAN, Raghavan (*b* 1965), PhD, Sp: Atmospheric and Climate Science; FASc, Scientist-G & Executive Director, *Centre for Climate Change Research, Indian Institute of Tropical Meteorology, Dr. Homi Bhabha Road, NCL Post, Pashan, Pune 411008*; No. 55, Buena Monte, NCL-A Cooperative Housing Society, Panchavati, Pashan, Pune 411008 [Tel (020) 2590-4301 (O), 98-817-37976 (M); Fax 2586-5142; Email krish@tropmet.res.in]; **SC: IV.**



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



1986: KRISHNAN, Varadachari (*b* 1937), PhD, Sp: Inorganic and Bio-Inorganic Chemistry; FASc, FTWAS, Honorary Professor, *Jawaharlal Nehru Centre for Advanced Scientific Research (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 kamalakrishnaswamy@gmail.com, 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.**





011: 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), 88-884-25978 (M); Email skknano@gmail.com]; **SC: II.**



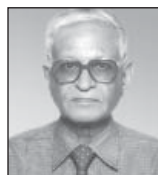
1989: KUMAR, Anil (b 1941), PhD, Sp: Nuclear Magnetic Resonance Spectroscopy & Applications to Biomolecules and Quantum Computing; FASc, FNASc, FTWAS, INSA Emeritus Scientists, NASI-Honorary Scientist, *Department of Physics and NMR Research Centre, Indian Institute of Science, Bengaluru 560012; D-201, 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), 4862-4169 (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, FIEEE, 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 Zahaer (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, New Delhi; formerly 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 98-107-23891, 99-584-32895 (M); Email sushil2000_01@yahoo.co.in, sushil2016onwards@gmail.com]; **Medal:** Professor SB Saksena Memorial (2002), Professor TV Desikachary Memorial (2020); 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, DSc, Sp: Regulation of Gene Expression (Transcription) in Humans with Special Emphasis on Disease and Therapeutics and Related Chemical Biology; FASc, FNASc, Director, *CSIR-Central Drug Research Institute, Sector-10, Janakipuram Extension, Sitapur Road, Lucknow 226031* [Tel (0522) 277-1940 (O), 94-494-56334 (M); Fax 277-1941; Email director@cdri.res.in] & Professor, Transcription and Disease Laboratory, Molecular Biology and Genetics Unit, Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Jakkur PO, Bengaluru 560064; Flat No A 201, MV Royal Homes, 273/1/3, Srirampura, Jakkur PO Yelahanka Hobli, Bengaluru 560064 [Tel (080) 2208-2840 (O), 2362-2773 (R); Fax 2208-2766; Email tapas@jncasr.ac.in]; **Lecture:** Dr Nitya Anand Endowment (2015); **SC: X.**



2020: KUNNATH, Sandeep (*b* 1973), PhD, Sp: Partial Differential Equations; FASc, Professor, *Tata Institute of Fundamental Research, Centre for Applicable Mathematics, Post Bag No. 6503, Sharada Nagar, Yelahanka New Town, Bengaluru 560065*; A 601, Nagarjuna Aster Park, Yelahanka New Town, Near Mother Dairy, Bengaluru [Tel (080) 6695-3744 (O), 4958-7955 (R), 98-456-50941 (M); Fax 6695-3799; Email sandeep@math.tifrbng.res.in]; **Medal:** INSA Young Scientist (2005); **SC: I.**



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, 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 and SERB Distinguished Fellow, *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* (2014-18); **SC: VIII.**



1992: LAKSHMANAN, Muthusamy (b 1946), PhD, DSc (bc), 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, Nathalal Parekh Marg, Matunga, Mumbai 400019*; 501-Palms, 2-2-20/B/8, D.D. Colony, Baghambherpeta, Hyderabad 500013 [Tel (022) 3361-2015 (O), 97-691-01554 (M); Fax 3361-1020; Email lk.mannepalli@ictmumbai.edu.in, lkmanepalli3@gmail.com]; **Lecture:** Professor Darshan Ranganathan Memorial (2016); **Council:** Mem 2020-; **SC: III.**

2013: LAL, Rup (b 1953), PhD, Sp: Microbial Diversity, Genomics and Metagenomics; FNASc, FNAAS, NASI Senior Scientist Platinum Jubilee Fellow, *The Energy and Resources Institute (TERI), Darbari Seth Block, IHC Complex, Lodhi Road, New Delhi 110003* [Tel 98-107-85766 (M); Email ruplal@gmail.com; Web <http://ruplal.in/>]; **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, INSA Senior Scientist, Department of Botany, Lucknow University, Lucknow 226007; formerly Chief Scientist & AcSIR Professor & Head, Division of Genetics & Plant Breeding, CSIR-CIMAP, Lucknow; 4/221, *Vivek Khand, Gomti Nagar, Lucknow 226010* [Tel (0522) 359-6674 (R), 94-155-16561 (M); Email lavaniauc@yahoo.co.in, lavaniauc@gmail.com]; **Medal:** INSA Young Scientist (1984); **SC: VII.**



2021: LAXMI, Ashvarya (b 1974), PhD, Sp: Plant Physiology and Molecular Biology; FNASc, Staff Scientist V, Lab-203, *National Institute of Plant Genome Research, Aruna Asaf Ali Marg, New Delhi 110067*; House No. 4, Type IV, National Institute of Plant Genome Research, Aruna Asaf Ali Marg, New Delhi 110067 [Tel (011) 26735180 (O), 98-917-82198 (M); Fax 26741658; Email ashvarya_laxmi@nipgr.ac.in]; **SC: VII.**



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, *Mahatma Housing Society, Kothrud, Pune 411038* [Tel (020) 2536-0906 (R), 97-664-33322 (M); Email drslele@gmail.com]; **Medal:** Professor Brahm Prakash Memorial (2010); **Council:** Mem May-Dec 1992, 1999-01; **SC: V.**



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



2004: MADAN, Mohan (b 1953), PhD, Sp: Agricultural Biotechnology; FNAAS, Advocate, Supreme Court and High Court of Delhi; 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 mohanm98@hotmail.com]; **SC: XII.**





2011: MADHUBALA, Rentala (b 1952), PhD, Sp: Molecular Parasitology, Functional Genomics; FASc, FNASc, FTWAS, AS Paintal Distinguished Scientist Chair of ICMR, *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@outlook.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 94-808-36199 (O), (080) 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.iisc.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 (2005-09), 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, Jehangir 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.**



2021: MAHAPATRA, Souvik (b 1970), PhAD, Sp: Microelectronics and VLSI, Nanoelectronics; FASc, FIEEE, FNAE, Professor, *Department of Electrical Engineering, Indian Institute of Technology Bombay, Mumbai 400076*; B208, Building B23, IIT Bombay, Mumbai 400076 [Tel (022) 2572-0408, 98-190-17412 (M); Fax 25723707; Email souvik@ee.iitb.ac.in]; **SC: V.**



1995: MAHARANA, Jnanadeva (b 1945), PhD, Sp: String Theory & Quantum Gravity; FASc, INSA Honorary 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); INSA Senior Scientist (2016-18); **SC: II.**



2016: MAITI, Kalobaran (b 1967), PhD, Sp: Condensed Matter Physics; FASc, FNASc, Professor and Dean, *Natural Science Faculty, Tata Institute of Fundamental Research, Homi Bhabha Road, Colaba, Mumbai 400005*; 703 Meghnad, TIFR Housing Complex, Homi Bhabha Road, Colaba, Mumbai 400005 [Tel (022) 2278-2302 (O), 98-921-06060 (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, *C.SIR-Institute of Genomics and Integrative Biology, Sukhdev Vihar, Mathura Road, New Delhi 110025*; Adjunct Professor, Indian Institute of Science Education and Research Mohali, Knowledge City, Sector 81, Manauli, PO, Sahibzada Ajit Singh Nagar, Punjab 140306; 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; Diaganitika 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, National Science Chair, Distinguished Professor and Founder, *National Institute of Biomedical Genomics, P.O. Netaji Subhas Sanatorium, Kalyani 741251*; President, *Indian Academy of Sciences, Bengaluru 560080*; 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, Hydrogels Conducting Polymers, Microfluids, Biofuel Cells, Sensors, Biosensors and Biomolecular Electronics; FNASc, SERB Distinguished Fellow, *Delhi Technological University, Main Banara Road, Delhi 110042*; Flat No 4-C, Pocket GG-2, Durgyana Apartments, Vikas Puri, New Delhi 110018 [Tel (011) 4288-0619 (R), 99-683-75812 (M); Email bansi.malhotra@gmail.com]; **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.



2020: MALHOTRA, Pawan (b 1960), PhD, Sp: Parasitology and Protein Biochemistry; FNASc, FASc, Group Leader, *Malaria Biology Group, International Centre for Genetic Engineering and Biotechnology (ICGEB), Aruna Asaf Ali Marg, New Delhi 110067*; I-133 Kirti Nagar, New Delhi 110015 [Tel (011) 2674-1358 (O), 2511-0774, 4560-6313 (R), 98-107-79378 (M); Fax 2674-2316; Email pawanmal@gmail.com, pawanm@icgeb.res.in]; **SC:** IX.



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; FNASc, 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); Email nm@agfe.iitkgp.ac.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 70-037-15838 (R); Email 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, SERB-Distinguished Fellow, 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, Gravitational Physics and Non-equilibrium Phenomena; 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.**

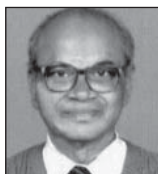




2019: MANDAL, Mahitosh (*b* 1963), PhD, Sp: Cancer Biology; FASc, FNASc, JC Bose National Fellow, Professor, *School of Medical Science and Technology, Indian Institute of Technology Kharagpur, Kharagpur 721302*; B-132, IIT Campus, Kharagpur 721302 [Tel (03222) 283-578 (O), 283-579 (R), 94-348-96984 (M); Fax 282-221; Email mahitosh@smst.iitkgp.ac.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), 98-754-43433 (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 94-775-85894 (M); Email mandalnc2003@yahoo.com]; **SC: X.**



2010: MANDE, Shekhar Chintamani (*b* 1962), PhD, Sp: Biophysics; FASc, FNASc, Secretary to the GOI, *Department of Scientific and Industrial Research (DSIR) and Director General, Council of Scientific and Industrial Research (CSIR), Anusandhan Bhawan, 2, Rafi Marg, New Delhi 110001* [Tel (011) 2371-0472, 2371-7053 (O); Fax 2371-0618; Email secy-dsir@gov.in, dgcsir@csir.res.in, dg@csir.res.in; Web <http://www.csir.res.in>]; **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.**



2005: MARIMUTHU, Ganapathy (*b* 1954), PhD, DSc, Sp: Animal Behaviour and Chronobiology; FASc, FNASc, 2/201, Rajambadi, Palkalai Nagar, Madurai 625021 [Tel (0452) 245-8658 (R), 97-916-96463 (M); Email mailboxgm@gmail.com, mailbox_gm@rediffmail.com]; **Medal:** Chandrakala Hora Memorial (2010); INSA Senior Scientist (2014-19); **Council:** Mem 2010-12; **SC: VIII.**



1984: MASHELKAR, Raghunath Anant (*b* 1943), PhD, DSc (*hc*), Sp: Polymer Science and Engineering; FASc, FNASc, FNAE, FTWAS, FRS, Foreign Assoc US NAS, Foreign Assoc US Nat Acad Engg, Foreign Mem Royal Acad Engg, Assoc Foreign Mem, American Academy of Arts & Sciences, 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), INSA Medal for Promotion & Service to Science (2020); **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 Shanthy, 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 Shanthy, 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 Sahni 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, Molecular and Optical Sciences, Biological Physics; FASc, FTWAS, formerly Distinguished Professor and JC Bose National Fellow, TIFR and Founding Director, UM-DAE Centre for Excellence in Basic Science; *c/o B-310, IIT Bombay, Powai, Mumbai 400076* [Tel 98-691-15322 (R); Email atmol1@gmail.com]; **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, Puducherry; *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 (*bc*), Hungarian Academy of Sciences, ICMR Emeritus Scientist and Dr C.G. Pandit National Chair, Former Dean (Research) & Founder Head, Department of Transplant Immunology & Immunogenetics, AIIMS, New Delhi; *A563E, Sushant Lok I, Block A, Gurugram 122001* [Tel (0124) 408-8428 (R), 98-990-87445, 98-999-69390 (M); Email narin.mehra@gmail.com, narin98@hotmail.com]; **Medal:** SS Bhatnagar (1992); **SC: XI.**



1983: MEHTA, Goverdhan (b 1943), PhD, DSc (*bc*), 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.**



2020: MEHTA, Neelesh Bhogil (b 1975), PhD, Sp: Wireless Communications; FNASc, FNAE, FIEEE, Professor, *Department of Electrical Communication Engineering, Indian Institute of Science, Bengaluru 560012; NE202, New Housing Colony, Indian Institute of Science, Bengaluru 560012* [Tel 2360-9469 (O), 99-725-92147 (M); Fax 2360-0563; Email neeleshbmehta@gmail.com, nbmehta@iisc.ac.in]; **SC: V.**



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.**



2021: MINWALLA, Shiraz Naval (b 1972), PhD, Sp: Theoretical Physics (Gravity, Quantum Field Theory, String Theory); FASc, FTWAS, Senior Professor (I), *The Department of Theoretical Physics, Tata Institute of Fundamental Research, 1 Homi Bhabha Road, Mumbai 400005; 4 Sargent House, J.A. Allana Marg, Mumbai 400001* [Tel (022) 2278-2212, 98-925-22213 (M); Fax 2280-4555; Email shiraz.minwalla@gmail.com]; **SC: II.**



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.**

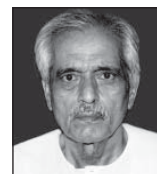
2006: MISHRA, Gyan Chandra (b 1947), PhD, Sp: Immunology; NASI-Platinum Jubilee Chair Distinguished Professor, *National Centre for Cell Science, NCCS Complex, Pune University Campus, Ganeshkhind, Pune 411007* [Tel (020) 2570-8283 (O), 94-225-22705 (M); Fax 2569-7756; Email gcmishra@nccs.res.in; Web <http://www.web.nccs.res.in>]; **Council:** Ad Mem 2019-20; **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>]; **Lecture:** Professor Har Swarup Memorial (2020); **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 2018-20; **SC: I.**



015: 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 anmitraph@gmail.com, 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, Director, *Centre for DNA Fingerprinting and Diagnostics, Inner Ring Road, Uppal, Hyderabad 500039* [Tel (040) 2721-6003 (O), 98-230-59841 (M); Fax 2721-6006; Email dmitra@cdfd.org.in, director@cdfd.org.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* [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: Machine Learning, Data Science, Deep Learning, Medical Imaging, Bioinformatics; 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, Distinguished Professor & Chairman, Academic Board, UM-DAE, Centre for Excellence in Basic Sciences, University of Mumbai, Kalina Campus, Mumbai 400 098; formerly 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; Honorary Distinguished Professor, IIT Bombay and Honorary Distinguished Professor, National Center for Free Radical Research, University of Pune, Pune; *11-B, Robini Coop. Hsg Society, Sector 9-A, Vashi, Navi Mumbai 400703* [Tel (022) 2559-5245 (D), 2559-5246 (O), 2766-4822, 2766-1035 (R), 98-699-92912 (M); 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); INSA Senior Scientist (2016-18); **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 6, Arch Bishop Mathias Avenue, Raja Annamalaipuram, Chennai 600028 [Tel (044) 4396-8888 (O); Fax 2835-0935; Email drmohans@diabetes.ind.in; Web www.drsmohans.com, www.mdrf.in]; **Medal:** Professor KP Bhargava Memorial (2020); **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) 2719-2543 (O), 2720-3931 (R); Fax 2716-0591; Email mohan@ccmb.res.in; Web <http://e-portal.ccmb.res.in/e-space/mohan/index.html>]; **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 (0674) 713-5524 (O), 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]; **Award:** Professor LSS Kumar Memorial (1994); **Medal:** INSA Young Scientist (1994); **SC: XII.**

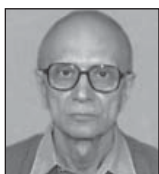




2003: MONDAL, Naba Kumar (b 1951), PhD, Sp: Experimental Particle Physics, Accelerator Based and Non-Accelerator Based Particle Physics and Neutrino Physics; FASc, FNASc, FTWAS, DAE Raja Ramanna Fellow, *Applied Nuclear Physics Division, Saha Institute of Nuclear Physics, Kolkata 700064*; NRE 292, New 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, Director, *Indian Institute of Science Education and Research Thiruvananthapuram, Vithura, Thiruvananthapuram 695551*; 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 (0471) 277-8090 (O), 94-503-43016 (M); Email moorthy@iitk.ac.in; Web <http://www.iisertvm.ac.in/pages/director/>]; **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*; P-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 mughesh@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/~pradeep/>]; **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.**



1991: MUKHERJEE, Debashis (b 1946), PhD, DSc (hb), Sp: Theoretical Chemistry, Theoretical Spectroscopy; FASc, FNASc, FTWAS, SN Bose Chair Professor, SN Bose National Centre for Basic Sciences, JD Block, Sector III, Salt Lake City, Kolkata 700106; Formerly Emeritus Professor, SERB Distinguished Fellow and Director, Indian Association for the Cultivation of Science, Kolkata; *Flat 301, Meghdoot Apartments, 24 A, Central Road, Kolkata 700032* [Tel 93-310-19518 (M); Email pcdemu@gmail.com]; **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 sunilmukherjeeudsc@gmail.com]; **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, Professor, *Kusuma School of Biological Sciences, Indian Institute of Technology Delhi, Hauz Khas, New Delhi 110016* [Tel (011) 2659-1106 (O), 2674-1164 (R), 98-108-87164 (M); Fax 2671-7104; Email amitabha@bioschool.iitd.ac.in]; **SC: X.**



2021: MUKHOPADHYAY, Arnab (b 1972), Ph.D, Sp: Molecular Genetics of Aging; FNASc, Staff Scientist VI, *Molecular Aging Laboratory, National Institute of Immunology, Aruna Asaf Ali Marg, New Delhi 110067*; A3, National Institute of Immunology, Aruna Asaf Ali Marg, New Delhi 110067 [Tel (011) 26703885 (O), 26715035 (O), 98-712-29286 (M); Email arnab@nii.ac.in]; **SC: VII.**



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 98-302-72581, 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 VII, *Centre for DNA Fingerprinting and Diagnostics, Inner Ring Road, Uppal, Hyderabad 500039*; C2-206, Indu Aranya Pallavi, Bandlaguda, Hyderabad 522660 [Tel (040) 2721-6136 (O), 2988-6994 (R), 94-907-51094 (M); Fax 2721-6006; Email sangita@cdfd.org.in]; **SC: IX.**



1980: MUKUNDA, Narasimhaiengar (b 1939), PhD, Sp: Mechanics, Optics, Mathematical Physics; FASc, FNASc, FTWAS, 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, CSIR Bhatnagar Fellow & 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 kmabc@iisc.ac.in, kmabc@rediffmail.com]; **Medal:** JC Bose (2019); **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 Honorary 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](mailto:munj@iisc.ac.in); Web <http://www.mecheng.iisc.ac.in/~frita/>]; **Medal:** INSA Young Scientist (1975); **Lecture:** Dr GP Chatterjee Memorial (2006); INSA Senior Scientist (2017-19); **Council:** Mem 2001-03, VP 2011-13; **SC: V.**



2020: MUNSHI, Ritabrata (*b* 1976), PhD, Sp: Number Theory; FASc, Professor, *Indian Statistical Institute, 203 B.T. Road, Kolkata 700108*; 10E R1, Sunrise Symphony, AA2B New Town, Kolkata 700157 [Tel (033) 2575-3419 (O), 2332-2527 (R), 90-040-55057 (M); Fax 2577-3071; Email ritabratamunshi@gmail.com]; **SC: I.**



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 JC Bose National Fellow & Honorary Professor, South Asian University, New Delhi; formerly Professor & HOD, Zoology, University of 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 Ramabhadrastry Narasimha (*b* 1950), PhD, Sp: X-ray Diffraction, Macromolecular Crystallography, Protein Structure and Function, Virus Structure and Assembly; FASc, FAAS, FTWAS, Astra-Zeneca Distinguished Professor, Institute of Bioinformatics and Structural Biology, Bengaluru; Visiting Professor, Indian Institute of Science Education and Research, Thiruvananthapuram; 531, Beladingalu, 14th Main Gokul, I Stage, I Phase, Bengaluru 560054 [Tel (080) 2293-3219 (O), 99-003-13742 (M); Fax 2360-0535; Email mrn@mbu.ac.in, mburn@mbu.ac.in]; **Medal:** Professor GN Ramachandran 60th Birthday Commemoration (2003); INSA Senior Scientist (2016-19); **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, muuruks@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, Mangireesh, M M Chotani Road, Mahim, Mumbai 400016* [Tel (022) 2652-8871 (O), 2444-1093 (R); Email mgnadkarni@gmail.com]; **Medal:** PC Mahalanobis (2014); INSA Senior Scientist (2003-07); **Council:** Mem 1997-99; **SC: I.**



1990: NAG, Kamalaksha (b 1942), PhD, 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, ickn@iacs.res.in, kniacs@yahoo.com]; 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.**

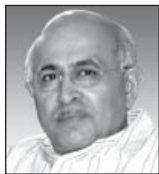


2017: NAGARAJ, Donihakalu Shankar (b 1958), PhD, Sp: Algebraic Geometry; FASc, FNASc, Professor, *Indian Institute of Science Education and Research Tirupati, Karakambadi Road, Rami Reddy Nagar, Mangalam (P.O.), Andhra Pradesh 517507*; J-3, Shivani, Block II, 40, East Coast Road, Thiruvanniyur, Chennai 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 nrajccmb@gmail.com; Web <http://www.ccmb.res.in>]; **Medal:** INSA Young Scientist (1981); **Lecture:** Dr Nitya Anand Endowment (1997); **SC: X.**





2004: NAGARAJA, Valakunja (b 1954), PhD, Sp: Molecular Biology of Mycobacteria, Regulation of Gene Expression and Protein-DNA Interactions; Professor, *Department of Microbiology and Cell Biology, Indian Institute of Science, Bengaluru 560012*; 'Sumeru' No. 19, RMV Enclave, NTI Layout, Adj. Dollar Colony, RMV Extn II Stage, Bengaluru 560094 [Tel (080) 2360-0668, 2293-2598 (O), 2341-8256 (R); Fax 2360-2697; Email vraj@iisc.ac.in]; **Medal:** JC Bose (2010); **Lecture:** Dr Nitya Anand Endowment (2009); **SC: X.**



1977: NAGARAJAN, Kuppaswamy (b 1930), PhD, Sp: Natural Products Chemistry, Medicinal and Pesticide Chemistry; FASc, Corporate Adviser-R&D, *Hikal Ltd., 3rd Floor, Grey Rock, No. 10, 24th Main, J.P. Nagar, 2nd Phase, Bengaluru 560078*; formerly Director, R&D, Recon Ltd, Bengaluru, Director, Searle R&D, Mumbai 400705 and Head of Medicinal Chemistry, Ciba-Geigy Research Centre, Mumbai 400063; Block 1, Flat 007, Serene Urbana, Kannamangala, Bangalore Rural, Karnataka 562110 [Tel (080) 6735-6112 Ext 9212, (O), 2972-8227 (R), 98-867-13958 (M); Email n_kuppaswamy@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, Off- Gaikwad Road, (Near Jain Temple, opp. Tambe Nagar), Mulund (W), Mumbai 400080* [Tel 93-223-70689 (M); Email nagian2006@gmail.com]; **Lecture:** INSA Prize for Materials Science (2003); **SC: II.**



2021: NAGARAJU, Ganesh (b 1973), PhD, Sp: DNA Damage Responses, Cell Biology and Cancer Biology; FNASc, Professor, *Department of Biochemistry, Indian Institute of Science, Bengaluru 560012*; HE-122, Indian Institute of Science, Bengaluru 560 012 [Tel (080) 22933055 (O), 97-318-81206 (M); Email nganesh@iisc.ac.in]; **SC: VIII.**



2003: NAIR, Gopinath Balakrish (b 1954), PhD, Sp: Medical and Molecular Microbiology; FASc, FNASc, FTWAS, Foreign Assoc US NAS, Fellow, American Academy of Microbiology, Honorary Distinguished Professor, Microbiome Laboratory, Rajiv Gandhi Centre for Biotechnology, Poojappura, Thycaud PO, Thiruvananthapuram 695014; *3E SFS Palace Court, T.C. 5/2380 (22), Pipe Lane Road, Kondiar, Thiruvananthapuram 695003* [Tel (0471) 243-3857 (R), 99-998-29379 (M); Email gbnair_2000@yahoo.com, gbnair@rgcb.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.**

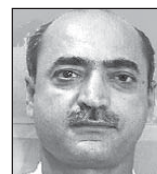
2009: NANGIA, Ashwini (*b* 1960), PhD, Sp: Organic Chemistry, Crystal Engineering, Pharmaceutical Cocrystals; Senior Professor, School of Chemistry, University of Hyderabad, Hyderabad 500046 [Tel (040) 2313-4800 (O), 98-481-55416, 91-722-06021 (M); Email ashwini.nangia@gmail.com]; **Medal:** Golden Jubilee 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 vidyan@alumni.iisc.ac.in]; **SC: VIII.**



2001: NAQVI, Syed Wajih Ahmad (*b* 1954), PhD, Sp: Aquatic Biogeochemistry, Chemical Oceanography and Paleooceanography; FASc, FNASc, FTWAS, Geochemistry Fellow, Distinguished Scientist, Council of Scientific & Industrial Research, 2, Rafi Marg, New Delhi 110001; *C-204, Sunrise Greens, Indirapuram, Ghaziabad 201014* [Tel (011) 2347-0222 (O), (0120) 355-7175 (R), 96-433-14093 (M); Email naqvi@nio.org; Web <http://www.nio.org>]; **Lecture:** SK Mitra Memorial (2015); **Council:** Mem 2020-; **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.**



2021: NARAIN, Sunita (*b* 1961), DSc (Hon), Sp: Environment, Sustainable development, Public Policy, Science Outreach; Director General, *Centre for Science and Environment, 41 Tughlakabad Institutional Area, New Delhi 110062*; A17, Green Park (Main), New Delhi 110017 [Tel (011) 2995-5778 (O), 98-100-64207 (M); Email sunita@cseindia.org]; **NC***.



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.**



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



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 2018-20; **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 IIInd 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, formerly Director Grade Scientist, NPL, New Delhi; *211-212 Peace Point Colony, Behind Queens College, Khandva 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/>]; **Lecture:** Professor S Swaminathan 60th Birthday Commemoration (2019); **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 97-171-04448 (M); 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.**

2020: NATH, Utpal (b 1965), PhD, Sp: Leaf Morphogenesis; FASc, FNASc, Associate Professor, *Department of Microbiology & Cell Biology, Indian Institute of Science, Bengaluru 560012*; B-305, Brigade Gateway, 26/1 Dr. Rajkumar Road, Malleswaram West, Bengaluru 560055 [Tel (080) 2293-2414 (O), 4114-8064 (R), 94-489-70438 (M); Fax 2360-2697; Email utpalnath@iisc.ac.in]; **SC: VII.**



2014: NAUTIYAL, Chandra Shekhar (b 1956), PhD, Sp: Plant-Microbe Interactions & Soil Microbiology; FNASc, FNAAS, JC Bose National Fellow, *Vice-Chancellor, Doon University, Motbrnvala 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 nautiyalnabri@lycos.com, csnnbri@yahoo.com]; **SC: XII.**



1988: NAYAK, Nabeen Chandra (b 1931), MD, Sp: Pathology, Liver Diseases & Cancer; FASc, FAMS, FRCPath, Senior Consultant and Head, *Department of Histopathology & Chairman, Research Committee, Sir Ganga Ram Hospital, Rajinder Nagar, New Delhi 110060*; Emeritus Professor of Pathology, AIIMS, New Delhi; formerly Head, Department of Pathology and Chief of Cancer Hospital, AIIMS, New Delhi; 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.**



2021: NAYAK, Shailesh (b 1953), PhD, Sp: Earth Sciences; FASc, FNASc, Director, *National Institute of Advanced Studies, Indian Institute of Science Campus, Bengaluru 560012*; 304, Purva Atria Platina, 3rd Main, 4th Cross, RMV Stage II, Bengaluru 560094 [Tel (080) 2360-1969, 2218-5076 (O), 98-682-62969 (M); Email shailesh@nias.res.in, shaileshnayak@hotmail.com]; **NC***.



2021: NITSURE, Nitin (b 1957), PhD, Sp: Mathematics; FASc, Former Professor, School of Mathematics, Tata Institute of Fundamental Research, Homi Bhabha Road, Colaba, Mumbai 400005; *C-1811 Maple Leaf, Raheja Vihar, 119F/1A Tunga Village, Powai, Mumbai 400072*; [Tel 9869020788 (M); Email: nitsure@gmail.com]; Medal: INSA Young Scientist (1989); **SC: I.**



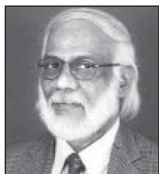
1998: NITYANANDA, Rajaram (b 1948), PhD, Sp: Optics, Statistical Physics, Gravitational Dynamics; FASc, FNASc, Former Professor, Azim Premji University, Bengaluru; *B-701, Mahaveer Riviera, Silver Oak Layout, 24 Main, Bengaluru 560078* [Tel 96-117-89391 (M); Email rajaram.nityananda@gmail.com, rajaram.nityananda@apu.edu.in]; **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.**



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



1985: PADMANABAN, Govindarajan (*b* 1938), PhD, DSc (*bc*), 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.**



2020: PADMANABHAN, Janardhan (*b* 1960), PhD, Sp: Solarwind, Space Weather, Solar Radio Studies, Solar Magnetic Fields, Comets; Senior Professor (H) and Dean (Retd.), Physical Research Laboratory, Navrangpura, Ahmedabad 380009; *E-5 PRL Residences, Vikramnagar, Ambli-Bopal Road, Ahmedabad 380058* [Tel (079) 2686-0261 (R), 94-282-46845 (M); Email jerry@prl.res.in, janardhan.padmanabhan@gmail.com]; **SC: IV.**



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.**



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?pid=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, Machine Learning, and Artificial Intelligence; FNASc, FNAE, FTWAS, 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, Data Science and Deep Learning; FNASc, FASc, FNAE, FTWAS, FIEEE, National Science Chair (SERB-DST), Emeritus Professor, formerly Distinguished Scientist and Director, *Indian Statistical Institute, 203, BT Road, Kolkata 700108*, formerly DAE Raja Ramanna Fellow, JC Bose National Fellow, INAE Chair Professor; 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); INSA Distinguished Professor (2018-20); **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 2018-20; **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, Emeritus 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) 2578-4128 (R), 99-691-49589 (M); Email palitdk@gmail.com, dkpalit@cbs.ac.in]; **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 lm spalni@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 Virology of Hepatitis Viruses; FASc, FAMS, *E-64, Sector Beta-1, Greater Noida, Gautam Budh Nagar, Uttar Pradesh 201310* [Tel 98-104-77853, 99-681-73829 (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, *National Institute of Science Education and Research, Post. Jatni, Khurdha 752050, Odisha* [Tel (0674) 249-4002 (O), 249-4500 (R), 94-375-59215 (M); Email director@niser.ac.in, panda@niser.ac.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, Distinguished Professor, *Department of Chemistry, Institute of Science, Banaras Hindu University, Varanasi 221005*; A-198, Omaex City, Amar Shahid Path, Raebareli Road, Lucknow 226025 [Tel (0522) 434-9432 (R), 99-701-71802 (M); Email ganesh.pandey1@bhu.ac.in, gp8577@gmail.com; Web <http://www.bhu.ac.in/science/chemistry/>]; **Medal:** Professor TR Seshadri 70th Birthday Commemoration (2003); **Lecture:** Professor S Swaminathan 60th Birthday Commemoration (2013); **Council:** Ad Mem 2009, 2013, Mem 2017-19; **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, Vice Chancellor and 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, dr.pandit@gmail.com, nanapandit@yahoo.co.uk]; **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 110007; *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.**



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@iiser-mohali.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; President, Indian Science Congress (2000-2001); President, NAAS; Founder Chairman, GFAR [Telefax (011) 2584-3243 (O), (0124) 257-7486 (R), 98-101-91486 (M); 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, Condensed Matter Physics, Materials Science, Environmental Science; FRSC, INSA Senior Scientist, Adjunct Professor, School of Natural and Engineering Sciences, National Institute of Advanced Studies, Indian Institute of Science Campus, Bengaluru 560012; "*Anannyyaa*", T-121, 35th Cross, 14th Main, 4th T Block, Jayanagar, Bengaluru 560041 [Tel (080) 2218-5112 (O) 96-061-21365, 78-936-15248 (M); Email partha.nias@gmail.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 Sansanval 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, TIFR, Mumbai; *Villa B-75, Nananani Homes Phase 3, Kulathupalayam Dhaliyur Road, Coimbatore 641109* [Tel 95-002-33213 (M); Email sarathy.math.tifr@gmail.com]; 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) 2224-3130 (R); Email pacha14@yahoo.com]; **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; 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 Institute of Abiotic Stress Management, Baramati, Pune, Maharashtra 413115*; Director's Residence, NIASM, Baramati, Pune, Maharashtra 413115 [Tel (02112) 254-055 (O), 98-992-47590 (M); Email hpatak.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@jncasr.ac.in; Web www.jncasr.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, 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; Web www.lmpatnaik.in]; INSA Senior Scientist (2015-19); **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, CSIR-Distinguished Scientist, *Centre for Genetic Manipulation of Crop Plants, University of Delhi, South Campus, New Delhi 110021*; 4215, Pocket B 5/6, Vasant Kunj, New Delhi 110070 [Tel (011) 2411-2609, 2411-5203 (O), 98-108-43421 (M); Email dpental@gmail.com]; **Visiting Fellowship:** JI 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 mpsec@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, Murugeshpalya, 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, Former 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@gmail.com]; **SC: XI.**

2018: PILLAI, Vijayamohanam Kunjukrishna (*b* 1960), PhD, Sp: Electrochemistry, Materials Chemistry; FASc, Professor, *Indian Institute of Science Education and Research Tirupati, C/o Sree Rama Engineering College (Transit Campus), Rami Reddy Nagar, Karakambadi Road, Mangalam P.O. Tirupati 517507*; BRERA-48, Sowbhagya Lane, Burmah Road, Kumarapuram, Thiruvananthapuram 695011 [Tel 94-422-26929 (M); Email vijay@iisertirupati.ac.in, k.vijayamohanam@gmail.com]; **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, FTWAS, FAAAS, Institute Professor and Deepak Parekh Institute Chair Professor, *Department of Chemistry, Indian Institute of Technology Madras, Chennai 600036*; Flat No. 7D, ASV Jayantika, #164, Velachery Main Road, Chennai 600042 [Tel (044) 2257-4208 (O), 4201-4246 (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.**

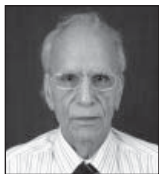


2015: PRADIP (*b* 1956), PhD, Sp: Materials Science and Mineral Engineering, Particle Science and Technology; FNAE, Foreign Fellow, NAE (USA), formerly Vice-President, Tata Consultancy Services (TCS), Chief Scientist and Head, Process Engineering Innovation Lab, Tata Research Development & Design Centre (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, Professor Emeritus, Indian Statistical Institute and 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; *Satya Prakash Care of Pankaj Prakash, 28, Pannalal Road, Prayagraj, Allahabad 211002* [Tel (+1) 898-059-9794; Email sprakash_prl@yahoo.com]; **SC: II.**



2003: PRASAD, Dipendra (*b* 1960), PhD (Harvard), Sp: Automorphic Form, Number Theory; FASc, FNASc; Professor, *Department of Mathematics, Indian Institute of Technology Bombay, Powai, Mumbai, 400076*; 220 Aravalli, Indian Institute of Technology Bombay, Mumbai 400076 [Tel (022) 2576-7477 (O), 2576-8477 (R), 99-309-88824 (M); Email 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-I/8, Type V Quarters, University of Delhi, Maurice Nagar, Delhi 110007 [Tel (011) 2766-7073 (O), 2766-2568 (R), 98-682-07140 (M); Email guntupalli.vrprasad@gmail.com, pguntupalli@rediffmail.com]; **Council: Mem 2018-20; SC: IV.**



2017: PRASAD, Manoj (*b* 1970), PhD, Sp: Plant Genetics & Genomics, Stress Biology; FNAAS, FNASc, Staff Scientist VII (Professor) & JC Bose National Fellow, *National Institute of Plant Genome Research (NIPGR), Aruna Asaf Ali Marg, JNU Campus, New Delhi 110067*; House No. H-VB-D1-003, NIPGR, Aruna Asaf Ali Marg, JNU Campus, New Delhi 110067 [Tel (011) 2673-5160 (O), 2673-5147 (R), 88-001-84445, 98-683-16379 (M); Fax 2674-1658; Email manoj_prasad@nipgr.ac.in, prasadmanoj1970@gmail.com; Web http://nipgr.ac.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.**





2021: PUCADYIL, Thomas (b 1976), PhD, Sp: Biochemistry/Cell Biology; *Indian Institute of Science Education and Research (IISER), Dr. Homi Bhabha Road, Pashan, Pune 411008, Maharashtra; A603, IISER Pune Housing Block, Dr. Homi Bhabha Road, Pashan, Pune 411008, Maharashtra* [Tel (020) 25908204 (O), 78-756-24566 (M); Email pucadyil@iiserpune.ac.in]; **SC: VII.**



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); Editor-in-Chief, *Proceedings of the Indian National Science Academy*; **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 94-120-58572 (M); Email adityapurohit19@gmail.com]; **Council:** Mem 2000-02; **SC: XII.**



2014: QADRI, Ayub (b 1960), PhD, Sp: Immunology; Staff Scientist VII, *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, Senior Professor (I), *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 (O), 2280-4647, 2278-3311 (R), 90-046-80293 (M); Fax 2280-4555; 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.**



2021: RAGHAVA, Gajendra Pal Singh (b 1963), PhD, Sp: Bioinformatics; Professor, *Center for Computational Biology, Indraprastha Institute of Information Technology (IIIT), Okhla Phase III, New Delhi 110020; 103 Faculty Residence, Indraprastha Institute of Information Technology (IIIT), Okhla Phase III, New Delhi 110020* [Tel (011) 26907444, 99-156-56900 (M); Fax 26907410; Email raghava@iiitd.ac.in]; **SC: VIII.**

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), 4851-4460 (R), 98-491-07190 (M); 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 madabusisr@gmail.com]; **Professorship:** INSA-SN Bose Research Professor (1994-96); **Medal:** Srinivasa Ramanujan (1991); Aryabhata (2006); **Council:** Mem 1984-86; **SC: I.**



2021: RAGHUNATHAN, Velayudhan Anandavally (b 1960), PhD, Sp: Soft Condensed Matter Physics; FASc, INSA Senior Scientist, *Raman Research Institute, CV Raman Avenue, Sadashivanagar, Bengaluru 560080*; 42/2, 2nd Main Road, Jayanagar 8th Block, Bengaluru 560070 [Tel 94-808-36154 (O), 94-498-28940 (M); Fax (080) 2361-10492; Email varaghu@rri.res.in]; **SC: II.**



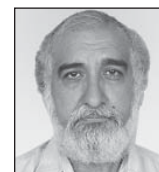
2010: RAI, Lal Chand (b 1950), PhD, Sp: Algology, Environmental & Agricultural Microbiology, Molecular Biology; FNASc, FNAAS, Distinguished Professor (Lifelong) & NASI Senior Scientist, formerly JC Bose National Fellow, DAE Raja Ramanna Fellow, formerly Head & Coordinator, *Centre of Advanced Study in Botany, 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, JC Bose National Fellow & Professor Emeritus, *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]; **Medal:** Professor K Naha Memorial (2019); **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) 2670-4417/4416 (O), 2674-2825 (R), 99-105-62068 (M); Fax 2670-4192, 2671-7580; Email d_raina@yahoo.com, dhruv@mail.jnu.ac.in]; **NC***.



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



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 and UGC BSR Faculty Fellow, 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 110077* [Tel (011) 2411-2503 (O), 2507-5497 (R), 98-181-08515 (M); Fax 2411-2761; 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, Jalaballi, 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; 901 Bhaskara, TIFR Colony, Homi Bhabha Road, Mumbai 400005* [Tel (022) 2278-2665 (O), 2280-4643 (R), 98-690-63353 (M); Fax 2280-4610; Email rajan@math.tifr.res.in]; **SC: I.**



1985: 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*; *Chennai Mathematical Institute, Siruseri, Chennai 693103*; 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.



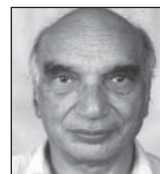
2012: RAJASEKHARAN, Ram (b 1960), PhD, Sp: Plant Lipid Metabolism; FASc, FNAsc, FNAAS, #2/10 NMS Nagar, *Chichiluppai (B.O.), Alathur Village, Oomachikulam, Madurai, Tamil Nadu 625014* [Tel 94-835-21260 (M); Email lipidindia@yahoo.com]; **SC:** VII.



2017: RAJEEVAN, Madhavan Nair (b 1961), PhD, Sp: Atmospheric Science; FASc, FNAsc, Secretary to the Government of India, *Ministry of Earth Sciences, Prithvi 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", Na. 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, 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.**



2020: RAMAKRISHNAN, Uma (b 1972), PhD, Sp: Molecular Ecology, Population Genetics, Conservation Biology; Associate Professor, *Ecology and Evolution, National Centre for Biological Sciences, Tata Institute of Fundamental Research, Bengaluru 560065*; 104 Mallige, National Centre for Biological Sciences, GKVK Campus, Bellary Road, Bengaluru 560065 [Tel (080) 2366-6030 (O), 98-454-36445 (M); Fax 2363-6662; Email uramakri@ncbs.res.in]; **SC: VIII.**

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, 2019-20; **SC: VIII.**



2013: RAMAMURTHY, Thandavarayan (*b* 1953), PhD, Sp: Microbiology and Molecular Microbiology; FNAsc, INSA Senior Scientist, *ICMR-National Institute of Cholera and Enteric Diseases, P-33, CIT Road, Scheme-XM, Beliaghata, Kolkata 700010; A-13, Cluster IX, Purbhachal Housing Estate, Sector III, Salt Lake City, Kolkata 700097* [Tel 94-321-14945 (M); Email ramamurthy.t@icmr.gov.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 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, Distinguished Professor and INSA Senior Scientist, *Department of Zoology, Banaras Hindu University, Varanasi 221005; 8, Mahamana Puri, PO BHU, Varanasi 221005* [Tel (0542) 257-0967 (R), 93-361-52694 (M); Email rajiva.raman@gmail.com, raman@bhu.ac.in]; **Medal:** SL Hora (2005); **Visiting Fellowship:** J.L. 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, Professor of Eminence & DAE Raja Ramanna Fellow, (former Professor & 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.**



2005: RAMASESHA, Suryanarayana Sastry (*b* 1950), PhD, Sp: Theoretical Chemistry; FASc, FTWAS, Honorary Professor, *Solid State and Structural Chemistry Unit, Indian Institute of Science, Bengaluru 560012*; 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); INSA Senior Scientist (2017-19); **SC: III.**



2019: RAMASUBRAMANIAN, Krishnamurthi (*b* 1969), PhD, Sp: Non-linear Dynamics and Chaos, Indian Astronomy and Mathematics, Advaita Vedanta; Institute Chair 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), 2576-8368 (R); Email ram@hss.iitb.ac.in]; **NC***.



2008: RAMASWAMY, Ramakrishna (*b* 1953), PhD, Sp: Nonlinear Science, Computational Biology and Bioinformatics; FASc, FTWAS, Visiting Professor, *Department of Chemistry, Indian Institute of Technology Delhi, New Delhi 110016* [Tel (011) 2659-7969 (O), 78-930-93737 (M); Email ramaswamy@iitd.ac.in, r.ramaswamy@gmail.com; Web <http://ramramaswamy.org>]; **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; Web <http://www.physics.iisc.ac.in/~sriram/>]; **Lecture:** J.L. Nehru Birth Centenary (2020); **SC: II.**

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

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, Bernal Professor of Process Engineering, Bernal Institute, University of Limerick, Limerick, Ireland and 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, Vivek.Ranade@ul.ie]; **SC: V.**



2006: RANGANATH, Hassan Annegowda (*b* 1948), PhD, Sp: Zoology, Genetics and Evolution; FASc, FNASc, Visiting Professor, Centre for Human Genetics, Biotech Park, Electronic City Phase 1, Bengaluru 560100; Chairman, Board of Governors, IIT Kurnool; Distinguished Professor for Life, University of Mysore; formerly Director, National Assessment and Accreditation Council (NAAC); Vice Chancellor, Bangalore University; 308, Wise Residency, Near Chowdeshvaramma Temple/ Golden rays Apt, Devarachikkanahalli Main, Bommanahalli, Bengaluru 560076 [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 rangun@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 and Chair, Department of Biochemistry, Indian Institute of Science, Bengaluru 560012; 1214-17/53, 4th Main, E Block, Rajajinagar 2nd Stage, Bengaluru 560010 [Tel (080) 2293-2540 (O), 98-863-03700 (M); Email pnr@iisc.ac.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; Apt 241, Block B-2, Kendriya Vihar, New Airport Road, Yelahanka, Bengaluru 560064 [Tel (080) 2979-1511 (R); Email rlm68@yahoo.co.in]; **SC: VII.**





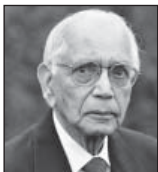
2008: RANU, Brindaban Chandra (*b* 1949), PhD, Sp: Organic Synthesis, Green Chemistry; FASc, INSA Honorary Scientist, *Department of Organic Chemistry, Indian Association for the Cultivation of Science, Jadavpur, Kolkata 700032*; E2, Basundhara, 19/922, Raja SC Mullick Road, Kolkata 700086 [Tel (033) 2473-4971 Ext 1404 (O), 2435-0097 (R), 94-330-53856 (M); Fax 2473-2805; Email ocbr@iacs.res.in, bcranu@gmail.com]; INSA Senior Scientist (2017-19); **SC: III.**



1999: RAO, Addicam Jagannadha (*b* 1942), PhD, Sp: Reproductive Biology; FASc, FNASc, FAMS, INSA Honorary 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); INSA Senior Scientist (2013-16, 2017-19), INSA Honorary Scientist (2016-17); **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), 90-045-88909 (M); Email bjrao@iisertirupati.ac.in, bjrao@tifr.res.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, Professor, *Department of Chemistry, Indian Institute of Technology Tirupati, Tirupati-Renigunta Road, Settippalli Post, Tirupati 517506*; formerly Institute Chair Professor, IIT Bombay [Tel (0877) 250-3036 (O), 99-690-22554 (M); Fax 250-3004; Email cprao@iittp.ac.in, cprao@iitb.ac.in, cpraouiitb@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 and Materials Chemistry; 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; 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, 1st Floor, 4th Cross, RM V Extension, Bengaluru 560080 [Tel (080) 2293-2538 (O), 2361-1677 (R); Fax 2360-0683; Email dnrao@iisc.ac.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, Nagasettihalli, 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, NASI-Senior Scientist, *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 and SERB-Year of Science Chair 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, *9, Sharada Colony, Basaveshwara Nagar, Bengaluru 560079* [Tel (080) 2348-6560 (R), 96-118-35935 (M); 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 Analyser (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 (*hc*), 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; formerly Professor (H), School of Mathematics, TIFR, Mumbai; *A-8, Goodwill Assurance Building, Manmala Tank Road, Mahim, Mumbai 400016* [Tel (022) 2430-9827 (R), 98-333-63678 (M); 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. 328, B-4, Kendriya Vihar, Yelahanka, Bengaluru 560064* [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 vprao55@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.**



2021: RAVIKANTH, Mangalampalli (b 1966), PhD, Sp: Inorganic Chemistry; FASc, FNASc, Professor, *Department of Chemistry, Indian Institute of Technology Bombay, Powai, Mumbai 400076*; Nilgiri Building (B-271), Indian Institute of Technology Bombay, Powai, Mumbai 400076 [Tel (022) 2576-7176 (O), 2576-8176 (R), 98-190-84270 (M); Fax 578-3480; Email ravikanth@chem.iitb.ac.in]; **SC: III.**



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.**





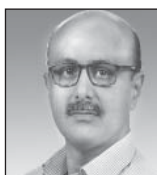
2019: RAVINDRAN, Vajravelu (b 1965), PhD, Sp: High Energy Physics; FASc, Professor H, *The Institute of Mathematical Sciences, CIT Campus, Taramani, Chennai 600113*; A5, Swarnamukhi Apartment, III Main Road, Adyar, Gandhi Nagar, Chennai 600020 [Tel (044) 2254-3208 (O), 95-001-40279 (M); Fax 2254-1586;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



2005: RAVINDRANATH, Vijayalakshmi (b 1953), PhD, Sp: Neuroscience; FASc, FNASc, FTWAS, FAMS, Director, *Centre for Brain Research* and Honorary Professor, *Centre for Neuroscience, Indian Institute of Science, Bengaluru 560012*; 301, Vaishnavi Springs, 49/5, Ranga Rao Road, Shankarapuram, Bengaluru 560004 [Tel (080) 2293-3640 (O), 2694-2958 (R); Fax 2360-7766; 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 (*hc*), 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, Sensors, Translational Research; FASc, FNASc, SERB Distinguished Fellow, *CSIR-Central Glass and Ceramic Research Institute, 196, Raja S.C.Mullick Road, Kolkata 700032*; formerly Professor, IISc and Director, NPL, New Delhi, and Director, SN Bose National Centre for Basic Sciences; SV-1, P-347 Lake Town, Block A, Kolkata 700089 [Tel (033) 2322-3314 (O); Fax 2473-0957; Email arupraychaudhuri4217@gmail.com]; **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 Chairman, URSI Committer on Developing Countries; 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 (b1931), 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.**



2021: REDDY, Manjula Nallamala (b 1965), PhD, Sp: Biological Sciences/ Microbial Biology; Scientist, S-106, CSIR-CCMB, Habsiguda, Hyderabad 500007; 1-2-99/E; St # 2, Habsiguda, Hyderabad 500007 [Tel (040) 27192514 (O), 98-667-06920 (M); Fax 27160310; Email manjula@ccmb.res.in, mreddy65@gmail.com]; **SC: VII.**



1993: REDDY, Vellenki Umapathi (b 1939), PhD, Sp: Signal Processing & Communications; FASc, FNAE, FIEEE, 37 Aparna Orchids, Near HITEX Ground, Izgat 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 500034 [Tel 98-665-90722 (M); Email vinodinireddy@hotmail.com]; **SC: XI.**



2008: RINDANI, Saurabh Dilsukhray (b 1952), PhD, Sp: Particle Physics; FASc, FNASc, INSA Senior Scientist, 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.**

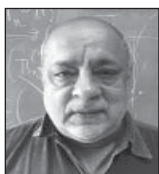




1990: ROY, Ashit Baran (b 1938), PhD, Sp: Precambrian Geology, Tectonics; FASC, FFAST, formerly Professor, Department of Geology, Mohanlal Sukhadia University, Udaipur; *Niloy Apartment, Flat 3/2G, 46A, R.N. Das Road, Kolkata 700031* [Tel (033) 2405-3671 (O), 94-330-87685 (M); Email ashitbaranroy@gmail.com]; 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, *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) 4604-6628 (R), 94-325-97896 (M); Email probirrana@gmail.com; Web <http://www.theory.tifr.res.in/~probir>]; INSA Senior Scientist (2017-19); **SC: II.**



2021: ROY, Rahul (b 1959), PhD, Sp: Mathematics; FASC, FNASC, Professor, *Indian Statistical Institute, 7 SJS Sansanwal Marg, New Delhi 110016*; Apartment A7, Indian Statistical Institute, 7 SJS Sansanwal Marg, New Delhi 110016 [Tel (011) 4149-3905 (O), 98-689-29236 (M); Fax 4149-3981; Email rahul@isid.ac.in]; **SC: I.**



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, Vashi, 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 drsyalroy@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.**



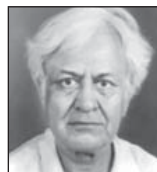
1982: RUDRAIAH, Nanjundappa (b 1932), MA (UOT, Canada), PhD (UWO, Canada) DSc (bc), Sp: Applied Mathematics, Fluid Mechanics; FASc, FNASc, FIAM (UK), FUWA (India), FIAPS, Honorary Professor, UGC-Centre for Fluid Mechanics, Department of Mathematics, Bangalore University & Hon Director, *National Research 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; FASc, CSIR-Emeritus Scientist, Malabar Botanical Garden and Institute for Plant Sciences, Calicut 673014, Kerala; Former Professor and Head, Department of Botany, University of Calicut, Kerala; *'Mamiyil', Nagathumpadam, Olavanna P.O., Calicut, 673019, Kerala* [Tel (0495) 243-1545 (R), 94-476-36333 (M); Email msabu9@gmail.com]; **SC: VII.**



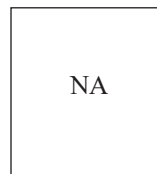
1989: SACHAR, Ramesh Chandra (b 1929), PhD, Sp: Biochemistry & Molecular Biology; FNAAS, formerly Professor, Department of Botany, University of Delhi, Delhi; *E-14/4 Vasant Vihar, New Delhi 110057* [Tel (011) 2614-8837 (R), 98-735-52769 (M)]; **SC: VII.**



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.**



2020: SAHA, Bhaskar (b 1964), PhD, Sp: Immunology; FASc, FNASc, Scientist-G, *National Centre for Cell Science, Ganeshkhind, Pune 411007* [Tel (020) 2570-8139 (O); Fax 2569-2259; Email sahib@nccs.res.in, bhaskar211964@yahoo.com]; **SC: IX.**



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, FASc, Scientist G, JC Bose National Fellow, 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 and Founder Director, Higher Education Academy (Government of Karnataka), Dharwad; *TF-1, Trigunatmika Apartments, Bharati Nagar, Haliyal Road (Near Dasankoppa Circle), Saptapur, Dharmwad 580001* [Tel 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.**



2021: SAIN, Kalachand (b 1964), PhD, Sp: Inversion, Modeling, Advanced Processing & Interpretation of Seismic Data, Machine Learning for Gas-hydrates, Basin Evolution, Geo-tectonics and Earthquake Processes; FNASc, Director, *Wadia Institute of Himalayan Geology, 33, General Mahadeo Singh Road, Dehradun 248001*; Chief Scientist (on Lien) at CSIR-NGRI, Uppal Road, Hyderabad 500007; AcSIR Professor at CSIR-NGRI & Distinguished Professor at WIHG-DST; Flat No. 501, Nagarika Apartment, Kakateeya Nagar, Street No. 2, Habsiguda, Uppal Road, Hyderabad 500007 [Tel (0135) 252-5101 (O), 94-409-64038 (M); Fax 262-5212; Email director@whg.res.in, kalachandsain7@gmail.com]; **SC: IV.**



2012: SALOTRA, Poonam (b 1955), PhD, Sp: Molecular Parasitology and Immunology; FNASc, FTWAS, FAMS, INSA Emeritus Scientist, Consultant & JC Bose National Fellow, Ex-Director In-charge, *ICMR-National Institute of Pathology, 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 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 Electrochemistry (Interfacial Chemistry); FASc, FNAE, FTWAS, Professor, *Department of Inorganic and Physical Chemistry, Indian Institute of Science, Bengaluru 560012*; 3124, Prestige Kensington Gardens, HMT Main Road, Jalahalli, Bengaluru 560013 [Tel (080) 2293-3315 (O), 2308-9516 (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, JC Bose National Fellow, *HBCSE (TIFR), VN Purav Marg, Mankhurd, Mumbai 400088* and Honorary Emeritus Professor, *UGC-DAE-CSR, Mumbai Centre, BARC Campus, Trombay, Mumbai 400085*; Former Distinguished Professor, Tata Institute of Fundamental Research, Mumbai; 202, Vaigyanik CHS, Plot 58-59, Sector 14, Vashi, Mumbai 400703 [Tel 98-921-00402 (M); Email sampathev@gmail.com]; **Medal:** INSA Young Scientist (1986); **Council:** Mem 2020-; **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) 359-7186 (R); Email rajsane@hotmail.com]; **Council:** Mem 1996-98; **SC: VII.**



2017: SANGWAN, Neelam S (*b* 1966), PhD, Sp: Plant Sciences; FNAAS, Professor and Head, *Department of Biochemistry, Central University of Haryana, Jant-Pali, Mahendergarh 123031*; formerly Chief Scientist, Metabolic and Structural Biology, CSIR-CIMAP, Lucknow; Flat No. 501, Type 4, Residential complex of Central University of Haryana, Mahendergarh 123031 [Tel 94-157-66696 (M); Email sangwan.neelam@gmail.com, nsangwan@cuh.ac.in]; **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, Ghaziabad 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), 99-720-35160 (M); Email sanjappam@ymail.com]; **SC: VII.**



2021: SANKARAN, Mahesh (b 1967), PhD, Sp: Ecology; Professor, *National Centre for Biological Sciences, Tata Institute of Fundamental Research, Bengaluru 560065*; C-204 Samvridhdi Gardenia Apartments, 88/3 Byatarayanapura, Bengaluru 560092 [Tel (080) 2366-6221 (O), 96-633-18733 (M), Email mahesh@ncbs.res.in]; **SC: VI.**



2019: SANKARAN, Parameswaran (b 1959), PhD, Sp: Topology, Representation Theory; FASc, FNASc, Professor, *Chennai Mathematical Institute, SIPCOT IT Park, Siruseri, Kelambakkam 603103*; 24 Second Cross Street, Shastri Nagar, Adyar, Chennai 600020 [Tel (044) 7196-1022 (O), 4266-2275 (R), 99-401-39682 (M); Fax 2747-0225; Email sankaran@cmi.ac.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@ccmb.res.in]; **Lecture: Dr MR Das Memorial (2017); SC: X.**



2020: SANKARARAMAN, Sethuraman (b 1957), PhD, Sp: Organic Chemistry, Synthetic & Mechanistic Organic Chemistry; FASc, Professor, *Department of Chemistry, Indian Institute of Technology Madras, Chennai 600036*; B10/3, First Link Road, IIT Campus, Chennai 600036 [Tel (044) 2257-4210 (O), 2257-6210 (R), 94-443-85211 (M); Fax 2257-4202; Email sankar@iitm.ac.in]; **SC: III.**



2018: SANYAL, Kaustuv (b 1969), PhD, Sp: Genetics and Genomics of Human Fungal Pathogens, Eukaryotic Chromosome Segregation; FASc, FNASc, Fellow, American Academy of Microbiology, Professor, *Molecular Mycology Laboratory, Molecular Biology & Genetics Unit, Jawaharlal Nehru 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), 4603-5577 (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/personal-page?mid=milank.sanyal&tab=tab1>, <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, Juhu-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, SERB Distinguished Fellow, 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, manmohan_sarin@yahoo.com]; 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. 1083/1083A, 1st Floor, Teaching Block, Department of Pathology, All India Institute of Medical Sciences, New Delhi 110029; C-II/9, Ansari Nagar (East), AIIMS Campus, New Delhi 110029 [Tel (011) 2659-3371 (O), 2658-8390 (R), 98-101-81945, 99-688-56940 (M); Fax 2658-8663; Email sarkar.chitra@gmail.com]; **SC: XI**.



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



2021: SASTRY, Garikapati Narahari (*b* 1966), PhD, Sp: Computational Chemistry, Theoretical Chemistry, Computer-aided Drug Design, Machine Learning & Data Science; FASc, FNASc, FRSC, Director, *CSIR-North East Institute of Science & Technology, Jorhat, Assam*; JC Bose National Fellow; H. No. 14-137/1/1A, Raja Srinivasa Nagar, Mirjalaguda X Roads, Malkajgiri Hyderabad 500 047 [Tel +91 (0376) 237-0012, 237-2742 (O), 94-355-14989 (M); Fax 237-0011; Email director@neist.res.in, gnsastry@neist.res.in, gnsastry@gmail.com; Web <https://neist.res.in/acds.php>]; **SC: III.**



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 2017-19; **SC: IV.**

1993: SATHYAMURTHY, Narayanasami (*b* 1951), PhD, Sp: Theoretical Chemistry, Molecular Reaction Dynamics; FASc, FTWAS, Honorary Professor, *Indian Institute of Science Education and Research Mohali, Knowledge City, Sector 81, SAS Nagar, Manauli PO 140306* [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, JC Bose National Fellow, Emeritus Professor, *Department of Biochemistry, Indian Institute of Science, Bengaluru 560012*; No. 531, Beladingalu, 14th Main, I Stage, I Phase, Gokul, Bengaluru 560054 [Tel (080) 2360-1561 (O), 2337-2981 (R), 94-483-79380 (M); Fax 2360-0814; Email hss@alumni.iisc.ac.in, hssavithri@gmail.com; Web <http://www.biochem.iisc.ernet.in/~bchss/>]; INSA Senior Scientist (2017-19); **SC: VII.**



1996: SAWHNEY, Surinder Kumar (*b* 1943), PhD, Sp: Plant Biochemistry; Professor (Retd), *E-7/1, Nebru Ground, Faridabad, NIT, Haryana 121001* [Tel 92-893-25262 (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, INSA Senior Scientist, Emeritus Professor, *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), 99-100-48241 (M); Fax 2412-2511; Email rajivksaxena@hotmail.com, rksaxena@sau.int; Web <http://www.SAU.ac.in>; www.rajivsaxena.info]; **SC: VIII.**



2002: SEBASTIAN, Kizhakeyil Lukose (*b* 1950), PhD, Sp: Theoretical Chemistry; FASc, Formerly Professor, Department of Inorganic and Physical Chemistry, Indian Institute of Science, Bengaluru; *#2031, Prestige Kensington Gardens, No. 17 HMT Main Road, Jalaballi West, Bengaluru 560013* [Tel 96-329-28096 (M); 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); 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.**



2021: SENGUPTA, Krishnendu (*b* 1970), PhD, Sp: Theoretical Condensed Matter Physics; FASc, FNASc, Senior Professor, *Theoretical Physics Department, Indian Association for the Cultivation of Science, 2A and B, Raja SC Mullick Road, Jadavpur, Kolkata 700032*; 6/15 PB Road, Behala, Kolkata 700034 [Tel (033) 2473-4971 Ext 2192, 98-301-78500 (M); Email tpks@iacs.res.in, ksengupta1@gmail.com]; **SC: II.**

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 VII, *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; FASc, 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, 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, senthilkumaranb@yahoo.com, senthilkumaranbalasubramanian@gmail.com]; **SC: VIII.**



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, IIITR, 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 jshah87@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*; Neem Tree House, NII Campus, Aruna Asaf Ali Marg, New Delhi 110067 [Tel (011) 2674-1501 (O), 2674-2528 (R), 99-584-20001 (M); Email cshaha0@gmail.com, cshaha@nii.ac.in; Web <http://www1.nii.res.in/research/chandrima-shaha>]; **Medal:** Chandrakala Hora Memorial (2013); SS Bhatnagar (2019); **Lecture:** Professor Darshan Ranganathan Memorial (2010); **Council:** Ad Mem 2015, VP 2016-18, Pres 2020-; **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 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: Air Pollution; FNASc, FNAE, Professor Emeritus and Former Head and JC Bose National Fellow, *Centre for Atmospheric Sciences, Indian Institute of Technology, Hauz Khas, New Delhi 110016*; A-4 Solar House, IIT Campus, New Delhi 110016 [Tel (011) 2659-1312 (O), 2651-5480, 2659-1946 (R), 98-108-45534 (M); Email mathilis@cas.iitd.ernet.in, mathilis.iit@gmail.com]; **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, Emeritus Professor, *Department of Physics, Indian Institute of Technology Delhi, Hauz Khas, New Delhi 110016*; D-202 (FF), Saket, New Delhi 110017 [Tel (011) 2659-1350, 2659-1331 (O), 2686-7022 (R); Email asharma@physics.iitd.ac.in]; **Medal:** INSA Young Scientist (1986), AK Bose Memorial (1991); **Council:** VP 2017-19; **SC: V.**



2004: SHARMA, Ashutosh (*b* 1961), PhD, DSc (*bc*), 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) 527-5222 Ext 208 (O), 554-9235 (R), 98-010-27522, 98-181-89503 (M); Fax 527-5239; Email eklabya.sharma@icimod.org, eklabyasharma11@gmail.com]; **Medal:** INSA Young Scientist (1988); **SC: VII.**



1976: SHARMA, Man Mohan (b 1937), PhD (Cantab), DSc (bc), DEng (bc), Sp: Multiphase Reactions and Reactors; FASc, FTWAS, FEng, 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 Bang (Rumwal Park), Behind Akbarally, Chembur, Mumbai 400071* [Tel (022) 2529-1539; Email profmsharma@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, Sanganer (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, INSA Honorary Scientist, Institute of Chemical Technology, Mumbai; formerly Senior Professor and Chairperson, Department of Biological Sciences, Tata Institute of Fundamental Research, Mumbai; 1103 A, *Tulsigagan Building, President CHS, 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 2018-20; **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, Deputy Director General (Crop Science), *Indian Council of Agricultural Research, Ministry of Agriculture and Farmer's Welfare, Govt. of India, Krishi Bhawan, New Delhi 110001*; B-8 NASC Complex, DPS Marg, New Delhi 110012 [Tel (011) 2338-2545/2309-7003 (O), 98-183-86057 (M); Email trsharma1965@gmail.com, ddgcs.icar@nic.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, yogen.ccmb@gmail.com]; **SC: X.**

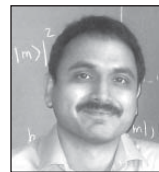


2007: SHASHIDHARA, Lingadahalli Subrahmanya (*b* 1963), PhD, Sp: Genetics and Developmental Biology; FASc, FNASc, Professor (Biology), *Ashoka University, Sonapat 131029 (currently on lien from Indian Institute of Science Education and Research (IISER), Dr Homi Bhabha Road, Pune 411008)*; No B702, IISER Campus, Dr Homi Bhabha Road, Pune 411008 [Tel (020) 2590-8001 (O), 98-234-32303 (M); Fax 2589-9790; Email ls.shashidhara@ashoka.edu.in]; **Council:** Mem 2015, VP 2016-17; **SC: VIII.**



1999: SHASTRY, Balajapalli Sriram (*b* 1950), PhD, Sp: Condensed Matter Theory, Statistical Mechanics; FASc, FNASc, FTWAS, 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.**

2020: SHENOY, Vijay Balakrishna (b 1971), PhD, Sp: Condensed Matter Theory; FASc, Professor, *Centre for Condensed Matter Theory, Department of Physics, Indian Institute of Science, Bengaluru 560012*; No. E-26, New Housing Colony, IISc Campus, Indian Institute of Science, Bengaluru 560012 [Tel (080) 2293-2888 (O), 2360-5620 (R), 94-490-55620 (M); Fax 2360-2315; Email shenoy@iisc.ac.in; Web <http://www.physics.iisc.ernet.in/~shenoy/>]; **Medal:** INSA Young Scientist (2002); **SC: II.**



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, Kunderanahalli 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, Nandihalli, Via Thovnakere, Tumkur District, Karnataka 572138* [Tel 94-495-43848 (R); 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, 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]; INSA Senior Scientist (2016-19); **SC: I.**



2021: SHOUCHE, Yogesh (b 1960), PhD, Sp: Microbial Diversity, Human Microbiome, Microbial Taxonomy; Emeritus Scientist, *National Center for Science, Savitribai Phule Pune University Campus, Ganeshkhind, Pune 411007*; IV SPL D3, NCCS Quarter, NCCS Complex, Savitribai Phule Pune University Campus, Ganeshkhind, Pune 411007 [Tel 98-226-23257 (M), Email yogesh@nccs.res.in, yogesh.shouche@gmail.com]; **SC: VI.**



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 and Trace Gases, Air Quality and Climate; FASc, FNASc, CSIR Emeritus Scientist, *Physical Research Laboratory, Navrangpura, Ahmedabad 380009*; A9 Sterling Row House, Gurukul Road, Memnagar, Ahmedabad 380052 [Tel 94-276-27076 (M); Fax 2631-4659; Email shyam@prl.res.in, shyamprl@gmail.com]; **Medal:** KR Ramanathan (2020); INSA Senior Scientist (2016-19); **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 (*hc*), Sp: Genetics & Plant Breeding; FNASc, FNAAS, INSA Emeritus Scientists, 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@ccmb.res.in, imransiddi@gmail.com]; **SC: VII.**



1988: SIKKA, Satinder Kumar (b 1942), PhD, Sp: High Pressure, Shockwaves, Neutron Diffraction & Energy Bands; FASc, FNASc, 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) 2254-3120 (O), 82-203-33595 (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, Indian Agricultural Research Institute, Pusa Campus, 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:** Mem 1997-99; **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 93-238-40676 (M); Email chhbsia@gmail.com]; **SC: III.**





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.**



2021: SINGH, Krishna Nand (b 1962), PhD, Sp: Organic Chemistry; FNASc, Professor of Organic Chemistry, *Department of Chemistry, Institute of Science, Banaras Hindu University, Varanasi 221005*; R-18, Hyderabad Colony, Banaras Hindu University, Varanasi 221005 [Tel 94-159-92580, 73-805-43868 (M); Fax (0542) 236-8127; Email knsinghbhu@yahoo.co.in, knsingh@bhu.ac.in]; **SC: III.**



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; Member, Board of Management, Sant Longowal Institute of Engineering and Technology, Longowal Punjab 148106; *28A, Bank Colony, Patiala 147001* [Tel 90-048-38965 (M); Email singh@tifr.res.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, FASc, JC Bose National Fellow, 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]; **SC: III.**



2009: SINGH, Mewa (b 1951), PhD, Sp: Ecology, Animal Behaviour; FASc, FNASc, SERB Distinguished Fellow, Distinguished Professor (for Life), *Department of Psychology, University of Mysore, Manasagangothri, Mysore 570006*; 193, Kuvempu Raste, RT Nagar, Ramakrishnana Nagar PO, Mysore 570022 [Telefax (0821) 241-9372 (O), 295-2327 (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, Director of Research, Professor & Head, *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 Emeritus 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 94-157-14584 (M); Fax 670-1124; Email pksalgae@yahoo.co.in]; INSA Senior Scientist (2011-15), INSA Honorary Scientist (2016-19); **Council:** Mem 2010-2011; **SC: VII.**



2021: SINGH, Pradhyumna Kumar (b 1968), PhD, Sp: Crop Genetic Engineering; Senior Principal Scientist, *Plant Molecular Biology and Biotechnology Division, CSIR-National Botanical Research Institute (NBRI), Rana Pratap Marg, Lucknow 226001, Uttar Pradesh*; 631/13, Navneet Vihar, Sector 9, Indira Nagar, Lucknow 226006, Uttar Pradesh [Tel (0552) 2297942 (O), 70-808-44111 (M); Email pksingh@nbri.res.in]; **SC: X.**



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:** 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, FNASc, Director, *CSIR-National Institute of Oceanography, Dona Paula 403004, Goa*; Director Bunglow, 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 (*bc*), Sp: Structural Biology, X-ray Crystallography, Protein Structures, Peptide Design and Drug Discovery; FASc, FNASc, FTWAS, Honorary Distinguished Professor (life-long, UoM), SERB Distinguished Fellow, *Department of Biophysics, All India Institute of Medical Sciences, New Delhi 110029*; 163, City View Apartments, Plot 119, Sector 35, NOIDA 201301 [Tel (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); INSA Senior Scientist (2014-19); **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, Juhu-Versova Link Road, Andheri (W), Mumbai 400053* [Tel (022) 2671-6681 (R); Email vsingh1937@gmail.com, vsingh@theory.tifr.res.in; Web <http://www.theory.tifr.res.in>]; **Professorship:** INSA-CV Raman Research Professor (2003-08); **SC: II.**



2004: SINGH, Vishwakarma (b 1951), PhD, Sp: Organic Chemistry; 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, *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), INSA Honorary Scientist (2016-19); **SC: XII.**



2006: SINGH, Yashwant (b 1944), DPhil, Sp: Condensed Matter Theory, Theoretical Biology; FASc, FNASc, 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]; INSA Senior Scientist (2014-17, 2018-19); **Council:** Mem 2018-20; **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 nikhnavin@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); DST-SERB Year of Science Chair Professor, 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); Email 2aksprl11@gmail.com]; **Medal:** Professor K Naha Memorial (2007); **Council:** Mem 2006-08, VP 2018-20; **SC: IV.**



2020: SINGLA-PAREEK, Sneha Lata (*b* 1969), PhD, Sp: Plant Stress Biology and Crop Biotechnology; FNASc, Group Leader & National Officer, *Plant Stress Biology, International Centre for Genetic Engineering and Biotechnology (ICGEB), Aruna Asaf Ali Marg, New Delhi 110067*; B-533, Paschimabad Multistorey, Jawaharlal Nehru University, New Delhi 110067 [Tel (011) 2674-1358 Ext 363 (O), 2674-1558 (R), 98-103-41386 (M); Email sneh@icgeb.res.in, snehpareek@gmail.com]; **SC: VII.**



1978: SINHA, Akhoury Purnendu Bhusan (*b* 1928), PhD, Sp: Solid State Chemistry; FASc, *c/o Morris Research Inc, 1918, Univ Avenue, Berkeley, CA 94704, USA*; **SC: III.**



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.**



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), 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); INSA Honorary Scientist (2015-19); **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, INSA Senior Scientist, Honorary Professor, *Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Jakkur, Bengaluru 560064*; Distinguished Associate, IISc, Bengaluru; formerly Distinguished Scientist and Director, ISI; formerly Bhatnagar Fellow of CSIR and SERB-Distinguished Fellow [Tel (080) 2208-2997 (O), 99-001-44612 (M); Fax 2362-2762; Email kbs_jaya@yahoo.co.in, kbs@jncastr.ac.in]; **Medal:** Srinivasa Ramanujan (2019); **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); **Council:** VP 2020-; **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 President of Pillay Aquaculture Foundation (International), Pittsburgh, USA; *1895 Pioneer Drive, Sewickley, PA 15143, USA* [Tel (001) 412-596-3902; Email vishwaraman@hotmail.com, drvrvpsinha@yahoo.com; Web www.drvrvpsinha.net]; **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), 4957-8725 (R), 94-444-98619 (M); Fax 2257-4352; Email murthy@iitm.ac.in]; **Medal:** INSA Young Scientist (1991); **SC: V.**



2020: SIVAN, Kailasavadivoo (b 1957), PhD, DSc (bc), Sp: Aerospace Engineering, Space Transportation Systems Engineering; Secretary to GOI, *Department of Space & Chairman, ISRO, ISRO Headquarters, Antariksh Bhavan, New BEL Road, Bengaluru 560231; "VYOMA", 485/1, 80 Feet Road, R.T. Nagar, Bengaluru 560032* [Tel (080) 2341-5241, 2217-2333 (O), 2355-7725 (R); Fax 2351-8551; Email chairman@isro.gov.in]; **NC*.**



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



1998: SIVARAM, Swaminathan (b 1946), PhD, DSc (*bc*, 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, former Director, *National Institute of Plant Genome Research, Aruna Asaf Ali Marg, P.O. 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 2018-20; **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 2017-19; **SC:** II.



1994: SOPORY, Sudhir Kumar (b 1948), PhD, Sp: Molecular Plant Physiology; FASc, FNASc, FNAAS, FTWAS, SERB Distinguished Fellow and Senior Emeritus Scientist, International Centre for Genetic Engineering and Biotechnology, Aruna Asaf Ali Marg, New Delhi 110067; *House No 584, Sector 14, Faridabad 121007, Haryana* [Tel (0129) 414-3755 (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**.



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, sridharanasuri1937@gmail.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, Adjunct Professor, *Chennai Mathematical Institute, H1, Sipoot IT Park, Siruseri, Kelambakkam 603103* [Email rsridhar@cmi.ac.in]; INSA Senior Scientist (2003-05); **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; Distinguished 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 & Paleoceanography; FASc, FNASc, FTWAS, Professor Emeritus, Centre of Advanced Study in Geology, Banaras Hindu University, Varanasi 221005; formerly Head, Department of Geology, BHU & Director, Academic Staff College, BHU, Varanasi; *HIG Flat No. 42/4, Kabir Nagar, Durga Kund, Varanasi 221005* [Tel (0542) 230-7311 Ext 47 (O), 231-1887 (R); Fax 236-8174; Email mssrinivasan@rediffmail.com]; **Council:** Mem 1993-94; **SC: IV**.





1995: SRINIVASAN, Mandayam Chakravarti (b 1935), PhD, Sp: Mycology, Industrial Microbiology & Enzyme Technology; formerly Emeritus Scientist, Biochemical Sciences Division, NCL, Pune; *Row House No. 17, "Planet Millennium", Pimple Sandagar, 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, Visiting Professor, Divecha Centre for Climate Change, Indian Institute of Science, Bengaluru 560012; formerly Scientist F, NGRI, Hyderabad; *No. 114, Kshibhija Ramanashree Nagar, Bannerghatta Road Post, Bengaluru 560076* [Tel 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, Homi Bhabha Chair Professor, *National Institute of Advanced Studies, Indian Institute of Advanced Studies Campus, Bengaluru 560012*; Honorary Professor, Amity University Noida; Former Emeritus Professor, Homi Bhabha National Institute (Deemed University), Mumbai; formerly DAE Raja Ramanna Fellow, formerly Director & Distinguished Scientist, Variable Energy Cyclotron Centre, Kolkata; *3A Atria, Tata Aquila Heights, HMT Estate, Jalahalli, Bengaluru, 560013* [Tel (080) 2218-5105 (O), 98-361-76868 (M); Email dinesh.srivastava@nias.res.in, srivastava.dinesh.kumar@gmail.com]; **SC: II.**



2021: SRIVASTAVA, MV Padma (b 1965), MD, DM, Sp: Medicine (Neurology); FRCP (Edin), FAMS, FNASc, FIAN, Professor and Head, *Department of Neurology, Chief, Neurosciences Center, AIIMS, New Delhi 110029*; Hon. Professor, UCLAN, UK; *C1/9 AIIMS, Campus* [Tel (011) 26594794, 98-683-98261 (M) ; Fax 26588022; Email vasanthapadma123@gmail.com]; **SC: IX.**



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, Sampooranand 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, Pradhan Apartments, 16/5, 18th Cross Malleswaram, Bengaluru 560055* [Tel (080) 2293-2403 (O), 2346-6430 (R), 98-863-10603 (M); Fax 2360-0529; Email gsr@s@iisc.ac.in, gsr@srao@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 pvsrao@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 ecsubarao@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, East End Apartments, Mayur Vihar Phase 1 Extension, Delhi 110096* [Tel (011) 4309-4675 (R), 98-106-05455 (M); Email subbaraosk@gmail.com]; **SC: VIII.**



2020: SUBRAMANIAN, Kandaswamy (b 1957), PhD, Sp: Astronomy and Astrophysics; FASc, Distinguished Professor & Dean, Visitor Academic Programmes, *Inter University Centre for Astronomy & Astrophysics (IUCAA), Post Bag 4, Ganeshkhind, Pune 411007*; 10, Akashganga, IUCAA, Ganeshkhind, Pune 411007 [Tel (020) 2560-4101 (O), 2560-4410 (R), 80-073-24440 (M); Fax 2560-4699; Email kandu@iucaa.in]; **SC: II.**





1990: SUBRAMANIAN, Sankaran (b 1942), PhD (Leicester), Sp: NMR, EPR, Theoretical Chemistry, Magnetic Resonance Imaging; FASc, 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]; INSA Senior Scientist (2016-19); **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.**



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, Suhast 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 sukhatme@iitb.ac.in, spsiitb@yahoo.co.uk]; **Lecture:** DS Kothari Memorial (2005); **Council:** Mem 1998-2000; **SC: V.**



2005: SUKUMAR, Raman (b 1955), PhD, Sp: Ecology; FASc, 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, formerly Professor, *The Institute of Mathematical Sciences, CIT Campus, Taramani, Chennai 600113*; E1, Block III, Shivani Apts, 40 East Coast Road, Thiruvanimiyur, Chennai 600041 [Tel (044) 2254-3210 (O), 2451-6082 (R); Fax 2254-1586; Email sunder@imsc.res.in]; **SC: I.**



2010: SURAPPA, Mirlle 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 mirlle@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, formerly Director, Centre for Nano and Soft Matter Sciences (CeNS), Bengaluru; No. 92, 4 Main Road, Amarajyothi Layout, Cholanagar, RT Nagar Post, Bengaluru 560032 [Tel 99-724-26358 (M); Email skattera@yahoo.com, skattera@gmail.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.**



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



1963: SWAMINATHAN, Monkombu Sambasivan (*b* 1925), PhD (Cantab), DSc (*hc*), 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.**



2017: SWAMINATHAN, Soumya (*b* 1959), MBBS, MD, Sp: Clinical Medical Sciences; FASc, FNASc, FAMS, Deputy Director-General (Programs), *World Health Organisation, 20, Avenue Appia, 1211, Geneva, Switzerland* [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.**



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 99-539-03254, 84-477-99716 (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 (*hc*), DSc (*hc*), Sp: Biomedical Research; FASc, FNASc, FAMS, FRCOG (ae London), Fellow World Academy of Art and Science, Mem, Academia Nacional De Medicina, Mexico, Director Research, Talwar Research Foundation; formerly Professor of Eminence, ICGEB; founder Director, NII and Head, Biochemistry, AIIMS, New Delhi; *E-6-8, Neb Valley, Neb Sarai, New Delhi 110068* [Tel 88-003-22055 (M); Email gpntalwar@gmail.com]; **Medal:** SL Hora (1978), Golden Jubilee Commemoration (Biol Sc) (2007); **SC: XI.**

2005: TALWAR, Kewal Krishan (b 1946), MBBS, MD, DM, DSc (*hc*) Sp: Cardiology; FAMS, FACC, FIACS (Canada), Advisor, Government of Punjab, Health and Medical Education; Academic Director, Holy Family Hospital, New Delhi; Former Chairman, Department of Cardiology, Max Healthcare Institute, Saket, New Delhi; 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 (*hc*), 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@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 & JC Bose National Fellow, *CSIR-Centre for Cellular and Molecular Biology, Uppal Road, Hyderabad 500007*; Director, *Centre for DNA Fingerprinting and Diagnostics, Hyderabad 500039*; 102, Surya Residency, Road No. 3, Snehapuri Colony, Nacharam, Hyderabad 500076 [Tel (040) 2719-2634, 2721-6003 (O), 99-082-13822 (M); Fax 2796-0591, 2721-6006; Email thangs@ccmb.res.in, thangs@cdfd.org.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@iisc.ac.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 and JC Bose National Fellow, *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]; **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); FASc, FNASc, FNAAS, JC National Bose Fellow, Director, *Institute of Science & Professor, School of Biotechnology, Banaras Hindu University, Varanasi 221005*; PG Block 1, Aurobindo Colony, Banaras Hindu University 221005 [Tel (0542) 236-9670 (O), 236-7790 (R), 94-515-25811 (M); Email directoris@bhu.ac.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.**



2021: TRIPATHI, Sachchida Nand (b 1971), PhD, Sp: Atmospheric Sciences, Planetary Atmospheres, Aerosol and Cloud; FNASc, FNAE, JC Bose National Fellow, Professor, *Department of Civil Engineering, Indian Institute of Technology Kanpur, Kanpur 208016*; House No. 450, Type IV, Indian Institute of Technology Kanpur, Kanpur 208016 [Tel (0512) 259-7845 (O), 259-8806 (R), 94-150-50540 (M); Fax 259-7395; Email snt@iitk.ac.in, sachchida.tripathi@gmail.com]; **SC: IV.**



2005: TRIPATHY, Baishnab Charan (b 1952), PhD, Sp: Plant Physiology, Plant Biotechnology, FNASc, FNAAS, Professor and Dean, *School of Life Sciences, Jawaharlal Nehru University, New Delhi 110067*; formerly Vice-Chancellor, Ravenshaw University, Cuttack, Odisha [Tel (011) 2670-4524 (O), 2674-2484 (R), 98-181-04924, 78-944-00787 (M); Email bctripathy@mail.jnu.ac.in, baishnabtripathy@yahoo.com; Web <http://www.jnu.ac.in>]; **SC: VII.**



2020: TRIVEDI, Prabodh Kumar (b 1969), PhD, Sp: Plant Molecular Biology and Biotechnology; FNASc, FNAAS, Senior Principal Scientist, *Molecular Biology and Biotechnology Division, CSIR-National Botanical Research Institute, Rana Pratap Marg, Lucknow 226001*; 14-02-C, Metrocity Apartments, Papermill Colony, Nishatganj, Lucknow 226007 [Tel (0522) 229-7958 (O), 430-2049 (R), 94-504-50521 (M); Fax 220-5836/39; Email prabodht@hotmail.com, prabodht@nbri.res.in]; **SC: XII.**

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) 254-4107 (O), 257-0765 (R), 99-150-35511 (M); Fax 254-7986; Email rakeshtuli@hotmail.com, rtuli@pu.ac.in]; **Medal:** INSA Young Scientist (1983); SL Hora (2008); **SC: XII.**



2007: TUTEJA, Narendra (b 1955), PhD, DSc, Sp: Plant Molecular Biology, Plant and Animal Biotechnology, Agriculture, DNA/RNA Helicases, Plant Abiotic and Biotic Stress Tolerance, Plant-Microbes Interactions; FASc, FNASc, FNAAS, FTWAS, Former Group Leader & Senior Scientist, *International Centre for Genetic Engineering and Biotechnology (ICGEB), Aruna Asaf Ali Marg, New Delhi 110067*; Former Professor & Director, AIMT, Amity University, Noida; E69, Vasant Marg, Vasant Vihar, New Delhi 110057 [Tel (011) 2674-1007 (O), 98-112-33350 (M); Fax 2674-2316; Email 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-23, South Extension Part-2, Second Floor, New Delhi 110049 [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, NASI Senior Scientist, former Professor and Head, *Department of Biotechnology, All India Institute of Medical Sciences, Ansari Nagar, New Delhi 110029* & Honorary Visiting Professor, *THSTI, Faridabad 121001* [Tel (011) 2659-3549 (O), 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, 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), 4254-8653 (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]; **Medal:** Chandrakala Hora Memorial (2019); **SC: VIII.**



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 School of Life Sciences, Dr TMA Pai Planetarium Complex, Manipal Academy of Higher Education, 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, Emeritus Professor, *School of Chemistry, Indian Institute of Science Education and Research Thiruvananthapuram, Maruthamala PO, Vithura, Trivandrum 695551*; formerly Professor and Head, Department of Chemistry, IIT, Kanpur; Flat # 2104/2105, Montreal Tower, Shastri Nagar, Andheri (West), Mumbai 400053 [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*; DQ-9, 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, Bindrabani, Palampur 176061 (HP) [Tel (011) 2584-2134 (O), 2507-2511 (R), 98-102-17141 (M); Email 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, FASc, FNASc, FNAAS, FAAAS, Fellow, German National Academy of Sciences, Leopoldina, 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, FTWAS, Professor, *Department of Microbiology and Cell Biology*, and Chairman, *Division of Biological Sciences, Indian Institute of Science, Bengaluru 560012*; 33A, NTI Layout, 1st 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, Karuppannan (*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) 245-8458 (R), 94-439-27365 (M); Email kveluthambi@rediffmail.com, kveluthambi@gmail.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, Prasantinilayam, 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.**



2020: VERMA, Mahendra Kumar (b 1966), PhD, Sp: Turbulence, Plasma Physics, Nonlinear Dynamics; Professor, *Department of Physics, Indian Institute of Technology Kanpur, Kanpur 208016*; H.No. 4074, Indian Institute of Technology Kanpur, Kanpur 208016 [Tel (0512) 259-7396 (O), 259-8515 (R), 93-997-46029 (M); Fax 259-0914; Email mkv@iitk.ac.in; Web <https://sites.google.com/view/mahendra-verma/>]; **Award:** INSA Teachers Award (2016); **SC: II.**



2016: VERMA, Sandeep (b 1966), PhD, Sp: Bioorganic Chemistry, Chemical Biology; FNASc, FASc, FRSC, JC Bose National Fellow and Secretary, *Science and Engineering Research Board, 5 & 5A, Lower Ground Floor, Vasant Square Mall, Sector-B, Pocket-5, Vasant Kunj, New Delhi 110070*; Professor, 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 secretary.serb@nic.in, sverma@iitk.ac.in]; **Council:** Ad Mem 2021; **SC: III.**



1994: VIDYASAGAR, Mathukumalli (b 1947), PhD (Wisconsin), Sp: Machine Learning, Control Theory, Statistical Learning Theory, Computational Biology; FASc, FNAE, FTWAS, FRS, SERB Distinguished Professor, *Indian Institute of Technology Hyderabad, Kandi, Telangana 500285* [Tel 98-480-50451 (M); Email m.vidyasagar@iith.ac.in; Web https://www.iith.ac.in/~m_vidyasagar/]; **Lecture:** JL Nehru Birth Centenary (2005); **SC: V.**

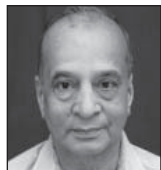


2017: VIJAY KUMAR, Panganamala (b 1955), PhD, Sp: Electrical Communication Engineering: Error-Correcting Codes, Wireless Communication; Professor, *Department of Electrical Communication Engineering, Indian Institute of Science, Bengaluru 560012*; 169, 3rd Main, 11th Cross, RMV 2nd Stage, Bengaluru 560094 [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.**



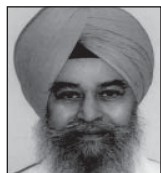
1980: VIJAYARAGHAVAN, Ramanuja (b 1931), PhD, Sp: Solid State Physics; FASc, FNASc; 305, *Vaigyanik Coop Hsg Soc, Plot 58-59, Sector 14, Vashi, New Mumbai 400703* [Tel (022) 2215-2971 (O), 2766-7554 (R); Fax 2215-2110, 2578-3254; Email rv@tifr.res.in]; INSA Senior Scientist (1996-2001); **SC: II.**



1999: VIJAYRAGHAVAN, Krishnaswamy (b 1954), PhD, Sp: Developmental Biology and Genetics; FASc, FRS, Principal Scientific Adviser, *GoI, Room No 319, Vignyan Bhawan Annexe, New Delhi 110011*; Former Secretary, DBT [Tel (011) 2469-5482, 2302-2112 (O); Fax 2469-5483; Email vijayaraghavan@gov.in]; **Medal:** CV Raman (2019); **Lecture:** JL Nehru Birth Centenary (2007); **SC: VIII.**



2008: VIJAYRAGHAVAN, Usha (b 1961), PhD, Sp: Molecular Genetics, Plant Development; FASc, Professor, *Department of Microbiology & Cell Biology, Indian Institute of Science, Bengaluru 560012*; 106, 6th Cross, RMV Stage II, Bengaluru 560094 [Tel (080) 2360-0168 (O), 2341-8504 (R), 98-443-32445 (M); Email uvr@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, FRBS, Adjunct Professor, *Eternal University, Baru Sahib, HP 173101*; former Professor, *Mekelle University, Ethiopia*; former Senior Research Fellow and International Coordinator, *School of Natural Sciences, Bangor Univ., Bangor, LL57 2UW, UK*; formerly Professor, *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]; **SC: XII.**



1988: VISWANADHAM, Nukala (b 1943), PhD, Sp: Global Supply Chain Ecosystems, Logistics, Platform Business Models, Resilience in Business Ecosystems; FASc, FTWAS, *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.viswanadhham@gmail.com]; INSA Honorary Scientist (2014-16, 2018-19); **SC: V.**

2013: VISWESWARIAH, Sandhya Srikant (b 1957), PhD, Sp: Biochemistry, Cell Biology; FASc, FTWAS, JC Bose National Fellow, Professor, *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); **Lecture:** Dr MR Das Memorial (2020); **SC: X.**



2009: VIYOGI, Yogendra Pathak (b 1948), PhD, Sp: Experimental Nuclear Physics; FNASc, INSA Emeritus Scientist, 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 98-310-37532 (M); Email viyogi@gmail.com]; INSA Senior Scientist (2017-18); **SC: II.**



2021: VRATI, Sudhanshu (b 1960), PhD, Sp: Virology, Vaccinology; FASc, FNASc, Executive Director, *Regional Centre for Biotechnology, Faridabad 121001*; 501A, OC-5, Essel Tower, Gurgaon 122002 [Tel (0129) 2848801(O), 98-110-07944 (M); Fax 2848802; Email vrati@rcb.res.in]; **SC: IX.**



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.**



2020: WANI, Mohan Ramchandra (b 1965), MVSc (Veterinary Surgery), PhD (Medicine, UK), Sp: Bone Remodeling and Regenerative Medicine; FNASc, Tata Innovation Fellow, Scientist-G (Professor), *National Centre for Cell Science, University of Pune Campus, Pune 411007*; 4-Parijat Apartment, 73 Mayur Colony, Kothrud, Pune 411038 [Tel (020) 2570-8102 (O), 2543-0204 (R), 93-730-00831 (M); Fax 2569-2259; Email mohanwani@nccs.res.in]; **SC: XI.**





2007: YADAV, Ganapati Dadasaheb (b 1952), PhD (Tech) (Chem. Eng.), Sp: Chemical Engineering, Green Chemistry and Engineering, Catalytic Science and Engineering, Energy Engineering; FASc, FNASc, FNAE, FTWAS, FRSC, Emeritus Professor of Eminence, JC Bose National Fellow, Conjoint Professor, University of New Castle, Australia; Adjunct Professor, RMIT University, Australia; Adjunct Professor, University of Saskatchewan, Canada; Former Vice-Chancellor & RT Mody Distinguished Professor and Tata Chemicals Darbari Seth Distinguished Professor of Leadership & Innovation, *Institute of Chemical Technology, Nathalal Parekh Marg, Matunga, Mumbai 400019*; Palm Springs CHS, A 1201, Sector 7, Near Peer Sayyad Badshah Udyan, Airoli, Navi Mumbai 400708 [Tel (022) 3361-2010/1111/2222, 98-330-90510 (M); Fax 3361-1020; Email gd.yadav@ictmumbai.edu.in, gdyadav@yahoo.com, gdyadav@gmail.com]; **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 and Bhatnagar Fellow, CSIR-IICT, Vice-Chancellor, Director and Trustee, *Indrashil University, PO Rajpur, Taluka Kadi, Mehsana 382730, Gujarat*; 45, Garden Villa, Opp. UGVCL Office, Kadi-Chatral Road, Kadi 382715 [Tel (02764) 278-813, 278-815 (O), 70-690-76528, 98-492-40801 (M); Email jsyadav@indrashiluniversity.edu.in, yadavfna@gmail.com]; **Lecture:** Professor S Swaminathan 60th Birthday Commemoration (2002); **SC:** III.



2021: YADAV, Om Parkash (b 1963), PhD, Sp: Plant Breeding; FNAAS, Director, *ICAR-Central Arid Zone Research Institute (CAZRI), Jodhpur, Rajasthan 342003*; Director's Bungalow, ICAR-Central Arid Zone Research Institute (CAZRI), Jodhpur, Rajasthan 342 003 [Tel (0291) 2786584 (O), 94-139-31805 (M); Fax 2788706; Email opyadav21@yahoo.com, director.cazri@icar.gov.in]; **SC:** X.



2017: YADAV, Shrirang Ramchandra (b 1954), PhD, Sp: Angiosperm Taxonomy; FNASc, INSA Senior Scientist, 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), 94-211-02350, 82-620-91318 (M); Fax 691-533, 692-333; Email sryadavdu@rediffmail.com, sryadavdu@gmail.com]; **SC:** VII.



2021: YAJNIK, Chittaranjan Sakerlal (b 1952), MD, FRCP, Sp: Medicine (Diabetologist); Director, *Diabetes Unit, 6th floor, Banoo Coyaji bldg., KEM Hospital Research Centre, Sardar Moodliar road, Rasta Peth, Pune 411011*; 870/6, Shivaji Nagar, Nivant Gadh, Bhandarkar Road, Pune 411004 [Tel (020) 66037368 (O), 98-228-47481 (M); Email csyajnik@gmail.com]; **SC:** IX.



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, yashonath@gmail.com]; **SC:** III.



1999: YEGNANARAYANA, Bayya (b 1944), PhD, Sp: Signal Processing, Speech, Vision and Neural Networks; FASc, FNAE, FIEEE, FIETE, FISCA, FAPAS, FASI, INSA Senior Scientist, *International Institute of Information Technology, Gachibowli, Hyderabad 500032*; 201, Savitri Nilayam, Lane 23, Road 1, Ravindranagar, Habsiguda, Hyderabad 500007 [Tel 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].





2020: ATTFIELD, John Paul (b 1962), DPhil, Sp: Materials Chemistry and Physics; FRS, FRSE, FRSC, Chair of Materials Science at Extreme Conditions, *School of Chemistry and Centre for Science at Extreme Conditions (CSEC), King's Buildings, University of Edinburgh, Mayfield Road, Edinburgh, EH9 3JZ, UK; 9, Boswall Loan, Edinburgh, EH5 1AS, UK* [Tel (44-131) 651-7229; Fax 651-7049; Email j.p.attfield@ed.ac.uk].



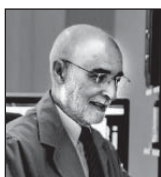
1982: AYENSU, Edward Solomon (b 1935), PhD, FLS, FGAAS, FTWAS, FAAS, Sp: Plant Biology, Biodiversity, Conservation and Economic Development; Chairman, Presidential Advisory Council on Science, Technology and Innovation (PACSTI), Ghana; Chairman, Board of Trustees, African Institute for Mathematical Sciences (AIMS), Ghana; Chairman, Board of Trustees, Accra Institute of Technology (AIT), Ghana; Executive Chairman, ESA Associates Ltd, Science, Technology and Economic Consultants; formerly Chairman, Council for Scientific and Industrial Research (CSIR), Ghana; formerly Chairman, World Bank Inspection Panel; formerly President, Pan African Union for Science and Technology; formerly Chairman, Ghana National Biodiversity Committee; formerly Mem, International Advisory Council on Global Scientific Communications, UNESCO; formerly 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 (233-302) 778-677, 775-554, (233-24) 435-4070 (M); Email eayensu@gmail.com; Web <http://edwardayensu.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].



2021: BANERJEE, Utpal (b 1957), PhD, Sp: Signal Transduction, Metabolic and Genetic Control of Development; Professor, *Department of Molecular, Cell and Developmental Biology, Professor, Department of Biological Chemistry, Co-Director, Broad Stem Cell Research Center and HHMI Professor, University of California, Los Angeles, 610 Charles E Young Drive East, Los Angeles, California 90095 USA; 12968 Greenleaf Street, Studio City, California 91604 USA* [Tel 1-310-206-5439; E-mail banerjee@mbi.ucla.edu].



2006: BARRANTES, Francisco José (b 1944), MD, PhD, Sp: Neurobiology, Neurosciences; Director, *Laboratory of Molecular Neurobiology, Institute of Biomedical Research, Faculty of Medicine, Catholic University of Argentina and Argentinian Res Council (CONICET), Av. Alicia Moreau de Justo 1600, 3 piso, C1107AFF – Buenos Aires, Argentina* [Tel +54 11 4349-0200 Ext 2116 (O); Fax +54 11 4338-0886; Email rtfjb1@gmail.com, 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].

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].



2021: BENNETZEN, Jeffrey Lynn (b 1952), PhD, Sp: Plant Genetics and Genomics, Plant:Microbe Interactions; Giles Professor, *Georgia Research Alliance Eminent Scholar and Professor, Department of Genetics, University of Georgia, Athens, GA 30602, USA*; 1041 Arizona Bend, Watkinsville, GA 30677, USA [Tel +1-678-753-1231; Email maize@uga.edu].



2021: BEVAN, Michael W (b 1952), PhD, Sp: Plant Molecular Biology, Genetics and Genomics; FRS, OBE, Project Leader, Genes in the Environment, *John Innes Centre, Norwich Research Park, Norwich NR4 7UH, UK*; John Innes Centre Norwich Research Park, Norwich NR4 7UH, UK [Tel +44 (0)1603 450000; Email Michael.Bevan@jic.ac.uk].



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].



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 and Computational Biology, Applications to Drug Discovery for Cancer and Mycobacterial Infections; FRS, FMedSci, Professor Emeritus 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]; **Lecture:** Blackett Memorial (2019).





2020: BRAUNSCHWEIG, Holger (b 1961), PhD, Sp: Inorganic and Main-Group Chemistry; FRSC, Professor of Chemistry and Member of the Senate, *Institute of Inorganic Chemistry, Julius Maximilians University Würzburg, At Hubland, 97074 Würzburg, Germany*; Founding Director of the Institute for Sustainable Chemistry & Catalysis with Boron, Julius Maximilians University Würzburg, At Hubland, 97074 Würzburg, Germany [Tel (49-931) 31-85260; Fax 31-84623; Email h.braunschweig@mail.uni-wuerzburg.de; Web <http://www.chemie.uni-wuerzburg.de>].



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].



2019: CHEETHAM, Sir 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, Honorary Fellow, Singapore National Academy of Science, 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, NL*; Royal Netherlands Institute for Sea Research, PO Box 59, 1790 AB DEN BURG, The Netherlands, NL [Tel (31-222) 320-816 (R), (31-6) 2042-0611 (M); 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].



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 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].





2020: GRANER, Andreas (b 1957), PhD, Sp: Crop Genomics, Genetic Diversity and Genebank Research; Fellow, German National Academy of Sciences, Leopoldina, FNAAS, Executive Director, *Leibniz Institute of Plant Genetics and Crop Plant Research (IPK)*, *Corrensstr. 3, D-06466 Seeland OT Gatersleben, Germany* [Tel +49 (0) 39482-5219; Fax 39482-5500; Email graner@ipk-gatersleben.de; Web <http://www.ipk-gatersleben.de>].



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 <https://ccr.cancer.gov/Laboratory-of-Biochemistry-and-Molecular-Biology/shiv-grewal>].



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, Académie 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].

1982: HEWISH, Antony (b 1924), PhD, NL, Sp: Radioastronomy; FRS, Emeritus Professor of Radioastronomy, *University of Cambridge, Cavendish Laboratory, Madingley Road, Cambridge, CB3 0HE* [Fax (44-1223) 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 61 701 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, 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 (*hc*), Sp: Chemical Physics, Solid State Physics; Academies, Nat-Israel Acad Sc and Humanities, International-Acad Quantum Molecular Sc, Am Phil Soc, R Danish Acad Sc and Letters, Am Acad Arts and Sc, Polish Acad Sc, Romanian Acad Sc, European Acad Sc and Arts, Nat Acad Sc (USA), Russian Acad Sc, Leopoldina Acad Sc, Royal Netherlands Acad Arts Sci, Learned Society of the Czech Republic, Chemical Research Society of India; formerly President, Israel 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].

1998: LEE, Yuan T (*b* 1936), PhD, NL, Sp: Physical Chemistry (Chemical Dynamics & Photo Chemistry); Foreign Member, National Academy of Sciences, Royal Swedish Academy of Engineering Sciences, Bangladesh Academy of Sciences, Honorary Foreign Member, The Korean Academy of Science and Technology, Honorary Member, Chemical Research Society of India, The Japan Academy, The Hungarian Academy of Sciences, Science Council of Japan; External Member, Max Planck Institute fur Stromungsforschung; Corresponding Member, Gottingen Academy of Sciences; Fellow, American Academy of Arts and Science, Third World Academy of Sciences, Honorary Fellow, RIKEN of Japan; Academician, Academia Sinica; Pontifical Academy of Sciences; President Emeritus and Distinguished Research Fellow, Academia Sinica; Immediate Past President of ICSU; *Genomic Research Center, Academia Sinica, 7th Floor, 128, Section 2, Academia Road, Nankang, Taipei 115, Taiwan* [Tel (886-2) 2789-8802; Fax 2789-8801; Email ytlee@gate.sinica.edu.tw]; **Medal:** JLNehru 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 (Emeritus), 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].

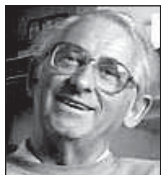


1999: LLEWELLYN SMITH, Christopher Hubert (*b* 1942), DPhil (Oxon), Sp: Theoretical Particle Physics, Energy Technologies and Policy; FRS, Academia Europea, *Oxford University, Theoretical Physics, Clarendon Laboratory, Parks Road, Oxford OX1 3PU, UK* [Tel 44 (0) 1865-273997; Email c.llewellyn-smith@physics.ox.ac.uk].



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 (*hc*), 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 Uenohiba 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*), LLD (*hc*), Sp: Medical Biology and Immunology; FRCP, FRACP, FRCPA, FRACOG (Hon), FRCPATH, FRACGP, FRSE, FTSE, FAA, FRS, Consultant, World Health Organization and Bill and Melinda Gates Foundation; formerly Director, The Walter and Eliza Hall Institute of Med Res and Professor of Med Biology, The University of Melbourne, *Department of Pathology, The University of Melbourne, Parkville, Victoria 3010, Australia* [Tel (+61-3) 9853-8256; Email gnossal@bigpond.net.au].

2011: OGAWA, Seiji (*b* 1934), PhD, Sp: Functional MRI; Member, National Academy of Sciences, USA, Member, National Academy of Medicine, Honorary Member, Japanese Society of Magnetic Resonance in Medicine, Honorary Member, Japanese Society of Nuclear Magnetic Resonance, Honorary Member, National Magnetic Resonance Society of India and Fellow, International Society for Magnetic Resonance in Medicine, Director, *Ogawa Laboratories for Brain Functions Research, Hamano Life Science Research Foundation, Tokyo, Japan* [Tel +81 3 5919 3992 (O), +81 467 31 4350 (R); Fax 81 (0)3 5919 3993; Email ogawa@hlsrf.or.jp].



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) 96708-8344 (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, FREng, FNAE, Marconi Fellow, Foreign Fellow, Russian Academy of Sciences, Norwegian Academy of Sciences, Director, *Optoelectronics Research Centre / Zepler Institute, 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, *Sorbonne Université, Paris, 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. (bc) 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 (bc), 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].



2021: RAVISHANKARA, Akkihebbal Ramaiah (b 1949), PhD, Sp: Atmospheric Chemistry; University Distinguished Professor, *Colorado State University, Fort Collins, CO 80523, USA*; Campus Mail 1872, Colorado State University, Fort Collins, CO 80523-1872, USA [Tel +1 970 491 2876, +1 720 938 1604 (M); Email a.r.ravishankara@colostate.edu].



1988: REDDY, Raj (b 1937), BE (Civil Engg), MTech, PhD, DSc (bc), Sp: Human-Computer Interaction and Artificial Intelligence, Spoken Language Systems, Gigabit Networks, Universal Digital Libraries, and Distance Learning; Fellow, IEEE, Acoust Soc of Am, AAAI, Mem, Nat Acad Engg, Am Acad Arts & Sc, *University Professor of Computer Science and Robotics, Carnegie Mellon University, 5325, Wean Hall, Pittsburgh, Pa 15217, USA* [Tel (412) 268-7170 (O), 268-2572 (R); Fax 683-5348; Email rr@cmu.edu].





1993: REMBOLD, Heinz (*b* 1928), Head (Retd) and Professor of Biochemistry, Max-Planck-Institute for Biochemistry, D-82152, Martinsried; *Luise-Kiesselbach-Platz 2, 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].



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, FRSB, 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 <https://www.abdn.ac.uk/people/pete.smith/>].



2008: SREENIVASAN, Katepalli R (*b* 1946), University Professor and Eugene Kleiner Chair for Innovation, Tandon School of Engineering, Physics Department, and the Courant Institute of Mathematical Sciences, New York University; *88, Starin Drive, Stamford, CT 06902, 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 Emeritus and former Dean of Engineering and Vice President (China and India Initiatives), *Monash University, Wellington Road, Clayton, Victoria 3800, Australia*; 77 Hilton Street, Mount Waverley, Victoria 3149, Australia [Tel (061) 417-010-796 (M); Email tam.sridhar@eng.monash.edu.au].

2017: STAROBINSKY, Alexei A (b 1948), MS, PhD, Sp: Gravitation, Astrophysics & Cosmology; FNASc, Academician, Russian Academy of Sciences, International Member, 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 (R), 7 (916) 597-5427 (M); Email alstar@landau.ac.ru].



2021: SUNYAEV, Rashid A (b 1943), PhD, Sp: Theoretical Astrophysics, Cosmology, High Energy Astrophysics, X-ray Astronomy, Space Research; Professor of Astrophysics, *Max Planck Institute for Astrophysics, Kari-Schwarzschild-Str. 1, 85748 Garching, Germany and Space Research Institute (IKI) of Russian Academy of Sciences, 84/32 Profsoyuznaya Street, 117997, Moscow, Russia* [Tel 49/89 / 30000-2244; Fax 089 / 30000-2899; Email sunyaev@mpa-garching.mpg.de].



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 Nukukitamachi, 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].





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 (*bc*), DSc (*bc*), 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 (2011-2017), Co-Chair (2002-2010); Professor & President Emeritus, *The Rockefeller University, 1230 York Avenue, New York, NY 10065*; formerly Secretary General, the International Human Frontier Science Programme Organization, France [Tel +1 (212) 327-7093 (O); 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.w.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* [Tel (+41-44) 633-2473 (O); Fax (+41-44) 633-1151; Email wuthrich@mol.biol.ethz.ch]; Professor of Structural Biology, Scripps Research, 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 wylie@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].



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 2020

(Effective from 01 January 2021)

Vivek Agarwal (*b* 13.06.1964), PhD, Professor, Department of Electrical Engineering, Indian Institute of Technology Bombay, Mumbai.

Professor Vivek Agarwal has made outstanding contributions in techniques for 'maximum power point tracking'; developed methods for extracting maximum amount of power from a solar cell array, especially under shaded conditions. This work created paradigms for future research on this topic. He has also made significant contributions in the area of power electronics applications for photovoltaic systems and in the improvements of power quality.

Shally Awasthi (*b* 07.09.1958), MBBS, MD, Professor, Department of Pediatrics, King George's Medical University, Lucknow.

Professor Shally Awasthi has been recognized internationally for her research on respiratory infections in children, through studies in the hospitals and in the community to measure the burden, identify risk factors and test efficacies of interventions. Professor Awasthi works in the challenging environment of Uttar Pradesh and has successfully led studies that have resulted in the introduction of pneumococcal vaccines into the national programme. She has also carried out large long term trial on vitamin A supplementation and deworming and demonstrated that the national approaches to these public health efforts need modifications.

K Ganapathy Ayappa (*b* 28.08.1962), PhD, Professor and Chairman, Department of Chemical Engineering, Indian Institute of Science, Bengaluru.

Professor K Ganapathy Ayappa has brought out new insight in transport processes through his investigations on binary mixture adsorption in carbon nanotubes, dynamics of water confined between graphene oxide surfaces and pore formation in biological membranes. These will have long lasting impact. He has consistently produced a substantial body of high-quality work.

Janendra Kumar Batra (*b* 28.01.1957), PhD, Professor and Head, Department of Biochemistry, School of Chemical and Life Sciences, Jamia Hamdard, New Delhi.

Dr Janendra Kumar Batra has made outstanding contributions in the understanding of the control of protein quality in Mycobacterium tuberculosis under stress. He also has made seminal contributions in the area of basic biology of naturally occurring protein toxins and their application in developing bio-therapeutics.

Suvendra Nath Bhattacharyya (*b* 04.10.1975), PhD, Senior Principal Scientist and Head, Molecular Genetics Division, CSIR-Indian Institute of Chemical Biology, Kolkata.

Dr Suvendra Nath Bhattacharyya's work has uncovered the manner in which human cells sense their environments and control cellular microRNA levels and their activities by exporting excess microRNAs. He discovered the key protein, HuR that controls microRNA-loading into exosomes. His research elucidated a process by which the India-centric pathogen *Leishmania donovani* modulates microRNA machineries in the host tissue during infection for its own survival. These open up novel possibilities for therapeutic strategies against the pathogen.

Tirthankar Bhattacharyya (b 07.02.1968), PhD, Professor, Department of Mathematics, Indian Institute of Science, Bengaluru.

Professor Tirthankar Bhattacharyya is an expert on multivariable operator theory and works on its deep interactions with several variable complex function theory. He has made fundamental contributions to the model theory of operators and has firmly established himself as an authority on the subject of model theories for the symmetrized bi-disk and the tetra block.

Subhadeep Chatterjee (b 25.05.1975), PhD, Staff Scientist- V (Group Leader), Centre for DNA Fingerprinting and Diagnostics (CDFD), Hyderabad.

Dr Subhadeep Chatterjee has made landmark contributions through his work on bacterial quorum sensing heterogeneity. This has enabled an improved understanding of social communication systems by providing insights on microbial iron homeostasis and its role in plant diseases.

Abhishek Dhar (b 31.08.1970), PhD, Professor (H), International Centre for Theoretical Sciences, TIFR, Bengaluru.

Professor Abhishek Dhar has made fundamental contributions to studies of non-equilibrium statistical physics, in particular on the breakdown of the Fourier law of heat conduction in one dimension, as also in the use of the quantum Langevin equation, and in studies of non-equilibrium fluctuation theorems. He is internationally recognized as a leader in these fields.

Eknath Prabhakar Ghate (b 11.09.1969), PhD, Professor, School of Mathematics, Tata Institute of Fundamental Research, Mumbai.

Professor Eknath Ghate works on various topics in Number Theory that relate to arithmetic of automorphic forms, p -adic Galois representations and the special values of L -functions. He has been making noteworthy contributions consistently with publications in highly acclaimed journals such as *Compositio Math*, *Indag. Math*, *Trans. Amer. Math. Soc*, *Math. Res. Letters*.

Pradyut Ghosh (b 17.02.1970), PhD, Senior Professor and Chair, School of Chemical Sciences, Indian Association for the Cultivation of Science, Kolkata.

Professor Pradyut Ghosh has made substantial contributions through his work on anion recognition. This has potential applications in the area of chemical sensing, water purification, health and environment. His investigations on interlocked molecular systems with has implications for molecular machines.

Saman Habib (b 16.08.1968), PhD, Senior Principal Scientist & Professor (AcSIR), Division of Molecular & Structural Biology, Central Drug Research Institute, Lucknow.

Dr Saman Habib has made phenomenal contributions towards an understanding of biological processes in the apicoplast of Plasmodium, a small plastid-like organelle and a potential drug target. She has

elucidated the properties of ribosomes and proteins specific to translation and replication and also delineated components of the unique SUF pathway of [Fe-S] biogenesis and other pathways of apicoplast and mitochondria in the malarial parasite.

Jayant Ramaswamy Haritsa (*b* 10.03.1964), PhD, Professor (HAG Scale), Department of Computational & Data Sciences, Indian Institute of Science, Bengaluru.

Professor Jayant Haritsa has contributed to the theory and practice of database engines. These efforts have spanned both the transaction-processing and decision-support environments and breaks new ground in real-time databases, data mining, XML-, multi-lingual and biological- databases and query optimization. His work in the area of query optimization and related plan diagrams culminated in a visualization platform called Picasso is commercially available and widely used by leading companies like MSR, HPLabs, IBM and leading academic groups. in universities like CMU, Purdue, Duke, NUS, IIT Bombay etc. His work on integrating issues of efficiency and data-integrity in Real Time Databases revolutionized the area. He is among a few researchers whose work straddle the entire spectrum of mathematical modeling of real life-problems to practical and provably superior performance. Explicit evidence of the practicality of these ideas was demonstrated through incorporation of the Postgre SQL kernel in advanced courses in Databases around the world.

Mudlappa Jayananda (*b* 01.07.1959), PhD, Professor, Centre for Earth, Ocean and Atmospheric Sciences, University of Hyderabad, Hyderabad.

Professor Jayananda has made fundamental contributions to the understanding of the evolution of the Dharwar Craton during 3.5 to 2.5 Ga, in respect of the growth of craton, its architecture, magmatism, and tectonics. This work has contributed globally to the tectonics during early Earth, the coupled crust-mantle system, and, the development of Archean cratons.

Ashvarya Laxmi (*b* 28.12.1974), PhD, Staff Scientist- V, National Institute of Plant Genome Research, New Delhi.

Dr Ashvarya Laxmi has carried out seminal work on the cross-talk between multiple signalling pathways for plant growth and development. Her research provides novel insights on the role of glucose as a major signalling molecule and its interaction with hormone pathways to control plant architecture and stress response.

Souvik Mahapatra (*b* 26.10.1970), PhD, Professor, Department of Electrical Engineering, Indian Institute of Technology Bombay, Mumbai.

Professor Souvik Mahapatra has made seminal contributions towards understanding fundamental factors in degradation in CMOS devices. His work on reliability characterization methodologies has been groundbreaking. He has successfully identified the physics leading to the reliability of a semiconductor device and the mechanism of their degradation to factors such as bias-temperature instabilities (BTI). He connected this physics to develop compact predictive models that are used widely in the semiconductor devices industry.

Shiraz Naval Minwalla (*b* 02.01.1972), PhD, Senior Professor (I), The Department of Theoretical Physics, Tata Institute of Fundamental Research, Mumbai.

Professor Shiraz Minwalla's seminal contributions have shaped global research in a numerous topics in quantum field theory, gravity and string theory. His work includes the influential fluid-gravity duality

derived from fluid dynamical equations from Einstein's equations in anti-de Sitter space-time. More recently, his solution of large N Chern-Simons matter theories in 2+1 dimensions and identification of the novel Bose-Fermi duality of these systems are important contribution to theoretical condensed matter physics.

Arnab Mukhopadhyay (b 20.07.1972), PhD, Staff Scientist-VI, Molecular Aging Laboratory, National Institute of Immunology, New Delhi.

Dr Mukhopadhyay has made fundamental contributions on the molecular basis of aging. Employing a model organism, his studies have discovered a critical role of nutrient sensing pathways and have also unraveled the complex gene regulatory mechanisms by which dietary restriction affects aging.

Ganesh Nagaraju (b 30.04.1973), PhD, Associate Professor, Department of Biochemistry, Indian Institute of Science, Bengaluru.

Professor Ganesh Nagaraju's work identified that XRCC3 S225 protein phosphorylation is crucial for DNA double-strand break (DSB) repair by HR and intra-S-phase checkpoint regulation as well as maintenance of genome integrity. He demonstrated that tumor suppressor functions of RAD51 paralogs, FANCD1 helicase type of proteins play a critical role in genome maintenance. His work provides a deep insight on the molecular mechanisms of pathological mutations leading to genetic diseases and cancer, which can be translated into developing new therapeutics for targeting cancer pathology.

Sunita Narain (b 23.08.1961), DSc (Hon), Director General, Centre for Science and Environment, New Delhi.

Dr Sunita Narain is an unmatched environmentalist of India, a fearless writer on issues of environment and policies. She has co-edited influential publications on India's environment, directed campaigns on air pollution control, community water management, pesticide regulation, plastics to name a few. The biweekly magazine, edited by her, Down to Earth, has been one of the most acclaimed environmental magazine of India and is also acclaimed internationally. She combines science-based evidence and solutions with a pro-poor perspective to mainstream environmental concerns. Her ideas have been widely acclaimed and have led to slew of policy and regulatory measures, that are rooted in the concept is that the environmental protection is a necessary precursor to sustainable future.

Shailesh Nayak (b 21.08.1953), PhD, Director, National Institute of Advanced Studies, Indian Institute of Science Campus, Bengaluru.

Dr Nayak has made unparalleled contribution in developing geoscience services for improving quality of lives of coastal communities by enhancing their income, security and safety. His two major technological contributions to India are, a) the design, development of the Tsunami Early Warning Center and in making it failsafe through generation of about 50,000 scenarios and, b) the use of satellite data to understand ocean processes and in developing in their use to identify potential fishing grounds. This unique contribution has transformed lives and economies of fishermen in India. The Tsunami warning system is being used by 22 countries in the Indian Ocean. He has used Space technology for Coastal Regulation Zone by providing data on tides, health of mangroves, brackish water aquaculture sites. His coastal maps are used by the courts of India.

Nitin Nitsure (*b* 09.11.1957), PhD, Professor (H), School of Mathematics, Tata Institute of Fundamental Research, Mumbai.

Professor Nitin Nitsure has made substantial contributions in the area of geometry of vector bundles on curves. His algebraic construction of the Hitchin moduli space was the forerunner for the fundamental work of Carlos Simpson. His later work on logarithmic connections and the Riemann Hilbert correspondence is considered as a fundamental contribution in mathematics. He was invited to write a modern exposition of Grothendieck's classic *Fondements de geometrie algebrique*.

Thomas Pucadyil (*b* 20.11.1976), PhD, Associate Professor, Indian Institute of Science Education and Research, Pune.

Dr Thomas Pucadyil's research has significantly advanced our understanding of the manner in which cellular membranes are sculpted and cut. His pioneering work using a novel *in vitro* assay elucidated membrane deformation by proteins, and how they promote and catalyse the budding and fission process, that are central to the biology of eukaryotic cell membranes.

Gajendra Pal Singh Raghava (*b* 25.05.1963), PhD, Professor, Center for Computational Biology, Indraprastha Institute of Information Technology (IIIT), New Delhi.

Professor GPS Raghava has made innovative contributions towards applications of machine learning to address a variety of problems in computational biology. These range from prediction of secondary structure, cellular localization, B-cell/T-cell epitopes, ligand binding sites, vaccine/drug design and many more. Prof. Raghava ranks among few international researchers who have developed a large number of bioinformatics resources which are extensively cited and widely used for data driven research in biology.

Velayudhan Anandavally Raghunathan (*b* 25.11.1960), PhD, Professor, Raman Research Institute, Bengaluru.

Professor VA Raghunathan has made important contributions to the study of multilayer lipid membranes and liquid crystals using specialized x-ray scattering measurements. He has discovered novel structures of lipid membranes some of which disproved long-standing theoretical predictions. It is remarkable that he has also contributed significantly to a theoretical understanding of many of these systems.

Mangalampalli Ravikanth (*b* 04.06.1966), PhD, Professor, Department of Chemistry, Indian Institute of Technology Bombay, Mumbai.

Professor Mangalampalli Ravikanth has made significant contributions to core-modified porphyrin chemistry through development of synthetic methods for functionalized core-modified porphyrins and porphyrin arrays that mimic photonic wires. He has also made noteworthy explorations to BODIPY chemistry.

Manjula Nallamala Reddy (*b* 06.02.1965), PhD, Scientist, CSIR- Centre for Cellular and Molecular Biology, Hyderabad.

Dr Manjula Nallamala Reddy has made sustained and pioneering contributions to the studies on microbial genetics and physiology. Her research on the highly redundant system of bacterial cell-wall synthesis has provided ground breaking insights on cell growth. The findings are significant as they can be leveraged for the development of newer classes of antibiotics.

Rahul Roy (*b* 24.10.1959), PhD, Professor, Indian Statistical Institute, New Delhi.

Professor Rahul Roy has made novel contributions in the areas of continuum percolation, stochastic geometry and random graphs. His contributions have settled several long standing conjectures in statistical physics. His book on Continuum Percolation is now a standard reference for researchers in probability, physics and wireless communications.

Kalachand Sain (*b* 05.02.1964), PhD, Director, Wadia Institute of Himalayan Geology, Dehradun.

Dr K Sain has made decades of sustained research on Gas Hydrates in the country, has established a world class facilities for inversion modelling and for interpretation of geophysical data including 2D- full waveform tomography for wide angle seismic data. He established neural network based approach for interpretation of sub surface geophysical features. He also characterized gas hydrate reservoirs, in the Krishna-Godavari, Mahanadi and Andaman basins and used seismic data to estimate critical parameters of porosity, permeability and pore pressure. These were later verified by drilling and coring.

Mahesh Sankaran (*b* 10.02.1967), PhD, Professor, National Centre for Biological Sciences, Tata Institute of Fundamental Research, Bengaluru.

Professor Mahesh Sankaran has provided a new framework for hitherto misunderstood functioning of savanna ecosystems across the world. He identified the roles of ecological factors such as water, fire and herbivory, i.e. resources versus disturbance, in structuring savanna vegetation, and understanding how these ecosystems would respond to future global change factors especially droughts.

Garikapati Narahari Sastry (*b* 17.01.1966), PhD, Director, CSIR-North East Institute of Science & Technology, Jorhat.

Professor GS Narhari has made outstanding contributions in the area of non-covalent interactions, pi hydrogen bonds, cooperativity among non-bonded interactions, computational drug design and has initiated of the indigenous development of software - Molecular Property Diagnostic Suite.

Krishnendu Sengupta (*b* 31.03.1970), PhD, Professor, Theoretical Physics Department, Indian Association for the Cultivation of Science, Kolkata.

Professor Krishnendu Sengupta has made pioneering contributions in a varied range of areas in condensed matter physics such as non-equilibrium dynamics of quantum systems, zero bias conductance peak, fractional AC Josephson effect in topological superconductors, transport in graphene and superfluid-insulator transitions. Many of his predictions were later confirmed experimentally.

Yogesh Shouche (*b* 24.10.1960), PhD, Scientist G, National Center for Science, Pune.

Dr Yogesh Shouche is a renowned microbiologist in microbial diversity and taxonomy. He has established and curated a national culture collection of rare microbial wealth of the nation. He has pioneered work on insect microbiomes and is currently leading the Human Microbiome project in the country.

Krishna Nand Singh (*b* 12.06.1962), PhD, Professor of Organic Chemistry, Department of Chemistry, Institute of Science, Banaras Hindu University, Varanasi.

Professor KN Singh has contributed to development of innovative and inexpensive organic synthetic methodologies for important and useful structural frameworks of medicinal relevance.

Pradhyumna Kumar Singh (*b* 31.08.1968), PhD, Senior Principal Scientist, Plant Molecular Biology and Biotechnology Division, CSIR- National Botanical Research Institute, Lucknow.

Professor PK Singh has made outstanding contributions towards identification of novel molecules and approaches to control pests in field crops. His work provides a complete model, from discovering new proteins to genes, making synthetic genes to develop transgenic crop lines and their performance evaluation. Transgenic cotton lines expressing three different novel genes (*cry*, *tma12* and *msc14*) developed by his group provide next-generation insecticidal approaches for control of insect pests. His work provides rare research procedures developed complete in India.

MV Padma Srivastava (*b* 07.03.1965), MD, DM, Professor, Department of Neurology, CN Centre, All India Institute of Medical Sciences, New Delhi.

Professor Padma Srivastava is a neurologist. She setup and implemented the National Stroke Registry and the National Programme for Prevention and Control of Cancers, Diabetes, Cardiovascular Diseases and Strokes. At AIIMS, she started hyperacute reperfusion strategies and contributed to a comprehensive epilepsy programme that raised the bar for clinical and public health management of these conditions in India. Driving change in the health administration in India is not simple, and Professor Srivastava's efforts as a researcher translating her findings into policy have made a huge impact to the management of common neurological problems appropriately and at scale.

Sachchida Nand Tripathi (*b* 24.07.1971), PhD, Professor, Department of Civil Engineering, Indian Institute of Technology, Kanpur, Kanpur.

Professor Sachchida Nand Tripathi has made his outstanding and innovative contributions to modelling, measurement and analysis of aerosols, fog and clouds; measurements of brown carbon refractory indices, and in aerosol-cloud interactions over the Indian monsoon region.

Sudhanshu Vрати (*b* 19.03.1960), PhD, Executive Director, Regional Centre for Biotechnology, Faridabad.

Professor Sudhanshu Vрати, has made outstanding contributions to studies on the biology and pathogenesis of Japanese Encephalitis Virus, developed viral vectors for vaccine research and a candidate vaccine for JEV, which was licensed to an Indian company. He also established the first cGLP-compliant facility in an Indian academic institution to test vaccine efficacies, and developed validated assays for clinical development of the Rotavirus vaccine - the first licensed vaccine to be indigenously developed in India.

Om Parkash Yadav (*b* 16.05.1963), PhD, Director, ICAR- Central Arid Zone Research Institute, Jodhpur.

Professor OP Yadav, has made consistent contributions to the understanding of strategies for crop breeding for water stressed, dryland environments. He identified a number of breeding materials and released nearly 12 widely grown cultivars of pearl millet and maize. He developed two pearl millet hybrids based on male sterility and restorer system and six single cross hybrids of maize, suitable for different agroclimatic zones. His work also identified lines of maize for charcoal rot resistance and introgressed in QPM background.

Chittaranjan Sakarlal Yajnik (b 31.01.1952), MD, Director, KEM Hospital Research Centre, Pune.

Professor Chittaranjan Yajnik has made outstanding contributions towards understanding the high susceptibility of Indians to diabetes and related disorders. His discoveries have led to a change in thinking about the aetiology of type 2 diabetes. While previously considered a ‘degenerative’ condition, his work has highlighted the important component of ‘reduced capacity’ caused by impaired early development. This work has brought a major change in public health attitudes and policies for care during pregnancy. He is internationally acclaimed for his description of the ‘thin-fat’ Indian, which describes the fact that though not obese by international criteria, Indians have high percent of body fat. Professor Yajnik has demonstrated a possible role for maternal micronutrient nutrition in its aetiology. This has placed Indian science on the world map of understanding, mitigating and managing diabetes.

FOREIGN FELLOWS ELECTED – 2020

(Effective from 01 January 2021)

Utpal Banerjee (*b* 19.12.1957), Professor, Department of Molecular, Cell and Developmental Biology, Professor, Department of Biological Chemistry, Co-Director, Broad Stem Cell Research Center and HHMI Professor, University of California, Los Angeles, 610 Charles E Young Drive East, Los Angeles, California 90095 USA.

Professor Utpal Banerjee has made fundamental discoveries in molecular and developmental genetics. He identified a gene ‘son of sevenless’ (or Sos) which proved to be the first example for a guanine nucleotide Exchange Factor in higher eukaryotes. He has also studied linkages between ATP, oxidative stress, cell cycle checkpoints and oncogenic pathways during development.

Jeffrey Lynn Bennetzen (*b* 22.05.1952), Giles Professor, Georgia Research Alliance Eminent Scholar and Professor, Department of Genetics, University of Georgia, Athens, GA 30602, USA.

Professor JL Bennetzen is a leader in plant genomics, genome organization and plant microbe interactions. He was the first to clone a plant transposable element (TE), discovered preferential insertion of TE into genic region and co-discovered the TE epigenetic regulation associated with DNA methylation.

Michael W Bevan (*b* 05.06.1952), Project Leader, Genes in the Environment, John Innes Centre, Norwich Research Park, Norwich NR4 7UH, UK.

Professor Bevan’s work has laid the foundations of modern day plant molecular biology and genetics. He pioneered plant transformation and expression technologies, developing the most widely used vector and gene expression systems. He initiated and led the multi-national efforts to sequence the first plant genome - Arabidopsis and Brachypodium genomes, which provide key foundations for plant biology.

Akkihebbal Ramaiah Ravishankara (*b* 16.11.1949), University Distinguished Professor, Colorado State University, Fort Collins, CO 80523, USA.

Professor Ravishankara has made pioneering contributions to the chemistry of the stratospheric ozone depletion, climate change, and regional air quality. His measurements in the laboratory and in the atmosphere along with model calculations have contributed to deciphering the ozone layer depletion, including the ozone hole; to quantifying the role of chemically active species on climate; and to advancing understanding of the formation, removal, and properties of air pollutants.

Rashid A Sunyaev (*b* 01.03.1943), Professor of Astrophysics, Max Planck Institute for Astrophysics, Kari-Schwarzschild-Str. 1, 85748 Garching, Germany and Space Research Institute (IKI) of Russian Academy of Sciences, 84/32 Profsoyuznaya Street, 117997, Moscow, Russia.

Professor Sunyaev has done pioneering work in the fields of theoretical astrophysics, X-ray astronomy and cosmology. He, along with Zeldovich, developed the theory of primordial perturbations propagating soon after the Big Bang. Later with Shakura, he developed a model for the accretion of matter onto a black hole. The Shakura-Sunyaev model proved to be very influential and is now widely regarded to be the key theoretical cornerstone for black hole studies.

FELLOWSHIP–SECTIONAL COMMITTEEWISE (up to 2020)

SECTIONAL COMMITTEE-I

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

Total Fellows: 74

<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
Gurjar RV	Algebraic Geometry
Hans-Gill RJ	Geometry of Numbers, Number Theory, Discrete Geometry
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
Kunnath S	Partial Differential Equations

Name	Specialization
Mahan MJ	Hyperbolic Geometry, Geometric Group Theory, Topology of Varieties
Misra G	Operator Theory
Mukerjee R	Statistics (Design of Experiments, Asymptotic Theory, Survey Sampling)
Mukunda N	Mechanics, Optics, Mathematical Physics
Munshi R	Number Theory
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
Sharan Maithili	Applied Mathematics: Atmospheric Science: Air Pollution
Sharma VD	Quasilinear Systems of Hyperbolic Partial Differential Equations and Nonlinear Wave Phenomena
Shorey TN	Number Theory

Name	Specialization
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: 131

Agarwal GS	Quantum Optics, Nano Photonics, Plasmonics
Agrawal BK	Condensed Matter Physics, Nanostructures and Superconductivity
Ananthkrishnan 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)

Name	Specialization
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
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
Choudhury 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, Statistical 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)

<i>Name</i>	<i>Specialization</i>
Jha SS	Solid State Physics and Optoelectronics
Jog CJ	Astrophysics of Galaxies
Joshi PS	Gravitation Theory and Cosmology
Joshipura 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
Krishnamurthy M	Atomic, Molecular, Optical and Plasma Physics
Kulkarni SK	Nanotechnology, Materials Science, Surface Science
Lakshmanan M	Nonlinear Dynamics & Theoretical 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, Gravitational Physics and Non-equilibrium Phenomena
Mathews PM	Geodynamics, Relativistic Fields and Stochastic Processes
Mathur D	Atomic, Molecular and Optical Sciences, 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

Name	Specialization
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
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 Physics
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, Sensors, Translational Research
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
Shastry BS	Condensed Matter Theory, Statistical Mechanics
Shenoy VB	Condensed Matter Theory
Sikka SK	High Pressure, Shockwaves, Neutron Diffraction & Energy Bands
Simon R	Classical and Quantum Optics, Foundations of Quantum Mechanics and Quantum Information Theory

<i>Name</i>	<i>Specialization</i>
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
Srivastava CM	Ferromagnetic Relaxation & Superconductivity
Srivastava DK	Theoretical Nuclear Physics
Srivastava ON	Physics of Materials, Hydrogen Energy, Nano Science & Technology
Subramanian K	Astronomy and Astrophysics
Suresh KA	Soft Condensed Matter (Physics of Liquid Crystals and Surface Science)
Trivedi SP	String Theory and Particle Physics and Cosmology
Venkataraman G	Condensed Matter Physics
Verma MK	Turbulence, Plasma Physics, Nonlinear Dynamics
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: 124

<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

Name	Specialization
Basavaiah D	Organic Chemistry: Baylis-Hillman Chemistry and Chiral Catalysis
Baskaran S	Synthetic Organic Chemistry
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 Thomas K	Physical Chemistry, Photochemistry, Photophysics and Material Science
Ghosh HN	Chemistry
Ghosh S	Synthetic Organic Chemistry

Name	Specialization
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-Protic 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
Khetrapal CL	Chemical Physics, Spectroscopy & NMR
Kotha 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
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

Name	Specialization
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
Natarajan S	Inorganic Materials Chemistry
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
Ramasesha SS	Theoretical Chemistry
Ranu BC	Organic Synthesis, Green Chemistry
Rao CNR	Solid State and Materials Chemistry
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
Sankararaman S	Organic Chemistry, Synthetic & Mechanistic Organic Chemistry

Name	Specialization
Sathyamurthy N	Theoretical Chemistry, 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 Development
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

Name	Specialization
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

Name	Specialization
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 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
Krishnan R	Atmospheric and Climate Science
Lakhina GS	Geomagnetism and Atmospheric Sciences
Mahajan KK	Radio, Atmospheric and Space Sciences
Mandal N	Structural Geology and Tectonics
Merh SS	Structural Geology, Quaternary 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 Paleoceanography
Padmanabhan J	Solarwind, Space Weather, Solar Radio Studies, Solar Magnetic Fields, Comets
Parthasarathy G	Earth and Planetary Science, Mineralogy, High-Pressure Mineral Physics, Nanogeoscience, Condensed Matter Physics, Materials Science, Environmental 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

Name	Specialization
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 and Trace Gases, Air Quality and Climate
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 & Paleoceanography
Srinivasan R	Precambrian Geology, Sedimentation & Structure
Srivastava DC	Structural Geology, Precambrian Geology and Fluid-inclusions
Tandon SK	Physical Stratigraphy, Quaternary Geology, Fluvial Sedimentology and River Science

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: 98

Name	Specialization
Arunachalam VS	Energy Systems and Development, Science, Technology & Public Policy, Materials Science & Engineering, Defence Technologies
Balakrishnan N	Information Security, Complex Networks, Computational Electromagnetics, Polarimetric and Doppler Radars

Name	Specialization
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, Microfluidics
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 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

<i>Name</i>	<i>Specialization</i>
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	Solid & 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
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
Mehta NB	Wireless Communications
Mitra S	Machine Learning, Data Science, Deep Learning, Medical Imaging, Bioinformatics
Mittal S	Unsteady Aerodynamics, Finite Elements, High Performance Computing
Munjjal ML	Technical Acoustics, Industrial Noise Control, Automotive Noise Control
Narahari Y	Computer Science and Electronic Commerce, Game Theory
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, Machine Learning, and Artificial Intelligence
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, Data Science and Deep Learning
Pandit AB	Chemical Engineering, Design of Multiphase Reactors, Bubble Dynamics and Cavitation Phenomena

Name	Specialization
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, Meso-mechanics, 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

Name	Specialization
Vidyasagar M	Machine Learning, Control Theory, Statistical Learning Theory, Computational Biology
Vijay Kumar P	Electrical Communication Engineering: Error-Correcting Codes, Wireless
Viswanadham N	Global Supply Chain Ecosystems, Logistics, Platform Business Models, Resilience in Business Ecosystems
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: 15

Name	Specialization
Chaplot SL	Condensed Matter Physics
Chattopadhyay A	Chemical 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
Jasra RV	Catalysis, Adsorption, Petrochemicals, R&D Leadership, NanoPorous Materials
Jayakrishnan A	Polymer Chemistry, Biomaterials
Kanjilal D	Material Sciences & Engineering, Condensed Matter Physics, Accelerator Physics
Malhotra BD	Advanced Soft Electronic Materials including Nano-Materials, Self-Assembled Monolayers, Langmuir-Blodgett Films, Hydrogels Conducting Polymers, Microfluids, Biofuel Cells, Sensors, Biosensors 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 Electrochemistry (Interfacial Chemistry)
Sharma SM	Materials Behavior under High Pressures and Development of Synchrotron Beamlines
Sundar CS	Materials Science and Condensed Matter Physics, Positron Annihilation Spectroscopy

SECTIONAL COMMITTEE-VII

Plant Sciences: *Taxonomy, Structure, Function, Physiology, Development, Genetics, Ecology and Evolution of Plants*

Total Fellows: 67

Name	Specialization
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
Chakraborty S	Biology of Plant Virus Interactions
Chattopadhyay D	Plant Biology, Plant Genomics
Chattopadhyay S	Plant Sciences (Developmental Biology
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	Heat Stress Responses of Plants
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
Malik CP	Cytogenetics, Molecular Plant Physiology and Environmental Science, Biotechnology, Nanotechnology
Meher-Homji VM	Ecology, Bio-climatology, Plant Geography
Mukherjee SK	Plant Molecular Biology
Nath U	Leaf Morphogenesis
Palni LMS	Plant Physiology & Biotechnology, Plant-Microbe Interactions, Himalayan Issues

<i>Name</i>	<i>Specialization</i>
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	Algology, Environmental & Agricultural Microbiology, Molecular Biology
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
Singla-Pareek SL	Plant Stress Biology and Crop Biotechnology
Sinha AK	Plant Physiology and Molecular Biology
Sonti RV	Pathogen-plant interactions
Sopory SK	Molecular Plant Physiology
Srinivasan MC	Mycology, Industrial Microbiology & Enzyme Technology
Tripathy BC	Plant Physiology, Plant Biotechnology
Tuteja N	Plant Molecular Biology, Plant and Animal Biotechnology, Agriculture, DNA/RNA Helicases, Plant Abiotic and Biotic Stress Tolerance, Plant-Microbes Interactions
Tyagi AK	Plant Biology

Name	Specialization
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
Vijayaghavan 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: 67

Name	Specialization
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
Gadagkar R	Animal Behaviour, Ecology and Evolution
Galande SA	Chromatin Biology
Garg LC	Infectious Diseases, Gene Expression, Vaccine Development
Hasan Gaiti	Molecular Genetics, Intracellular Calcium Signalling and Neurobiology
Inamdar MS	Stem Cell Biology, Cardiovascular Development, Hematopoiesis, Angiogenesis
Jairajpuri MS	Nematology, Parasitology Taxonomy, Biological Diversity
Joshi A	Evolutionary Genetics and Population Ecology

Name	Specialization
Joy KP	Neuroendocrinology, Reproductive Endocrinology
Kamboj VP	Drug/Vaccine Development, 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
Ramakrishnan U	Molecular Ecology, Population Genetics, Conservation Biology
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
Senthilkumaran 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

Name	Specialization
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

SECTIONAL COMMITTEE-IX

Microbiology and Immunology: *Biology of Viruses, Bacteria and Parasites, Microbial Genetics and Genomics, Immunology*

Total Fellows: 24

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
Khosla S	Epigenetics, Host-pathogen Interaction
Malhotra P	Parasitology and Protein Biochemistry
Mitra Debashis	Molecular Virology and Molecular Immunology

Name	Specialization
Mukhopadhyay S	Immunology and Infection Biology
Nandicoori VK	Microbiology, Molecular Biology and Cell Signalling
Qadri Ayub	Immunology
Ramamurthy T	Microbiology and Molecular Microbiology
Saha B	Immunology
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: 99

Name	Specialization
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	Chemical Biology 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

Name	Specialization
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 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
*Dhawan J	Biology of Quiescent Adult Stem Cells
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
Kannan KK	Macromolecular Crystallography, 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

Name	Specialization
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
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

<i>Name</i>	<i>Specialization</i>
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, X-ray Crystallography, 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: 86

<i>Name</i>	<i>Specialization</i>
Acharya SK	Gastro Enterology, Hepatology
Agarwal KN	Paediatrics – Nutrition Growth & Development

Name	Specialization
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, Molecular Medicine and Drug Repurposing
Bhandari Nita	Nutrition, Child Health, Vaccinology
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
Chatterjee M	Immunopharmacology, Leishmania Biology
Chaturvedi UC	Medical Microbiology, Virology, Immunology
Chawla-Sarkar M	Molecular Virology
Chowdhury A	Health Sciences: Hepatology
Das BC	Molecular Cancer & Stem Cell Biology, Tumor 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
Garg PK	Medicine, Gastroenterology, Pancreatology
Ghosh A	Molecular Biology of <i>Vibrio cholerae</i>
Giri AK	Genetic Toxicology, Environmental Mutagenesis and Human Genetics and Genomics, Monitoring of Human Population Exposed to Environmental Mutagens and Carcinogens

Name	Specialization
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

<i>Name</i>	<i>Specialization</i>
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 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
Wani MR	Bone Remodeling and Regenerative Medicine

SECTIONAL COMMITTEE-XII

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

Total Fellows: 55

<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

Name	Specialization
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
Gupta RK	Soil Science, Land Reclamation, Irrigation Water Quality and Conservation Agriculture
Husain A	Plant Pathology
Joshi AK	Agricultural Sciences
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
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
Siddiq EA	Genetics & Plant Breeding
Singh AK	Genetics and Molecular Breeding in Rice
Singh Bijay	Soil Fertility and Chemistry

<i>Name</i>	<i>Specialization</i>
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
Trivedi PK	Plant Molecular Biology and Biotechnology
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

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: 09*

<i>Name</i>	<i>Specialization</i>
Gupta AK	Inclusive, Frugal and Grassroots Innovation, Institution Building, Sustainable Agriculture, Technological, Educational, Institutional Innovations, Public Policy
Hamied YK	Steroid Chemistry, Applied Organic Chemistry
Harinarayana K	Aeronautical Engineering
*Narain S	Environment, Sustainable Development, Public Policy, Science Outreach
*Nayak S	Earth Sciences
Raina Dhruv	History and Philosophy of Science
Ramasubramanian K	Non-linear dynamics and Chaos, Indian Astronomy and Mathematics, Advaita Vedanta
Sivan K	Aerospace Engineering, Space Transportation Systems Engineering
Suresh BN	Control Systems, Actuation Systems, Simulation, Launch Vehicle, Design, System Engineering, Mission Planning and R & D Management

FELLOWSHIP – SECTIONAL COMMITTEEWISE

(from 2021)

SECTIONAL COMMITTEE - I

Mathematical Sciences: *Applied Mathematics, Pure Mathematics, Theoretical Computer Science, Statistics and Operations Research*

Total Fellows: 4

<i>Name</i>	<i>Specialization</i>
Bhattacharyya T	Functional Analysis
Ghate EP	Mathematics (Number Theory)
Nitsure Nitin	Mathematics
Roy Rahul	Mathematics

SECTIONAL COMMITTEE – II

Physics: *Astronomy, Astrophysics, Nuclear and High Energy Physics, Atomic, Molecular and Optical Physics, Statistical Physics, Theoretical Physics, Mathematical and Computational Physics, Condensed Matter including Soft, Liquids and Nano Materials, Cosmic Radiation, Cosmology, Space Physics, Basic Planetary Sciences, Lasers and Optoelectronics, Plasma Physics, Solar Physics, Atmospheric Physics*

Total Fellows: 4

<i>Name</i>	<i>Specialization</i>
Dhar Abhishek	Statistical Physics
Minwalla SN	Theoretical Physics (Gravity, Quantum Field Theory, String Theory)
Raghunathan VA	Soft Condensed Matter Physics
Sengupta K	Theoretical Condensed Matter Physics

SECTIONAL COMMITTEE – III

Chemistry: *Analytical Chemistry, Inorganic Chemistry, Organic Chemistry, Physical Chemistry, Theoretical and Computational Chemistry, Structural Chemistry, Chemistry of Materials, Medicinal and Pharmaceutical Chemistry, Bio-organic, Bio-inorganic and Bio-physical Chemistry*

Total Fellows: 4

<i>Name</i>	<i>Specialization</i>
Ghosh Pradyut	Inorganic and Supramolecular Chemistry
Ravikanth M	Inorganic Chemistry
Sastry GN	Computational Chemistry, Theoretical Chemistry, Computer-aided Drug Design, Machine Learning & Data Science
Singh KN	Organic Chemistry

SECTIONAL COMMITTEE – IV

Earth & Environmental Sciences: *Surface and Solid Earth Science, Applied Atmospheric Chemistry and Physics, Climate Sciences, Meteorology, Geo Engineering, Ocean Sciences, Geo Sciences and Applied Planetary Sciences*

Total Fellows: 3

<i>Name</i>	<i>Specialization</i>
Jayananda M	Petrology, Solid Earth Geochemistry and Tectonics
Sain Kalachand	Inversion, Modeling, Advanced Processing & Interpretation of Seismic Data, Machine Learning for Gas-hydrates, Basin Evolution, Geo-tectonics and Earthquake Processes
Tripathi SN	Atmospheric Sciences, Planetary Atmospheres, Aerosol and Cloud

SECTIONAL COMMITTEE – V

Engineering & Technology: *Electrical Engineering, Telecommunication Engineering, Electronics and Optoelectronics, Chemical Engineering, Civil Engineering, Environmental Engineering, Mechanical Engineering, Aeronautical Engineering, Metallurgical Engineering, Computer Science and Engineering including Software and Data science, Information Science and Technology, Advanced Materials (such as Bio-materials, Hybrid Materials and Nano Materials), Polymer Science & Engineering*

Total Fellows: 4

<i>Name</i>	<i>Specialization</i>
Agarwal Vivek	Power Electronics
Ayappa KG	Chemical Engineering

Haritsa JR

Computer Science (Database Systems)

Mahapatra Souvik

Microelectronics and VLSI, Nanoelectronics

SECTIONAL COMMITTEE – VI

General Biology: *Taxonomy, Structure, Ecology, Environmental Biology, Evolution and Behaviour of Plants, Animals and Microbes including Unicellular Eukaryotes*

Total Fellows: 2

Name

Specialization

Sankaran Mahesh

Ecology

Shouche Yogesh

Microbial Diversity, Human Microbiome, Microbial Taxonomy

SECTIONAL COMMITTEE – VII

Molecular and Cellular Biology: *Cell Biology, Physiology, Development, Genetics, Genomics and other Omics of Plants, Animals and Microbes including Unicellular Eukaryotes*

Total Fellows: 5

Name

Specialization

Chatterjee S

Molecular Microbiology, Quorum Sensing, Plant-Microbe Interaction

Laxmi Ashverya

Plant Physiology and Molecular Biology

Mukhopadhyay A

Molecular Genetics of Aging

Pucadyil Thomas

Biochemistry, Cell Biology

Reddy Manjula Nallamala

Biological Sciences, Microbial Biology

SECTIONAL COMMITTEE – VIII

Biomolecular, Structural Biology and Drug Discovery: *Biochemistry, Biophysics, Molecular Biology, Pharmacology, Structural Biology, Bioinformatics, Computational Biology, System Biology*

Total Fellows: 5

Name

Specialization

Batra JK

Biochemistry, Molecular Biology

Bhattacharyya SN

Molecular Cell Biology

Habib Saman

Malaria Parasite Biology, Human Genetic Factors and Malaria Susceptibility

Nagaraju Ganesh DNA Damage Responses, Cell Biology and Cancer Biology

Raghava GPS Bioinformatics

SECTIONAL COMMITTEE – IX

Health Sciences: *Basic and Clinical Medical Sciences—Communicable and Non-communicable Diseases, Epidemiology, Anthropology, Psychology, Cognitive and Neurosciences, Medical Genetics and Genomics, Public Health, Nutrition, Immunology*

Total Fellows: 4

<i>Name</i>	<i>Specialization</i>
Awasthi Shally	Pediatrics
Srivastava MVP	Medicine (Neurology)
Vrati Sudhanshu	Virology, Vaccinology
Yajnik CS	Medicine (Diabetologist)

SECTIONAL COMMITTEE – X

Agricultural Sciences: *Agriculture, Horticulture, Forestry, Fisheries, Food Science, Veterinary Science, Pathogen Biology and Host Pathogen Interaction Both Plant and Veterinary Importance*

Total Fellows: 2

<i>Name</i>	<i>Specialization</i>
Singh PK	Crop Genetic Engineering
Yadav OP	Plant Breeding

LOCAL CHAPTERS AND CONVENERS

S. No.	Local Chapter	Present Convener	Convener from April 1, 2021 to 31 March, 2024
1	Ahmedabad <i>(All Fellows in Gujarat and Rajasthan)</i>	ShyamLal	Pankaj S Joshi
2	Bengaluru <i>(All Fellows in Karnataka)</i>	Renee M Borges	Prof Maneesha Inamdar
3	Bhubaneswar <i>(All Fellows in Odisha and Bihar)</i>	TK Adhya	TK Adhya
4	Chandigarh <i>(All Fellows in Chandigarh, Haryana, HP, J&K and Punjab)</i>	Anand Kumar Bachawat	Anand Kumar Bachawat
5	Chennai <i>(All Fellows in Tirupati and Tamil Nadu except Madurai, Karaikudi and Trichy)</i>	BS Murty	Sundarababu Baskaran
6	Delhi <i>(All Fellows in Agra, Aligarh, Bhopal, Delhi, Ghaziabad, Gurugram, Gwalior, Meerut, Noida and Sagar)</i>	Subrata Sinha	Niranjan Chakraborti
7	Hyderabad <i>(All Fellows in Andhra Pradesh)</i>	S Chandrasekhar	Subeer S Majumdar jointly with Rakesh Kumar Mishra
8	Kanpur <i>(All Fellows in Kanpur)</i>	JK Bera	Prof JK Bera
9	Kharagpur <i>(All Fellows in Durgapur, Kharagpur)</i>	Anindya Sarkar	Amit Basak
10	Kolkata <i>(All Fellows in Burdwan, Jadanpur, Kalyani, Kolkata and Shillong)</i>	HK Majumder	HK Majumder
11	Lucknow <i>(All Fellows in Lucknow, Nainital, Pantnagar and Ranikhet)</i>	TK Kundu	Saman Habib
12	Madurai <i>(All Fellows in Karaikudi, Madurai, Puducherry and Trichy)</i>	Dr K Veluthambi	Dr K Veluthambi
13	Mumbai <i>(All Fellows in Mumbai and Indore)</i>	G Ravindra Kumar	G Ravindra Kumar
14	Pune <i>(All Fellows in Ahmednagar, Aurangabad, Goa and Pune)</i>	Anil Kumar	Anil Kumar
15	Thiruvananthapuram <i>(All Fellows in Kerala)</i>	A Ajayaghosh	JN Moorthy
16	Varanasi <i>(All Fellows in Allahabad, Azamgarh, Gorakhpur and Varanasi)</i>	Debabrata Dash	Maya Shankar Singh

COMMITTEES

(A) Ex-officio Membership by Officers

- (1) THE PRESIDENT, by rule, presides over all the Committees which he/she 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 2021

A. Infrastructure and Informatics

Professor Chandrima Shaha, *President (Chairperson)*
Professor V Chandrasekhar, *Vice-President*
Professor Amit Ghosh, *Vice-President*
Professor Gaiti Hasan, *Vice-President*
Professor JP Khurana, *Vice-President*
Professor DV Khakhar, *Vice-President*
Professor Subrata Sinha, *Vice-President*
Professor Madhu Dikshit
Professor Dinakar Kanjilal
Professor V Ramgopal Rao

B. Resource Management

Professor Chandrima Shaha, *President (Chairperson)*
Professor V Chandrasekhar, *Vice-President*
Professor Amit Ghosh, *Vice-President*
Professor Gaiti Hasan, *Vice-President*
Professor JP Khurana, *Vice-President*
Professor DV Khakhar, *Vice-President*
Professor Subrata Sinha, *Vice-President*
Professor Alok Bhattacharya
Professor Dinakar Kanjilal
FA, DST
Nominee of Secretary, DST

C. Publication Advisory Board

Professor Chandrima Shaha, *President (Chairperson)*
Professor V Chandrasekhar, *Vice-President*
Professor Amit Ghosh, *Vice-President*
Professor Gaiti Hasan, *Vice-President*
Professor JP Khurana, *Vice-President*
Professor DV Khakhar, *Vice-President*
Professor Subrata Sinha, *Vice-President*
Professor Rahul Roy, *Editor, IJPAM*
Professor Sanjay Puri, *Editor, Proceedings*
Professor K Ramasubramanian, *Editor, IJHS*
Professor DM Banerjee, *Editor, BM*
Professor D Balasubramanian
Professor Amitabh Joshi
Professor SC Lakhota
Professor KL Sebastian

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

Professor Rahul Roy, *Editor*
 Professor Manindra Agrawal (Kanpur)
 Professor Arvind Ayyer (Bengaluru)
 Professor Gurmit Bakshi (Chandigarh)
 Professor BVR Bhat (Bengaluru)
 Professor Indranil Biswas (Mumbai)
 Professor NM Bujurke (Dharwad)
 Professor Sameer Chavan (Kanpur)
 Professor SG Dani (Mumbai)
 Professor Eknath Ghate (Mumbai)
 Professor Sudhir Ghorpade (Mumbai)
 Professor GD Veerappa Gowda (Bengaluru)
 Professor Sanoli Gun (Chennai)
 Professor RL Karandikar (Chennai)
 Professor Apoorva Khare (Bengaluru)
 Professor Dinesh Khurana (Chandigarh)
 Professor N Mohan Kumar (USA)
 Professor Debasish Kundu (Kanpur)
 Professor EK Narayanan (Bengaluru)
 Professor Tony Puthenpurkal (Mumbai)
 Professor Jaikumar Radhakrishnan (Mumbai)
 Professor KN Raghavan (Chennai)
 Professor CS Rajan (Mumbai)
 Professor Ravi A Rao (Mumbai)
 Professor TSSRK Rao (Bengaluru)
 Professor K Sandeep (Bengaluru)
 Professor SS Sane (Chennai)
 Professor Jaydeb Sarkar (Bengaluru)
 Professor Rudra Sarkar (Kolkata)
 Professor Deepayan Sarkar (Delhi)
 Professor VD Sharma (Gandhinagar)
 Professor V Srinivas (Mumbai)
 Professor B Sury (Bengaluru)
 Professor JK Verma (Mumbai)
 Professor Kaushal Verma (Bengaluru)

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

Professor Sanjay Puri, FNA (*Editor-in-Chief*)
 Professor RB Bapat (*Editor: Mathematical Sciences*)
 Professor Debashish Chowdhury (*Editor: Physical Sciences*)
 Professor Anunay Samanta (*Editor: Chemical Sciences*)
 Professor DC Srivastava (*Editor: Earth & Planetary Science*)
 Professor Suman Chakraborty (*Editor: Engineering & Technology*)
 Professor CS Sundar (*Editor: Material Science & Engineering*)
 Professor AN Lahiri Majumder (*Editor: Plant Sciences*)
 Professor Ranjan R Dighe (*Editor: Animal Science*)
 Professor Dipankar Chatterji (*Editor: Microbiology & Immunology*)

Professor SK Dhar (*Editor: Cell & Biomolecular Science*)
Professor Rentala Madhubala (*Editor: Health Sciences*)
Professor R Khanna Chopra (*Editor: Agril Sciences*)
Professor SK Apte
Professor DM Banerjee
Professor HS Balyan
Professor US Bhalla
Dr Anindita Bhadra (INUYAS)
Dr Suryasarathi Bose (INUYAS)
Professor Amalendu Chandra
Professor Sudip Chattopadhyay
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
Dr Deepak Sharma (INUYAS)
Professor Yadvinder Singh
Dr R Sowdhamini
Professor Mriganka Sur (USA)
Professor K Veluthambi

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

Professor K Ramasubramanian, (*Editor*)
Professor D Balasubramanian (Hyderabad)
Professor Paul T Craddock (UK)
Professor Michel Danino (Gandhinagar)
Dr Martin Gansten (Sweden)
Professor S Irfan Habib (Delhi)
Professor Rama Jayasundar (Delhi)
Professor Deepak Kumar (Delhi)
Professor Raymond Mercier (UK)
Professor Clemency Montelle (New Zealand)
Professor JSR Prasad (Hyderabad)
Professor Anantanarayanan Raman (Australia)
Professor Sunder Sarukkai (Bengaluru)
Professor MD Srinivas (Chennai)

Professor Michio Yano (Japan)

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 2021

A. Inter-Academy Exchange Committee

Professor Chandrima Shaha, *President (Chairperson)*
Professor V Chandrasekhar, *Vice-President*
Professor Amit Ghosh, *Vice-President*
Professor Gaiti Hasan, *Vice-President*
Professor JP Khurana, *Vice-President*
Professor DV Khakhar, *Vice-President*
Professor Subrata Sinha, *Vice-President*
Professor Debashish Chowdhury
Professor Rup Lal
Professor V Ramgopal Rao
Professor Kalidas Sen
Representative from DST

B. Advisory Committee for Science Promotion

Professor Chandrima Shaha, *President (Chairperson)*
Professor V Chandrasekhar, *Vice-President*
Professor Amit Ghosh, *Vice-President*
Professor Gaiti Hasan, *Vice-President*
Professor JP Khurana, *Vice-President*
Professor DV Khakhar, *Vice-President*
Professor Subrata Sinha, *Vice-President*
Professor Rajendra Bhatia
Professor Anil Kumar, NCL
Professor Rup Lal
Professor V Ramgopal Rao

C. Advisory Committee for Science and Society

Professor Chandrima Shaha, *President (Chairperson)*
Professor V Chandrasekhar, *Vice-President*
Professor Amit Ghosh, *Vice-President*
Professor Gaiti Hasan, *Vice-President*
Professor JP Khurana, *Vice-President*
Professor DV Khakhar, *Vice-President*
Professor Subrata Sinha, *Vice-President*
Dr Niranjana Chakraborty
Professor Debashish Chowdhury
Professor RK Kohli
Professor Rup Lal

D. Indian National Commission for History of Science

Professor Chandrima Shaha, *President (Chair)*

Professor D Balasubramanian (*Vice-Chair*)

Professor V Chandrasekhar, *Vice-President*

Professor Subrata Sinha, *Vice-President*

Professor Soumitro Banerjee

Professor AR Choudhuri

Professor Ajoy Ghatak (Delhi)

Professor Anil Kumar

Professor KC Malhotra

Professor Nibir Mandal

Dr P Ram Manohar (Kollam)

Professor K Ramasubramanian

Professor Ramakrishna Ramaswamy

Professor MS Sriram (Chennai)

Professor Vibha Tripathi

E. Research Council for History of Science

Professor D Balasubramanian, FNA (*Chair*)

Professor Michel Danino

Professor RN Iyenger (Bengaluru)

Dr John Mathew (Chennai)

Professor Kamlesh Mohan (Chandigarh)

Professor G Parthasarathy

Professor TRS Prasanna

Professor K Ramasubramanian

Professor RR Rao

Professor SK Saha (Kolkata)

Dr JN Sinha (Delhi)

Professor GC Tallur (Bengaluru)

F. Panel for Science Education

Professor Amit Ghosh, *Vice-President (Convener)*

Professor V Chandrasekhar, *Vice-President*

Professor Gaiti Hasan, *Vice-President*

Professor JP Khurana, *Vice-President*

Professor DV Khakhar, *Vice-President*

Professor Subrata Sinha, *Vice-President*

Professor Rajaram Nitynanda

Professor V Ramgopal Rao

Professor Ravi Subramanyam (Mumbai)

G. Committee for Archives

Dr Arnab Rai Choudhuri, *Chair*

Professor Subrata Sinha, *Vice-President*

Dr AK Bagh

Professor Indira Chowdhury

Professor Deepak Kumar

Dr Alok Moitra
 Professor K Ramasubramanian
 Professor Ramakrishna Ramaswamy
 Professor Venkat Srinivasan
 Professor Vidita Vaidya
 Mr Madhvendra Narayan, *Member Secretary*

H. INSA Core Committee for DST INSPIRE Programme

Professor DV Khakhar, *Vice-President (Chair)*
 Professor NV Chelapati Rao
 Professor Akhilesh Tyagi

I. INSA Teachers Award Committee

Professor Sudha Bhattacharya	2021
Professor GVR Prasad	2021
Professor Srikanth Sastry	2021
Professor Amalendu Chandra	2022
Professor Paramjit Khurana, <i>Chair</i>	2022
Professor V Ramgopal Rao	2022
Professor MJ Mahan	2023
Professor HS Mani, CMI	2023
Professor Deepak Pental	2023

J. INSA Panel on Ethics in Science

Professor Amit Ghosh, *Chair*
 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 Shobhona Sharma, *Chair*
 Professor Sudha Bhattacharya
 Professor RL Karandikar
 Professor Shobhana Narasimhan (Bengaluru)
 Professor Ramkrishna Ramaswamy
 Professor JS Tyagi

INTER-ACADEMY PANELS

A. Inter-Academy Science Education Panel

Professor MRN Murthy, *Chair*
Professor Dilip G Kanhere, *Co-Chairman* (Pune)
Professor Gadadhar Misra
Dr Suvendra N Bhattacharyya (Kolkata)
Professor Amitabha Chattopadhyay
Professor Nitin Chattopadhyay (Kolkata)
Professor Madhu Dikshit
Professor VP Dimri
Professor SK Ghosh
Professor AK Grover (Chandigarh)
Professor Paramjit Khurana
Professor Indranil Manna
Professor C Narayana (Bengaluru)
Professor Sourav Pal
Professor Dhananjai Pandey
Professor IBS Passi
Professor T Pradeep
Professor KN Raghavan (Chennai)
Professor G Rajasekaran
Professor Diptiman Sen
Professor Kalidas Sen
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, *Vice-President, 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

*1 National Committees for International Science Council (ISC) & its affiliated Unions and Committees (till December 31st, 2023)

INDIAN NATIONAL COMMITTEE FOR ISC

Professor Chandrima Shaha, President, INSA, *Chairperson*

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

Professor Amit Ghosh, Vice-President (Publications/Informatics), INSA, *Member*

Professor Gaiti Hasan, Vice-President (Fellowship Affairs), INSA, *Member*

Professor DV Khakhar, Vice-President (Science & Society), INSA, *Member*

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

Professor Subrata Sinha, Vice-President (Resource Management), 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 KVR Chary, FNA, *Chairman*

2. Professor Yogendra Sharma FNA, *Member*

3. Professor P Karthe, Biophysics Department, University of Madras, Chennai, *Member*

4. Professor Punit Kaur, Biophysics Department, AIIMS, New Delhi, *Member*

5. Professor B Padmanabhan, Biophysics Department, NIMHANS, Bengaluru, *Member*

6. Dr Ch. Mohan Rao, FNA, EC Member, IUPAB, *Member Ex-Officio*

7. Dr Madan Rao, FNA, President, IBS, *Member Ex-Officio*

II. National Committee for International Union of Crystallography (IUCr)

1. Professor B Gopal, FNA, *Chairman*

2. Dr SM Yusuf, BARC, Mumbai, *Member*

3. Professor Chandrabhas Narayana, JNCASR, Bengaluru, *Member*

4. Dr Deepti Jain, RCB, Faridabad, *Member*

5. Professor Parthapratim Munshi, Shiv Nadar University, Noida, *Member*

6. Professor Surjeet Singh, IISER, Pune, *Member*

III. National Committee for International Union of Pure & Applied Chemistry (IUPAC)

1. Professor Sandeep Verma, Secretary, SERB, New Delhi, *Chairman*

2. Professor S Natarajan, IISc Bengaluru, *Member*

3. Professor Vinod K Singh, FNA, *Member*

4. Dr A Ajayaghosh, FNA, *Member*

5. Dr Hirendra N Ghosh, FNA, *Member*

6. Dr Bipul Behari Saha, L.R. Research Laboratories, NACL Industries Limited, Hyderabad, *Member, IUPAC Bureau, Member Ex-Officio*

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

1. Professor Debashish Chowdhury, FNA, *Chairman*

2. Professor Amita Das, FNA, *Member*

3. Professor HR Krishnamurthy, FNA, *Member*

4. Professor Debajyoti Choudhury, FNA, *Member*

5. Professor Priya Mahadevan, SNBNCBS, Kolkata, *Member*

6. Dr AK Mohanty, Director, BARC, President, IPA, *Member Ex-Officio*

7. Professor KS Narayan, FNA, Chair WG 16, *Member Ex-Officio*

V. National Committee for International Astronomical Union (IAU)

1. Professor Jayaram N Chengalur, FNA, *Chairman*
2. Professor Kandaswamy Subramanian, IUCAA, Pune, *Member*
3. Professor Prateek Sharma, IISc, Bengaluru, *Member*
4. Professor Tarun Souradeep, IUCAA, Pune, *Member*
5. Professor Dipankar Bannerjee, IIA, Bengaluru, *Member*
6. Professor GC Anupama, President, ASI, *Member Ex-Officio*

VI. National Committee for International Union of Biochemistry and Molecular Biology (IUBMB)

1. Professor Amitabha Mukhopadhyay, FNA, *Chairman*
2. Professor Pradip K Chakraborti, FNA, *Member*
3. Dr R Sankaranarayanan, FNA, *Member*
4. Dr Ashok Kumar Giri, FNA, *Member*

VII. National Committee for International Union of Microbiological Societies (IUMS)

1. Dr Debashish Mitra, Director, CDFD, Hyderabad, *Chairman*
2. Dr VK Nandicoori, FNA, *Member*
3. Dr Dipsikha Chakravorty, FNA, *Member*
4. Dr Rup Lal, FNA, *Member*
5. Dr T Ramamurthy, FNA, *Member*

VIII. Joint National Committee for International Union of Geodesy & Geophysics (IUGG) & International Geographical Union (IGU)

1. Professor Archana Bhattacharyya, FNA, *Chairperson*
2. Dr G Parthasarathy, FNA, *Member*
3. Dr VM Tiwari, Director, CSIR-NGRI, Hyderabad, *Member*
4. Dr BR Arora, Engineers Enclave Ph. III, GMS Road, Dehradun, *Member*
5. Professor AP Dimri, School of Environmental Sciences, JNU, New Delhi, *Member*
6. Dr Ajay Manglik, Chief Scientist, NGRI, Hyderabad, *Member*
7. Professor N Nagabhushanam, Department of Geography, SV University, Tirupati, *Member*
8. Professor KS Krishna, FNA, *Member*
9. Professor RB Singh, Univ. of Delhi, Delhi, Secretary General & Treasurer, IGU, *Member Ex-Officio*

IX. Joint National Committee for International Union of Geological Sciences (IUGS) and International Quaternary Research (INQUA).

1. Professor Dhiraj Mohan Banerjee, FNA, *Chairman*
2. Professor Somnath Dasgupta, FNA, *Co-Chair*
3. Dr Shailesh Nayak, FNA, *Member*
4. Professor Talat Ahmad, FNA, *Member*
5. Professor Manish Mamtani, Vice Chair of IGC- Comm. on Tectonics, *Member*
6. Professor Pradeep Srivastava, Wadia Institute of Himalayan Geology, *Member*
7. Dr VM Tiwari, NGRI, *Member*
8. Dr Rahul Mohan, National Centre for Polar Research, *Member*
9. Professor Parampreet Kaur, Chandigarh University, *Member*
10. Professor Vandana Prasad, Birbal Sahni Institute of Paleosciences, *Member*
11. Dr P Chandrasekaran, Director Explorations, Oil India, *Member*
12. GSI nominee

X. National Committee for International Union of Theoretical & Applied Mechanics (IUTAM)

1. Professor Santosh Kapuria, FNA, *Chairman*
2. Professor Suman Chakraborty, FNA, *Member*
3. Professor V Kumaran, FNA, *Member*
4. Professor Ranjan Ganguli, Aerospace Engineering, IISc Bangalore, *Member*
5. Professor GP Raja Sekhar, Department of Mathematics, IIT Kharapur, *Member*

XI. National Committee for International Mathematical Union (IMU)

1. Professor Dipendra Prasad, FNA, *Chairman*
2. Professor Kaushal Verma, IISc, Bengaluru, *Member*
3. Professor Arup Bose, FNA, *Member*
4. Professor TR Ramadas, FNA, *Member*
5. Professor V Srinivas, FNA, *Member*

XII. National Committee for International Union of Nutritional Sciences (IUNS)

1. Dr R Hemalatha, NIN, Hyderabad, *Chairperson*
2. Professor Jamuna Prakash, University of Mysore, Mysore, *Member*
3. Dr Pulkit Mathur, Lady Irwin, Delhi, *Member*
4. Dr Madhavan Nair, Former Deputy Director NIN, Hyderabad, *Member*

XIII. Joint National Committee for International Union of Physiological Sciences (IUPS) & International Union of Pharmacology (IUPHAR)

1. Dr Madhu Dikshit, FNA, *Chairperson*
2. Dr Dinesh Kumar Bharadwaj, Dy. Director NIN Hyderabad, *Member*
3. Professor YK Gupta, President AIIMS, Bhopal, *Member*
4. Professor Suman Jain, Department of Physiology, AIIMS, New Delhi, *Member*
5. Professor Amar Kumar Chandra, Honorary President, The Physiological Society of India, Department of Physiology, Calcutta University Calcutta, *Member*
6. Dr C Adithan, Sri Balaji Vidyapeeth Pondy-Cuddalore Road, Pillaiyarkuppam, Pondicherry, *Member*

XIV. National Committee for International Union of Food Science and Technology (IUfoST)

1. Prof GD Yadav, FNA, *Chairman*
2. Dr PG Rao, FNASc, CSIR-Distinguished Scientist, Former Director, CSIR-NEIST and Former VC, USTM, *Member*
3. Dr KSMS Raghavarao, Director, CFTRI, *Member*
4. Dr TK Sreenivas Gopal, Emeritus Professor, Kerala Science Foundation, Kochi, *Member*
5. Dr Kumar Bhatia, Former Director, National Seed Corporation and Chief Engineer, MFPI (Formerly Ministry of Agriculture, New Delhi), *Member*
6. Dr V Prakash, IUfoST, *Member Ex-Officio*
7. President, AFSTI, *Member Ex-Officio*

XV. National Committee for Scientific Committee on Antarctic Research (SCAR)

1. Professor Naresh Pant, Delhi University, Delhi, *Chairman*
2. Dr Thamban Meloth, NCPOR, *Member*
3. Dr S Gurubaran, IIGM, Mumbai, *Member*
4. Dr Yogesh Shouche, FNA, *Member*
5. Dr Rahul Mohan, NCAOR, Goa, *Member*

XVI. National Committee for Scientific Committee on Oceanic Research (SCOR)

1. Professor Sunil Singh, FNA, *Chairman*
2. Dr SSC Shenoi, Director INCOIS Hyderabad, *Member*
3. Dr K Somasundar, Scientist G, MoES, New Delhi, *Member*
4. Dr VVSS Sarma, NIO, Visakhapatnam, *Member*
5. Dr Ravi Bhushan, PRL, Ahmedabad, *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 Anil Bharadwaj, FNA, *Chairman*
2. Dr A Patra, NARL, Gadanki, *Member*
3. Dr S Seetha, ISRO HQ, Bengaluru, *Member*
4. Dr Virupakshi Reddy, IIG, Navi Mumbai, *Member*
5. Dr PK Manoharan, Ooty Radio Telescope, *Member*
6. Dr Devendra Singh, IITM, Pune, *Member*

XVIII. Future Earth National Committee

1. Dr M Rajeevan, Secretary, MoES, New Delhi, *Chairman*
2. Dr Aditi Mukherji, Principal Researcher, International Water Management Institute, *Member*
3. Professor Sandeep Tambe, Indian Institute of Forest Management, *Member*
4. Dr Vandhana Prasad, Director, BSIP, Lucknow, *Member*
5. Dr S Suresh Babu, Head ATRF, Space Physics Laboratory, VSSC, Indian Space Organization, Thiruvananthapuram, *Member*
6. Dr Ravi S Nanjundiah, Director, IITM, Pune, *Member*
7. Dr Sunderrajan Krishnan, Executive Director, India Natural Resource Economics and Management Foundation, *Member*
8. Dr TR Shankar Raman, Nature Conservation Foundation, *Member*
9. Professor SK Satheesh, FNA, *Member, Ex-Officio*

XIX. National Committee for International Union of Biological Sciences (IUBS)

1. Professor RM Borges, FNA, *Chairperson*
2. Professor LS Shashidhara, FNA, President, IUBS, *Member Ex-Officio*
3. Dr RV Sonti, FNA, *Member*
4. Dr Qudia Tahseen, FNA, *Member*
5. Dr Anil Kumar Tripathi, FNA, *Member*

XX. National Committee for Committee on Data for Science and Technology (CODATA)

1. Professor Ajit Kembhavi, Former Director, IUCAA, *Chairman*
2. Professor ED Jemmis, FNA, *Member*
3. Dr Usha Munshi, IIC, New Delhi, *Member*
4. Dr Neeta Verma, NIC, 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 – 2021

SECTIONAL COMMITTEE I: Mathematical Sciences (*Applied Mathematics, Pure Mathematics, Theoretical Computer Science, Statistics and Operations Research*)

Balaji Vikraman (<i>Secretary & Convener</i>)	2021	Biswas Indranil	2022
		Khanduja SK	2022
Bose Arup	2021	Joseph KT	2023
Natarajan Saradha	2021	Radhakrishnan J	2023
Bapat RB	2022	Sinha KB	2023

SECTIONAL COMMITTEE II : Physics (*Astronomy, Astrophysics, Nuclear and High Energy Physics, Atomic, Molecular and Optical Physics, Statistical Physics, Theoretical Physics, Mathematical and Computational Physics, Condensed Matter including Soft, Liquids and Nano Materials, Cosmic Radiation, Cosmology, Space Physics, Basic Planetary Sciences, Lasers and Optoelectronics, Plasma Physics, Solar Physics, Atmospheric Physics*)

*Dighe Amol	2021	Gopakumar Rajesh	2022
Ravindra Kumar G	2021	Joshi PS	2023
Sinha Sudeshna	2021	Krishnamurthy HR	2023
Chaddah Praveen	2022	(<i>Secretary & Convener</i>)	
Dhar Deepak	2022	Rindani SD	2023

SECTIONAL COMMITTEE III : Chemistry (*Analytical Chemistry, Inorganic Chemistry, Organic Chemistry, Physical Chemistry, Theoretical and Computational Chemistry, Structural Chemistry, Chemistry of Materials, Medicinal and Pharmaceutical Chemistry, Bio-organic, Bio-inorganic and Bio-physical Chemistry*)

Jemmis ED	2021	George Thomas K	2022
Murugavel Ramaswamy	2021	Ghosh Subrata	2022
Verma Sandeep	2021	Mugesh G	2023
Chandrashekar TK (<i>Secretary & Convener</i>)	2022	Pal Sourav	2023
		Pillai VK	2023

SECTIONAL COMMITTEE IV: Earth & Environmental Sciences (*Surface and Solid Earth Science, Applied Atmospheric Chemistry and Physics, Climate Sciences, Meteorology, Geo Engineering, Ocean Sciences, Geo Sciences and Applied Planetary Sciences*)

Ahmad Talat	2021	Tandon SK	2022
**Dileep Kumar M	2021	Bhattacharyya Archana	2023
Jain AK	2021	Singhvi AK	2023
Krishnamoorthy K	2022	(<i>Secretary & Convener</i>)	
Mujumdar PP	2022	Srinivasan R	2023

* In place of Dr YP Vijoyi for the year 2021

** In place of Dr SWA Naqvi for the year 2020 and 2021

SECTIONAL COMMITTEE V : Engineering & Technology (*Electrical Engineering, Telecommunication Engineering, Electronics and Optoelectronics, Chemical Engineering, Civil Engineering, Environmental Engineering, Mechanical Engineering, Aeronautical Engineering, Metallurgical Engineering, Computer Science and Engineering including Software and Data Science, Information Science and Technology, Advanced Materials (such as Bio-materials, Hybrid Materials and Nano Materials), Polymer Science & Engineering*)

Bandyopadhyay S	2021	Borkar VS	2022
Kumaran V (<i>Secretary & Convener</i>)	2021	Manna Indranil	2022
Sen Sandeep	2021	Dey Gautam Kumar	2023
Biswas Gautam	2022	Sharma SM	2023
		Sundar CS	2023

SECTIONAL COMMITTEE VI: General Biology (*Taxonomy, Structure, Ecology, Environmental Biology, Evolution and Behaviour of Plants, Animals and Microbes including Unicellular Eukaryotes*)

Singh Mewa	2021	(<i>Secretary & Convener</i>)	
Tahseen Qudsia	2021	Siddavattam D	2022
Yadav SR	2021	Das Pijush K	2023
Ganeshaiiah KNG	2022	Sangwan Neelam S	2023
Pandit MK	2022	Sukumar R	2023

SECTIONAL COMMITTEE VII: Molecular and Cellular Biology (*Cell Biology, Physiology, Development, Genetics, Genomics and other Omics of Plants, Animals and Microbes including Unicellular Eukaryotes*)

Chakraborty Niranjana	2021	Chattopadhyay Sudip	2021
Parnaik VK	2021	Shashidhara LS	2022
Vijayraghavan Usha (<i>Secretary & Convener</i>)	2021	Balaji KN	2023
Basu Anirban	2022	Mukherjee SK	2023
		Sharma Pushkar	2023

SECTIONAL COMMITTEE VIII: Biomolecular, Structural Biology and Drug Discovery (*Biochemistry, Biophysics, Molecular Biology, Pharmacology, Structural Biology, Bioinformatics, Computational Biology, System Biology*)

Dhar SK	2021	Hasnain SE	2022
Hosur MV	2021	Tyagi AK	2022
Rao DN (<i>Secretary & Convener</i>)	2021	Gopal Balasubramanian	2023
Chakrabarti Pinakpani	2022	Sankaranarayanan Rajan	2023
		Sharma Amit P	2023

SECTIONAL COMMITTEE IX : Health Sciences (*Basic and Clinical Medical Sciences- Communicable and Non-communicable Diseases, Epidemiology, Anthropology, Psychology, Cognitive and Neurosciences, Medical Genetics and Genomics, Public Health, Nutrition, Immunology*)

Kang Gagandeep	2021	Jameel Shahid	2022
*Katoch VM	2021	Sharma SK	2022
Thangaraj Kumarasamy	2021	Dikshit Madhu	2023
Jagannathan NR	2022	Mukhopadhyay Sangita	2023
(Secretary & Convener)		Ramakrishnan BS	2023

SECTIONAL COMMITTEE X: Agricultural Sciences (*Agriculture, Horticulture, Forestry, Fisheries, Food Science, Veterinary Science, Pathogen Biology and Host Pathogen Interaction Both Plant and Veterinary Importance*)

Prasad Manoj	2021	Nautiyal CS	2022
Sangwan RS	2021	Pradhan AK	2022
Tuli Rakesh	2021	Lal Rup	2023
(Secretary & Convener)		Singh AK	2023
Joshi AK	2022	Udayakumar M	2023

* In place of Dr Amit Ghosh for the year 2021 only

ACADEMY AWARDS

The Indian National Science Academy has instituted 71 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**

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:

1. Science popularization efforts in English language by a career media personnel
2. Science popularization efforts in English language by a career scientist
3. 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

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
15. **Professor TV Desikachary Memorial Medal**
– for Biological Sciences
16. **Professor SK Joshi Memorial Medal**
– for Physical Sciences

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, honorarium of Rs. 1,00,000/- and a certificate. The award will be made annually and the number is limited to 40.

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, honorarium of Rs. 1,00,000/- 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 15 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 15 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 2022

A. INTERNATIONAL AWARDS

1. **INSA Vainu Bappu Memorial Award**
- Astronomer / Astrophysicists of international recognition
2. **Jawaharlal Nehru Birth Centenary Medal** (Nominated by President, INSA)
3. **Jagadis Chandra Bose Memorial Lecture**
- International repute in any branch of science

B. GENERAL MEDALS/ LECTURES (Nominated by President, INSA)

1. **Chandrasekhara Venkata Raman Medal**
2. **Shanti Swarup Bhatnagar Medal**
3. **Kariamanikkam Srinivasa Krishnan Memorial Lecture**

C. SUBJECTWISE MEDALS

(a) *Medal Instituted by the Academy*

1. **Srinivasa Ramanujan Medal**
- Mathematical Sciences
2. **Jagadis Chandra Bose Medal**
- Biochemistry, Biophysics, Molecular Biology & related areas
3. **Silver Jubilee Commemoration Medal**
- Agricultural Sciences
4. **Golden Jubilee Commemoration Medal**
- Chemical Sciences

(b) *Endowment Medals*

1. **Professor Brahm Prakash Memorial Medal**
- Engineering and Technology

2. **Professor K Naha Memorial Medal**
- Earth Sciences
3. **Chandrakala Hora Memorial Medal**
- Animal Sciences
4. **Professor Mihir Chowdhury Memorial Medal**
- Chemistry

(b) Endowment Lectures

1. **Professor S Swaminathan 60th Birthday Commemoration Lecture**
- Chemical Sciences
2. **Professor Darshan Ranganathan Memorial Lecture**
- Any field of Science and Technology
(for woman scientist only)
3. **Dr Biren Roy Memorial Lecture**
- Physics

Last date for receiving nominations for Awards (except nominated by President, INSA) is **October 15, 2021**.

INSA MEDAL FOR YOUNG SCIENTISTS AWARDEES – 2020

1. **Dr Shalini Agarwal** (*b* 04.05.1985), PhD, School of Life Sciences, Jawaharlal Nehru University, New Delhi.

INSA Medal for Young Scientist 2020 is given to Dr Shalini Agarwal for her research on the biology of parasites that cause morbidity and mortality – Plasmodium and Entamoeba. Her work provide novel targets for developing drugs against malaria and amoebiasis.

2. **Dr Wareed Ahmed** (*b* 19.03.1987), PhD, EPFL, Lausanne, Switzerland

INSA Medal for Young Scientist 2020 is given to Dr Wareed Ahmed for his contribution to understand the mechanism of action of topoisomerase I (Topo I), *in vivo* roles and genome regulatory mechanism of topoisomerases highlighting the importance of supercoiling and topoisomerases in mycobacterial growth, metabolism, gene expression and physiology.

3. **Dr Vaishnavi Ananthanarayanan** (*b* 23.11.1986), PhD, BSSE, Indian Institute of Science, Bangalore.

INSA Medal for Young Scientist 2020 is given to Dr Vaishnavi Ananthanarayanan for her work on Molecular cell biology of mitochondrial dynamics, distribution and inheritance in fission yeast and for insights on microtubule anchoring at the cell cortex.

4. **Dr Mithu Baidya** (*b* 06.04.1986), PhD, BSBE Department, Indian Institute of Technology, Kanpur.

INSA Medal for Young Scientist 2020 is given to Dr Mithu Baidya for his work on biochemical and structural regulation of G-protein coupled receptors (GPCRs) by beta-arrestins. With GPCRs being the target of many existing drugs, his work establishes a novel framework to fine-tune GPCR functions that might have promising therapeutic implications in the future.

5. **Dr Aditya Bandopadhyay** (*b* 26.08.1989), PhD, Department of Mechanical Engineering, Indian Institute of Technology (IIT) Kharagpur.

INSA Medal for Young Scientist 2020 is given to Dr Aditya Bandopadhyay for his theoretical studies on electrokinetic transport at the micro and nano scales, and on electrohydrodynamic phenomena at the macroscale.

6. **Dr Antara Arupkumar Banerjee** (*b* 18.06.1987), PhD, Division of Structural Biology, National Institute for Research in Reproductive Health, Mumbai.

INSA Medal for Young Scientist 2020 is given to Dr Antara Arupkumar Banerjee for her contributions in the field of human endocrinology by using site-directed mutagenesis to identify residues in the human follicle stimulating hormone receptor (FSHR) which are crucial for FSH-FSHR interaction.

7. **Dr Riddhipratim Basu** (*b* 01.08.1988), PhD, International Centre for Theoretical Sciences, Tata Institute of Fundamental Research, Bengaluru.

INSA Medal for Young Scientist 2020 is given to Dr Riddhipratim Basu for his contributions to percolation theory and stochastic growth models that are inspired by deep problems in statistical physics.

8. **Dr Sayak Basu** (*b* 25.03.1987), PhD, Department of Earth and Environmental Sciences, Indian Institute of Science Education and Research, Mohali.

INSA Medal for Young Scientist 2020 is given to Dr Sayak Basu for his stable isotope based studies Hydrology and Isotope enabled organic geochemistry to understand climatic variations and its impact on vegetation.

9. **Dr Debasish Borah** (*b* 12.09.1985), PhD, Department of Physics, IIT Guwahati

INSA Medal for Young Scientist 2020 is given to Dr Debasish Borah for his contributions to particle physics phenomenology of both supersymmetric and non-supersymmetric grand unified theories, neutrino mixing, the origin of matter-antimatter asymmetry in the universe, and the effects of dark matter in the evolution of the early universe.

10. **Dr Debojyoti Chakraborty** (*b* 28.08.1985), Ph.D, IGIB, New Delhi

INSA Medal for Young Scientist 2020 is given to Dr Debojyoti Chakraborty for his work on understanding the mechanism of gene editing by CRISPER/Cas technology and developing a gene editing technology that can be used for treatment of many diseases including rare genetic disorders and the detection of Covid-19.

11. **Dr Gourab Chatterjee** (*b* 28.03.1987), PhD, Max Planck Institute for the Structure and Dynamics of Matter (MPSD), Hamburg, Germany.

INSA Medal for Young Scientist 2020 is given to Dr Gourab Chatterjee for his contributions to complex physics of intense-laser-produced plasmas. He recreated scaled versions of astrophysical scenarios (e.g. solar wind) in the laboratory, and demonstrated the astrophysical relevance of laser-plasma instabilities and turbulent giant magnetic fields, and validated the ubiquity of turbulence. He employed novel target designs involving carbon nanotube arrays, to overcome these instabilities that are detrimental to fast electron transport and elucidated its various applications in high-energy-density science.

12. **Dr Snehasis Daschakraborty** (*b* 22.09.1985), PhD, Department of Chemistry, Indian Institute of Technology Patna.

INSA Medal for Young Scientist 2020 is given to Dr Snehasis Daschakraborty for his contributions in the area of dynamics and hydrophobicity in supercooled water.

13. **Dr Sreejith Ganesh Jaya** (*b* 10.04.1985), PhD, IISER Pune, Pune.

INSA Medal for Young Scientist 2020 is given to Dr Sreejith Ganesh Jaya for his contributions to theoretical condensed matter and statistical physics particularly in strongly correlated systems such as fractional quantum Hall systems, periodically driven spin systems, topological states in graphene, and the classical cubic dimer model.

14. **Dr Vanika Garg** (*b* 10.04.1989), PhD, ICRISAT, Hyderabad, TN

INSA Medal for Young Scientist 2020 is given to Dr Vanika Garg for her contributions to the understanding of molecular basis of *Cicer-Ascochyta* pathosystem and for developing the first gene expression atlas of chickpea. She also contributed to the genome sequencing of groundnut, pearl millet and towards identification of candidate genes for stress tolerance in legumes.

15. **Dr Shyam Sundar Ghoshal** (*b* 24.07.1985), PhD, Tata Institute of Fundamental Research Centre for Applicable Mathematics, Bangalore.

INSA Medal for Young Scientist 2020 is given to Shyam Sundar Ghoshal for his contributions in the area of conservation law with discontinuous flux by settling the question of total variation of the solution completely. He also obtained complete results for the controllability and structure of the solution profile for scalar convex conservation laws.

16. **Dr Imran Asatar Girach** (*b* 14.01.1985), PhD, Space Physics Laboratory, Vikram Sarabhai Space Centre, Indian Space Research Organisation, Thiruvananthapuram

INSA Medal for Young Scientist 2020 is given to Dr Imran Asatar Girach for his studies of atmospheric-trace-gases O₃, Co, NO_x, Methane, CH₄ etc. at various levels using ground and space based observations and modelling.

17. **Dr Ritu Gupta** (*b* 17.06.1986), PhD, Department of Chemistry, Indian Institute of Technology Jodhpur.

INSA Medal for Young Scientist 2020 is given to Dr Ritu Gupta, for developing novel materials and translating them into devices for application in energy, water and healthcare.

18. **Dr Pranjit Hazarika** (*b* 01.12.1986), PhD, Department of Geological Sciences, Gauhati University, Guwahati.

INSA Medal for Young Scientist 2020 is given to Dr Pranjit Hazarika, for his contributions to Ore-Geology, Geochemistry, and, Petrology towards understanding crustal evolution and genesis

of ore deposit e.g. the gold deposits in Dharwar Craton. He provided geochronological evolution of greenstone belt of the Dharwar craton and developed an improved analytical protocol for dating xenotime using an electron microprobe.

19. **Dr Muhammed Jamsheer K** (b 15.04.1988), PhD, Amity Food & Agriculture Foundation, Amity University, Uttar Pradesh.

INSA Medal for Young Scientist 2020 is given to Dr Muhammed Jamsheer K for his work on Control of cellular homeostasis, growth and development in a plant model by the coupled effects of Glucose sensing and nutrient signaling.

20. **Mr Kautilya Kumar Jena** (b 17.05.1989), MSc, Institute of Life Sciences, Bhubaneswar

INSA Medal for Young Scientist 2020 is given to Mr. Kautilya Kumar Jena for his contributions to understanding the molecular mechanism behind protein aggregation, formation and degradation. He provided a mechanism through which cells during the oxidative or proteotoxic stress conditions turn over the protein aggregates for improved survival. His work on pharmacological targeting of TRIM16 indicated an increase its activity, a result that will be useful in studies on neurodegeneration.

21. **Dr Shobana Kapoor** (b 24.04.1985), PhD, Department of Chemistry, Indian Institute of Technology Bombay, Mumbai.

INSA Medal for Young Scientist 2020 is given to Dr Shobana Kapoor for her biophysical studies of unusual lipids from the bacterial origin and on lipid-induced signalling pathways, with an emphasis on biotechnological applications.

22. **Dr Shraddha Madhav Karve** (b 04.05.1986), PhD, Institute of Evolutionary Biology and Environmental Studies, University of Zurich, Switzerland.

INSA Medal for Young Scientist 2020 is given to Dr Shraddha Madhav Karve for her contributions to the field of experimental evolution. She examined fitness changes in *E. coli* when exposed to multiple stressors that fluctuate unpredictably over time. Her work will help understand the evolution of antibiotic resistance in bacteria.

23. **Dr Debjit Khan** (b 07.11.1985), Ph.D, Cleveland Clinic, Cleveland, Ohio, USA.

INSA Medal for Young Scientist 2020 is given to Dr Debjit Khan, for his discoveries in understanding translational regulation of tumor protein p53 and its isoform $\Delta 40p53$. His findings additionally provide first demonstration that SNP in the 5' UTR of the p53 mRNA might have a role in translational control of this critical tumor-suppressor gene.

24. **Dr Roshan Kumar** (b 08.11.1985), PhD, NIPGR, New Delhi

INSA Medal for Young Scientist 2020 is given to Dr Roshan Kumar for his work on transgenic and antisense technologies to enhance C3 glucosinolates for improving defense against pests and pathogens in oil seed Brassica. He has carried out mechanistic studies

on G-protein isoforms and Regulator of G protein signaling and provided a detailed understanding of glucosinolate pathway.

25. **Dr Punita Kumari** (*b* 25.11.1988), Ph.D, Indian Institute of Technology Kanpur, Kanpur

INSA Medal for Young Scientist 2020 is given to Dr Punita Kumari for her contribution to understand the GPCR- β arrestin interaction, signaling, and regulatory paradigms that have promising therapeutic implications.

26. **Dr Kutubuddin Ali Molla** (*b* 22.02.1985), Ph.D, NRRI, Cuttack, Odhisa

INSA Medal for Young Scientist 2020 is given to Dr Kutubuddin Ali Molla, for his studies towards developing transgenic rice lines with Osoxo4 and chitinase genes for sheath blight resistance. He identified candidate gene based SSR markers for salt tolerance breeding in rice.

27. **Dr Kamalika Mukherjee** (*b* 18.03.1985), Ph.D CSIR-Indian Institute of Chemical Biology, Kolkata.

INSA Medal for Young Scientist 2020 is given to Dr Kamalika Mukherjee, for her contributions that elucidate selective trafficking and export of miRNA through exosomes and its control by RNA binding proteins and elucidating their implications on liver function and response to Leishmania infection.

28. **Dr Lakshmeesha Kempaiah Nagappa** (*b* 01.03.1990), Ph.D, JNCASR, Jakkur, Bangalore.

INSA Medal for Young Scientist 2020 is given to Dr Lakshmeesha Kempaiah Nagappa, for her studies on the uniqueness of Nucleotide metabolism in malarial parasite in contrast to the host. This provided a potential drug target and a conserved detoxification mechanism.

29. **Dr Prabhakar Naraga** (*b* 10.04.1986), Ph.D, Indian Institute of Technology Bombay.

INSA Medal for Young Scientist 2020 is given to Dr Prabhakar Naraga for his contributions to Structural & Metamorphic Petrology to elucidate geo-dynamic processes during the pre-Cambrian Eon and aspects of pre Cambrian tectonics.

30. **Dr Suresh Santhi Natesan** (*b* 08.06.1988), Ph.D, Centre for Brain Research, Indian Institute of Science, Bangalore.

INSA Medal for Young Scientist 2020 is given to Dr Suresh Santhi Natesan for his contribution towards elucidating the key molecular players and drug-like small molecules that gave new insights towards understanding the role of aggrephagy in neurodegenerative diseases such as Parkinson's disease.

31. **Dr Anubhab Roy** (*b* 05.01.1985), PhD, Department of Applied Mechanics, Indian Institute of Technology Madras, Chennai.

INSA Medal for Young Scientist 2020 is given to Dr Anubhab Roy for his studies towards identification of singular eigen functions in the hydrodynamic stability of vortex columns and the application of the theories of geophysical flows.

32. **Dr Sutanu Roy** (*b* 31.10.1985), Dr rer. nat., School of Mathematical Sciences, National Institute of Science Education and Research (NISER), Bhubaneswar.

INSA Medal for Young Scientist 2020 is given to Dr Sutanu Roy for his work on quantum groups and non-commutative geometry. He participated in the development of a theory of quantum group-twisted tensor products of C*-algebras and contributed to the understanding of locally compact quantum groups and their actions.

33. **Dr Nisha Singh** (*b* 02.01.1988), PhD, IARI, New Delhi

INSA Medal for Young Scientist 2020 is given to Dr Nisha Singh for developing a 50K SNP chip with highly polymorphic single copy genes for genotyping rice germplasm that has since been patented and deployed for the improvement of Pusa Basmati rice for its resistance to rice blast and in marker assisted back cross breeding programmes on introgression of genes for submergence tolerance.

34. **Dr Suraj Soman** (*b* 05.05.1986), PhD, Photosciences and Photonics Section, CSIR-NIIST, Thiruvananthapuram.

INSA Medal for Young Scientist 2020 is given to Dr Suraj Soman for his contribution towards improving efficiencies of solar cells by employing earth abundant materials as well as by optimizing their optical and electrical characteristics.

35. **Dr Kartik Sunagar** (*b* 17.03.1985), PhD, Centre for Ecological Sciences, Indian Institute of Science, Bengaluru.

INSA Medal for Young Scientist 2020 is given to Dr Kartik Sunagar, for his contributions in the field of venomics and the phylogeny of venomous animals across invertebrate and vertebrate taxa. His research redefined anti-venom therapies for venomous snakes in India by elucidating substantive geographical variation in venom components in the most venomous Indian snakes and has spearheaded the development of regional anti-venoms.

36. **Dr Chandra Sekhar Tiwary** (*b* 01.05.1986), PhD, Department of Metallurgical and Materials Engineering, Indian Institute of Technology, Kharagpur.

INSA Medal for Young Scientist 2020 is given to Dr Chandra Sekhar Tiwary, for his work on developing new classes of nanostructured engineering materials that exhibit superior properties such as gigapascal strength at high temperatures (~900°C) and outstanding oxidation resistance.

37. **Dr Himanshu Tyagi** (*b* 20.03.1985), PhD, Department of Electrical Communication Engineering, Indian Institute of Science, Bangalore.

INSA Medal for Young Scientist 2020 is given to Dr Himanshu Tyagi for his work on Information theory, including strong covers for vanishing error, two party and multi-party problems with distributed information constraint.

38. **Dr Karthik V Raman** (*b* 20.04.1985), PhD, Tata Institute of Fundamental Research Hyderabad.

INSA Medal for Young Scientist 2020 is given to Dr Karthik V Raman establishing a laboratory for frontier problems in condensed matter and interface physics and for his contributions to topological insulators, proximity effects, interface-assisted molecular spintronics, and topological superconductivity. His studies on coupling of aromatic molecules and magnetic surfaces revealed interface states and open up molecular-design initiatives to tailor spin-dependent features.

39. **Dr Hareesh VS** (*b* 07.12.1988), PhD, Department of Botany, University of Calicut, Kerala.

INSA Medal for Young Scientist 2020 is given to Dr Hareesh VS for his contributions to the systematics of plant families such as Musaceae, Rubiaceae, and Zingiberaceae that added 34 new taxa from across south- and south-east Asia, including the Andaman and Nicobar Islands.

40. **Dr Md. Ali Zinna** (*b* 04.09.1986), PhD, Department of Mathematics and Statistics, Indian Institute of Science Education and Research Kolkata.

INSA Medal for Young Scientist 2020 is given to Dr Md. Ali Zinna for his contributions to the study of projective modules including their splitting of, and efficient generation of ideals etc. His work regarding the set of isomorphism classes of (oriented) stable free modules of rank d over a commutative Noetherian ring of dimension d needs a special mention.

INSA YOUNG HISTORIAN OF SCIENCE AWARDEE – 2020

1. **Ms. Barsha Ritu Goswami** (*b* 13.02.1988), PhD Scholar, Department of Chemistry, Tejpur University, Assam (The Science and Technology of Writing and Painting of Manuscripts of Medieval Assam).

For the significant contributions made by her towards a scientific study on *Mabi*, a traditional herbal ink of medieval Assam.

INSA TEACHER AWARDEES – 2020

1. **Dr Vandana Bhalla** (*b* 27.06.1971), Guru Nanak Dev University, Amritsar.

Dr Vandana Bhalla is recommended for the INSA Teacher Award for her excellence in teaching of chemistry courses at both undergraduate and postgraduate levels including guidance of a large number of M.Sc. students for their projects and Ph.D. students for their doctoral thesis, and organization of science fairs and workshops to popularize science among students.

2. **Professor Jana Debnarayan** (*b* 01.05.1968), Department of Physics, University of Calcutta, Kolkata.

Professor Debnarayan Jana has been an inspirational teacher and an active researcher. He has motivated many students to take up research careers. He has authored several textbooks aimed at audiences from Class XI and beyond, and a large number of pedagogical articles that explain both elementary and advanced physics topics. In all, Professor Jana's career has spanned several key aspects of what constitutes motivational and inspiring teaching.

3. **Dr Gagan Dhawan** (*b* 13.08.1977), Department of Biomedical Sciences, Acharya Narendra Dev College, University of Delhi, Delhi.

Dr Gagan Dhawan is exceptionally dedicated to keep his students abreast with frontier areas of biomedical sciences; to instill in them the spirit of learning and critical thinking; and mould them for scientific research.

4. **Professor Chockalingam Jeganathan** (*b* 15.03.1971), Department of Remote Sensing BIT, Mesra, Ranchi.

Professor Jeganathan of Birla Institute of Technology, Mesra, Ranchi, has been chosen for the INSA Teacher Award, 2020, in Earth & Atmospheric Sciences in recognition of his noteworthy contributions to teaching and inspirational mentoring of students in Earth & Atmospheric Sciences.

5. **Professor Nataraj Karaba** (*b* 08.07.1967), Department of Crop Physiology University of Agricultural Sciences, Bengaluru.

Professor Nataraja Karaba has great passion for teaching. He has been teaching UG and PG advanced courses to PhD scholars since many years and is attracting many students from different disciplines even from neighboring institutes. He has made use of his research interest for inducing students to continue careers in academics and effective teaching. He is very active in popularizing science and disseminating scientific knowledge to students by visiting local schools to induce high-school and pre-university students in scientific activities. He regularly attends and participates in Krishi melas and farmer's meet to transfer the knowledge from lab to land.

6. **Professor P Dilip Kumar** (b 02.04.1965), Mechanical Engineering Department, Indian Institute of Technology Kharagpur, Kharagpur.

Professor P Dilip Kumar, is recommended for the INSA Teacher Award 2020, based on his PhD supervision, student feedback, Books written and participation in online activity. He has developed the skill, to explain the complicated topics of Robotics, Soft Computing in a very lucid way using the help of some numerical and practical examples.

7. **Dr Avinash Shankar Kumbhar** (b 15.04.1965), Savitribai Phule Pune University, Pune.

Dr Avinash Shankar Kumbhar is recommended for the INSA Teacher Award for his excellence in teaching of chemistry courses for both undergraduate and postgraduate students including guidance of a large number of M.Sc. students for their project dissertations and PhD students for their doctoral thesis, and also for active participation in activities to popularize science among school children.

8. **Dr N Latha** (b 07.02.1968), Sri Venkateswara College, University of Delhi, Delhi.

Dr N Latha has motivated generations of students to take up biochemistry and computational biology as career options; and has set up training facility for bioinformatics to benefit college students, school teachers and school students.

9. **Professor Shashi Kant Mishra** (b 08.01.1967), Department of Mathematics, BHU, Varanasi.

Professor Mishra is an avid teacher and researcher of mathematics. He has written several well-known textbooks and research monographs. His courses are delivered in such a way that even very weak students are inspired by his unique style of teaching. He includes discussion of real world problems while teaching mathematical subjects. Professor Mishra is a popular teacher among his students due to his caring attitude and well-designed courses.

10. **Professor Parmjit S Panesar** (b 08.06.1970), Food Engineering and Technology Sant Longowal Institute of Engineering and Technology, Longowal, Punjab.

Professor Parmjit S Panesar, a Food Biotechnologist is credited for his contextual teaching; developing a scientific aptitude among students to pursue careers in food science; and fostering next generation scientists in the food industry.

11. **Dr Vimal Rarh** (b 09.10.1969), SGTB Khalsa College, University of Delhi, Delhi.

Dr Vimal Rarh is recommended for the INSA Teacher Award for her excellent work on e- teaching modules of various courses for undergraduate and postgraduate students including development of e-contents, e-Labs, online examinations, and empowerment of teachers in ICT skills. She has successfully completed many e-learning projects such as e-PGPathshala of UGC and she also designed unique Teacher's e-Kit integrating subject, pedagogy and ICT tools for flip classroom and outcome based learning.

12. **Dr Reghu Ravindran** (b 31.05.1973), Kerala Veterinary and Animal Sciences University, Wayanad.

Dr Reghu Ravindran, a molecular veterinary parasitologist is recognized for his inspirational teaching-

mentoring; inculcating scientific curiosity and enabling innovative research at undergraduate level; and revolutionising veterinary education and research.

13. **Professor Sachi Srivastava** (*b* 27.07.1972), Department of Mathematics, Delhi University, Delhi

Professor Srivastava is an active teacher and researcher for almost two decades. She has co-authored with K.B. Sinha a well-known textbook in the theory of semigroups. She has been organizing Department colloquium series and a visitors programme for Indian Women Mathematicians on a regular basis. She has been inviting world renowned mathematicians to her research group to facilitate collaboration with her students. Since 2013, she has been organising an annual Internet Seminar in evolution equations which has attracted renowned researchers from around the world to Delhi University. She is actively involved in curriculum development in several universities in India and abroad.

14. **Dr Phatik Tamuli** (*b* 01.01.1973), Associate Professor, Darang College, Tezpur, Assam.

Dr Tamuli is dedicated towards teaching under graduate and post graduate students since last eighteen years. He encourages students to achieve their goals, and motivate them by indicating the scope and future prospects of the subject, scientific values and the role of the subject towards scientific community as well as society. He listens to students, discovers their educational needs and teaches students how to monitor their own progress. He has published popular articles and delivered invited talks in various organizations.

RECIPIENTS OF MEDALS/LECTURES/AWARDS DURING 2019 AND 2020

INTERNATIONAL AWARDS

INSA-Vainu Bappu Memorial Award

2019 PS Joshi

GENERAL MEDALS & LECTURE AWARDS

Indira Gandhi Prize for Popularization of Science

2020 Manoj Kumar Patariya (English - Media Personnel)

Hari Pulakkat (English - Media Personnel)

Vinay Baburao Kamble (English – Career Scientist)

Anant Pandurang Deshpande (Other than English)

R Ramanujam (Other than English)

INSA Medal for Promotion & Service to Science

2020 RA Mashelkar

Daulat Singh Kothari Memorial Lecture

2020 Madhu Dikshit

Jawaharlal Nehru Birth Centenary Lecture

2020 NR Jagannathan

Sriram R Ramaswamy

SUBJECTWISE MEDALS/LECTURES/AWARDS

Homi Jehangir Bhabha Medal

2020 To be decided

Sunder Lal Hora Medal

2020 To be decided

Prasanta Chandra Mahalanobis Medal

2020 To be decided

Syed Husain Zaheer Medal

2020 AK Bhowmick

Silver Jubilee Commemoration Medal

2019 No Award

Golden Jubilee Commemoration Medal (Chemical Sciences)

2019 Srivari Chandrasekhar

ED Jemmis

Kalpathi Ramakrishna Ramanathan Medal

2020 Shyam Lal

Professor KP Bhargava Memorial Medal

2020 Viswanathan Mohan

Chandrakala Hora Memorial Medal

2019 Vidita Ashok Vaidya

Professor Bhim Shanker Trivedi Memorial Medal

2020 PK Chakraborti

Anuradha Dube

Professor Mihir Chowdhury Memorial Medal

2019 V Chandrasekhar

BM Deb

Professor TV Desikachary Memorial Medal

2020 Sushil Kumar

Professor Bal Dattatraya Tilak Lecture

2020 To be decided

Professor S Swaminathan 60th Birthday Commemoration Lecture

2019 Srinivasan Natarajan

Bires Chandra Guha Memorial Lecture

2020 Anand Kumar Bachhawat

Dr Biren Roy Memorial Lecture

2019 No Award

Professor Sadhan Basu Memorial Lecture

2020 PK Chattaraj

Dr Yellapragada SubbaRow Memorial Lecture

2020 Debabrata Dash

Professor Har Swarup Memorial Lecture

2020 Rakesh Kumar Mishra

Dr MR Das Memorial Lecture

2020 Sandhya S Visweswariah

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 (ISC)

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 (2020-2023). 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 national level professional society will participate as an *ex-officio* member. The names of the Indian Scientists occupying important positions in different ISC bodies are given below.

ISC National Committee comprises the President INSA as the Chairman and includes all the Vice-Presidents, INSA and Chairmen of all the INSA National Committees corresponding to respective international Union/Committee as 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	President, IUBS (2019-2022)
Professor Ajit K Kembhavi	Vice-President, IAU (2018-2021)
Professor Archana Bhattacharyya	Member, IUGG Council (2019-2023)
Dr V Prakash	Vice President, IUNS (2017-2021) President, IUFoST (2020-2022)
Dr Ashima Anand	Chair, IUPS Ethics Committee (2017-2021) Member, IUPS Council (2017-2021)
Professor Ch. Mohan Rao	Member, IUPAB Council (2017-2020)
Professor RB Singh	Secretary General and Treasurer, IGU (2018-2022)
Professor Sanjay Mittal	Member, IUTAM Congress Committee (2022-24)
Professor TR Ramadas	Member at Large, IMU Executive Committee (2019-2022)
Dr Dipendra Prasad	President, Commission for Developing Countries (CDC) of IMU (2019-2022)
Dr Bipul Behari Saha	Member, IUPAC Bureau (2020-23)
Dr M Ravichandran	Vice President, SCAR (2018-2022)
Professor NC Pant	Deputy Chief Officer, SCAR Geoscience Group (2016-2022)
Dr Rahul Mohan	Member, SCAR-CBET Group (2018-2022)
Professor DM Banerjee	Member, UNESCO-IGCP Scientific Board (2020-23)
Dr Pradeep Srivastava	Member, Scientific Steering Committee of IGBP- PAGES Core Project (2021-24)

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, alternately, 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 was a member of IAC Executive Board for the term 2013-2017. The Executive Committees of IAP and the Inter Academy Medical Panel (IAMP) together with the Board of Inter Academy 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) were 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 encourage regional cooperation and promote material and regional self reliance by sharing each other's experiences.

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 (TWNSO): The Academy as a member organisation of The World Academy of Sciences (TWAS)/Third World Network of Scientific Organisations (TWNSO) and 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

With effect from January 1, 2018, the Academy initiated Ten Professorial Chairs, they are named as “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 term of an INSA Senior Scientist is initially for a period of three years, extendable for another two years after review of achievement of three years' work. Selected Fellows have to join within a period of six months from the date of issue of the offer letter. 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.

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 initially for a period of three years, extendable for another two years after review of achievement of three years' work. 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.

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.

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.

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. Proposals are received by the Academy throughout the year but their selection is done on Quarterly basis, subject to the availability of funds.

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, Water Futures: Status of Science and Technology, Ethics in Science Education, Research and Governance, Emergence of Modern Science in Colonial India, Fellowships and Funding Opportunities for School Students: Way forward, MN Saha: His Science and Persona through selected letters and writings, A Life with Men, Women and Molecules, Biomaterials Science and Implants, Drug Discovery and Drug Development: The Indian Narrative.

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 (core committee), 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 222). 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 programme is open for all students and teachers studying/teaching in the North-Eastern states of India *viz.* Arunachal Pradesh, Assam, Meghalaya, Manipur, Nagaland, Mizoram, Sikkim, Tripura, Bihar, Chhattisgarh, Jammu & Kashmir, Jharkhand and Madhya Pradesh only.

INSA PANEL & INTER-ACADEMY PANEL ON ‘WOMEN IN SCIENCE’

The Indian National Science Academy established an INSA panel on Women in Science (refer p 223). 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 230) 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 223). In addition, an Inter-Academy Panel on Ethics in Science has been set up (for membership refer p 224). 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 has brought out a publication on "Ethics in Science Education, Research and Governance".

ETHICS SCRUTINY COMMITTEE IN INSA

The Indian National Science Academy constituted an Ethics Scrutiny Committee with following members:

Professor Anurag Sharma (Convener), Professor DM Banerjee, Professor NR Jagannathan. This scrutiny committee will initially go through the complaints received in the Academy related to ethical issues and if there is sufficient justification, the issue will be referred to the main INSA panel on Ethics in Science.

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* Scheme.

INSA, since 2011 on the request of DST has taken up the responsibility of *INSPIRE Faculty Fellowship* 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 once 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.

Augmentation of Wi-Fi

New Cloud and WIPS based CISCO Meraki Wi-Fi facility has been implemented and maintained in entire INSA premises.

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.

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. Journal website www.insa.nic.in is working under the supervise of NIC Cloud server support team. 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. www.insaindia.res.in is INSA official website to interact with social environment.

Other Activities

The entire premises of the Academy have been networked through fiber cable and the IT infrastructure has also been further augmented. The National Knowledge Network (NKN) linkages have been set-up to further boost e-communication culture in the Academy with sectional email accounts as well as bulk

email service being facilitated via National Informatics Centre. Online interviews for INSPIRE-DST candidates has been conducted through Vidyo-Video Conference and Skype.

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 Academics/other International scientific bodies such as TWAS/IAP/IAC/FASAS etc, documentaries on the life of Fellows and other scientists and any other material concerning Academy, Indian Science and Fellowship. All these documents will be microfilmed, digitized and stored in a retrievable form.

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*. All the journals are freely available at <https://insa.nic.in/>. In addition, the Year Book of the Academy, Scientific Reports/Monographs/Seminar Proceedings, Biographical Memoirs are also published by the Academy.

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. Its Impact Factor has improved considerably over the past few years, it is 0.516 for the year ending in 2019.

Other Publications

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

Year Book: First Issued in 1960.

Academy News: From January 1, 2020, a quarterly in-house news publication that was part of the Proceedings of the Indian National Science Academy agreed to publish as a separate publication. But no issues were printed in 2020 due to the COVID-19 Pandemic.

Three special publications were brought out during the year, namely, **Indian Science Transforming India in English (reprinted); Biomaterials Science and Implants: Status, Challenges and Recommendations** by Dr Bikramajit Basu and the autobiography of Professor M Vijayan **M Vijayan: A Life with Men, Women and Molecules** (Editor: AK Singhvi).

During the year, INSA has signed a co-publishing agreement with Springer Nature for publication of the three journals and the books that INSA might wish to publish from time to time. These will be available freely on the INSA website but would be distributed in the international market by Springer Nature.

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

