



# LEAP INDIA

## LEADERSHIP FOR ACADEMICIANS PROGRAM

A national program to create and nurture leaders for Indian  
Higher Education Organizations

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**11-22 February 2019**

IISER KOLKATA, INDIA

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**6-10 March 2019**

HARVARD GRADUATE SCHOOL OF EDUCATION, USA



LEAP INDIA



IISER KOLKATA

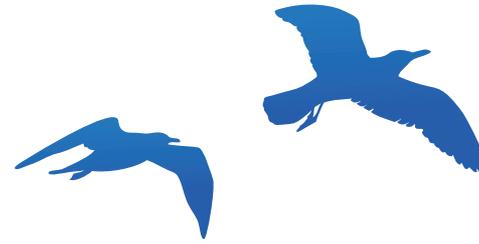


सत्यमेव जयते  
MHRD INDIA

[www.iiserkol.ac.in/leapindia](http://www.iiserkol.ac.in/leapindia)



# Welcome Message



It is my pleasure to welcome you all to the Leadership for Academicians Program (LEAP) of the Indian Institute of Science Education and Research (IISER) Kolkata. LEAP is a flagship national program envisaged by the Ministry of Human Resource Development which is expected to create the next generation of visionary leaders for Indian Higher Academic organizations.

We are a relatively new organization. However, within a short span of existence, IISER Kolkata has already established itself as an Institution to reckon with in the Indian context. The National Institute Ranking Framework ranks us at 25 in 2018, the top among all IISERs. We have produced impact making research with publications spanning the best journals of the world, worked on solutions to problems of societal relevance, and produced students who are now placed at the best Institutions of the world including Harvard, Princeton, Stanford, Caltech, and Oxford among others. Our faculty have won national and international laurels based on their research activities. We continue to grow and evolve and remain committed to performing research and academic training activities that benefit our society. In this context, we are privileged to have been selected as one of the few Institutions to host this leadership program.

IISER Kolkata has designed an overarching program for imparting the necessary skills of academic leadership, drawing upon the experiences of established leaders who have impacted the Indian academic ecosystem. We believe this will provide the necessary national and region context for aspiring leaders. Our partnership with Harvard University's Graduate School of Education for the foreign training component will ensure a globally competitive experience, relying upon the vast expertise of Harvard in the creation of globally accomplished leaders.

I express my sincere gratitude to all those whose intellectual inputs and efforts are behind this program, the expert lecturers and panellists, the Ministry of Human Resource Development, Government of India and Harvard University's Graduate School of Education. I welcome the participants and wish them all the very best.

**Prof. Sourav Pal**  
Director, IISER Kolkata

# ABOUT THE PROGRAM

Excellence in research, innovation and higher education are hallmarks of highly successful economies which lead the world in overall development indices.

Once upon a time, India was a cradle of knowledge and wisdom. Takshila and Nalanda Universities – among the oldest seats of learning in the world – attracted scholars from across Asia and the world and spread India's intellectual influence far outside its borders. Today, however, in spite of having a large number of higher educational organizations and a large base of talented faculty and students, no single Indian academic organization features among the very best in the world.

A transformational change is necessary to propel some of the Indian higher educational organizations to the top. This cannot be achieved easily or quickly and necessitates mechanisms that link the leadership of institutions with their human resource in ways that can extract the very best out of the available talent and resources. Leadership of the highest calibre in higher educational organizations is therefore a crucial, if not the essential element in the path towards excellence.

Recognizing this, the Indian Institute of Science Education and Research Kolkata in partnership with Harvard Graduate School of Education has planned a unique leadership program custom designed for India. On the one hand, the program benefits from the unique expertise of Harvard Graduate School of Education in delivering globally impact making programs of similar nature, and on the other hand, the regional partner IISER Kolkata brings in the sub-continental context ensuring the relevance of this program for India. We expect this program to catalyze excellence through able leadership, eventually transforming the landscape of academia in the country.

The program is intended to train top level potential leaders (Directors, Vice-chancellors) of Indian academic organizations and would therefore be very selective. A small group of participants from Indian higher educational organizations who are successful academicians with high integrity and a flair for leadership and management will participate in this program.



# PROGRAM OVERVIEW

The LEAP program will be delivered by IISER Kolkata in collaboration with Harvard Graduate School of Education. The first part of the program (11-22 February, 2019) designed by IISER Kolkata, will offer the sub-continental context ensuring relevance of this program for India. The second part of the program (6-10 March, 2019) is designed in collaboration with Harvard Graduate School of Education, so the program will benefit from the unique expertise of Harvard Graduate School of Education in delivering globally impact making programs of similar nature. The program would not only train participants on the technical aspects of top-level administration, but would also emphasize upon critical aspects of leadership that nurture creative excellence and disruptive innovation whilst setting high standards of integrity and inclusivity.



## PROGRAM OBJECTIVES

- Leadership and Vision
- Administrative and Financial Management
- Regional Challenges and Opportunities
- Sustaining High Integrity and Ethos
- Performance Assessment and Strategy
- Internationalization and Outreach

## CURRICULUM

- Leadership: Vision, Hiring, Nurturing, Inspiring, Conflict, Inclusivity
- Administration: Decision-making, Finance, Technology Best-practices
- Infrastructure: Planning, Building, Local Context, Bottle-necks
- Core Activity: Research and Development, Teaching Excellence
- Reach: International Presence, Society, Social Media and Outreach
- Assessment: Performance Metric Analysis, Ranking and Strategy
- Change: Social, Financial and Global Influences, Growth and Evolution

## METHODOLOGY

Focused Lectures and Discussions  
Administrative Training Modules  
Round Tables and Debates  
Case Studies and Role Plays  
Participant Projects  
Psychometric Assessment  
Post-program Engagement

## LECTURERS

National Academic and Industry Experts  
Higher Education Administrators  
Harvard Faculty and Administrators  
Uncommonly Creative Individuals

# LEADERSHIP FOR ACADEMICIANS PROGRAM (LEAP)

IISER Kolkata and Harvard University Graduate School of Education  
Sponsored by the Ministry of Human Resource Development, Government of India

## INDIAN PROGRAM

**Venue:** Hotel Hindusthan International (unless otherwise noted)

**11 February (Monday), 09.00-09.30 HRS**

Registration

**11 February (Monday), 10.00-11.00 HRS**

Inaugural Program

**Speakers:** Sourav Pal (Director, IISER Kolkata), Patti Hoffman (Consul General of the United States of America, Kolkata Consulate), Diya Dutt (Deputy Director, United States-India Education Foundation)

**Moderator:** Dibyendu Nandi (IISER Kolkata)

**11 February (Monday), 11.00-11.45 HRS**

High Tea

**11 February (Monday), 11.45-13.15 HRS**

**Panel:** Building Indian Academic Organizations of Excellence: Experiences, Lessons and Outlook

**Panellists:** Partha P. Chakrabarti (IIT Kharagpur), K.N. Ganesh (IISER Tirupati), Sourav Pal (IISER Kolkata)

**Moderator:** LS Shashidhara (IISER Pune)

**11 February (Monday), 14.30-16.00 HRS**

Establishing New Indian Academic Institutions

K.N. Ganesh (IISER Tirupati)

**Moderator:** Sourav Pal (IISER Kolkata)

**11 February (Monday), 16.30-17.30 HRS**

**Panel:** Nurturing Academic Excellence through Bilateral Exchange Programs

**Panellists:** Diya Dutt (United States India Education Foundation), Shevanti Narayan (United States India Education Foundation)

**Moderator:** Dibyendu Nandi (IISER Kolkata)

**12 February (Tuesday), 09.30-11.00 HRS**

A History of Scientific Innovation and Entrepreneurship in India

S. Sivaram (IISER Pune)

**Moderator:** Sourav Pal (IISER Kolkata)

**12 February (Tuesday), 11.30-13.00 HRS**

Driving Innovation and Entrepreneurship

S. Sivaram (IISER Pune)

**Moderator:** Sourav Pal (IISER Kolkata)

**12 February (Tuesday), 14.00-15.30 HRS**

**Women in Academia:** Challenges and Opportunities

Shubha Tole (Tata Institute of Fundamental Research, Mumbai)

**Moderator:** Anindita Bhadra (IISER Kolkata)

**12 February (Tuesday), 16.00-18.00 HRS**

**Panel:** Nurturing Young Talents, Diversity and the Differently Abled in Academia

**Panellists:** Nandita Jayaraj (Life of Science), Shuba Tole (Tata Institute of Fundamental Research, Mumbai), Ishan Chakraborty (Jadavpur University)

**Moderator:** Anindita Bhadra (IISER Kolkata)

**12 February (Tuesday), 18.15-19.00 HRS**

Introduction and Advance Study Materials for Harvard Training Component

Harvard University Graduate School of Education (Video Materials)

**Moderator:** Dibyendu Nandi (IISER Kolkata)

### 13 February (Wednesday), 09.30-13.00 HRS

Case Studies and Individual Projects

**Moderator:** Dibyendu Nandi (IISER Kolkata)

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### 13 February (Wednesday), 14.00-15.30 HRS

**Panel:** Dealing with Student Conflicts and Politics on Campus

**Panellists:** Anuradha Lohia (Presidency University, Kolkata), Soumitro Banerjee (IISER Kolkata)

**Moderator:** Dibyendu Nandi (IISER Kolkata)

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### 13 February (Wednesday), 16.00-17.30 HRS

Group Discussions

**Moderator:** Dibyendu Nandi (IISER Kolkata)

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### 14 February (Thursday), 09.00-18.00 HRS

**Shared Experiences:** IISER Kolkata On-site

Academic, Research and Development, Administrative, Infrastructure and Student Management Practices, Institutional Facilities Planning

**Moderator:** Soumitro Banerjee (IISER Kolkata)

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### 15 February (Friday), 09.30-11.00 HRS

The Changing Roles of Women in Indian Academia

Manju Sharma (Ex-Secretary, Department of Biotechnology)

**Moderator:** LS Sashidhara (IISER Pune)

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### 15 February (Friday), 11.30-13.00 HRS

Administering a Creative Academic Organization

Uday Balakrishnan (Retired Member, Postal Services Board and Chairman Investment Board)

**Moderator:** Anindita Bhadra (IISER Kolkata)

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### 15 February (Friday), 14.00-15.30 HRS

Group Discussions

**Moderator:** Dibyendu Nandi (IISER Kolkata)

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### 15 February (Friday), 16.00-17.30 HRS

A Dialogue on Gender Issues in Indian Academia

Rohini Godbole (Indian Institute of Science, Bangalore)

**Moderator:** Dibyendu Nandi (IISER Kolkata)

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### 16 February (Saturday), 10.00 HRS-12.00 HRS

**Panel:** Science Academies Panel: Role of Academies in National and Social Contexts

**Panellists:** Partha Pratim Majumder (Indian Academy of Sciences), Dinakar Salunke (Indian National Science Academy), Sourav Pal (IISER Kolkata)

**Moderator:** LS Shashidhara (IISER Pune)

*Transfer to Indian Institute of Chemical Biology (IICB), Kolkata for Public Lectures*

**Lunch:** IICB (Conference Participants and IISER Faculty Invited)

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### 16 February (Saturday), 14.30-15.30 HRS, IICB, Kolkata

Public Lecture: Future of Science and Technology

Policy in India and the Role of Academic Institutions in Nation Building

K. VijayRaghavan (Principal Scientific Advisor to the Prime Minister, Government of India)

**Moderator:** Sourav Pal (IISER Kolkata)

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### 16 February (Saturday), 16.00-17.00 HRS, IICB Kolkata

Public Lecture: Balancing Scientific Discovery and Innovation: Role of a Leader

Shekhar Mande (Director General, Council for Scientific and Industrial Research)

**Moderator:** Samit Chattopadhyay (Indian Institute of Chemical Biology, Kolkata)

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### 17 February (Sunday), 10.00-18.00 HRS

**Shared Experiences:** The City of Kolkata, Academic Institutions and Creative Spaces

**Moderator:** Anindita Bhadra (IISER Kolkata)

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### 18 February (Monday), 09.30-11.00 HRS

The Indian Scientific Renaissance and the Interplay of Science, Culture and Society

Dipankar Das Sarma (Indian Institute of Science, Bangalore)

**Moderator:** Dibyendu Nandi (IISER Kolkata)

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### 18 February (Monday), 11.30-13.00 HRS

Group Discussions and Case Studies

**Moderator:** Dibyendu Nandi (IISER Kolkata)

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**18 February (Monday), 14.00-15.30 HRS**

Lessons in Leadership from the Natural World

Sumana Annagiri (IISER Kolkata)

Moderator: LS Shashidhara (IISER Pune)

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**18 February (Monday), 16.00-17.30 HRS**

Training Programs in Academia

Jai Pal Mittal (Asian Photochemistry Association)

Moderator: LS Shashidhara (IISER Pune)

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**19 February (Tuesday), 09.30-11.00 HRS**

Individual Projects

Moderator: Anindita Bhadra (IISER Kolkata)

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**19 February (Tuesday), 11.30-13.00 HRS**

Nurturing Interdisciplinary Research Initiatives

Vijayalakshmi Ravindranath (Indian Institute of Science, Bangalore)

Moderator: Anindita Bhadra (IISER Kolkata)

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**19 February (Tuesday), 14.00-15.00 HRS**

Leadership in Financial Management for Nurturing a Creative Organization

Ashok Banerjee (Indian Institute of Management, Calcutta)

Moderator: Anindita Bhadra (IISER Kolkata)

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**19 February (Tuesday), 16.00-17.30 HRS**

Incubating and Nurturing Campus Start-ups and Companies

Ashok Banerjee (Indian Institute of Management, Calcutta)

Moderator: Anindita Bhadra (IISER Kolkata)

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**20 February (Wednesday), 09.30-11.00 HRS**

Cross-Fertilization of Ideas between the Natural and Social Sciences

Malabika Sarkar (Ashoka University)

Moderator: Dibyendu Nandi (IISER Kolkata)

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**20 February (Wednesday), 11.30-13.00 HRS**

Panel: Beyond Walls: Education, Public Outreach and the Media

Panelists: Aniket Sule (Homi Bhaba Centre for Science Education, Mumbai), Soumitro Banerjee (Breakthrough Science Society, Kolkata), Subhra Priyadarshini (Nature India)

Moderator: Anindita Bhadra (IISER Kolkata)

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**20 February (Wednesday), 14.00-16.00 HRS**

Scientometrics, Ranking and SWOT Analysis

Ritin Malhotra (Times Higher Education), Sophia Li (Times Higher Education)

Moderator: Dibyendu Nandi (IISER Kolkata)

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**20 February (Wednesday), 16.30-18.00 HRS**

Participant Assessment

Moderator: Dibyendu Nandi (IISER Kolkata)

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**21 February (Thursday), 09.30-13.00 HRS**

Psychometric Analysis and Participant Assessment

Moderator: Dibyendu Nandi (IISER Kolkata), LS Shahidhara (IISER Pune)

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**21 February (Thursday), 14.00-15.30 HRS**

Translating Basic Research to Benefit Society

Javed Iqbal (Ex-Director, Dr. Reddy's Institute of Life Sciences)

Moderator: LS Shashidhara (IISER Pune)

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**21 February (Thursday), 16.00-17.30 HRS**

Panel: The Ideal Academic Environment: What Creative Individuals seek from a Leader

Panelists: Pratap Raychaudhuri (Tata Institute of Fundamental Research, Mumbai), Ayan Banerjee (IISER Kolkata)

Moderator: Dibyendu Nandi (IISER Kolkata)

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**22 February (Friday), 09.30-11.00 HRS**

Leadership Counts

Saravana Kumar (Joint Secretary, Ministry of Human Resource Development)

Moderator: Sourav Pal (IISER Kolkata)

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**22 February (Friday), 11.30-13.00 HRS**

Nurturing an Indian Academic Organization towards Excellence: The IISc Experience

Anurag Kumar (Indian Institute of Science, Bangalore)

Moderator: Sourav Pal (IISER Kolkata)

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**22 February (Friday), 14.00-15.30 HRS**

Post Program Activities and Participant Assessment

Moderator: LS Shashidhara (IISER Pune),  
Dibyendu Nandi (IISER Kolkata)

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**22 February (Friday), 16.00-17.00 HRS**

Orientation for Harvard University Program

Moderator: Dibyendu Nandi (IISER  
Kolkata)

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**22 February (Friday), 17.00-17.30 HRS**

Closing Panel: Sourav Pal (IISER Kolkata),  
LS Shashidhara (IISER Pune)

Moderator: Dibyendu Nandi (IISER  
Kolkata)





**Anurag Kumar**

Prof. Anurag Kumar, B.Tech (1977) IIT Kanpur, PhD (1981) Cornell University, was a Member of Technical Staff in AT&T Bell Laboratories (1981-1988), before returning to India and joining the Indian Institute of Science (IISc) as a faculty member in the ECE Department. He became a Professor in 1996, and is the Director of the Institute since 2014. He has published almost 200 peer reviewed papers in journals and conferences, in the area of communications networking and distributed systems.

Prof. Kumar returned to India at a time when the telecommunications revolution was just taking off and the Internet was just a fledgling network. He was one of the leaders of the ERNET project that established India's first nationwide Internet, that carried academic traffic for over a decade. Prof. Kumar was one of the early researchers in India in the mathematical approach to understanding and designing communication networks. He has consulted for government and private organisations, and has mentored a networking start-up from its early years to a global footprint. He has led the authorship of two major books that have been used around the world.

He was the 1977 President's Gold Medallist in IIT Kanpur. He received the IISc Alumni Award for Excellence in Engineering Research for 2008. He has been elected Fellow of the IEEE, the Indian National Science Academy (INSA), the Indian National Academy of Engineering (INAE), the Indian Academy of Science (IASc), and The World Academy of Sciences (TWAS). During the period 2005-2009, he was an area editor for the IEEE/ACM Transactions on Networking, and was then on its steering committee from 2010-2014. He received the 2015 Vasvik Award for Information Technology, and the 2017 IEI-IEEE Award for Engineering Excellence. He is a recipient of the J.C. Bose National Fellowship, awarded by the Department of Science Technology, for the period 2011-2021.





**Aniket Sule**

Dr. Aniket Sule completed M.Sc. in Physics from Indian Institute of Technology (Bombay) in 2002 and doctorate in natural sciences (Astrophysics) from University of Potsdam in Germany. His thesis was in the area of magnetohydrodynamic simulations of the solar interior. He has been a faculty member of Homi Bhabha Centre for Science Education, Tata Institute of Fundamental Research since November 2007, where he looks after the Indian National Astronomy Olympiad Programme. He is a visiting faculty at UM-DAE CBS and from 2012, he is the regional coordinator (Asia-Pacific) for International Olympiad on Astronomy and Astrophysics (IOAA). His areas of interest are Astronomy Olympiad, Astronomy Education, Mathematics Education at high school level, History of Astronomy in India and Solar Physics.



**Anuradha Lohia**

Prof. Anuradha Lohia is a molecular parasitologist who has done extensive research in the field of infectious diseases at Bose Institute in Kolkata. She was the CEO of the Indo-British Wellcome Trust/DBT India Alliance, an organization to promote medical research in India. She was a visiting scientist at various international universities. In the year 2001, she received the DBT National award for Young Woman Bioscientist. Prof. Lohia is an elected Fellow of Indian Academy of Sciences, Bangalore and a recipient of various other notable awards and fellowships including the Rockerfeller Biotechnology Career fellowship. She is currently the Vice-Chancellor of Presidency University.



## Ashok Banerjee

Prof. Ashok Banerjee joined the Indian Institute of Management, Calcutta (IIM-C) as Professor (Finance and Control) in August 2004. Prior to joining IIM-C, he was a professor at IIM-Lucknow. He was the Dean (New Initiatives and external Relations) of IIM Calcutta during 2012-2015.

He is a Postgraduate in Commerce from University of Calcutta and a qualified Chartered Accountant. He obtained his Ph.D. for his research on Economic Value Added as a Performance Measure.

Prof. Banerjee teaches Corporate Finance in the first year, and Corporate Restructuring, Trading Strategies and Business Valuation in second year of the Post Graduate Programme at IIM Calcutta. He also teaches Empirical Finance and Corporate Finance in the fellowship (equivalent to Ph.D) programme.

Prof. Banerjee is currently the faculty-in-charge of the Financial Research and Trading Laboratory of IIM Calcutta. He was instrumental in starting the International Finance Conference in 2009 at IIM Calcutta. The conference is now rechristened as India Finance Conference and is organized jointly by IIM Calcutta, IIM Bangalore and IIM Ahmedabad.

He has published many articles in various journals and business dailies. He has two published books in the area of Financial Accounting to his credit. Prof. Banerjee has presented papers in various national and international conferences. He has also participated as resource person in various Management Development Programs.

Prof. Banerjee, during his tenure as Dean, was instrumental in setting up an Incubator at IIM Calcutta called IIM Calcutta Innovation Park which is duly recognized by the Department of Science & Technology (DST) as a Technology Business Incubator.



## Ayan Banerjee

Ayan Banerjee is presently a Professor of Physics at IISER Kolkata, and has been working in the field of optics and spectroscopy for the last 22 years. He is a scientist, but his passion and creativity are not confined within the sciences alone, but are spread over the arts as well. Thus, while he is a physicist in terms of profession, he is also involved in professional Bengali and English theatre in the capacity of a playwright, director and actor. He obtained his Ph.D in physics from the Indian Institute of Science, Bengaluru, in precision atomic spectroscopy

where he measured atomic hyperfine structure to part-per-billion accuracy. Following his Ph.D., he was a research scientist at General Electric (GE) Global Research, Bangalore, India, where he established a precision optics lab that specialized in the development of spectroscopy-assisted sensing for large scale deployment in security, pharma, healthcare, etc. Since 2009, he has been faculty member in the Department of Physics at the Indian Institute of Science Education and Research (IISER), Kolkata, where other than being deeply involved in undergraduate and postgraduate teaching, he has also set up a light-matter interaction lab which chiefly focuses on optical micromanipulation and study of mesoscopic matter employing optical tweezers, with multiple projects in diverse areas of research. In IISER Kolkata, he also plays a key role in science translation into technology, being one of the founder Directors of the Research Innovation and Scientific Entrepreneurship (RISE) Foundation IISER, a Section 8 company formed inside the premises of IISER Kolkata to incubate deep-science based start-ups. As a scientist, Dr. Banerjee has 36 published papers in peer-reviewed scientific journals, and 19 patents, and as a thespian involved with the theatre group Mukhosh – he has written eight plays in Bengali and English, besides having acted and directed several more.



## Rohini Madhusudan Godbole

Currently professor at the Centre for High Energy Physics, Indian Institute of Science, Bangalore. Has been a Staff Associate at ICTP, a visiting professor at University of Dortmund (Germany), CERN (Geneva), DESY(Hamburg) and Univ. of Utrecht (Netherlands). Van der Waals Chair at the University of Amsterdam.

Worked extensively on different aspects of particle phenomenology over the past three decades, authoring more than 280 research publications in refereed journals

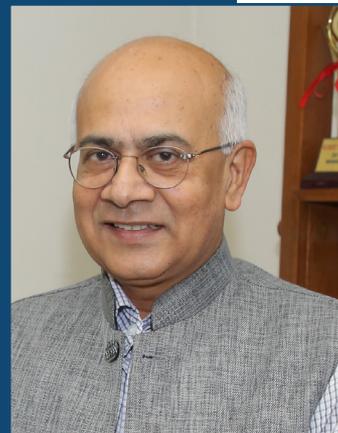
and arXiv e-prints. Author of graduate level monographs and text books on advanced topics for Ph.D students and researchers in particle physics.

Elected fellow of all the three science academies of India (INSA, IASc and NASI) as well as The World Academy of Sciences (TWAS). She has been Chief Editor, Pramana, Indian Journal of Physics, 2008-2016 and Associate Editor 1998-2008.

She has won many awards and distinction out of which some recent ones are:

Padma Shri of the Government of India, The distinguished alumnus Award of the Indian Institute of Technology (Powai), S.N. Bose medal of the INSA for Theoretical Physics, Meghnad Saha Award for Physics of the Asiatic Society of India, DST J C Bose Fellowship of the Government of India.

Worked towards pioneering a variety of programs, at various fora, to raise awareness on the subject of Women in Science. Co-edited a book 'Lilavati's Daughters: Women Scientists of India', containing (auto)biographical sketches of about 100 Women Scientists of India, released in December 2005 and also a book called 'A Girls' Guide to a Life in Science' containing material to inspire young girls to take up a life in science. She also directed survey: trained scientific women power: what fraction are we losing and why?



## Dinakar M. Salunke

Dr. Salunke has a Ph D in Molecular Biophysics (1983) from the Indian Institute of Science, Bangalore, India and post-doctoral training from Brandeis University, Waltham, Massachusetts during 1984-88. Dr. Dinakar M Salunke, is currently the Director of the International

Centre for Genetic Engineering & Biotechnology (ICGEB), New Delhi. Prior to joining ICGEB, Dr. Salunke established the Regional Centre for Biotechnology as its first Executive Director (2009-2015). Dr. Salunke worked in the area of Structural Immunology for most part of his scientific career at the National Institute of Immunology, New Delhi. His work provides fundamental insights into understanding body's defense against infections.





**Dipankar Das Sarma**

Prof. Dipankar Das Sarma obtained his Integrated MSc degree in physics from IIT Kanpur in the year 1977 and Ph.D. from IISc Bangalore in 1982. Prof. Sarma started off his career as a research associate in IISc. He has worked as a guest scientist at Kernforschungsanlage, Germany, as a visiting Professor at the University of Tokyo, the istituto di struttura della materia, CNR, Rome, and Trieste.

He was the MLS Chair Professor as well as the founder-Chairman of the Centre for Advanced Materials at the Indian Association for the Cultivation of Science (IACS), Kolkata during 2006-2008. He has been a member of the faculty at solid state and structural chemistry unit at the Indian Institute of Science, Bangalore, since 1986 and is currently a Professor and the Chairman of the Department. He also holds time-bound (2011-2016) joint appointments as a guest Professor at the department of physics and astronomy, Uppsala University, Sweden and Distinguished Scientist of the Council of Scientific and Industrial Research, India. He is or has been a distinguished honorary/ Adjunct Professor of a number of institutions, such as JNCASR, Bangalore (2003-); TIFR, Mumbai

(2003-2009 and 2011-2014); IISER, Kolkata (2007-2009); IACS, Kolkata, (2004-2006 and 2009-2014); and SNBNCBS, Kolkata (2014-202017).

Prof. Sarma is a world leader in two distinct research areas, strongly correlated electron systems and semiconductor nanoparticles, with profound contributions in several specific sub-areas under these two broad categories of scientific research. Prof. Sarma has been instrumental in contributing to the growth of science in India. He is a pioneer among Indians in the field of investigation of properties of matter employing synchrotron radiation. He has played a significant role in providing access to international synchrotron facilities for the Indian scientists. Besides publishing a large number of papers in the topmost journals, he has been invited by many international conferences all around the world to deliver keynote, plenary or invited talks. There are many leading scientists who work with him in close collaboration in numerous projects.

He has been serving in a large number of national and international committees to facilitate research and

research organisations, for example as a member, Scientific Advisory Board, CRANN, Trinity College Dublin, Ireland (2012-2013, 2014-2016), the Chairman of the Research Council of National Chemical Laboratories (2010-2013, 2013-2016), member of the Council of Raja Ramanna Centre for Advanced Technology (2005-2008 and 2011-2016), of Indo-French Centre for the promotion of advanced research (2009-2012), of Indian National Science Academy (2009-2011), of Asia-Pacific Centre for Theoretical Physics, Pohang, Korea (2008-2010), and Chairman of the proposal review committee, Elettra Synchrotron Centre, Trieste (2003-2010). He has served on the editorial board of a large number of science journals.

Innovation is the hallmark of Professor Sarma's work. Besides this, he is able to uniquely combine with perfect ease sophisticated experimental techniques with various theoretical approaches on one hand, and physics and chemical physics/ physical chemistry on the other, providing a very distinctive approach. Prof. Sarma has been recognised for his work, not only nationally, but also internationally.



**Diya Dutt**

Dr. Diya Dutt joined the United States-India Educational Foundation (USIEF) as Deputy Director in September 2008. She is responsible for supervising the administration of the Fulbright and Fulbright-Nehru program for Indian citizens, 21st Century Knowledge Initiative grants and the four USIEF offices in Chennai, Hyderabad, Kolkata and Mumbai.

She began her career as a policy analyst with the University of Illinois-Urbana Champaign in the area of higher education administration. She moved to Chicago to work as a Statistical Consultant with a reputed Cancer Research Institute. After returning to India, Dr. Dutt worked with different organizations--Confederation of Indian Industry (CII), British High Commission and Canadian High Commission-- in the area of trade and development. From 2004-2008, she was a cultural affairs specialist with the Public Affairs Section, U.S. Embassy, Delhi.

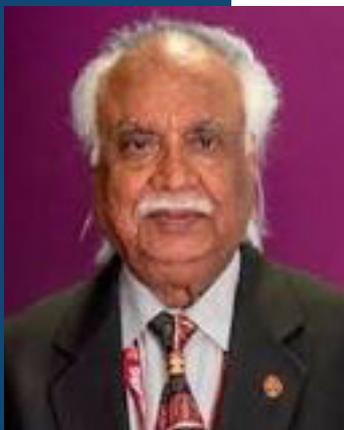
She has contributed articles on education and medical research in international referred journals. Diya holds a doctorate degree in Political Science from the University of Cincinnati, Ohio.



**Ishan Chakraborty**

Ishan Chakraborty is an Assistant Professor in the Department of English, Jadavpur University. He is 100 percent visually disabled. He is pursuing PhD in the same department under the supervision of Prof. Ananda Lal. His areas of interest include Disability Studies, 19th century literature, Performance Studies, Tagore Studies and Translation Studies. He also practices elocution and recitation.





## Jai Pal Mittal

Prof. Jai Pal Mittal is an Indian scientist, DAE Raja Ramanna Fellow of Bhabha Atomic Research Centre and Distinguished Professor of Indian Institute of Technology, Mumbai, the National Academy of Sciences, India and the University of Pune. He is known for his research in the fields of photochemistry and radiation chemistry. He was honoured by the Government of India in 2003 with Padma Shri, the fourth highest Indian civilian award.

Jai Pal Mittal was born on 21 September 1940 in Meerut in the Indian state of Uttar Pradesh. He completed his graduate (BSc) and master's studies (MSc) in chemistry from the Agra University and migrated to Mumbai in 1959, looking for career opportunities. He joined the Training School of Atomic Energy Establishment, erstwhile Bhabha Atomic Research Centre and did a one-year course after which he moved to USA to join the Department of Radiation Chemistry of the University of Notre Dame, Indiana. He completed his doctoral studies (PhD) in 1967, under the guidance of A. A. Lamola and W. H. Hamill. Receiving an invitation from Willard Libby, the 1960 Nobel laureate in Chemistry, to assist him, Mittal did his post doctoral research, for over a year, at the Radiation and Nuclear Chemistry laboratory of the University of California.

In 1969, Mittal returned to India to start his career as a Pool Officer at the Bhabha Atomic Research Centre (BARC) and started working in the field of photochemistry. Two years later, in 1971, he got an opportunity to work with Professor E. Hayon at the United States Army Natick

Soldier Research, Development and Engineering Center and worked there for one year. On his return to India in 1972, he formed a research group at BARC for research in photochemistry and radiation chemistry. During this period, he organized the first national symposium in Thiruvananthapuram, National Symposium on Fast Reaction Chemistry and Techniques.

Mittal continued at BARC to become the Director of Chemistry and Isotope Group and the DAE Raja Ramanna Fellow of the institution. He also holds the position of M. N. Saha Distinguished Professor of the National Academy of Sciences, India and the post of a Distinguished Professor at the University of Pune and the Indian Institute of Technology, Mumbai. During his tenure at BARC, he is known to have contributed for the establishment of a nanosecond LINAC based pulse radiolysis system at BARC and promoted the nano, pico and femtosecond pump and probe techniques to study the chemical dynamics. He is reported to have initiated a new school of research in Radiation Chemistry and Photochemistry in India and his group was successful in isotopic enrichment of hydrogen, carbon and uranium

isotopes. His research findings have been recorded by way of over 300 scientific papers, published in peer reviewed journals and ResearchGate, an online scientific data repository, have listed 250 of them. He has also mentored many students in their doctoral studies.

Mittal has been associated with the Board of Research in Nuclear Sciences as a chairman of many of its basic sciences committees. He is a former president of the Indian Society of Radiation and Photochem Sciences (1997-2001), the National Academy of Sciences, India (2003-04) and the Asian Photochemistry Association (2003- 2008). He has also served the Indian National Science Academy as a council member (1998-2000) and as an additional member (2005-06). He serves as the president of the Asian and Oceanian Photochemistry Association and is a member of the education council of the University of Allahabad. He is a life member of the Indian Chemical Society where has also been a past president.



## Javed Iqbal

Prof. Javed Iqbal graduated from Delhi University, following which he worked as SERC post-doctoral fellow in the group of Prof. Ian Fleming at Cambridge University. Subsequently he moved to Oxford University as a post-doctoral fellow with Prof. Sir J.E. Baldwin and then as a visiting fellow at the University of Montpellier, France. He was a Professor of Chemistry at the Indian Institute of Technology, Kanpur. He has also served as Director of the Regional Research Laboratory (CSIR), Trivandrum and as visiting professor at the University of

Notre Dame, USA and the University of Okayama, Japan, and has taught chemistry at the New Mexico State University, Las Cruces, USA.

In the year 2000, he switched to industry, and moved to Dr. Reddy's Laboratories Ltd. (DRL) where he served as Senior Vice President, Distinguished Research Scientist and Global Head of Discovery Chemistry until 2007. Three of the drugs discovered by his group underwent Phase I clinical trials in Canada and the Ireland. He has published more than 200 research papers and has filed 105 patents in his area of research. He has mentored a number of research students including 35 doctoral and post-doctoral students.

Prof. Iqbal is a fellow of the Indian Academy of Science, Bangalore and Indian National Sciences Academy (INSA), New Delhi. He was a member of the IUPAC committee on Chemistry and Drugs (2006-09). He was member of regional committee for Asia and Pacific (RCAP) of International Council of Science (ICSU), Kuala Lumpur, Malaysia and Chair, Science Planning Group on Epigenetics of RCAP-ICSU. He served as founder Director of Dr. Reddy's Institute of Life Sciences in Hyderabad during 2007-2014. He is currently, Founder and Chairman of Cosmic Discoveries, Toronto, Canada and Director, Proteorex Therapeutics, Toronto, Canada.



## K. VijayRaghavan

Professor K. VijayRaghavan is the Principal Scientific Adviser (PSA) to the Government of India, the topmost advisor to the government on all matters related to science policy.

Professor VijayRaghavan was the Secretary of DBT for over five years from January 2013 till February 2018. He held additional charge of Secretary, Department of Science & Technology, Secretary, Council of Scientific & Industrial Research, Secretary, Ministry of Earth Sciences and Secretary, Department of Health Research at different periods during his tenure.

Prof. VijayRaghavan has a very distinguished record of being elected to numerous international bodies, notably as Fellow of Royal Society and US National Academy of Sciences. He is also a recipient of the Padma Shri, Infosys Prize, S. S. Bhatnagar Award and several other accolades.

He was instrumental in the establishment of the National Centre for Biological Sciences, and steered it as its Director between 1997 and 2013. Prof. VijayRaghavan graduated with a BTech. degree in chemical engineering from IIT Kanpur in 1975 and a master's in 1977. He completed his doctoral research in 1983 in the field of molecular biology and holds a Ph.D from the TIFR. During his post-doctoral work, from 1984 to 1985, he was a research fellow and then, from 1986 to 1988, a senior research fellow at the California Institute of Technology. An alumnus of the IIT Kanpur and the TIFR, he continued his post-doctoral work in the California Institute of Technology. In 1988, he joined the TIFR as a reader and in 1992, he joined the NCBS. His fields of specialization are developmental biology, genetics and neurogenetics. His research primarily focuses on the important principles and mechanisms that control nervous system and muscles during development and how these neuromuscular systems direct specific locomotor behaviours. This was achieved by using the fruit fly *Drosophila Melanogaster* as a model system. By patterning the segmental organization of the fly body plan, his research was able to shed more light on the functions of Hox genes in directing neuromuscular connectivity and motor behaviours.



## Krishna N Ganesh

Krishna N Ganesh (born 1953) obtained his B.Sc (1970) and M.Sc (1972) degrees in Chemistry from Bangalore University and did his Ph.D (1976) in Chemistry at Delhi University. He was awarded a Commonwealth Fellowship to pursue higher studies University of Cambridge, UK that resulted in another Ph.D degree in 1980. He joined the Centre for Cellular and Molecular Biology (CSIR) at Hyderabad in 1981 where he established India's first

microsynthesis DNA facility, initiating a vigorous research programme to discover new motifs of DNA-protein interactions. In 1987, he relocated to National Chemical Laboratory (NCL-CSIR) where he became the Head of Organic Chemistry Division in 1994. He was chosen as the First Director of the newly founded Indian Institute of Science Education and Research ([www.iiserpune.ac.in](http://www.iiserpune.ac.in)) at Pune In 2006. Dr Ganesh has made excellent research contributions to the chemistry and biology of nucleic acids, focusing on therapeutic and diagnostic applications of DNA analogues, structural biology of collagen peptides and the emerging area of DNA nanotechnology. He is internationally recognised for his original and creative contributions to design of Peptide Nucleic Acid (PNA) analogues for effective cell permeation. He has more than 160 publications in reputed international journals, 2 international patents and guided 45 students for their doctoral degrees.

Prof Ganesh is a Fellow of all 3 Science Academies in India and also a Fellow of The World Academy of Sciences (TWAS). He served as the President of Division of Organic and Biomolecular Chemistry of IUPAC

(2012-2013). Prof Ganesh has received innumerable professional awards, the most important ones being Shanti Swarup Bhatnagar award of Chemical sciences (CSIR) and TWAS Prize for Chemical Sciences, SASTRA-CNR Rao Award of SASTRA University (2015) and H K Firodia Vijnan Bhushan Award (2015).

He has served as Member of the various policy making and Project Advisory Committees of Department of Science & Technology (DST) and Department of Biotechnology (DBT), Government of India and past Chairman of Indian Committee of Lady Tata Memorial trust. He is currently a member of Nanoscience Advisory Group of DST Nanoscience mission; Chairman, DBT Taskforce on Nanobiotechnology; Chairman, Finance Committee of India Alliance – Welcome trust DBT, Chairman, Research Advisory Council of Institute of Nanoscience and Technology, Chandigarh; Chairman, Research Advisory Council, Indian Association of Cultivation of Science, Kolkata and a Member of Governing Council of Association of Indian University.

He has served as a member of the Editorial Advisory Boards of various journals: Chemistry, An Asian Journal

(Wiley), J Organic Chemistry (ACS), Beilsten J Organic Chemistry and Oligonucleotides. He is the Founding Editor for ACS Omega (since April 2016) - the first open Access Journal from American Chemical Society and is currently leading its editorial team. In recognition of his scientific contributions, Prof Ganesh was conferred Degree of Doctorate of Science (honoris causa) by Vidyasagar University (West Bengal) in January 2017.

Foremost, as the First and Founding Director of IISER Pune (June 2006-October 2017), Prof Ganesh provided great leadership in Institution building to establish IISERs as brand science education and research institutes, now attaining international recognition. He was also the mentor Director of 6th IISER at Tirupati since February 2015 and assumed charge of its full time Director in November 2017. He now has the rare and unique distinction of being the First and Founder Director of two IISERs – Pune and Tirupati.



## Malabika Sarkar

Professor Malabika Sarkar is Principal Advisor (Academic) and Professor of English at Ashoka University with additional charge as Dean of Faculty and Research.

She is former Vice-Chancellor of Presidency University, Kolkata, and former Professor of English, Jadavpur University.

She was a member of the UGC Panel of Experts in English and Foreign Languages and a panel member of NAAC.

An alumna of Presidency College, Kolkata, and Cambridge University, U.K., later Visiting Fellow at Clare Hall, Cambridge University, she was elected to a Life Membership at Clare Hall College, Cambridge, in 2003. She is a Fellow of the English Association (FEA), U.K.

Primarily a Miltonist with an interest in the History of Science, her publications in this field include her book *Cosmos and Character in Paradise Lost* (Palgrave Macmillan, US). Her other area of interest is Romantic Literature and her publications in this field include *Moneta's Veil: Essays on the Nineteenth Century*. She is on the International Advisory Board of one of the leading journals, *European Romantic Review*.

Deeply interested in women's welfare and the education of underprivileged children, she is the President of the Women's Coordinating Council (WCC), an apex body of the State of West Bengal with more than 70 affiliated NGOs.



## N Saravana Kumar

N Saravana Kumar is a Joint Secretary in the Ministry of Human Resource Development, incharge of International Cooperation, ICT initiatives in Education, Education Policy, UNESCO and Teacher Training aspects. He plays a key role in improving the international collaboration and also policy issues in education sector, including schools and higher education. He is incharge of flagship schemes like Study in India, SPARC (Scheme for

Promotion of Academic & Research Collaboration), Unnat Bharat Abhiyan. As a Mission Director of National Mission on Education through ICT (NMEICT), a flagship programme, he is spearheading the various ICT initiatives in the education sector including SWAYAM, India's own MOOCs platform, National Digital Library, Operation Digital Board (smart class room). He is the Mission Director of the scheme (Pandit Madan Mohan Malaviya National Mission for Teachers and Teaching) for professional development of teachers including the higher education faculty. He is the Deputy Secretary General of National Commission of UNESCO for India (INCCU - Indian National Commission for cooperation with UNESCO).

He belongs to Indian Administrative Service (IAS) of 2000 batch. He is a senior bureaucrat with an experience of 18 years, both in Government of India and Bihar State.



**Manju Sharma**

Manju Sharma is an Indian biotechnologist and administrator of several scientific research and policy-making bodies in India. She was most recently the President and Executive Director at the Indian Institute of Advanced Research in Gandhinagar, Gujarat. She earlier served as the Secretary, Department of Biotechnology, in the Indian Ministry of Science and Technology, and was awarded the Padma Bhushan in 2007.

Some credit Sharma with pioneering biotechnology research in India. She played a significant role in establishing several institutions in the country, including the National Institute of Immunology, the National Institute of Plant Genome Research, the Biomass Research Centres at Lucknow and Madurai, the Plant Molecular Biology Unit in University of Delhi and the Centre for DNA Fingerprinting and Diagnostics.

Sharma graduated from Lucknow University, winning the first rank and receiving the Birbal Sahni Memorial Gold Medal. She earned her Ph.D. at Lucknow University in 1961 and then worked at Purdue University as a post-doctoral researcher. Collaborating with A. Carl Leopold and Richard Hall, her research on enhancing latex

production through the use of ethereal oil found commercial application in Malaysian rubber plantations.

Sharma's research on plant idioblasts led to her becoming a visiting scientist at the Institute of Plant Anatomy and Cytology, University of Copenhagen. She then joined the Forest Research Institute, Dehra Dun, where in researching woody plants, she established a correlation between silica content and the hardness of wood. After moving to Delhi, she became a research officer at the Indian Council of Medical Research and co-authored a monograph on Indian medicinal plants.

Sharma joined the Indian Department of Science and Technology in 1974 as a senior scientific officer. She became the Senior Advisor in 1990, and assumed charge as the Secretary of the government body in 1996. She was instrumental in the creation of the Biotech Consortium India Limited, a public-private partnership to promote the commercialization of biotechnology research. Upon the completion of her tenure, she was appointed Advisor to the Ministry of Science and Technology in 2004.

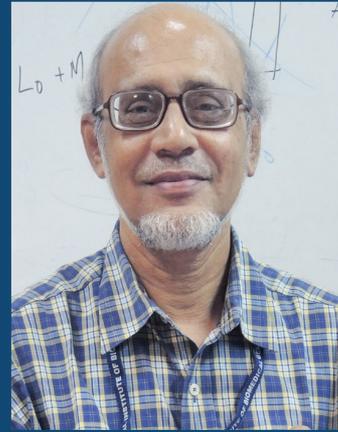
Sharma founded the Indian Institute

of Advanced Research in 2006, helped by endowments from the Puri Foundation for Education in India, to conduct research and provide higher education in Plant Sciences, Human Health, Biomolecular Medicine and Bioinformatics. She served as President and Executive Director until 2012, when the institute re-constituted itself as a University and introduced a new governance mechanism. When M. S. Swaminathan took initiative in introducing a chapter on science and technology for women in the Sixth Five-Year Plan (1980–85), a team led by Sharma prepared a report which was incorporated in the plan document on Women and Development. This was the first focused scheme on the subject, which has since been operated by the Department of Science and Technology.



## Nandita Jayaraj

Nandita Jayaraj is an independent science communicator-storyteller and co-founder of TheLifeofScience.com (TLoS). TLoS began in 2016 as an online chronicle of two writers' travels around India, 'lab hopping' to interview women scientists. Today it has evolved into a collective multimedia science platform that highlights stories about hidden figures and the gender gap in science in India today. It won a Jury Appreciation Certificate at the 2015-16 Laadli Media Awards for Gender Sensitivity. Before TLoS, Nandita worked at The Hindu newspapers and Brainwave Science Magazine. She is an alumna of the US Department of State's International Visitor Leadership Program and a published author of three children's books. She is currently busy doing the ground work for two more books, about women in science, that she is writing with co-founder Aashima Dogra.



## Partha Pratim Majumder

Dr. Partha Pratim Majumder is a Distinguished Professor at National Institute of Biomedical Genomics, Kalyani and Emeritus Professor at Indian Statistical Institute, Kolkata. He was also the Founding Director of National Institute of Biomedical Genomics, Kalyani. He was also Professor and Head of Human Genetics Unit, Indian Statistical Institute, Kolkata.

Dr. Partha Pratim Majumder obtained his Bachelor's, Master's and Doctoral degrees from the Indian Statistical Institute, Kolkata. He did his post-doctoral research at the Center for Demographic & Population Genetics, University of Texas Medical Center, Houston. He has served on the faculty of the Department of Biostatistics and Human Genetics of the University of Pittsburgh. His major scientific interests and contributions have been in the field of human population genetics and genetics of complex human disorders. He is an elected Fellow of all the three science academies of India. He has served on the Board of Directors of the International Genetic Epidemiology Society (IGES) and was the founding Chair of the ELSI Committee of IGES. He is a member of the Human Genome Organisation. He is a recipient of many awards and medals, including the TWAS (The Academy of Sciences for the Developing World) Biology Prize (2009), G.D. Birla Award for Scientific Research (2002), Sri Om Prakash Bhasin Award in Biotechnology (2001), and the New Millennium Science Medal, Government of India (2000). He is presently the President of the Indian Academy of Science, Bangalore.



**Partha Pratim  
Chakrabarti**

Partha Pratim Chakrabarti completed his B.Tech in 1985 and PhD in 1988 from the Dept of Computer Science & Engg, Indian Institute of Technology Kharagpur. He joined the same department as a faculty member in 1988 and is currently a Professor. He was the Professor-in-Charge of the state of the art VLSI Design Laboratory which he helped set up and has been the Dean of Sponsored Research and Industrial Consultancy at IIT Kharagpur and Head of the Advanced Technology Development Centre. He was also the co-Director of the strategic General Motors-IIT Kharagpur Collaborative Research Laboratory on Electronics, Controls and Software. He pioneered the development of the Incubation Programme at IIT Kharagpur. His areas of interest include Artificial Intelligence (AI), Formal Methods, CAD for VLSI & Embedded Systems, Fault Tolerance and Algorithm Design. He has been serving as Director IIT Kharagpur since July 2013.

Dr Chakrabarti has made pioneering research contributions and has solved a number of open problems. His work has been incorporated in standard text books as well as industry level tools of major international companies. He has

published more than 200 papers in international journals and conferences and supervised more than two dozen PhD students. He has worked closely with Government as well as industry on various problems and has successfully led and completed large projects and programmes at national and international levels. Important among them include DST, CSIR, IGSTC, Volkswagen Foundation, National Semiconductor Corporation, Sun Microsystems, Intel Corporation, Synopsys, General Motors, Xerox, etc. He is a well-known teacher and mentor who has not only graduated a large number of students and developed well appreciated teaching modules but has also motivated and championed many student innovation and entrepreneurial activities which have achieved unique successes. Prof. Chakrabarti is the Coordinator of some national initiatives like National Digital Library of India (NDLI), Global Initiative of Academic Networks (GIAN) and Scheme for Promotion of Academic and Research Collaboration (SPARC).

Dr Chakrabarti received the President of India Gold Medal (1985), the INSA Young Scientist Award (1991), Anil K Bose Award (1995), INAE Young Engineer's Award (1997) and the

Swarnajayanti Fellowship (1997-98), Shanti Swarup Bhatnagar Prize (2000), INAE Visweswarya Chair Professorship (2007-09), J.C. Bose Fellowship (2013) and many other awards. Prof. Chakrabarti has been conferred with DSc (honoris causa) by the University of Kalyani, West Bengal. He is the Fellow of the Indian National Science Academy, New Delhi and the Indian Academy of Science, Bangalore, Indian National Academy of Engineering and the West Bengal Academy of Science & Technology.





## Ritin Malhotra

Ritin Malhotra is Regional Director for South Asia at Times Higher Education. He holds a Bachelor's Degree in Business Management from Singapore Management University and Certificate Program in Marketing from UC Berkeley. He works with the leading higher education institutes and policy makers across South Asia to solve various key issues including improving quality of higher education, internationalization, branding and recognition in the World University Rankings.



## Uday Balakrishnan

Dr. Uday Balakrishnan, 68, a former officer of the Indian Postal Service, retired as Member, Postal Services Board and Chairman Investment Board of the Rs 20,000 crore postal insurance fund in 2010. In his career, he has headed major training centers of the Postal Department, served as Chief Postmaster General Kerala and earlier been in charge of the country's national child-labour elimination programme and served as the Chief Vigilance Officer for the Ministry of Labour – Government of India.

Dr. Balakrishnan was also the longest serving Register (2000-2006) of the Indian Institute of Science-Bangalore. During which he:

- Revamped the administrative system of IISc,
- Reduced staff through a special VRS scheme
- Renovated the main administrative bloc
- Founded the Institute's archives.
- His tenure was strike free.

Dr. Balakrishnan – other pursuits

- Visiting Fellow at the Central European University-Budapest 2010 -11
- Visiting faculty Centre for Contemporary Studies IISc 2011-2018
- For 5 years he taught a highly acclaimed course developed by him on public policy that brought students face to face with leading policy makers, jurists, journalists, etc.
- Contributes articles and reviews books regularly for India's leading newspaper, The Hindu and its financial counterpart – Business Line.

- He has served as Principal Adviser to the globally renowned art event, Kochi Biennale 2014 edition.
- Curated India on our Mind, India's largest exhibition of Indian maps at IISc early 2018.
- Delivered talks at JNU, Ruhr University, NIAS, etc.

Currently Dr. Balakrishnan is completing his book on India's founding and scripting a documentary series on Gandhi. He lives between Bangalore and Trivandrum.



## Samit Chattopadhyay

Dr. Samit Chattopadhyay is the Director of Indian Institute of Chemical Biology, CSIR-IICB, Kolkata and Director, CSIR-NEIST, Jorhat. He is also the founding Director of CSIR-IICB-TRUE Translation Research Unit of Excellence, Kolkata. He has 30 years of research experience in wide fields of research including; setting up ambience for doing best research on disease and diagnostics. Bringing large number of mission mode projects and FTPs (Fast Track Projects) for immediate translatable

products for India. Achievement towards developing application oriented research between Biology and Chemistry. Advanced knowledge in developing target based drugs based on basic science knowledge. Understanding molecular basis of gene regulation and epigenetics in cancers and other diseases; Molecular biology work on HIV transcription and latency; Immune responses upon Mycobacterial infection; Role of Nuclear matrix proteins in DNA damage repair, Splicing etc.; Structure function relation of MAR binding proteins; Role of miRNA in cancer and other diseases. Plant genetics, plant molecular biology; Chromosome Techniques, Karyotyping and Cytogenetics, Handling Cholera Bacteriophages and their physical mapping; Role of RNA-protein interaction in Viral transcription; Immuno-biology and T helper Cell Differentiation.

He is a fellow of The World Academy of Sciences (TWAS), Indian National Science Academy (FNA), Delhi, Academy of Science (FASc), Bangalore, National Academy of Science (FNASc), Allahabad, West Bengal Academy of Sciences-WAST (FAScT), Maharashtra Academy of Science (FMASc) and also Sir J C Bose National Fellow, DST.

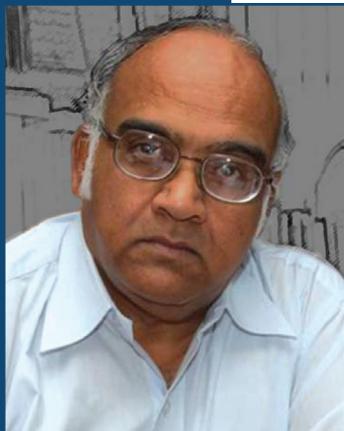
He has trained/ guided more than 80 students, published more than 92 high impact international papers in journals with more than 7000 citations.

His other administrative role include Ex-Associate Dean of NCCS; Introduction of Aadhar based Biometric system of attendance at CSIR-IICB, Kolkata; Introduction of new model of course work for the Ph D students; Council member of DY Patil Medical College, Pune; Chairman and member of various selection committees at NCCS and other Institutes and Universities; Task Force member of Cancer Research, DBT; Animal Science and Biotechnology, CSIR; Task Force Member DST-PAC; Member of Scientific Advisory Committee (SAC), National Institute of Chemical Biology, New Delhi; Expert consultant scientist of Pharmaceuticals like Piramal Life Science, Mumbai; Amrita Therapeutics, Gujarat, etc.



## Shevanti Narayan

Shevanti Narayan has been working with the United States-India Educational Foundation (USIEF) since 1998. She is currently the Regional Officer of the United States-India Educational Foundation at the eastern regional office since January 2010, in Kolkata. Prior to this, she was the Country Coordinator for Educational Advising Services. She has participated in various conferences and training related to U.S. higher education. As the Regional Officer, her primary responsibility is to manage the Indian & U.S. Fulbright Program in eastern India. In addition to this, she monitors the educational advising services in eastern India to help Indian students study in the U.S. Along with her team she conducts extensive outreach programs to promote the visibility of Fulbright and other USIEF programs.



## S. Sivaram

Dr. Sivaram is presently an INSA Senior Scientist and Honorary Professor at the Indian Institute of Science Education and Research Pune and at the Indian Institute of Science Education and Research Kolkata, India. Prior to this he held the position of CSIR Bhatnagar Fellow (2010-15) and J.C. Bose National Fellow of the Department of Science and Technology (2007-15) at CSIR-NCL. He served as the eighth Director of National Chemical Laboratory (NCL) from 2002-10. An alumnus of IIT-Kanpur, he received his PhD in Chemistry from Purdue

University, USA. He was a Research Associate at the Institute of Polymer Science, University of Akron, USA before returning to India to pursue his professional career.

Dr. Sivaram is a highly decorated scientist with numerous awards to his credits. He is a recipient of the Gold Medal of the Chemical Research Society of India for his life-time achievements in chemistry (2019), International Award for distinguished contributions to polymer science, awarded by the Society of Polymer Science, Japan (2017), Vishwakarma Medal (INSA), Silver Medal of the Chemical Research Society of India, Professor S.R. Palit Memorial Award of the Indian Association for Cultivation of Science, Kolkata, K.G. Naik Gold Medal of M.S. University, Baroda, FICCI Award in Physical Sciences and Om Prakash Bhasin Award, Goyal Prize in Applied Sciences.

The President of India honoured him with Padma Sri in 2006. Purdue University, USA conferred on him the honorary DSc degree in 2010 for his exceptional attainment and merit.

Dr. Sivaram is an elected Fellow of all the learned academies of science and engineering in India. He is also an elected Fellow of the Academy of Sciences for the Developing World, Trieste, Italy (TWAS), Fellow of the

International Union of Pure and Applied Chemistry (IUPAC) and Royal Society of Chemistry, UK.

He has lectured widely around the world and is a Distinguished Adjunct Professor, Institute of Chemical Technology, Mumbai, India, 2019-21; Chair Professor of Eminence in Polymer Science, Somaiya College of Science and Commerce, Mumbai, India, 2018-; Visiting Professor, Center for Rapid and Sustainable Product Development, Polytecnico de Leiria, Marinha Grande, Leiria, Portugal, 2018-22; Distinguished Visiting Professor, The King Abdullah University of Science and Technology, Thuwal, Saudi Arabia, 2017 and 2019; Harold A. Morton Distinguished Professor of Polymer Science, The University of Akron, Akron, Ohio, USA, 2006 and Elf ATOCHEM Visiting Professor, LCPO, University of Bordeaux, Bordeaux, France, 1995

He has mentored the Ph.D. thesis of about 40 students, over a dozen post-doctoral fellows and published over 225 papers in peer reviewed scientific journals. He is cited as an inventor in 50 granted European and US as well as 52 Indian patents. He has edited two books and authored one book.

Dr. Sivaram chairs the Scientific Advisory Committee of Vyome Therapeutics Ltd., Delhi and is a member of the Scientific

Advisory Boards of Apollo Tires Ltd., Gurgaon, Asian Paints Ltd., Mumbai and HLL Lifecare Ltd, Thiruvananthapuram. He serves as an independent Director on the Boards of Asian Paints Limited, Apcotex Industries Limited, Deepak Nitrite Limited, Supreme Petrochemicals Limited, Gharda Chemicals Pvt Ltd and Vyome Therapeutics Limited. He is a non-executive Chairman of the Board of GMM Pfaudler Limited. He is also a Founder-Director of the Society for Entrepreneurship Education and Development (SEED), IISER, Pune, a S&T business incubator incorporated as a Section 8 company.

He is a much sought after consultant to several companies dealing with polymers and chemicals. He is a mentor to many start-up companies in Pune, namely, Genrich Membranes, Form3D, Orthocrafts Limited and Venture Centre (Incubation Centre).

Dr. Sivaram's research interest concerns polymer synthesis, surface chemistry of polymers, porous polymers for energy related applications, biodegradable polymers, organic-inorganic hybrids, nanocomposites and structure-property relationship in polymers.



## Shekhar C. Mande

Dr. Mande is current Director General of Council of Scientific and Industrial Research (CSIR), India and Secretary DSIR.

He serves on many advisory committees including task forces of the Department of Biotechnology and Department of Science and Technology, Govt of India. Currently he Chairs the Basic Science task force of the Department of Biotechnology, and is a core member of the Biophysics, Biochemistry, Molecular Biology and Microbiology task force of the Science and Engineering

Research Board of the Department of Science and Technology.

He is also a member of the management council of the Tata Institute for Fundamental Research (TIFR), Mumbai as a representative of the Maharashtra State Government. He is a member of the Management Councils of the Solapur University and the Savitribai Phule Pune University. He is a member of the Governing Body of the Indo French Centre for Promotion of Advanced Research (CEFIPRA), and a member of the Research Council of the Institute of Genomics and Integrative Biology, Delhi.

He currently chairs the National Committee for the International Union of Crystallography of the Indian National Science Academy, New Delhi.

He is the Vice President of Vijnana Bharati, a large voluntary science movement in India with Swadeshi spirit.

Dr. Mande is a Structural and Computational Biologist. He did his M.Sc. in Physics from University of Nagpur. He holds Doctor of philosophy in Molecular Biophysics, from the Indian Institute of Science. Following his PhD, he joined Prof. Wim G. J. Hol as Post Doctoral Fellow at Rijksuniversiteit Groningen in the Netherlands. Since 2001, he was senior staff scientist at Centre for DNA Fingerprinting and Diagnostics. Between September 2011 and September 2018 He served as director at National Centre for Cell Science in Pune, India.

He was awarded in 2005 the Shanti Swarup Bhatnagar Prize for Science and Technology, the highest science award in India, in the Biological sciences category.



## Shubha Tole

Prof. Shubha Tole is a Professor in the Department of Biological Sciences, Tata Institute of Fundamental Research.

Shubha Tole obtained her BSc in Life Sciences and Biochemistry from St. Xavier's College, Mumbai (1987). Her MSc and PhD are from Caltech, USA. She worked at the University of Chicago as a post-doctoral fellow, and then joined the Tata Institute in Mumbai, India as a faculty member in 1999.

Tole has been a recipient of the Infosys Science Foundation Award

for Life sciences in 2014 and the Shanti Swarup Bhatnagar Award, India's highest scientific honour awarded by the CSIR, Govt. of India in 2010. She has also been awarded the Research Award for Innovation in Neurosciences (RAIN) by the Society for Neuroscience in 2008, the National Woman Bioscientist award by the Department of Biotechnology, Govt. of India (2008), the Swarnajayanti Fellowship (a prestigious young scientist award) by the Department of Science in Technology, Govt. of India (2005), and the Wellcome Trust Senior International Fellowship (1999). She has several publications in leading International Journals.

Tole actively engages in public outreach via workshops in schools and colleges, and has chaired as well as presented Café Scientifiques organized by the British Council.



## Soumitro Banerjee

Dr. Soumitro Banerjee (born 1960) did his B.E. from the Bengal Engineering College (Calcutta University) in 1981, M.Tech. from IIT Delhi in 1983, and Ph.D. from the same Institute in 1987. He was in the faculty of the Indian Institute of Technology, Kharagpur, since 1986, and has moved to the Indian Institute of Science Education & Research, Kolkata, in 2009.

Dr. Banerjee's areas of interest are the nonlinear dynamics of power electronic circuits and

systems, and bifurcation theory for on-smooth systems. He has published three books: "Nonlinear Phenomena in Power Electronics" (Ed: Banerjee and Verghese, IEEE Press, 2001), "Dynamics for Engineers" (Wiley, London, 2005), and "Wind Electrical Systems" (Oxford University Press, New Delhi, 2005). Dr. Banerjee served as Associate Editor of the IEEE Transactions on Circuits & Systems II (2003-05), and as Associate Editor of the IEEE Transactions on Circuits & Systems I (2006-2007). He is a recipient of the S. S. Bhatnagar Prize (2003), and was recognized as a "Highly Cited Author" by Thomson Reuters from 2004 to 2014. He is a Fellow of the Indian Academy of Sciences, the Indian National Academy of Engineering, the Indian National Science Academy, The World Academy of Sciences, and the IEEE.

Dr. Banerjee has taken active part in the propagation of scientific bent of mind among the people, and is the General Secretary of the science organization 'Breakthrough Science Society' which works with that objective.



## Sumana Annagiri

Sumana Annagiri's studies how the behaviour of social insects at individual and collective level aids in the organization of tasks and their survival. She obtained her PhD from the Indian Institute of Science based on her research on dominance interactions in colonies of the India paper wasp *Ropalidia marginata*. She went on to study the European paper wasp *Polistes fuscatus* during her postdoctoral work at Tufts University in Boston, USA and studied the behaviour of colony foundresses and nest-mate

discrimination. She returned to India in 2008 and joined the Indian Institute of Science Education and Research Kolkata, where her work broadly focuses on understanding the nesting biology of a commonly found Indian ant, *Diacamma indicum*. The central aim of her research is to understand how individual choices lead to collective decisions that are optimal for the colony. Division of labour and the emergence of leaders in the course of performing a vital task are specific aspects she is interested in. Her work has been published in various international journals and has been featured in the media. Sumana has always been interested in small creatures that inhabit the earth and has wanted to understand their lives. In particular, she is fascinated by how insects overcome the challenges they face and how they have achieved phenomenal success across terrestrial ecosystems. In addition to her research she has taken up many administrative roles. She was the Head of the Department of Biological Sciences at IISER during the formative years where her focus was on creating an inclusive atmosphere conducive to academic growth. She has taught courses in the broad areas of evolution, ecology, animal behaviour, research communication and methodology. Together with her academic interest she indulges in painting, embroidery and poetry.



## Subhra Priyadarshini

Subhra Priyadarshini is an award winning science journalist and currently the Chief Editor of Nature India, Nature Research Group's (NRG) India operations. She has been keenly following the evolving science, research and innovation climate in Asia through the last couple of decades.

Subhra has been a journalist chasing deadlines to cover politics and sports, fashion and films, crime and natural disasters in the mainstream Indian media for over

a dozen years. She chose to come back to her first love – science – launching Nature India in 2007. Subhra worked as a journalist with major Indian dailies The Times of India, The Indian Express, The Asian Age, The Telegraph, India's premier news agency Press Trust of India and Down To Earth magazine. She worked briefly for the Observer, London and continues to write on Asian affairs in the South China Morning Post.

Subhra has been a British Chevening scholar, a Robert Bosch fellow, an IREX-UNESCO fellow and a Kavli Prize Media Scholarship awardee. Subhra received the BBC World Service Trust award for her coverage of the 'Vanishing Islands of Sunderbans' in the Bay of Bengal and the PANOS South Asia Media Excellence Award for her incisive coverage of climate change issues. She won acclaim in India for her coverage of the Orissa super cyclone in 1999 and the Indian Ocean tsunami in 2004.

She has been on the panel of many international committees and meetings on science communication, environment, health and climate change. Subhra is on the programme and selection committee of the World Conference of Science Journalists and on the Board of Studies of the Trans-Disciplinary University, Bengaluru, India. She is also an executive committee member of the BRICS Young Scientists Forum.

Through Nature India's many workshops and outreach activities, Subhra trains Indian scientists and healthcare professionals in science communication. In 2017, she mentored the first ever FameLab India competition organised by British Council in India to hunt for the best science communicators and presenters across the country. She mentored India's first science journalism fellowship – the TDU-Nature India Media Fellowship – and is launching the Nature India-Wellcome Trust India Science Media Fellowship in February 2019.



## Pratap Raychaudhuri

Prof. Pratap Raychaudhuri is a Professor at Tata Institute of Fundamental Research, Mumbai. His research focus is on the study of unconventional and disordered superconductors using a variety of techniques such as, scanning tunneling spectroscopy, planar junction spectroscopy, penetration depth measurements, magnetotransport and Hall Effect measurements.

Prof. Chaudhuri is elected as a member of the IUPAP commission for Low Temperature Physics (C5) and Fellow of the Indian Academy of Science, Bangalore. He is recipient of the Shanti Swarup Bhatnagar Prize in Physical Sciences, NASI-Scopus Young Scientist Award, 2009, Anil Kumar Bose Memorial Medal by the Indian National Science Academy, INSA Medal for Young Scientists, etc.



## Vijayalakshmi Ravindranath

Dr. Vijayalakshmi Ravindranath obtained her Ph.D from the University of Mysore in 1981. In 1986, after completing her post-doctoral training at the National Cancer Institute, National Institutes of Health, USA, she joined the Department of Neurochemistry at National Institute of Mental Health and Neurosciences, (NIMHANS) Bangalore. In 1999, the Dept. of Biotechnology (DBT), Government

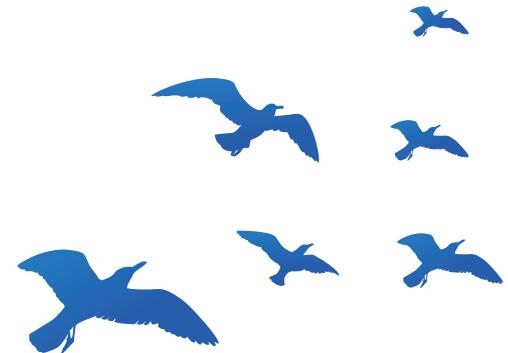
of India sought her out to help establish the National Brain Research Centre (NBRC), an autonomous institution of DBT, Ministry of Science and Technology as a centre of excellence and to co-ordinate and network neuroscience research groups in the country. She continued as Founder Director, NBRC till May 2009, when she returned to Bangalore at the Indian Institute of Science as Professor and Founder Chair of the newly created Centre for Neuroscience. She is currently Director, Centre for Brain Research (CBR) at Indian Institute of Science.

During her tenure as Director of NBRC, she provided visionary leadership at NBRC, which in a very short period attained a position of being an internationally acclaimed centre of excellence. In a short span of 5 years she established a state-of-art institute in a rather remote location and created a new paradigm for research by integrating mathematical and computational science into the understanding complex biological systems. NBRC was granted deemed University status in May 2002 to help promote human resource development in an inter-disciplinary manner. She networked 45 institutions around the

country with NBRC with a goal to share resources and promote neuroscience. She then established the Centre for Neuroscience at IISc leveraging the expertise at IISc in mathematics, computation and engineering. CBR is established as a unique public-private partnership between IISc and Pratiksha Trust that funds CBR. Research at CBR is focused on aging brain and a large, prospective longitudinal study of 10,000 aging individuals has been initiated for the first time in India.

The unifying goal of her laboratory is to understand the molecular mechanisms underlying neurodegenerative disorders, such as Alzheimer's and Parkinson's disease with a goal to discover drug targets that can be used to develop disease-modifying therapies. To this effect, she adopts a combinatorial approach to elucidate important cellular pathways involved in the disease pathways in animal models of Parkinson's and Alzheimer's disease. From the therapeutic angle, she is also involved in defining and identifying the active entities and the mode of action of traditional medicinal preparations used in the treatment of neurodegenerative disorders, particularly senile dementia.

Dr. Vijayalakshmi Ravindranath is elected Fellow of all the 3 science academies in the country, namely Indian National Science Academy, Indian Academy of Sciences, National Academy of Sciences, India. She is also a Fellow of the National Academy of Medical Sciences, India, Indian Academy of Neurosciences and Third World Academy of Sciences. She is a recipient of the prestigious S.S. Bhatnagar award (1996), Omprakash Bhasin Award (2001) and the J.C. Bose National Fellowship (2006), S.S. Bhatnagar Medal, INSA (2016) and Padma Shri (2010).



# LEAP organizing committee members



## Anindita Bhadra

Anindita Bhadra is a behavioural biologist at the Department of Biological Sciences, IISER Kolkata. She founded the Dog Lab at IISER Kolkata, which is engaged in studying the behaviour, ecology and cognitive abilities of dogs using the free-ranging /stray dogs in India as a model system. She is particularly interested in understanding the evolution of the

dog-human relationship. Much of her work on free-ranging dogs has been highlighted by the scientific and public media. Dr. Bhadra is the recipient of the INSA young scientist award, SERB women excellence award and the IAP young scientist award. She was involved in the founding of the Indian National Young Academy of Science (INYAS) in 2015, and was the Chairperson of INYAS during its first three years of existence. She is a member of the Global Young Academy, where she is the co-lead of two working groups and is currently the Editor of Connections 2019, the annual magazine of the GYA. She serves on the standing consultative committee of young scientists to the PSA, constituted by Dr. R. Chidambaram. Dr. Bhadra believes in the responsibility of a scientist in engaging with the society and is actively engaged in various science outreach activities, including popular science writing. She is also a professional thespian and regularly performs on stage.



## Dibyendu Nandi

Dibyendu Nandi is an Astrophysicist. He specializes in understanding the Sun's dynamic activity and how the Sun influences our near-Earth space environment and climate. He has a strong interest in better governance of academic organizations and the creation and sustenance of inclusive environments that catalyze creativity. Dibyendu obtained his PhD from the Indian Institute of Science and subsequently spent seven years in the United States of America working at the Solar Physics Group at Montana State University. Following his return to India he established the multi-institutional Center of Excellence in Space Sciences India at IISER

Kolkata. Dibyendu also served as the Dean of Research and Development at IISER Kolkata and during his tenure introduced policies for better management, efficiency and transparency in functioning of his office. Dibyendu has held visiting positions at Harvard Smithsonian Center for Astrophysics, St Andrews University, Georgia State University and the Nordic Institute of Theoretical Physics. He has published widely, including in journals such as Nature, Science and the Astrophysical Journal. Dibyendu's awards and honours include the Martin Forster Gold Medal from the Indian Institute of Science, the British Council's Research Exchange Programme award, the Ramanujan Fellowship of the Government of India, a Parker Lectureship and the 2012 Harvey Prize of the American Astronomical Society and a fellowship of the Swedish Wenner-Gren foundation. He has contributed to diverse international capacity building activities. He led the International Astronomical Union Working Group on Impact of Magnetic Variability on Solar-Stellar Environments for four years and is currently one of the Vice-Chairs of the Space Weather Panel of the Committee on Space Research. Dibyendu is also a member of the ISRO-NASA Heliophysics Working Group which seeks to encourage bilateral Indo-US cooperation in exploration of the Sun-Earth system.



## L. S. Shashidhara

L S Shashidhara is currently a Professor at IISER Pune and Distinguished Visiting Professor of Biology at Ashoka University. He earned his B.Sc. and M.Sc. from the University of Agricultural Sciences, Dharwad, India and went on to obtain his Ph.D. from the University of Cambridge, UK. After a brief post-doctoral work at Cambridge, and working as a visiting fellow at NCBS, Bangalore, he moved to CCMB, Hyderabad as a Scientist and Group Leader, where he initiated his career in developmental biology. Following that, he moved to IISER Pune and has contributed to the growth of IISER Pune since its inception.

Using the fruitfly *Drosophila*

*melanogaster* as a model system, Prof Shashidhara addresses a fundamental question in biology: how are shape and size of different organs determined? Not only that Prof Shashidhara and his group have identified key mechanisms that specify organ development and regulate growth control in *Drosophila*, they have also expanded their study to examine the status of these evolutionarily conserved mechanisms in epithelial cancers in human.

Prof Shashidhara has served as Vice-President of Indian National Science Academy in the past and is currently Secretary General of International Union of Biological Sciences (IUBS). He is a key member of Indiabioscience and young investigators meetings in India, UK and USA. In addition, he has organized several alternate career workshops for scientists, particularly women scientists, in science journalism, science policy, administration and management and has facilitated training of more than 10,000 school and undergraduate teachers in India. Recently, he commissioned and edited an anthology on the impact of Science in post-independent India in shaping Indian economy and social welfare.

Prof Shashidhara is recognized with CSIR Technology and SS Bhatnagar Prizes and JC Bose National Fellowship. He is a Fellow of all three Science Academies of India. Recently, Prof Shashidhara was elected as Associate member of European Molecular Biology Organization (EMBO).



## Sourav Pal

Dr. Sourav Pal is presently Director of Indian Institute of Science Education and Research Kolkata on deputation from Indian Institute of Technology (IIT) Bombay. He was formerly the Director of CSIR-National Chemical Laboratory (NCL), Pune. He worked at NCL Pune for almost 33 years. Dr. Pal is a distinguished theoretical chemist and has contributed to diverse areas of theoretical chemistry including the challenging aspects of methodological and conceptual developments. He has contributed significantly to the many-body theory of molecular electronic structure and properties using coupled-cluster methods and is well recognized in India and abroad. He has also contributed significantly to the area of chemical reactivity and density functional theory response. In recent

years, he has contributed to the catalytic and hydrogen storage materials using computational material science. As a Director, Dr. Pal shaped the vision of the laboratory in transforming NCL into an innovation-centric organization in chemical and allied sector and the performance of the laboratory improved significantly in last few years.

Dr. Sourav Pal obtained his integrated masters degree in Chemistry from IIT Kanpur in 1977. He received his Ph.D. degree from Calcutta University and joined NCL in 1982. He was a post-doctoral fellow at the University of Florida, Gainesville, USA (1986-87) and has been Alexander von Humboldt Fellow at the University of Heidelberg, Germany (1987). He was elected as the President of Chemical Research Society of India for a tenure of three years. He is a member of Executive Council of Federation of Asian Chemical Societies in the capacity of Editor of Publications and is Chairman of Chemical Division Council of Bureau of Indian Standards. He serves in several important scientific committees in the country.

Dr. Pal has been recognized by several awards and honors for his contribution to science and technology including the prestigious Shanti Swarup Bhatnagar Award in Chemical Sciences.

Dr. Pal serves on the editorial boards of several international and national journals in chemistry and has guided about 30 Ph.D thesis. He has published more than 260 papers in International peer reviewed journals. He has authored a book titled "Mathematics in Chemistry" and contributed to chapters in several books.



## USIEF - The Fulbright Commission in India

The Indo-U.S. agreement on educational exchange, signed by Prime Minister Jawaharlal Nehru and U.S. Ambassador Loy Henderson on February 2, 1950 in New Delhi, established the United States Educational Foundation in India to administer the Fulbright Program in India. On July 4, 2008, the Government of India (GOI) and the U.S. Government (USG) signed a new agreement to strengthen educational exchanges between the two countries. The Foundation was renamed as United States-India Educational Foundation (USIEF) awarding Fulbright-Nehru Scholarships and Grants. USG and GOI are now equal partners for implementing Fulbright Program in India. A 10-member Board of Directors, five Americans living in India nominated by the U.S. Diplomatic Mission and five Indians nominated by the Government of India, governs USIEF.

Since 1950, USIEF has awarded approximately 11,128 Fulbright Fellowships to Indians and Americans. In addition to these programs sponsored by the U.S. Department of State [www.state.gov](http://www.state.gov), USIEF has also administered approximately 8,773 fellowships funded by the U.S. Department of Education [www.ed.gov](http://www.ed.gov), the East-West Center [www.eastwestcenter.org](http://www.eastwestcenter.org) and other entities.

USIEF's activities may be broadly categorized as follows:

- Administration of Fulbright-Nehru and other fellowships for Indian and American students, faculty, researchers and professionals.
- Promotion of dialogue among Fulbrighters and their communities as an outgrowth of educational exchange.
- EducationUSA Advising Services for Indian students interested in pursuing higher education in the U.S., and for U.S. students in India.
- Serving as a resource for fostering linkages between institutions of higher education in the U.S. and India.



## USIEF OFFICES

United States-India Educational Foundation (USIEF) has headquarters in New Delhi and four regional offices in Chennai, Hyderabad, Kolkata, and Mumbai.

### USIEF Headquarters – New Delhi

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## ADDITIONAL INFORMATION

For details about fellowships, visit the USIEF website [www.usief.org.in](http://www.usief.org.in) or contact:

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## Geographic Distribution of LEAP Participants



## IISER KOLKATA

The Indian Institute of Science Education and Research Kolkata (IISER Kolkata) was the first of the IISERs. Established in 2006 with the goal of nurturing scientific excellence through the integration of undergraduate and graduate teaching with research and innovation, IISER Kolkata – currently ranked among the top 25 Indian Universities – is a testimony to the rapid rise of the new-age Indian academic institutions. The vision of IISER Kolkata is to reach and sustain high global standards in science education and research, expand the boundaries of human knowledge, and benefit society through integrated science education, outreach and technology transfer. IISER Kolkata is located in a lush-green campus in Mohanpur, close to the city of Kolkata.

[www.iiserkol.ac.in](http://www.iiserkol.ac.in)



## HARVARD GRADUATE SCHOOL OF EDUCATION

Harvard Graduate School of Education (HGSE) offers professional development programs for educators from all parts of the world, serving up to 10,000 practitioners and leaders annually. Located within HGSE, Harvard Institutes for Higher Education (HIHE) has offered comprehensive leadership development programs to the higher education community for almost five decades. With an outstanding faculty and dynamic network of more than 14,000 alumni, HIHE has had an impact on post-secondary education throughout the world. HIHE's continuing commitment is to provide both informative and transformative learning experiences for college and university leaders with a commitment to personal growth and professional success.

[www.gse.harvard.edu/hihe](http://www.gse.harvard.edu/hihe)



## ORGANIZING COMMITTEE AND SUPPORT

The national organizing committee is led by Sourav Pal, Dibyendu Nandi and Anindita Bhadra of IISER Kolkata, and L. S. Shashidhara of IISER Pune. The collaboration with Harvard Graduate School of Education is administered by Professional Education. The Collaboration between IISER Kolkata and Harvard Graduate School of Education was facilitated by the United States-India Educational Foundation. This program is supported by the Ministry of Human Resource Development, Government of India.