

ACADEMY NEWS

INSA MEETINGS

Several meetings were held between April 21 and 23, 2014 in the Academy premises. The different Sectional Committees met for election of new Fellows of the Academy and selection of Young Scientist Awardees. The Advisory Boards for the various INSA Awards also met. These were followed by meetings of General Body and the Council on April 23, 2014.

INSA Medal for Young Scientists

The Council at its meeting on April 23, 2014 approved the award of INSA Medal for Young Scientist 2014 to 30 young researchers below the age of 35, out of 557 nominations. The award carries a medal, a certificate and cash prize of Rs. 25,000. In addition, the recipient may also be considered for research support of Rs. 5 lakh per year for three years. The awardees will also be considered for full support for a visit abroad for presenting research work at conference, or participating in collaborative research or training programme, within five years of receipt of the award. Those young scientists who have been unable to obtain a suitable placement may also be considered for an interim Fellowship, whose amount would depend upon the qualification and research experience, and contingency grant of Rs. 25,000 per year.

The following 30 young scientists were selected for the INSA Medal for Young Scientists.

- 1. Dr Sanjib Kumar Agarwalla** (b 08.04.1980), PhD, Institute of Physics, Bhubaneswar.
For his significant contributions in addressing some fundamental issues related to neutrino mixing and oscillations, in particular the type of neutrino mass hierarchy and the presence of CP violating phase in the neutrino.
- 2. Dr Suryasarathi Bose** (b 06.04.1980), PhD, Department of Materials Engineering, Indian Institute of Science, Bengaluru.
For his contributions in the processing of nano-particles dispersed in conducting co-polymer composites.
- 3. Dr Sayan Chakraborti** (b 16.07.1984), PhD, Junior Fellow, Society of Fellows, Harvard University, USA.
For his significant contributions leading to uncovering of a new class of mildly relativistic supernovae which straddle the gap between ordinary supernovae and ultra-relativistic gamma ray bursts.
- 4. Dr Vineeth Chandrasekharan Nair** (b 02.05.1980), PhD, Scientist /Engineer SD, Space Physics Laboratory, Vikram Sarabhai Space Centre, Indian Space Research Organization (ISRO), Thiruvananthapuram.
For his outstanding contributions to understanding equatorial upper atmospheric coupling processes.
- 5. Dr Abhijit Chatterjee** (b 01.12.1979), PhD, Department of Chemical Engineering, Indian Institute of Technology Bombay, Mumbai.
For his notable contributions in Material Informatics, energy systems and catalytic reactions.
- 6. Dr Soumya Das** (b 14.09.1981), PhD, Department of Mathematics, Indian Institute of Science, Bengaluru.
For his impressive contributions to the study of Fourier coefficients of modular forms which characterize cusp forms in terms of the growth of their Fourier coefficients.

7. **Dr Rohini Garg** (b 19.09.1982), PhD, INSPIRE Faculty Fellow, National Institute of Plant Genome Research (NIPGR), New Delhi.
- For her outstanding contributions in the area of plant genomics, epigenomics and transcriptomics leading to identification of development and stress related genes of plants.
8. **Dr June Ghosh** (b 19.06.1980), PhD, CSIR-Indian Institute of Chemical Biology, Infectious Diseases and Immunology Division, Kolkata.
- For her valuable contributions in the field of *Leishmaniasis* which help in understanding of molecular pathogenesis.
9. **Dr Neena Gupta** (b 24.11.1984), PhD, INSPIRE Faculty, Statistics and Mathematics Unit, Indian Statistical Institute, Kolkata.
- For solving a famous problem which was open for almost seven decades, known as Zariski Cancellation Conjecture for affine spaces. This is one of the best works in Algebraic Geometry in recent years done anywhere.
10. **Dr Amit Pratap Hogadi** (b 24.05.1979), PhD, Department of Mathematics, Indian Institute of Science Education and Research (IISER), Pune.
- For his seminal contributions to the study of fundamental groups of algebraic varieties. He has proved a conjecture of J. Kollar that the fundamental group of a quotient singularity is the same as that of its desingularization.
11. **Dr Sukanta Jash** (b 26.11.1979), PhD, Post-Doctoral Fellow, Centre for Regenerative Medicine, Richard B Simches Research Center-MGH, Harvard University, Boston, USA.
- For his notable contributions in modulation of mitochondrial function by RNA delivery.
12. **Shri Mani Krishna Venkata Karri** (b 04.07.1980), M.Tech, MSD, Mod Lab, Bhabha Atomic Research Centre, Trombay, Mumbai.
- For his work on phase transformations and deformation of h.c.p materials featuring a combination of experimental and computer simulations to address issues that are of both academic and industrial significance.
13. **Shri Ashutosh Kumar** (b 26.03.1984), M.Sc, Institute of Life Sciences, Ahmedabad University, Ahmedabad.
- For developing tools to evaluate the toxicity of nano-particles and establish the toxicity (intracellular) of Titanium based nanoparticles.
14. **Dr Mahesh Kumar** (b 18.06.1980), PhD, Assistant Professor, Indian Institute of Technology Jodhpur, Jodhpur.
- For his work on thin films of polar and non-polar Group III Nitrides as grown by Molecular Beam Epitaxy. This work has led to the fabrication of blue emitting InGaN/GaN multiple quantum well LEDs.
15. **Dr Charu Lata** (b 14.12.1981), PhD, Scientist, Division of Plant Microbe Interactions, CSIR-National Botanical Research Institute, Lucknow.
- For her involved work on Foxtail Millet Genomic resources and markers, which will help in Millet breeding.
16. **Dr Debabrata Maiti** (b 10.12.1980), PhD, Assistant Professor, Department of Chemistry, Indian Institute of Technology Bombay, Mumbai.
- For his outstanding contributions in metal mediated organic transformation.
17. **Dr Rajneesh Misra** (b 15.08.1980), PhD, Department of Chemistry, Indian Institute of Technology Indore, Indore.
- For his excellent contributions in donor-acceptor molecular synthesis for photonic and electronic applications.
18. **Dr Animesh Mukherjee** (b 21.12.1979), PhD, Department of Computer Science and Engineering, Indian Institute of Technology Kharagpur, West Bengal.

- For significant contributions in language dynamics in cognition and perception.
19. **Dr Santanu Mukherjee** (b 15.04.1980), PhD, Department of Organic Chemistry, Indian Institute of Science, Bengaluru.
- For his outstanding contributions in organo-catalytic approach to control stereochemistry at the quaternary center.
20. **Dr Vijay Pal** (b 18.09.1979), PhD, School of Environmental Sciences, Jawaharlal Nehru University, New Delhi.
- For his contributions to our understanding of the molecular mechanism underlying retrotransposition in *Entamoeba histolytica*.
21. **Dr Mithun Palit** (b 29.09.1979), PhD, Scientist 'D', Advanced Magnetics Group, Defence Metallurgical Research Laboratory, Hyderabad.
- For his work towards a comprehensive understanding of solidification, texture and phase transformations and magnetostrictive properties of Tb-Dy-Fe and Fe-Ga alloys. These fundamental studies have culminated in a practical transducer device.
22. **Dr Gayathri Pananghat** (b 30.01.1980), PhD, Indian Institute of Science Education and Research (IISER), Pune.
- For her significant contributions on the structural and functional studies of non-structural proteins of viruses, particularly Sesbania Mosaic virus.
23. **Dr Vimlesh Pant** (b 04.01.1979), PhD, Centre for Atmospheric Sciences, Indian Institute of Technology-Delhi, New Delhi.
- For demonstrating that marine aerosol number density does not linearly increase with wind speed and for the impact of this discovery in the field.
24. **Dr Mahalakshmi Radhakrishnan** (b 08.04.1980), PhD, Department of Biological Sciences, Indian Institute of Science Education and Research, Bhopal.
- For her outstanding contributions in the field of membrane protein biophysics.
25. **Shri Prakash Chandra Rout** (b 07.07.1979), M.Sc, Nuclear Physics Division, Bhabha Atomic Research Centre, Mumbai.
- For his significant contributions in developing a large area scintillator detector for the measurement of fast neutrons using the time of flight technique and for his studies on the damping of nuclear shell effect in the doubly magic ^{208}Pb region.
26. **Dr Ram Pratap Singh** (b 05.07.1981), PhD, Scientist & Endeavour Fellow, Avian Physiology and Genetics Division, Salim Ali Centre for Ornithology and Natural History, Coimbatore.
- For his extensive publication and work on Quail that can be of significance for enhancing income of farming communities.
27. **Dr Sunil Kumar Singh** (b 06.07.1980), PhD, Department of Biotechnology, Motilal Nehru National Institute of Technology (MNNIT), Allahabad.
- For his finding that Graphene and its derivatives specifically induce aggregation of platelets that has significant relevance for its medical application.
28. **Dr Ashish Kumar Srivastava** (b 03.11.1983), PhD, Nuclear Agriculture and Biotechnology Division, Bhabha Atomic Research Centre, Mumbai.
- For his work emphasizing that thiourea supplementation upregulates the expression of sulphate transporters that improve sulphur assimilation associated with redox signalling.
29. **Shri Gaurav Verma** (b 01.05.1983), M.Sc, CSIR-Institute of Genomics and Integrative Biology, Delhi.

For his outstanding contribution in JNK mediated mitochondrial cross-talk in pancreatic β cell death.

30. **Dr Ranjani Viswanatha** (b 06.02.1979), PhD, Faculty Fellow, International Centre for Materials Science, Jawaharlal Nehru Centre for Advanced Scientific Research, Bengaluru.

For her outstanding contributions to the role of defects and impurity in electronic structure and application in nanomaterials.

INSA MEDAL/LECTURE AWARDS 2014

The Academy announced the following 11 medal/lecture Awards for 2014.

(A) Medals Instituted by the Academy

1. **The Homi Jehangir Bhabha Medal** to **Professor Varun Sahni, FNA**, Inter-University Centre for Astronomy and Astrophysics (IUCAA), Pune.
2. **The Sunder Lal Hora Medal** to **Professor BK Thelma, FNA**, Department of Genetics, University of Delhi (South Campus), New Delhi.
3. **The Prasanta Chandra Mahalanobis Medal** to **Professor MG Nadkarni, FNA**, Professor Emeritus, Department of Mathematics, University of Mumbai, Mumbai.
4. **The Syed Husain Zaheer Medal** to **Professor B Yegnanarayana, FNA**, Professor and Microsoft Chair, International Institute of Information Technology, Hyderabad.

(B) Endowed Medals

5. **Professor KP Bhargava Memorial Medal** to **Professor KN Agarwal, FNA**, Formerly Professor Paediatrics, University College of Medical Sciences & GTBH, Delhi.
6. **Professor Bhim Shanker Trivedi Memorial Medal** to **Dr Chitra Mandal, FNA**, Scientist-H, JC Bose National Fellow and Head, Cancer

Biology and Inflammatory Disorder, CSIR-Indian Institute of Chemical Biology, Kolkata.

(C) Endowment Lecture Awards

7. **Professor Bal Dattatraya Tilak Lecture Award** to **Dr Bijay Singh, FNA**, INSA Senior Scientist, Department of Soils Science, Punjab Agricultural University, Ludhiana.
8. **The Bires Chandra Guha Memorial Lecture Award** to **Dr Ch. Mohan Rao, FNA**, Director, CSIR-Centre for Cellular & Molecular Biology, Hyderabad.
9. **Professor Sadhan Basu Memorial Lecture Award** to **Dr Sourav Pal, FNA**, Director, CSIR-National Chemical Laboratory, Pune.
10. **Professor Har Swarup Memorial Lecture Award** to **Professor PD Prasada Rao, FNA**, Formerly Professor and Head, Department of Zoology, Nagpur University, Nagpur.
11. **Dr MR Das Memorial Lecture Award** to **Dr Balaram Ghosh, FNA**, Scientist 'H'/ Outstanding Scientist of CSIR and Head, Genomics & Molecular Medicine Unit, Institute of Genomics & Integrative Biology, Delhi.

INTERNATIONAL ACTIVITIES

Visit of Overseas Delegates to INSA

H.E. Hamid Reza Amiri Nia, Advisor to the Presidency and Head of the Centre for Innovation and Technology Cooperation visited INSA on March 4, 2014. He was accompanied by Mr. Hossein Ahmadi, Manager, Department of International Affairs, Mr. Haj Ebrahimi, Advisor of the Centre, Mr. Mohamad Hosain Shojaee, Deputy Chief of Mission and Dr M. Hassan Shafazand, Head of Technology Cooperation Section of the Embassy of Islamic Republic of Iran. The delegation held a discussion meeting with Professor R Gadagkar, President and Dr DM Salunke, Vice-President (International Affairs), INSA to strengthen scientific collaboration between the two countries.

Overseas Visits of INSA Delegations

- Dr Krishan Lal, the immediate Past-President of INSA, visited Korea on the invitation of Professor Won-Hoon-Park, President, Association of Academies and Societies of Sciences in Asia (AASSA), during March 20-22, 2014 to participate in the meeting on Sustainable Development in Asia (SDA II).
- A 5 member INSA delegation consisting of Professor Raghavendra Gadagkar, President INSA, Dr DM Salunke, Vice-President (International Affairs), Professor SK Saidapur, Vice-President (Publications/Informatics), Professor LMS Palni, FNA, Former Director, GB Pant Institute of Himalayan Environment and Development, Almora and Dr Alok Moitra, Executive Director, INSA visited Nepal on the invitation of Professor Dr Surendra Raj Kafle, Vice Chancellor, Nepal Academy of Science & Technology (NAST), Nepal, from April 1-4, 2014. The main aim of the visit was to share the functioning and activities to strengthen joint efforts of the two Academies for scientific interactions through exchange of visits and collaborative activities.

During this visit, the following lectures were delivered:

Professor R Gadagkar delivered a lecture on *War and Peace - Conflict and Cooperation in an Insect Society* at the Nepal Academy of Science & Technology (NAST) on April 1st, 2014 and at ICIMOD on April 2nd, 2014.

Dr DM Salunke delivered a lecture on *Biology at the interface of physics & chemistry: molecules, crystals and cellular mechanisms* at Tribhuvan University, Nepal on April 3rd, 2014.

Professor LMS Palni delivered a lecture on *Biodiversity is Life: Biodiversity is our Life* at Tribhuvan University, Nepal on April 3rd, 2014.

SCIENTIFIC MEETINGS DURING MARCH - JUNE 2014

A meeting of the National Organizing Committee of Committee on Data for Science & Technology (CODATA) 2014 was held on April 5th, 2014 at INSA.

An IGBP Symposium and meeting of its Scientific Committee were held during April 7-10, 2014 in Bengaluru. In continuation to this meeting, three IGBP officials, namely Professor James Syvitski, Chair, IGBP, Dr Sybil Seitzinger, Executive Director, IGBP and Dr Jan Willem, Treasurer, IGBP together with Professor SK Satheesh, Chair, IGBP-WCRP National Committee and Professor AK Singhvi, Member of the National Committee, visited the Academy on April 11, 2014 for a discussion meeting with Vice-Presidents of the INSA.

A meeting of Local Organizing Committee (LOC) of CODATA (Committee on Data for Science & Technology) 2014 was held on April 11, 2014 at INSA premises to discuss issues related to organization of forthcoming SciDataCon 2014.

The 9th History of Science Project Investigators' meeting was organized during April 14-15, 2014 at the premises of the Academy. The Principle Investigators of the twenty two ongoing projects presented their annual progress reports while thirteen new proposals were considered for support. A meeting of the Research Council and National Commission for History of Science was also held on April 15, 2014 in which nineteen ongoing projects were recommended for continued support during the year 2014-15. Nine new proposals were also approved.



9th History of Science Project Investigators Meeting

A seminar on *Open Data in Education and Research*, Pre-SciDataCon 2014, was organized at INSA on April 19, 2014. This was attended by representatives from Research Institutions, Educational Institutes and Government agencies.



Delegates attending the Pre-SciDataCon 2014 Seminar

The annual meetings of 21 National committees, including the Centre for International Cooperation in Science (CICS) and the ICSU National Committee, were held on ICSU Day, April 20, 2014 at INSA premises.

A group discussion meeting on Issues of Climate Change was held at INSA premises with Professor V Rajamani, FNA, School of Environmental Sciences, Jawaharlal Nehru University, New Delhi on May 19, 2014 as the Convenor.



Delegates discussing issues on Climate Change

An interactive session of Science Academies' Summer Research Fellows and their mentors was organized by the Delhi Local Chapter at the INSA premises on June 11, 2014. The meeting was chaired by Professor R. Gadagkar, President INSA with Professor N Mukunda, Professor KL Sebastian and Professor JP Khurana, Vice-President (INSA) in the panel. A large number of summer research fellows, working in Delhi/New Delhi, and their mentors interacted with the panel. The fellows and mentors, while applauding the programme initiated by the three Academies viz., INSA, IASc and NASI, also discussed some problems faced by them during the period of research.

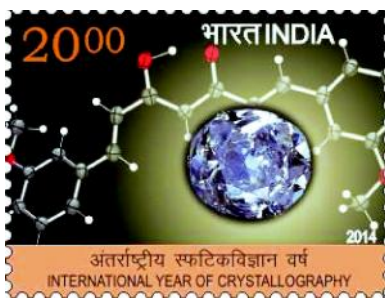


A view of Interactive session of Summer Research Fellowship

RELEASE OF A POSTAGE STAMP BY IUCR NATIONAL COMMITTEE

The postal department of Govt. of India released a postage stamp on January 30, 2014 to commemorate the IYCr 2014. This stamp depicts a diamond, known for its hardness, and structure of curcumin, the component that provides colour to turmeric. The 20

denomination stamp is now available for purchase at post offices. This was coordinated by Professor Gautam R Desiraju, Indian Institute of Science, Bangalore and President, International Union of Crystallography. It was followed by a lecture on *Crystallography in India: Past, Present and Future* by Professor TN Guru Row, FNA, Indian Institute of Science, Bangalore. Professor R Gadagkar, President, INSA presented a vote of thanks to the participants.



INDIAN SCIENTISTS NOMINATED FOR VARIOUS POSITIONS OF ICSU & ITS UNIONS

Dr Akhilesh Mishra, FNA is nominated for the membership of Virology Advisory Council of International Union of Microbiological Societies (IUMS).

Professor Ajit Kembhavi, Director, Inter University Centre for Astronomy and Astrophysics is nominated for the position of Vice-President, International Astronomical Union (IAU) Executive Committee.

Dr V Prakash, Distinguished Scientist of CSIR-Central Food Technological Research Institute at JSS-MVP, JSS Technical Institution Campus, Mysore is nominated for the position of President-Elect of International Union of Food Science & Technology (IUFoST) and IUFoST Council Member for the term 2014-2016.

WORKSHOP/SYMPOSIUM/CONFERENCE SUPPORTED BY THE ACADEMY

7th International Conference on Dusty Plasmas (2014)

An IUPAP sponsored 7th International Conference on Dusty Plasmas (2014) was held at Delhi University, Delhi during March 3-7, 2014 under the convenorship of Professor Avinash Khare, FNA, Department of Physics and Astrophysics, University of Delhi, Delhi.

Workshop on Current Trends in Structural Biology

A workshop on Current Trends in Structural Biology (CTSB) in Multi Drug Resistant Bacterial Therapeutics and Thrombosis was organised by the National Committee of International Union of Crystallography (IUCr) as part of the International Year of Crystallography (IYCr) 2014 during February 27-28, 2014 at the All India Institute of Medical Sciences, New Delhi. This was also attended by Professor Robert Huber, Noble Laureate and Emeritus Professor, Max-Planck Institute for Biochemistry, Germany.

INSA-JNU lecture

Professor Robert Huber, NL, Emeritus Professor, Max-Planck Institute for Biochemistry, Germany delivered a lecture on *Beauty and Fitness for Purpose: The Architecture of Proteins, the Building Blocks of Life* on March 4th, 2014 at JNU, New Delhi under INSA-JNU lecture series.



Professor Robert Huber, NL, delivering a lecture at JNU

After the lecture, he was inducted as Foreign Fellow of INSA



Professor Robert Huber was presented the scroll by President of INSA on being inducted as Foreign Fellow of the Academy

SUPPORT TO VISITING SCIENTISTS

Twenty two Indian scientists were supported by the Academy for attending ICSU/Non-ICSU sponsored international conferences abroad.

2 Indian scientists namely Dr Manoj Majee, Young Scientist, National Institute of Plant Genome Research (NIPGR), New Delhi and Ashutosh Gupta, Assistant Professor, Department of Chemistry, Kashi Vidyapeeth University, Varanasi and 2 foreign scientists namely Dr Rahul Santhanam, Reader, School of Informatics, University of Edinburgh, UK and Dr (Mrs) Marcela Svopodova, Senior Researcher, Institute of Geology, Academy of Sciences of the Czech Republic, were exchanged under INSA Bilateral Exchange Programme.

AWARD LECTURES

The Sisir Kumar Mitra Memorial Lecture (2012): Professor SK Sopory, FNA, Vice Chancellor, Jawaharlal Nehru University, New Delhi, delivered The Sisir Kumar Mitra Memorial award lecture on *Food Security: Role of Biotechnology* at Central University of Gujarat, Gandhinagar on March 1st, 2014.

Dr Nityanand Endowment Lecture (2012): Dr HK Majumder, FNA, Scientist G, CSIR-Indian Institute of Chemical Biology, Kolkata, delivered Dr Nityanand Endowment lecture on *Drug Development against Leishmaniasis: Where do we stand* at University of Delhi, South Campus, New Delhi on March 3rd, 2014.



Dr HK Majumder receiving award and citation from Dr DM Salunke after delivering his lecture

The Aryabhata Medal Lecture (2012): Professor KK Talwar, FNA, Chairman, Department of Cardiology, Max Healthcare, New Delhi, delivered The Aryabhata Medal lecture on *Heart Failure (South Asian Region) - Ongoing Challenges* at Postgraduate Institute of Medical Education & Research, Chandigarh on March 22nd, 2014.



Professor KK Talwar receiving citation from Professor Amod Gupta, PGIMER, Chandigarh

5th Etienne Wolff-Ramanujan Lecture (2014): Professor Nicole Le Douarin, Secrétaire perpétuel honoraire, French Academy of Sciences, delivered the Fifth Etienne Wolff-Ramanujan Lecture on *The Neural Crest, source of Stem Cells and important asset in the development and evolution of Vertebrates* at INSA on April 21st, 2014.



Professor Nicole Le Douarin receiving plaque from President INSA after her award lecture

Professor Darshan Ranganathan Memorial Lecture (2013): Dr Madhu Dikshit, FNA, Chief Scientist & Head, Division of Pharmacology, CSIR-Central Drug Research Institute, Lucknow, delivered Professor Darshan Ranganathan Memorial Lecture at CSIR-Centre for Cellular & Molecular Biology, Hyderabad on April 25th, 2014.

SCIENCE AND SOCIETY PROGRAMME

Public Lectures at INSA

Professor MK Bhan, National Science Professor, Indian Institute of Technology, New Delhi, delivered a public lecture on *Understanding and Accelerating Progress in Children Nutrition: Is There A Way Forward?* on March 19th, 2014.



Professor MK Bhan being honoured by President INSA, Professor R Gadagkar after his public lecture

Professor RL Karandikar, Director, Chennai Mathematical Institute, Chennai, delivered a public lecture on *Interface of Mathematics with Society* on April 22nd, 2014.



President INSA, Professor Gadagkar congratulating Professor RL Karandikar after his lecture

Professor SV Raghavan, Scientific Secretary, Office of the Principal Scientific Advisor to the Government of India, delivered a public lecture on *National Knowledge Network Enabling a Paradigm Shift in Research Infrastructure and Global Science Cooperation* on May 9th, 2014.



Professor SV Raghavan with Dr Krishan Lal after his public lecture

Professor D Balasubramanian, Director of Research, LV Prasad Eye Institute, Hyderabad, delivered a public lecture on *Communicating Science with Public and Policy Makers* on June 11th, 2014 at the INSA premises.



Professor D Balasubramanian addressing the audience during the public lecture

AWARDS AND HONOURS TO INSA FELLOWS

CR Rao Gallery

A new gallery celebrating the life and work of the world-renowned statistician and RSS Guy medallist, Professor CR Rao, FNA, was inaugurated in December 2013 and is now open to public.

The gallery was inaugurated by Dr Venkatraman Ramakrishnan, Nobel Laureate in Chemistry who unveiled the gallery plaque, with Tejaswini Rao, the designer of the gallery, Professor CR Rao and Bhargavi Rao also being present.



Dr V Ramakrishnan inaugurating the gallery in presence of Professor CR Rao, Mrs. Bhargavi Rao and Tejaswini Rao, the designer of the gallery

The gallery, based at the CR Rao Advanced Institute of Mathematics, Statistics and Computer Science, at Hyderabad, documents Prof. CR Rao's life in Statistics spanning 65 years out of which 40 years were spent in India at the Indian Statistical Institute and 25 years at Penn State and Pittsburgh Universities in USA. Professor CR Rao, is one of the most eminent living statisticians, described as 'legend' by the American Statistical Association. His most famed work includes the Cramér–Rao bound and the Rao–Blackwell theorem.

Professor KL Chopra, FNA has been awarded with a Life Time Contribution Award in Engineering by Indian National Academy of Engineering. He has also been conferred the DSc (*hc*) degrees by

Vivekananda Chhattisgarh Technical University and by Shiksha O Anusandhan (SOA) University, Bhubaneswar.

Professor BA Dasannacharya, FNA has been awarded the The Asia-Oceania Neutron Scattering Association (AONSA) Prize at the International Conference on Neutron Scattering-2013, recently held in Edinburgh, in recognition of his outstanding research career with a significant impact or contribution to the use or development of neutron science and technology in the Asia-Oceania Region.

Professor NK Mondal, FNA has been awarded with DSc (*hc*) by University of Burdwan, West Bengal for his contribution in promotion of science education and research in the country.

Dr J Nanda, FNA received the 'Glory of India' Award from India International Friendship Society at India International Centre, New Delhi.

Dr R Rajaraman, FNA has been awarded with Leo Szilard Award by Professor Malcolm Beasley of Stanford University, President of American Physical Society for his outstanding contributions to promote global security issues, through critical analyses of nuclear weapons and nuclear energy programs in India and associated risks in the subcontinent, and efforts to promote peace and nuclear security in South Asia through extensive engagements and writings.



Professor R Rajaraman receiving the Leo Szilard Award from Professor Malcom Beasley, President of American Physical Society

RECENT PUBLICATIONS OF THE ACADEMY

Indian Journal of History of Science (IJHS)

Vol. 49, No.1 (March 2014) issue of *IJHS* has been published with papers on *Ho* Tribes of Eastern India and their Metallurgical Traditions, *Makaradhvaja* : A Herbo-mineral formulation in *Rasaúâstra*, 1803 Earthquake in Garhwal Himalaya – Archival Materials with Commentary, India's Notable Presence in Linnaeus' Botanical Classification and Medical Maladies of Sir George Everest during the Great Trigonometric Survey of India. Section on historical notes includes papers on Rule of Logic in Gautama's *Nyâya-Sûtra*, Inquisitiveness for Science in Tagore Poems, Botanist Jaykrishnabhai (1849-1929) and Bengal School of Fluid Mechanics 19-20th Centuries. The issue also includes project reports on *Jyotsnikâ*: An Ayurvedic Text on *Vi?avidyâ* and Forestry Research in India (1861-2005). Additionally the issue includes features like book reviews, seminar and conference news.

Indian Journal of Pure and Applied Mathematics (IJPAM)

Vol. 45, No. 1, 2 & 3 (February, April and June 2014) has been published.

OBITUARY

Prasanna K Mohanty

Prasanna K Mohanty (*b* April 01, 1934; *d* March 09, 2013) obtained his MS and PhD in Botany at the University of Illinois, USA. His doctoral work elucidated the nature of slow chlorophyll (*chl*) fluorescence transients in algae, chloroplasts and leaves. He joined Jawaharlal Nehru University, New Delhi, in 1973, as Associate Professor from where he superannuated as Professor of Bioenergetics in 1999. Since then he was associated with the Regional Plant Resource Centre, Bhubaneswar, as INSA Senior Scientist.



Professor Mohanty's research involved works on metal-ion specific interference of electron transport; energy transfer in photosynthesis; *in vivo* spectroscopic probing of drought, salinity, osmotic and high temperature stresses; identifying PBS as target of UV-B stress in cyanobacteria; and biohydrogen production from heterocystous cyanobacteria. As the Senior Scientist of INSA, he had been engaged in collaborative studies on salinity tolerance-strategies in mangroves and metal ion induced signalling.

Professor Mohanty received several awards including Gold medal of NASI, Allahabad, JC Bose Award of INSA and Panchanan Maheshwari Memorial Lecture Award of INSA in 1996. He was a Fellow of National Academy of Sciences (India), Allahabad. He was a Founder Fellow of National Academy of Agricultural Sciences (India) and Founder Member of Society for Scientific Values.

Professor Prasanna K Mohtany was elected to the Fellowship of Indian National Science Academy in 1988.

ANNOUNCEMENT**DEPUTATION OF INDIAN SCIENTISTS ABROAD UNDER
BILATERAL EXCHANGE PROGRAMME-2015**

Applications are invited from outstanding scientists/researchers holding Ph.D. degree and having regular positions in recognized S&T institutions/universities and who are actively engaged in research in frontline areas for deputation abroad during the calendar year 2015 in all fields of Science including Engineering, Medicine and Agriculture for short term (2-4 weeks for senior scientists) and long term visits (3 months for junior/younger scientists) under the Scientific Bilateral Exchange Programme with overseas Academies/Organizations in **Afghanistan, Austria, China, Czech Republic, France, Germany, Hungary, Iran, Israel, Kenya, Mauritius, Morocco, Nepal, Philippines, Poland, Russia, Scotland, Slovak Republic, Republic of Slovenia, South Africa, Sri Lanka, Sudan, Taiwan and Turkey.**

The detailed guidelines and application form can be downloaded **<http://www.insaindia.org>**. Hard copy of the application duly completed and endorsed by the Head of the Institution should be submitted latest by **August 16, 2014 to The Assistant Executive Director (International), Indian National Science Academy, Bahadur Shah Zafar Marg, New Delhi - 110002**. A soft copy of complete application (single PDF file only) should also be emailed to: **bepinsa2015@gmail.com**. Please include your **Name, Area of Research and Proposed Country** in the subject line of your email. The soft copy file name should be saved as: *Name of Applicant_Proposed Country*. Incomplete applications will be rejected and no further correspondence shall be made.