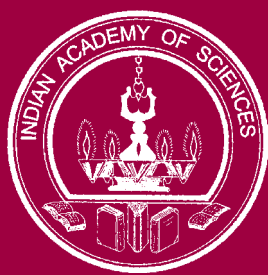


INDIAN ACADEMY OF SCIENCES

Bangalore 560 080



76th ANNUAL MEETING

Venue: National Institute of Oceanography, Goa
12 – 14 November 2010

P R O G R A M M E

12 November 2010 (Friday)

- 0930-1100 **Inauguration and Presidential Address**
A K Sood, Indian Institute of Science, Bangalore
Nanotube dynamo and graphene
- 1100-1200 Tea Break and Group Photograph
- 1200-1300 **Lectures by Fellows/Associates**
- 1200 **Bharat B Chattoo**, MS University, Baroda
Engineering plants for disease resistance: Challenges and opportunities
- 1220 **U Ramamurty**, Indian Institute of Science, Bangalore
Structural materials for the future: The case of bulk metallic glasses
- 1240 **Samar K Das**, University of Hyderabad, Hyderabad
Metal-oxide based inorganic systems toward practical applications
- 1300-1400 Lunch Break
- 1400-1650 **Symposium on 'Indian estuaries'**
- 1400 **M Dileep Kumar**, National Institute of Oceanography, Goa
Estuaries - An introduction
- 1420 **D Shankar**, National Institute of Oceanography, Goa
Nature of freshwater influx in Indian estuaries
- 1440 **S R Shetye**, National Institute of Oceanography, Goa
Monsoonal estuaries
- 1500-1530 Tea Break
- 1530 **V V S S Sarma**, National Institute of Oceanography, Goa
Biogeochemistry in estuarine systems
- 1550 **A C Anil**, National Institute of Oceanography, Goa
Influence of monsoon on estuarine ecosystem
- 1610 **V Purnachandra Rao**, National Institute of Oceanography, Goa
Impact of mining on suspended materials in estuaries
- 1630 **M D Zingde**, National Institute of Oceanography, Goa
Status of pollution in Indian estuaries
- 1700-1730 Tea Break
- 1800-1900 **Public Lecture by C Raja Mohan**, Strategic Affairs Editor, The Indian Express, New Delhi
India and the Indian Ocean: In search of a strategic role
- 1930-2030 **Cultural Programme**

13 November 2010 (Saturday)

- 0900-0940 **Special Lecture by A K Singhvi**, Physical Research Laboratory, Ahmedabad
Synergistic mutualism between geology and physics: The case of luminescence geochronometry
- 0940-1020 **Lectures by Fellows/Associates**
- 0940 **Samrat Mukhopadhyay**, Indian Institute of Science Education and Research, Chandigarh
How do proteins misfold and aggregate?
- 1000 **N K Mondal**, Tata Institute of Fundamental Research, Mumbai
Neutrinos: A new window to the Universe
- 1020-1050 Tea Break
- 1050-1300 **Symposium on 'Stem cells in development and regeneration: From the bench to bedside and back'**
- 1050 **Satyajit Mayor**, National Centre for Biological Sciences, Bangalore
Local and regulated organization of membrane components during stem cell differentiation
- 1120 **Geeta K Vemuganti**, LV Prasad Eye Institute, Hyderabad
Cell therapy for ocular surface: A successful model of regenerative medicine
- 1145 **Shubha Tole**, Tata Institute of Fundamental Research, Mumbai
How stem cells build the brain
- 1210 **Vidita A Vaidya**, Tata Institute of Fundamental Research, Mumbai
Adult neural stem cells: Relevance to the treatment of psychiatric disorders
- 1235 **Shyamala Mani**, Indian Institute of Science, Bangalore
Stem cells and the brain
- 1300-1400 Lunch Break
- 1400-1540 **Lectures by Fellows/Associates**
- 1400 **Pawan Dewangan**, National Institute of Oceanography, Goa
Marine gas hydrates – an untapped non-conventional energy resource
- 1420 **J Narasimha Moorthy**, Indian Institute of Technology, Kanpur
Molecular design for manipulation of organic material properties
- 1440 **R Sankaranarayanan**, Centre for Cellular & Molecular Biology, Hyderabad
Proofreading during translation of the genetic code
- 1500 **Rama Govindarajan**, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore
Vortices in density gradients: Mergers, split-ups and death

- 1520 **R Sowdhamini**, National Centre for Biological Sciences, Bangalore
Distant relationships amongst protein domains
- 1540-1610 Tea Break
- 1830-1930 **Public Lecture by Kaushik Basu**, Chief Economic Adviser, Govt of India, New Delhi
Higher education and economic development

14 November 2010 (Sunday)

- 0900-0940 **Special Lecture by Kanury V S Rao**, International Centre for Genetic Engineering and Biotechnology, New Delhi
The dynamics of host-pathogen interactions in TB infection
- 0940-1300 **Lectures by Fellows/Associates**
- 0940 **K Subramanian**, Inter-University Centre for Astronomy and Astrophysics, Pune
Magnetizing the Universe
- 1000 **Sudeshna Sinha**, Indian Institute of Science Education and Research, Chandigarh
Logical stochastic resonance: Exploiting the interplay between noise and nonlinearity to enhance computations
- 1020-1050 Tea Break
- 1050 **Anurag Kumar**, Indian Institute of Science, Bangalore
Design and optimization problems in wireless sensor networks
- 1110 **Amitabha Mukhopadhyay**, National Institute of Immunology, New Delhi
Hemoglobin endocytosis in 'Leishmania': A novel target
- 1130 **T S S R K Rao**, Indian Statistical Institute, Bangalore
An invitation to the geometry of higher dual spaces
- 1150 **Kalobaran Maiti**, Tata Institute of Fundamental Research, Mumbai
Puzzles in magnetism
- 1210 **Paramjit Khurana**, University of Delhi South Campus, New Delhi
Genes associated with embryogenesis and abiotic stress tolerance in wheat
- 1230 **Suhrit Ghosh**, Indian Association for the Cultivation of Science, Kolkata
To mix or not to mix? Assembly of donor and acceptor chromophores

For enquiries, contact: M Dileep Kumar or V Purnachandra Rao, National Institute of Oceanography, Dona Paula 403004, Goa Tel: 0832-245 0201

ALL ARE WELCOME