

# INDIAN ACADEMY OF SCIENCES

Bangalore 560 080

Seventy-eighth Annual Meeting  
Wadia Institute of Himalayan Geology, Dehra Dun  
2 – 4 November 2012

## TENTATIVE PROGRAMME

### 2 November 2012 (Friday)

0900-0930	<b>Registration</b>
0930-1100	<b>Inauguration &amp; Presidential Address</b> <b>A K Sood, IISc, Bangalore</b>
1100-1200	Tea break and Group Photograph
1200-1300	<b>Lectures by Fellows/Associates</b>
1200	<b>Amita Aggarwal, SGPGIMS, Lucknow</b> <i>Immune mechanisms in Juvenile idiopathic arthritis (JIA)</i>
1220	<b>A K Shukla, IISc, Bangalore</b> <i>Electric Vehicles: Constraints, Concerns and Challenges</i>
1240	<b>V Ravindran, Harish-Chandra Research Institute, Allahabad</b> <i>What is the Higgs Boson?</i>
1300-1400	Lunch break
1400-1500	<b>Lectures by Fellows/Associates</b>
1400	<b>Anindya Sarkar, IIT, Kharagpur</b> <i>Evolution of the Ganges delta from ice age to 21st century and endangered Sundarbans</i>
1420	<b>V Ravi, NIMHANS, Bangalore</b> <i>A novel technology for simultaneous detection of multiple pathogens causing acute encephalitis in India</i>
1440	<b>Samik Nanda, IIT, Kharagpur</b> <i>Scaffold oriented synthesis (SOS), a new strategy for accessing natural products and new chemotypes</i>
1500-1530	<b>Tea break</b>
1530-1730	<b>Symposium – “Science of the Himalaya”</b>
1530	<b>Pradeep Srivastava, WIHG, Dehra Dun</b> <i>Evolution of Himalaya: A look through Ganga River System</i>
1600	<b>A K Jain, CBRI, Roorkee</b> <i>When did India-Asia collide and make the Himalaya?</i>
1630	<b>Anil Kulkarni, IISc, Bangalore</b> <i>State of Himalayan glaciers</i>
1700	<b>J R Kayal, Jadavpur University, Kolkata</b> <i>Himalayan Tectonic Model and the Strong-Great Earthquakes</i>
1730-1800	Tea break
1800-1900	<b>Public lecture</b> <b>Mohan Agashe, Pune</b>
	<b>Cultural Programme</b>
	<b>Dinner</b>

### 3 November 2012 (Saturday)

0900-0940	<b>Special Lecture</b> <b>Rohini Godbole, IISc, Bangalore</b>
0940-1020	<b>Lectures by Fellows/Associates</b>
0940	<b>Pradip Dutta, IISc, Bangalore</b> <i>Multiphase convection during solidification of binary alloys</i>
1000	<b>A R Rao, TIFR, Mumbai</b> <i>What happens close to a Black Hole?</i>
1020-1050	Tea break
1050-1300	<b>Symposium on the Computing Legacy of Alan Turing</b>
	<b>R K Shyamasundar, TIFR, Mumbai</b> <i>Computing Legacy of Alan Turing</i>
	<b>Manindra Agarawal, IIT, Kanpur</b> <i>Turing Machines and the Development of Complexity Theory</i>
	<b>Ramesh Hariharan, Strand Genomics Ltd, Bangalore</b> <i>Patterns in Biology and the Program of Life</i>
	<b>V Arvind, IMSc, Chennai</b> <i>Algorithmic randomness, real numbers and computability</i>
1300-1400	Lunch break
1400-1540	<b>Lectures by Fellows/Associates</b>
1400	<b>Indranil Dasgupta, Univ. of Delhi South Campus, New Delhi</b> <i>Viruses as a tool for gene expression and silencing in plants</i>
1420	<b>Abhishek Dhar, RRI, Bangalore</b> <i>Levy walk description of anomalous heat transport</i>
1440	<b>Debasisa Mohanty, NII, New Delhi</b> <i>Structural bioinformatics approach for deciphering protein interaction networks</i>
1500	<b>Utpal S Tatu, IISc, Bangalore</b> <i>Chaperoning parasitism</i>
1520	<b>Purnima Bhargava, CCMB, Hyderabad</b>
1540-1610	Tea break
1610-1730	<b>Business Meeting of Fellows</b>
1730	Tea break
1830-1930	<b>Public Lecture</b> <b>Shyam Saran, Chairman, Research and Information System for Developing Countries</b> <i>The Challenge of Climate Change</i>
1930	<b>Dinner</b>

## 4 November 2012 (Sunday)

0900-0940	<b>Special Lecture</b> <b>V S Chauhan, ICGEB, New Delhi</b> <i>Current challenges in research of infectious diseases; malaria and tuberculosis</i>
0940-1300	<b>Lectures by Fellows/Associates</b>
0940	<b>Anuranjan Anand, JNCASR, Bangalore</b> <i>Genetics of a human epilepsy syndrome triggered by tactile and temperature cues</i>
1000	<b>Aparna Dutta Gupta, Univ. of Hyderabad, Hyderabad</b> <i>Ecofriendly management of insect pests: an attempt to identify alternate molecules and targets</i>
1020-1050	Tea break
1050	<b>Lalit Kumar, AIIMS, New Delhi</b> <i>Life style and Cancer</i>
1110	<b>Ram Ratan Yadav, BSIP, Lucknow</b> <i>Tree ring archives of past climate: Gauging the modern conditions</i>
1130	<b>S Balasubramanian, JNCASR, Bangalore</b> <i>Modelling Complex Molecular Fluids</i>
1150	<b>Amit P Sharma, ICGEB, New Delhi</b> <i>Structural biology of malaria parasite proteins: Insights and implications for inhibitor discovery</i>
1210	<b>Abhaya Indrayan, Noida</b> <i>Statistical fallacies in empirical research</i>
1230	<b>Arup K Pal, ISI, New Delhi</b>
1300-1400	Lunch

**Visit to places of interest - Mussoorie, Rishikesh, Haridwar, Dhanaulti**