

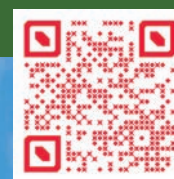


INDIAN ACADEMY OF SCIENCES

Bengaluru

83rd ANNUAL MEETING

3–5 November 2017, NEHU, Shillong




PROGRAMME

3 NOVEMBER 2017, FRIDAY

0900–0930 Registration

Session 1A: Inauguration and Presidential Address


 **0930–1100 Ram Ramaswamy**, Jawaharlal Nehru University, New Delhi
The many flavours of synchrony


1100–1115 Group photograph (Venue: Amphitheatre)

1115–1200 *Tea break*

Session 1B: Inaugural Lectures by Fellows

Chairperson: **M M Sarin**, Physical Research Laboratory, Ahmedabad


 **1200–1220 Shailesh Nayak**, Ministry of Earth Sciences, New Delhi
Towards the understanding of triggered earthquakes


 **1225–1245 Gobinda Majumder**, Tata Institute of Fundamental Research, Mumbai
A journey to the discovery of Higgs Boson

1250–1400 *Lunch break*

Session 1C: Inaugural Lectures by Fellow/Associate

Chairperson: **S Ananthkrishnan**, Savitribai Phule Pune University, Pune


 **1400–1420 G D Yadav**, Institute of Chemical Technology, Mumbai
Selectivity engineering in sustainable production of chemicals, fuels and energy from biomass and carbon dioxide


 **1425–1445 Abhishek Banerjee**, Indian Institute of Science, Bengaluru
What is finiteness?


1450–1520 *Tea break*

Session 1D: Symposium: 'New technologies changing our lives'


Chairperson: **N Viswanadham**, Indian Institute of Science, Bengaluru


 **1520–1530 Introduction**

 **1530–1600 Navakanta Bhat**, Indian Institute of Science, Bengaluru
PathShodh: A journey from science to product

 **1600–1630 V Padmanabhan**, Microsoft Research India, Bengaluru
Low-cost IoT to address societal challenges

 **1630–1700 A Bharadwaj**, Indian Institute of Science, Bengaluru
IoT and its applications for smart cities


 **1700–1730 Jaywant H Arakeri**, Indian Institute of Science, Bengaluru
Technological and scientific issues related to precision agriculture

 **1730–1740 Discussion**

1740–1800 *Tea break*

Session 1E: Public lecture

Chairperson: **Ram Ramaswamy**, Jawaharlal Nehru University, New Delhi

 **1800–1900 David R Syiemlieh**, Union Public Service Commission, New Delhi
Percival Spear: Historian and Indophile

1930 *Dinner*

4 NOVEMBER 2017, SATURDAY


Session 2A: Special Lecture


Chairperson: **S Chandrasekaran**, Indian Institute of Science, Bengaluru

 **0900–0940 R Bhatia**, Ashoka University, Sonapat
Averaging of positive definite matrices

Session 2B: Inaugural Lectures by Fellows

Chairperson: **Veena K Parnaik**, Centre for Cellular & Molecular Biology, Hyderabad

 **0940–1000 S Sankararaman**, Indian Institute of Technology Madras, Chennai
Restricting the rotation of triple bond through π -stacking interactions in molecular hinges


 **1005–1025 Maneesha S Inamdar**, Jawaharlal Nehru Centre for Advanced Scientific Research, Bengaluru
Stuck in traffic: Transport and energy regulation in blood stem cells


1030–1050 *Tea break*


Session 2C: Symposium: 'Earth science of the North-East'


Chairperson: **R Ramesh**, National Institute of Science Education and Research, Bhubaneswar

1050–1100 Introduction

 **1100–1130 Devesh Walia**, North-Eastern Hill University, Shillong
Study on active tectonics of Shillong plateau

 **1130–1200 Rajneesh Bhutani**, Pondicherry University, Puducherry
Origin of Manipur ophiolite complex, Indo-Myanmar range, North-Eastern India

 **1200–1230 Amalava Bhattacharyya**, Birbal Sahni Institute of Paleosciences, Lucknow
Changes of vegetation vis-à-vis climate since last several thousand years at North-East India


 **1230–1300 Jyotiranjana S Ray**, Physical Research Laboratory, Ahmedabad
Cretaceous carbonate-alkaline-basaltic magmatism in North-Eastern India and Gondwanaland breakup


1300–1310 Discussion


1310–1400 *Lunch break*


Session 2D: Inaugural Lectures by Associates/Fellows

Chairperson: **H M Antia**, Tata Institute of Fundamental Research, Mumbai

 **1400–1420 Aditya Kumar**, Tezpur University, Tezpur
Unveiling DNA structural properties of promoter regions of prokaryotic transcriptome and their role in gene expression

 **1425–1445 Devendra K Ojha**, Tata Institute of Fundamental Research, Mumbai
Star formation in the Milky Way Galaxy

 **1450–1510 Giridhar U Kulkarni**, Centre for Nano and Soft Matter Science, Bengaluru
From mud cracks to optoelectronic devices – Our efforts in translating invention to technology

 **1515–1535 Y Dhandapani**, Indian Statistical Institute, Bengaluru
Geometry and topology on random point clouds


1540–1600 *Tea break*

1600–1730 **Business Meeting of Fellows** (Venue: Auditorium, Old Guest House)

1730–1800 *Tea break*

Session 2E: Public Lecture

Chairperson: **Ram Ramaswamy**, Jawaharlal Nehru University, New Delhi

 **1800–1900 Sanjoy Hazarika**, Commonwealth Human Rights Initiative, New Delhi
Dilli door ast? The margins, memory and identity


1900–2000 Cultural Programme


2000 *Dinner*


5 NOVEMBER 2017, SUNDAY

Session 3A: Inaugural Lectures by Associates/Fellow

Chairperson: **S Sivasanker**, Indian Institute of Technology Madras, Chennai

 **0900–0920 K Yhosu**, Nagaland University, Lumami
Remote sensing and GIS application for geohazard studies


 **0925–0945 Ashutosh Ghosh**, University of Calcutta, Kolkata
Hetero-metallic complexes derived from N_2O_2 donor ligands: Molecular shapes, supramolecular structures, catalysis and magnetism


 **0950–1010 Subhro Bhattacharjee**, International Centre for Theoretical Sciences, Bengaluru
Quantum matter: Life beyond symmetries


1015–1045 *Tea break*

Session 3B: Inaugural Lectures by Associate/Fellows

Chairperson: **S N Tandon**, Inter-University Centre for Astronomy & Astrophysics, Pune


 **1045–1105 Piyush Srivastava**, Tata Institute of Fundamental Research, Mumbai
Structure recovery in graphical models

 **1110–1130 Kaustuv Sanyal**, Jawaharlal Nehru Centre for Advanced Scientific Research, Bengaluru
Molecular evolution of the process of chromosome segregation: Lessons from fungal pathogens

 **1135–1155 Swapan K Datta**, Visva-Bharati University, Santiniketan
Biofortified rice with stable enhanced nutrition

Session 3C: Special Lecture

Chairperson: **S S Krishnamurthy**, Indian Institute of Science, Bengaluru

 **1200–1240 Lalit Kumar**, All India Institute of Medical Sciences, New Delhi
Targeted therapy for cancer treatment: Have we found the magic bullet?

1240 *Lunch*