



**INDIAN
ACADEMY
OF SCIENCES**
BENGALURU

29th MID-YEAR MEETING

29–30 June 2018

Mahatma Gandhi Hall, Infosys Leadership Institute,
Mysore Development Centre, Mysuru

PROGRAMME

29 June 2018, FRIDAY

Session 1A: Special Lecture

Chairperson: **H Sharath Chandra**

0930–1010 **G Nageswara Rao**, LVPEI, Hyderabad
Research, relevance and public good

Session 1B: Inaugural Lectures by Fellows/Associates

Chairperson: **Aswini Ghosh**

1010–1030 **Ritabrata Munshi**, ISI, Kolkata
The subconvexity problem

1035–1055 **P Anbarasan**, IIT, Chennai
Transition-metal-catalyzed selective functionalization of metallocarbenes to N-Heterocycles

1100–1120 *Tea break*

Session 1C: Inaugural Lectures by Fellows/Associates

Chairperson: **E Arunan**

1120–1140 **Anuradha Dube**, CDRI, Lucknow
Kala-Azar – A neglected disease of poverty: Search for affordable lasting cure

1145–1205 **C Narayana**, JNCASR, Bengaluru
Application of Raman spectroscopy from condensed matter to biology

1210–1230 **Ramesh Hariharan**, Strand Life Sciences, Bengaluru
Industrializing genomic diagnoses in India

1235–1255 **V K Gahalaut**, MoES, New Delhi
India plate motion and its interaction with Eurasian plate along the Himalayan and Indo-Burmese arc

1300–1430 *Lunch break*

Session 1D: Symposium: Remembering Francis Crick: A multifaceted visionary scientist

Chairperson: **Manju Bansal**

1430–1500 **Yamuna Krishnan**, University of Chicago, USA
Quantitative chemical imaging in vivo

1500–1530 **Rajan Sankaranarayanan**, CCMB, Hyderabad
Transfer RNAs: Not merely adaptor molecules in protein synthesis

1530–1600 **Souvik Maiti**, IGIB, New Delhi
RNA G-Quadruplex: Re-Search

1600–1630 **Manju Bansal**, IISc, Bengaluru
Francis Crick: A Renaissance scientist

1630–1700 *High Tea*

Session 1E: Public Lecture

Venue: Senate Hall, Nalwadi Krishnaraja Wadiyar Auditorium, University of Mysore

Chairperson: **Ram Ramaswamy**

1800–1900 **Upinder Singh**, University of Delhi, Delhi
Politics and violence: Ancient debates on a perennial problem

1900 Cultural Programme: *Yakshagana – Abhimanyu Kaalaga* by Sri Guru Prasadita Yakshagana Mandali, Saligrama

2000 *Dinner*

30 June 2018, SATURDAY

Session 2A: Inaugural Lectures by Fellows/Associates

Chairperson: **Anil K Gupta**

0930–0950 **Manoj Kumar**, GNDU, Amritsar
Development of fluorescent probes for molecular recognition, bio-imaging and catalytic applications

0955–1015 **Prabal K Maiti**, IISc, Bengaluru
Structure, dynamics and thermodynamics of confined water

1020–1040 **Nagasuma Chandra**, IISc, Bengaluru
Identification of a host biomarker signature for detecting tuberculosis through a blood test

1040–1100 *Tea break*

Session 2B: Inaugural Lectures by Fellows/Associates

Chairperson: **H Shekar Shetty**

1100–1120 **Swagata Dasgupta**, IIT, Kharagpur
The evolving story of protein polyphenol interactions

1125–1145 **Varun Bhalerao**, IIT Bombay, Mumbai
Cosmic fireworks: Shining light on gravitational wave sources!

1150–1210 **Maitrayee DasGupta**, University of Calcutta, Kolkata
Challenges in extending symbiotic nitrogen fixation beyond current host range

1215–1235 **Souvik Mahapatra**, IIT Bombay, Mumbai
Reliability of CMOS IC chips – From atoms to processors

1240–1300 **C T Dhanya**, IIT, New Delhi
Hydrological extremes and hazard modeling – Exploring the intricacies and predictability of the regional hydrologic system

1300–1430 *Lunch break*

Session 2C: Symposium: Blockchains and cryptocurrency

Chairperson: **R L Karandikar**

1430–500 **Madhavan Mukund**, CMI, Chennai
Introduction to blockchains

1500–1530 **Bimal Roy**, ISI, Kolkata
Cryptographic primitives for blockchains

1530–1600 **S P Suresh**, CMI, Chennai
Bitcoin – Economic aspects

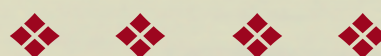
1600–1630 **R L Karandikar**, CMI, Chennai
Blockchains: Beyond cryptocurrency

1630–1700 *High Tea*

Session 3C: Special Lecture

Chairperson: **N Mukunda**

1200–1240 **R Sukumar**, IISc, Bengaluru
Thinking long-term in ecology: Insights from 3-decades of monitoring a tropical forest in Mudumalai



ALL ARE WELCOME