**Friday | 2 November 2018**

0900–0930 Registration

**SESSION 1A: Inauguration & Presidential Address**

0930–1100 The uses of chance
  Ram Ramaswamy, JNU, New Delhi

1100–1115 Group photograph
  Venue: Front Gate, Swatantrata Bhavan

1115–1200 Tea break

**SESSION 1B: Inaugural Lectures by Fellows**

Chairperson: Dhananjay Pandey, BHU, Varanasi

1200–1220 DNA inspired physics
  Sanjay Kumar, BHU, Varanasi

1225–1245 Low-dimensional spin systems and quantum magnetism
  S M Yusuf, BARC, Mumbai

1250–1400 Lunch break

**SESSION 1C: Inaugural Lectures by Associates**

Chairperson: V C Thakur, Dehradun

1400–1420 Multiplex studies on dung of endangered Sangai (Rucervus eldii eldii) and Hog deer (Axis porcinus) from Manipur, India: Implications to paleoherbivory and paleoecology
  Swati Tripathi, BISP, Lucknow

1425–1445 Hardware implementation of neural network algorithms, based on machine learning and neuroscience models, using spintronic devices as non-volatile memory elements
  Debajjan Bhowmik, IIT Delhi, New Delhi

1450–1515 Tea break

**SESSION 1D: Symposium – Materials of Today and Tomorrow (Senate Hall)**

Chairpersons: A K Ganguli, IIT Delhi, New Delhi, and Giridhar Kulkarni, CeNS, Bengaluru

1515–1535 Introduction
  A K Ganguli and Giridhar Kulkarni

1540–1600 Battery materials for electric vehicles: Today and tomorrow
  K Vijayamohananan, CECRI, Karaikudi

1605–1625 Rational design of materials with tailored functionalities
  A K Tyagi, BARC, Mumbai

1630–1650 Biomaterialics: Data-driven accelerated pathways for next generation biomaterials
  Bikramjit Basu, IISc, Bengaluru

1655–1715 Low thermal conductive chakogenides for high performance thermoelectric energy conversion
  Ranjisha Biswas, JNCASR, Bengaluru

1720–1730 Discussion

1730–1745 Tea break

**SESSION 1E: Public Lecture and Cultural Event**

Chairperson: Ram Ramaswamy, JNU, New Delhi

1745–1845 Public Lecture: Buddhism and science
  Geshe Ngawang Samten, Central Institute of Higher Tibetan Studies, Varanasi

1915–2015 Cultural Event: Concert – Three generations on the violin
  Smt N Raja and group

2015–2130 Dinner

**Saturday | 3 November 2018**

Chairperson: N Sathyanarayana, JNCASR, Bengaluru

0900–0940 GM crops in the Indian context: Looking back, looking forward
  Imran Siddiqui, CCMB, Hyderabad

**SESSION 2B: Inaugural Lectures by Fellows/Associates**

Chairperson: E D Jemmis, IISc, Bengaluru

0940–1000 Electrochemical energy storage via batteries: Prospects & limitations
  Anindita B Bhattacharya, IISc, Bengaluru

1005–1025 Host–microbial associations in a changing world
  Deepa Agashe, NCBS, Bengaluru

1030–1050 Tea break

**SESSION 2C: Symposium – Community Health – A Genomic Perspective (Senate Hall)**

Chairperson: Rajiva Raman, BHU, Varanasi

1050–1115 Genetics and biology of neuromuscular disorders: Unmet scientific need
  Alok Bhattacharya, JNU, New Delhi

1120–1145 Translational research approach: Primary congenital glaucoma – Prevalence, genetics and collaboration between scientists and clinicians for successful treatment
  D Balasubramanian, L V Prasad Eye Institute, Hyderabad

1150–1215 Public health genomics to innovative targeted therapeutic approaches for relapse-free survival of cancer patients
  Bhudev C Das, Amity University, Noida

1220–1245 Early life origins of diabetes in Indians
  C S Yajnik, KEM Hospital Research Centre, Pune

1250–1300 Discussion

1300–1400 Lunch break

**SESSION 2D: Inaugural Lectures by Fellows/Associates**

Chairperson: R R Srivastava, BHU, Varanasi

1400–1420 Fluorescent, AIEgen and cytotoxic behaviour of annulated polycyclic heteroaromatics
  Bhimsa K Pute, IIT, Guwahati

1425–1445 Organophosphatase hydrolyase exists as part of Tn complex in Spirillum putrefaciens ATCC27551 and plays a role in active transport of nutrients across energy deprived outer membrane
  S Dayananda, University of Hyderabad, Hyderabad

1450–1510 Diffusion, growth, and elasticity in batteries – A mathematical modelling perspective
  Jeevanjyoti Chakraborty, IIT, Karagpur

1515–1535 Discovering CP violation in the lepton sector: Challenges and possibilities
  Srababati Goswami, PRL, Ahmedabad

1540–1600 Tea break

1600–1730 Business Meeting of Fellows
  Venue: Senate Hall

1730–1800 Tea break

**SESSION 2E: Public Lecture**

Chairperson: Ram Ramaswamy, JNU, New Delhi

1800–1900 Changing faces of women in Hindi cinema
  Shabana Azmi, Actress, Social Activist, Mumbai

1900–2030 Dinner

**Sunday | 4 November 2018**

**SESSION 3A: Inaugural Lectures by Fellows/Associates**

Chairperson: S Ananthakrishnan, Savitribai Phule Pune University, Pune

0900–0920 Importance of cellular organelles in controlling miRNA-mediated gene expression in mammalian cells
  Sow Mayo N Bhattacharya, ICMR, Kolkata

0925–0945 Impact of copy number variations in genome organization, evolution and diseases
  N B Ramachandra, University of Mysore, Mysuru

0950–1010 Large scale geometry of randomly growing interfaces
  Bidhrikatim Basu, ICTS, Bengaluru

1015–1045 Tea break

**SESSION 3B: Inaugural Lectures by Fellows/Associates**

Chairperson: A K Singhi, Physical Research Laboratory, Ahmedabad

1045–1105 From serendipity to designing molecular gels for drug delivery
  P Dastidar, IACS, Kolkata

1110–1130 Cold ferromics in artificial gauge fields
  Jayanth Vyasanakere, Azim Premji University, Bengaluru

1135–1155 An introduction to some aspects of ergodic theory
  Anish Ghosh, TIFR, Mumbai

**SESSION 3C: Special Lecture**

Chairperson: V Cavender, TVS, Bengaluru

1200–1220 The sciences of the artificial: Promise and reality
  Vijay Chandra, IISc, Bengaluru

1240–1400 Lunch