

# 31<sup>st</sup> MID-YEAR MEETING OF THE INDIAN ACADEMY OF SCIENCES

## 3 July 2020 (Friday)

0915–0925 Welcome and Introductory remarks

### Session 1A: Special Lecture

0925–1005 DST@50: The brave new world – Science and scientists in the new millennium  
*Ashutosh Sharma, DST, New Delhi*

### Session 1B: Inaugural Lectures by Fellows/Associates

1010–1030 Dengue diagnostics made easy  
*Navin C. Khanna, ICGB, New Delhi*

1035–1055 Family of long-ranged models: Collective behaviour and dynamics  
*Manas Kulkarni, ICTS, Bengaluru*

1100–1120 Brief Break

### Session 1C: Inaugural Lectures by Fellows/Associates

1120–1140 Pulsed tectonic patterns in early Earth hot orogens: Constraints from diffusion chronometry along non-linear P–T paths  
*S K Bhowmik, IIT, Kharagpur*

1145–1205 Cellular redox poise in *M. tuberculosis* is modulated by a novel actinomycetes-specific transcription factor  
*V K Nandicoori, NII, New Delhi*

1210–1230 Coping with (NP) hardness  
*Saket Saurabh, IMSc, Chennai*

1235–1255 Covalent and non-covalent polymers: Syntheses and applications  
*K M Sureshan, IISER, Thiruvananthapuram*

1300–1430 Lunch break

### Session 1D: Symposium

Pathogen outbreaks: Cause, spread and control  
*Chairperson: Saumitra Das*

1430–1455 RNA viruses: Invasion strategies  
*Saumitra Das, NIBMG, Kalyani*

1500–1525 Emergence of new viruses  
*Shahid Jameel, The Wellcome Trust/DBT India Alliance, New Delhi*

1530–1555 Progress and pitfalls in COVID-19 vaccine development  
*Gagandeep Kang, CMC, Vellore*

1600–1625 The Covid-19 vaccine landscape  
*Raghavan Varadarajan, IISc, Bengaluru*

1630–1645 Discussion

1645–1755 Break

### Session 1E: Public lecture

1800–1900 Preparing for pandemics  
*Soumya Swaminathan, World Health Organization, Geneva, Switzerland*

3–4  
July  
2020

## 4 July 2020 (Saturday)

0915–0925 Welcome remarks

### Session 2A: Special Lecture

0925–1005 PW Anderson: An epochal figure in physics  
*T V Ramakrishnan, IISc, Bengaluru*

### Session 2B: Inaugural Lectures by Fellows/Associates

1010–1030 Biogeochemical processes on glacier and ice sheet surfaces  
*Runa Antony, NCPOR, Goa*

1035–1055 Tuning of the structural and microstructural instabilities in ferroelectrics for design of high-performance actuators and development of new functionalities  
*Rajeev Ranjan, IISc, Bengaluru*

1100–1120 Brief break

### Session 2C: Inaugural Lectures by Fellows/Associates

1120–1140 Biomaterial strategies to overcome barriers for drug delivery  
*Rinti Banerjee, IIT, Mumbai*

1145–1205 Investigating the folding of Zika Virus Proteins: Implications for viral pathogenesis and inhibitor discovery  
*Rajanish Giri, IIT, Mandi*

1210–1230 Bench to bedside: Crossing the barrier  
*Bikramjit Basu, IISc, Bengaluru*

1235–1255 Engineered materials and devices for water pollutant detection  
*Pooja Devi, CSIO, Chandigarh*



VIRTUAL MEETING

Registration at [mym2020.ias.ac.in](http://mym2020.ias.ac.in) no later than 1 July 2020

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