



30th MID-YEAR MEETING

INDIAN ACADEMY OF SCIENCES

28-29 June 2019

Satish Dhawan Auditorium, CSIC Building,
Indian Institute of Science, Bengaluru

PROGRAMME

28 June 2019 Friday

0900–0930 Registration

0930–0950 Second edition of *C V Raman – A Pictorial Biography*
Book launch by R. Ramaswamy

Session 1A: Special Lecture

Chairperson: N V Madhusudana

0950–1030 The marvel and the mystery of quantum mechanics –
some reflections

N. Mukunda, IASc, Bengaluru

1030–1050 Tea break

Session 1B: Inaugural Lectures by Fellows/Associates

Chairperson: E D Jemmis

1050–1110 An analysis of *Candida glabrata* – host interaction
Rupinder Kaur, CDFD, Hyderabad

1115–1135 Development of two-phase heat sinks for Earth and
microgravity thermal management applications
Rishi Raj, IIT, Patna

1140–1200 Online algorithms for packing and covering problems
Amit Kumar, IIT, New Delhi

1205–1225 Molecular chaperones as gateways to mitochondrial
health
Devanjan Sinha, BHU, Varanasi

1230–1250 Reconstructing diet and environment of ancient
mammals of India using stable isotopes and microwear
Rajeev Patnaik, Panjab University, Chandigarh

1300–1430 Lunch break

Session 1C: Inaugural Lectures by Fellows/Associates

Chairperson: Arnab Rai Chaudhuri

1430–1450 Studying the flow of electrons in 2-D materials
Mandar M Deshmukh, TIFR, Mumbai

1455–1515 Studying plant environment interactions through the lens
of epigenomics
Rohini Garg, Shiv Nadar University, Gautam Buddha Nagar

1520–1540 Evolution of galaxies in the cosmic-suburbs
Smriti Mahajan, IISER, Mohali

1545–1605 Computer simulation of biomolecular recognition at
atomistic precision and in real time
Jagannath Mondal, TIFR-CIS, Hyderabad

1610–1700 High Tea

Session 1D: Invited Talk

Chairperson: D Balasubramanian

1700–1730 Teaching science to students with visual impairment
Beula Christy, LVPEI, Hyderabad

1730–1745 Discussion

Session 1E: Public lecture

Chairperson: Partha P Majumder

1800–1900 The four prehistoric migrations that shaped Indian
demography and population structure
*Tony Joseph, Author/Former Editor, Businessworld, New
Delhi*

1900–2030 Dinner

29 June 2019 Saturday

Session 2A: Symposium: Prasanta Chandra Mahalanobis – A Tribute to His Scientific Contributions

Chairperson: Partha P Majumder

0900–0940 Statistics with ‘a clearly defined purpose’: A brief history
of sampling and economic planning in Nehruvian India
Poornima Paidipaty, London School of Economics, England

0940–1020 From Mahalanobis distance to fractile graphs via sample
survey
Probal Chaudhuri, ISI, Kolkata

1020–1100 Mahalanobis, Anthropometric diversity and the birth of
human genetics in India
Partha P. Majumder, NIBMG, Kalyani

1100–1120 Tea break

Session 2B: Inaugural Lectures by Fellows/Associates

Chairperson: Rajiva Raman

1120–1140 Neuroscience of Yoga in psychiatry: Treatment of
depression
B N Gangadhar, NIMHANS, Bengaluru

1145–1205 Fuel-driven temporal supramolecular polymers
Subi J George, JNCASR, Bengaluru

Session 2C: Special Lecture

Chairperson: S S Krishnamurthy

1210–1250 Physics of the monsoon and its variability
Sulochana Gadgil, Pune

1300–1430 Lunch