



INDIAN ACADEMY OF SCIENCES

Bengaluru 560 080

28 TWENTY EIGHTH MID-YEAR MEETING

30 June–1 July 2017
@ Faculty Hall,
Indian Institute of Science,
Bengaluru 560 012

30 JUNE 2017 (FRIDAY)

0930–1010 SESSION 1A – SPECIAL LECTURE



K Ullas Karanth, Wildlife Conservation Society, Bengaluru
Conservation science at macro-ecological scales

1010–1055 SESSION 1B – INAUGURAL LECTURES OF FELLOWS



V Subramanian, CLRI, Chennai
Exploring the changes in the structure of α -helical peptides adsorbed onto carbon and boron nitride-based nanomaterials



Sumathi Rao, Harish-Chandra Research Institute, Allahabad
Topological phases of quantum matter

1100–1120 **Tea break**

1120–1300 SESSION 1C – INAUGURAL LECTURES OF FELLOWS/ASSOCIATES



Debabrata Dash, BHU, Varanasi
Killing thrombus with nano-bullets



Suman K Dhar, JNU, New Delhi
DNA replication in pathogens: Unique properties and possible intervention



Arvind Ayer, IISc, Bengaluru
The asymmetric simple exclusion process: An exactly solvable model of particle transport



Pallab Dasgupta, IIT, Kharagpur
The science of formal safety assurance of embedded electronic systems

1300–1430 **Lunch break**

1430–1540 SESSION 1D – INAUGURAL LECTURES OF FELLOWS/ASSOCIATES



Raghavan Krishnan, IITM, Pune
Understanding the South Asian monsoon response to greenhouse gas (GHG) and aerosol forcing



Amitava Patra, IACS, Kolkata
Nanomaterials-based light-harvesting systems for potential applications



Ranjit Thapa, SRM University, Kattankulathur
Descriptor and indicator for sp^2 -hybridized carbon-based catalyst

1545–1605 **Tea break**

1605–1720 SESSION 1E – INAUGURAL LECTURES OF FELLOWS



Siva R Athreya, ISI, Bengaluru
Dense graph limits under respondent-driven sampling



Mitali Chatterjee, IPGMR, Kolkata
Post-kala-azar dermal leishmaniasis; In vivo veritas



Sagar Sengupta, NII, New Delhi
Understanding the mechanisms that prevent carcinogenesis by studying a family of caretaker tumour suppressors

1800–1900 SESSION 1F – PUBLIC LECTURE



A R Venkatachalapathy, Madras Institute of Developmental Studies, Chennai
C Subramania Bharati: Nationalism and creativity

1 JULY 2017 (SATURDAY)

0930–1010 SESSION 2A – SPECIAL LECTURE



Gagandeep Kang, THSTI, Faridabad
Vaccines and public health in India

1010–1300 SESSION 2B – SYMPOSIUM ON "MOLECULAR MACHINES: A MULTI-DISCIPLINARY ENTERPRISE"



Debashish Chowdhury, IIT, Kanpur
Introduction

Debashish Chowdhury, IIT, Kanpur
Noise and nonequilibrium in nano-machine operation: A physics perspective

1050–1110 **Tea break**



Roop Mallik, TIFR, Mumbai
Teamwork in molecular motors: A cell biology perspective



Tanweer Hussain, IISc, Bengaluru
Understanding the principles of design of molecular machines: A structural biology perspective



Pradyut Ghosh, IACS, Kolkata
Synthetic small molecules as machines: A chemistry perspective

1300–1400 **Lunch break**

⌘ ⌘ ⌘ ⌘

For enquiries, contact the Academy office: (080) 2266 1200, 2266 1203 www.ias.ac.in

ALL ARE WELCOME

