



INDIAN ACADEMY OF SCIENCES

33MYM PROGRAMME

33rd MID-YEAR MEETING

08 – 09 July 2022

VENUE

New Biological Sciences Auditorium
IISc, Bengaluru.

09.00 - 09.30

Registration

09.30 - 10.10

Session 1A

Chairperson: Dipankar Banerjee, IISc, Bengaluru

Special Lecture

Atul Chokshi, IISc, Bengaluru

The Zen of grain boundaries

10.10 - 11.00

Session 1B

Inaugural Lectures by Fellows / Associates

Chairperson: Mrinal K Ghosh, IISc, Bengaluru

10.10 - 10.30

V B Shenoy, IISc, Bengaluru

Fractonic phases of matter

10.35 - 10.55

Apoorva Khare, IISc, Bengaluru

Polymath 14: A crowd-sourced, computer-aided analysis-definition of abelian groups

11.00 - 11.20

Tea Break

11.20 - 13.00

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

Chairperson: E Krishnakumar, RRI, Bengaluru

11.20 - 11.40

R I Sujith, IIT, Chennai

Covid-19 and flame blowout in jet engines: What is in common?

11.45 - 12.05

Jyotirmayee Dash, IACS, Kolkata

Nucleic acids directed synthesis for therapeutic applications

12.10 - 12.30

N G Prasad, IISER, Mohali

Exploring intersexual genomic conflict using Drosophila Melanogaster

12.35 - 12.55

Samir K Maji, IIT, Mumbai

Liquid-liquid phase separation is a generic property of proteins and polypeptides

13.00 - 14.30

Lunch Break

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JULY 2022
(FRIDAY)



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Symposium on
"The International Year
of Basic Sciences for
Sustainable Development"

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JULY 2022
(FRIDAY)

14.30 - 16.30

Session 1D

Symposium on "The International Year of Basic Sciences
for Sustainable Development"

Organized by **Arun Grover** and **N Sathyamurthy**

14.30

Introductory Remarks

14.30 - 14.50

Gagandeep Kang, CMC, Vellore

Measuring what matters in public health

14.55 - 15.15

T Pradeep, IIT, Chennai

Water: Gaps and opportunities

15.20 - 15.40

M Rajeevan, MoES, New Delhi

Basic sciences for environmental sustainability

15.45 - 16.05

T Ramasami, Anna University, Chennai

Talent supply chain management for basic sciences and SDG goals

16.10 - 16.30

Rohini M Godbole, IISc, Bengaluru

Gender (in)equity in science: Reasons and possible actions

16.30

Closing Remarks

16.30 - 17.00

High Tea

18.00 - 19.00

Session 1E

Chairperson: **Umesh Waghmare**, JNCASR, Bengaluru

Public Lecture

G N Devy, *The People's Linguistic Survey of India*

Language, memory and aphasia– As we witness them in our time

19.00

Dinner



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Enquiries: 91-22661203/execsec@ias.ac.in

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JULY 2022
(SATURDAY)

09.30 - 10.10

Session 2A

Special Lecture

Sanjay P Sane, NCBS, Bengaluru

The biomechanics of insect flight

10.10 - 10.55

Session 2B

Inaugural Lectures by Fellows / Associates

Chairperson: R. Ramaraj, MKU, Madurai

10.10 - 10.30

Vijayalakshmi Trivedi, TIFR, Mumbai

The Hilbert-Kunz density function and its applications

10.35 - 10.55

Vandana Prasad, BSIP, Lucknow

The Indian plate as a museum and evolutionary cradle for tropical angiosperms

11.00 - 11.20

Tea Break

11.20 - 13.00

Session 2C

Inaugural Lectures by Fellows / Associates

Chairperson: B N Goswami, Cotton University, Guwahati

11.20 - 11.40

Maddika Subba Reddy, CDFD, Hyderabad

Mapping interaction network of human phosphatases



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JULY 2022
(SATURDAY)

11.45 - 12.05

Chiranjib Bhattacharyya, IISc, Bengaluru

Learning without labels with help from Computational Geometry and Statistical Mechanics

12.10 - 12.30

K V Subrahmanyam, NARL, Hyderabad

Three dimensional structure of cloud type distribution over the Indian summer monsoon region using space based W-band radar observations

12.35 - 12.55

Bushra Ateeq, IIT, Kanpur

Mechanistic underpinnings and therapeutic interventions for major prostate cancer subtypes

13.00

Lunch