



# SAIS Symposium 2023



School of Applied and Interdisciplinary Sciences  
Indian Association for the Cultivation of Science  
Jadavpur, Kolkata-700032

Date :  
27<sup>th</sup> and 28<sup>th</sup>  
FEB, 2023

Venue @ IACS  
C V Raman Hall

## Invited Speakers



Prof. Filip Du Prez



Dr. Rajkumar Banerjee



Prof. P. I. Pradeepkumar



Dr. V K Praveen



Dr. R. K. Vijayaraghavan



Prof. Uttam Manna



Prof. Sagar Pal



Dr. Debansu Chaudhuri



Dr. Mrinmoy De



Prof. Sudip K Batabyal



Prof. D. Chattopadhyay



Dr. Debasis Samanta



Prof. Ayan Datta



Prof. Mintu Mondal



Dr. Urmimala Maitra



Prof. Benu Brata Das

### Inaugural Session

09.45 – 09.55 am: Inaugural Address- **Director, IACS**

09.55-10.00 am: Welcome Address

#### Session 1: Chair- **Prof. Suhrit Ghosh, SAIS, IACS**

Speaker	Affiliation	Time	Title
1. Prof. P. I. Pradeepkumar	IIT Bombay	10:00-10:30 am	<b>IL1:</b> <i>Expanding Chemist's Toolbox for Nucleic Acids-Based Therapeutics</i>
2. Dr. V K Praveen	CSIR-NIIST, Trivandrum	10:30-11:00 am	<b>IL2:</b> <i>Hierarchical Organization of Bio-Mimetic Supramolecular Polymers</i>

#### Tea Break: 11:00 -11:20 am

#### Session 2: Chair- **Prof. Prasanta K Das SBS, IACS**

3. Dr. Rajkumar Banerjee	CSIR-IICT, Hyderabad	11:20-11:50 am	<b>IL3:</b> <i>Cationic lipid conjugation of nuclear hormones for anticancer therapy &amp; nanotechnology: A new strategy</i>
4. Prof. Dipankar Chattopadhyay	University of Calcutta	11:50-12:20 pm	<b>IL4:</b> <i>Asymmetric fabrication and in-vivo evaluation of wound healing potency of electrospun biomimetic nanofibrous scaffold based on collagen crosslinked modified-chitosan and graphene oxide quantum dot nanocomposites</i>
5. Prof. Ayan Datta	IACS, Kolkata	12:20-12:50 pm	<b>IL5:</b> <i>Symmetry Breaking in Low-Dimensional Flat Materials</i>

#### Lunch Break: 1:00 -2:30 pm

#### Session 3: Chair- **Prof. Pradyut Ghosh, SCS, IACS**

6. Dr. Debansu Chaudhuri	IISER Kolkata	2:30-3:00 pm	<b>IL6:</b> <i>Reversible Supramolecular Polymorphism by Manipulating Sidegroup Conformation</i>
7. Dr. Debasis Samanta	CSIR-CLRI, Chennai	3:00-3:30 pm	<b>IL7:</b> <i>Thermoresponsive Polymers in Catalyst Design: Click Reactions to Collagen and Related Materials</i>
8. Dr. Urmimala Maitra	IACS, Kolkata	3:30-4:00 pm	<b>IL8:</b> <i>Path to Inexpensive and Sustainable Energy Storage</i>
9. Dr. Ratheesh K Vijayaraghavan	IISER Kolkata	4:00-4:30 pm	<b>IL9:</b> <i>Benignant Electron Carrier Traps Induced Electrical Bistability in Organic Semiconductors</i>

#### Tea & Poster Session 4:30-6:30 pm

#### Banquet Dinner: 7.30-10:30 pm

Speaker	Affiliation	Time	Title
<b>Session 4: Chair- Prof. Surajit Sinha, SAIS, IACS</b>			
<b>10. Dr. Mrinmoy De</b>	IISc, Bengaluru	10:00-10:30 am	<b>IL10:</b> <i>Nanozymes in Nano-antibiotics and Beyond</i>
<b>11. Prof. Benu Brata Das</b>	IACS, Kolkata	10:30- 11:00 am	<b>IL11:</b> <i>Insight into the DNA breaks-induced genomic instability and the underpinning cause of human diseases</i>
<b>Tea Break: 11:00-11:30 am</b>			
<b>Session 5: Chair Prof. Shyamal K Saha, SMS, IACS</b>			
<b>12. Prof. Uttam Manna</b>	IIT Guwahati	11:30 – 12:00 noon	<b>IL12:</b> <i>Design of Durable &amp; Scalable Slippery Interface</i>
<b>13. Prof. Sudip K Batabyal</b>	Amrita Vishwa Vidyapeetham, Coimbatore	12:00-12:30 pm	<b>IL13:</b> <i>Interfacial Solar Evaporation for Water Purification and Energy Generation</i>
<b>14. Prof. Mintu Mondal</b>	IACS, Kolkata	12:30 -1:00 pm	<b>IL14:</b> <i>Collective electronic states and their excitations in quasi-1D systems, <math>(\text{TaSe}_4)_n\text{I}</math> with <math>n=2,3</math> &amp; <math>10/3</math></i>
<b>15. Dr. Sumit Singh</b>	Anton Paar India Pvt. Ltd.	1.00-1.15 pm	<b>SL:</b> <i>Rheological &amp; DMTA applications on Polymers</i>
<b>Lunch Break: 1:15 -2:30 pm</b>			
<b>Session 6: Chair Prof. Somobrata Acharya / Prof. S. Malik, SAIS, IACS</b>			
<b>16. Prof. Sagar Pal</b>	IIT Dhanbad	2:30 -3:00 pm	<b>IL15:</b> <i><math>\beta</math>-Cyclodextrin based hydrogels for Various Biomedical Applications</i>
<b>17. Prof. Filip Du Prez</b> (Virtual Mode)	Ghent University, Belgium	3:00 -3:40 pm	<b>KN:</b> <i>Circular Thermoset Materials: Merging Academic and Industrial Principles</i>
<b>Vote of Thanks &amp; Concluding Remarks</b> <b>3:40-4:00 pm</b>			
<b>Departure</b>			

**KN – Keynote Address** (35 + 5 mins);

**IL – Invited Lecture** (25 + 5 mins);

**SL – Sponsored Lecture** (15 mins)

**Zoom link ID** (Only for Virtual Mode): <https://zoom.us/j/95558801980>

**Meeting ID:** 955 5880 1980

**Passcode:** 615864

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