



# INST-TENS 2023

International Conference on  
"Trends in Emerging Nano Science:  
Energy, Healthcare & Quantum Materials"

5-8 November 2023

Celebrating 10<sup>th</sup> Anniversary of INST



## Day 1

5<sup>th</sup> November 2023

3.00 pm Registration  
4.30 pm Poster Session on technologies developed at INST  
7.30 pm Dinner

## Day 2

6<sup>th</sup> November 2023

9.30 am Inauguration

### Technical Session I

10.00 am Plenary lecture by Prof. DD Sarma, IISc Bangalore  
**Diversity of Material Properties in Low Dimensional Hybrid Halide Materials**  
10.30 am Invited lecture by Prof. Leonard Prins, University of Padova, Italy  
**Energy-driven Self-assembly of Functional Chemical Systems**  
10.55 am Invited lecture by Prof. S. M. Yusuf, Bhabha Atomic Research Centre, India  
**Novel Magnetism and Ionic Conduction in Low-Dimensional Spin Systems**

11.20 am Tea break

### Technical Session II

12.15 noon Invited lecture by Prof. Wojtek Chrzanowski, University of Sydney, Australia  
**Extracellular Vesicles as the Next-generation Multifunctional Nanotherapeutics**  
12.40 pm Invited lecture by Prof. Sebastian Peter, Jawaharlal Nehru Centre for Advanced Scientific Research, India  
**Title**  
1.05 pm Invited lecture by Prof. Chilla Malla Reddy, Indian Institute of Science Education and Research Kolkata, India  
**Crystalline Self-healing Organic Materials**

1.30 pm Lunch

### Technical Session III

3.30 pm Invited lecture by Prof. Rabibrata Mukherjee, Indian Institute of Technology, Kharagpur, India  
**Dynamics of Nano Particle Containing Polymer Thin films**  
3.55 pm Invited lecture by Prof. Suhrit Ghosh, Indian Association for the Cultivation of Science, India  
**Chain-folding Regulated Hierarchical Assembly of Amphiphilic Polymers and Functional Nanomaterials**

4.20 pm Tea and Poster Session

6.30 pm Cultural Programme

7.30 pm Gala Dinner



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Day 3

7<sup>th</sup> November 2023

## Technical Session IV

- 9.30 am Invited lecture by Prof. Andrei V. Kabashin, Aix-Marseille University, France  
**Femtosecond Laser-ablative Synthesis of Functional Nanomaterials for Biomedicine and Energy**
- 9.55 am Invited lecture by Prof. Suparna Sanyal, Uppsala University, Sweden  
**Targeting Protein Synthesis Machinery of the Human Parasite *Giardia intestinalis* with Cryo-Electron Microscopy**
- 10.20 am Invited lecture by Prof. Kalobaran Maiti, Tata Institute of Fundamental Research, India  
**Behavior of Dirac Fermions in Kondo lattice systems**

10.45 am Tea break

## Technical Session V

- 11.45 am Invited lecture by Prof. Philip Tinnefeld, Ludwig-Maximilians-University, Germany  
**DNA Origami for Biosensing and Superresolution Microscopy**
- 12.10 noon Invited lecture by Prof. Suman Kalyan Pal, Indian Institute of Technology Mandi, India  
**Advancing Photovoltaic Technology: The Potential of Two-Dimensional (2D) Halide Perovskite Materials**
- 12.35 pm Invited lecture by Prof. Anjan Barman, S. N. Bose National Centre for Basic Sciences, India  
**Hybrid Magnonics in Nanoscale Magnets**

1.00 pm Lunch

## Technical Session VI

- 2.30 pm Invited lecture by Prof. Samrat Mukhopadhyay, Indian Institute of Science Education and Research Mohali, India  
**Biological Phase Transitions: Where Chemistry and Physics Meet Biology**
- 2.55 pm Invited lecture by Prof. Sayan Bagchi, CSIR-National Chemical Laboratory, India  
**Probing Surface-ligand Interactions in SCN--capped Quantum Dots Using 2D IR Spectroscopy**
- 3.20 pm Invited lecture by Prof. Shibdas Banerjee, Indian Institute of Science Education and Research Tirupati, India  
**Label-free Mass Spectrometry Imaging of Surgical Specimens for Disease Diagnosis**
- 3.45 pm Technical Presentation by Jeol India
- 4.05 pm Technical Presentation by Bruker India
- 4.15 pm Tea and Poster Session
- 7.30 pm Dinner



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Day 4

8<sup>th</sup> November 2023

## Technical Session VII: RSC Session

- 9.30 am RSC introduction
- 9.40 am RSC Special lecture by Prof. Umesh V. Waghmare, Jawaharlal Nehru Centre for Advanced Scientific Research, India  
**Title**
- 10.05 am RSC Special lecture by Prof. Swapan K Pati, Jawaharlal Nehru Centre for Advanced Scientific Research, India  
**Computational Modelling of Transport Phenomena in a few Materials**
- 10.30 am RSC Special lecture by Prof. Prabal Maiti, Indian Institute of Science, Bengaluru, India  
**Cooperative vs Sequential Melting: PNA vs DNA**
- 10.55 am Tea break

## Technical Session VIII

- 12.00 noon Invited lecture by Prof. Biplab Sanyal, Uppsala University, Sweden  
**Defect-controlled Electronic and Magnetic Properties of Organic and Inorganic Adsorbates on Graphene**
- 12.25 pm Invited lecture by Prof. Somabrata Acharya, IACS Kolkata  
**Noncovalent Two-dimensional Molecular Crystals for Solid State Luminescence**
- 12.50 pm Invited lecture by Prof. Sri Sivakumar, IIT, Kanpur  
**Soft Nanomaterials for Biological Applications**
- 1.15 pm **Concluding Session**
- 1.30 pm Lunch

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