

**Institute of Nano Science & Technology, Mohali**  
**2<sup>nd</sup> Annual Meeting of Energy and Environment Unit**  
**Chem@Nano '22**

Day 1: 22-09-2022

**8.00 am**

**Registration**

**Inaugural Session**

9.00 am to 9.10 am

Opening note by Prof. Prakash P. Neelakandan

9.10 am to 9.20 am

Address by Prof. Amitava Patra, Director INST

**First Technical Session**

Chair: Dr. Jayamurugan Govindasamy, INST Mohali

9.20 am to 10.05 am

**Prof. Amitava Das, IISER Kolkata**

*Purpose Built Molecules and Molecular Assemblies as  
Therapeutic and Imaging Reagents*

10.05 am to 10.40 am

**Prof. Partha Sarathi Mukherjee, IISc Bengaluru**

*Chemistry in Confined Nanospace of Self-Assembled  
Molecular Vessels*

10.40 am to 11.10 am

Tea

**Second Technical Session**

Chair: Dr. Prakash P. Neelakandan, INST Mohali

11.10 am to 11.45 am

**Prof. M. Jayakannan, IISER Pune**

*Biodegradable Polymer Nanoarchitectures for Drug Delivery  
Application*

11.45 am to 12.20 pm

**Prof. Sayan Bhattacharyya, IISER Kolkata**

*Reconfiguring the Soft Ionic Lattice of Halide Perovskites*

12.20 pm to 12.55 pm

**Dr. Ramendra Sundar Dey, INST Mohali**

*Electrochemical Ammonia Synthesis: A Pathway to Green  
Future*

12.55 pm to 2.00 pm

Lunch

**Third Technical Session**

Chair: Dr. Menaka Jha, INST Mohali

2.00 pm to 2.45 pm

**Prof. Ashok K. Ganguli, IIT Delhi**

*Sodium Titanate based Anode Materials*

2.45 pm to 3.20 pm

**Dr. Sanchita Sengupta, IISER Mohali**

*Multi-Stimuli Programmable Light Harvesting Antenna and  
Macrocycles Towards Ratiometric Temperature, pH and  
Metal Ion Sensing*

3.20 pm to 3.55 pm

**Dr. Debabrata Patra, INST Mohali**

*Self-powered Supramolecular Assembly – A Tale of Chemical  
Powered Motion*

**3.55 pm to 6.00 pm**

**Tea and Poster Session**



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Day 2: 23-09-2022

**Fourth Technical Session**

Chair: Dr. Asish Pal, INST Mohali

- 9.30 am to 10.15 am      **Prof. K. George Thomas, IISER Thiruvananthapuram**  
*Trap States in Quantum Dots: Friend or Foe*
- 10.15 am to 10.50 am      **Prof. Subi Jacob George, JNCASR Bengaluru**  
*Molecular Programming at the Higher Hierarchical Levels of Supramolecular Self-Assembly*
- 10.50 am to 11.15 am      Tea

**Fifth Technical Session**

Chair: Dr. Tapasi Sen, INST Mohali

- 11.15 am to 11.50 am      **Dr. Suman Lata Jain, IIP Dehradun**  
*Photocatalytic Activation and Conversion of CO<sub>2</sub>: A Sustainable Approach for the Chemical Production*
- 11.50 am to 12.25 pm      **Dr. Sonalika Vaidya, INST Mohali**  
*Understanding Microemulsions using Small Angle X ray Scattering*
- 12.25 pm to 12.45 pm      **Agilent Application Scientist**  
Agilent Technologies
- 12.45 pm to 2.00 pm      Lunch

**Sixth Technical Session**

Chair: Dr. Sanyasinaidu Boddu, INST Mohali

- 2.00 pm to 2.35 pm      **Dr. S. Saravanamurugan, CIAB Mohali**  
*Catalytic Biomass Valorisation: An Imperative Future Direction*
- 2.35 pm to 3.10 pm      **Prof. Vandana Bhalla, GNDU Amritsar**  
*Self-assembled 'Lighted' Functional Materials*
- 3.10 pm to 3.45 pm      **Prof. Kamalakannan Kailasam, INST Mohali**  
*A Light(er) Approach for Solar Fuel and Fine chemical Synthesis: Nothing to Sacrifice*
- 3.45 pm to 4.15 pm      Tea
- 4.15 pm to 4.30 pm      **Concluding Remarks**

