

NaMoSBio 2026: Schedule of the programme

Day 1: 23 rd January 2026, Friday		
11.00-	Registration	
12:00-13:00	Inaugural Programme	
	Welcome address by: • Prof. Debasish Haldar, Patron, NaMoSBio 2026 and DCS Chairperson, IISER Kolkata, India • Prof. Priyadarsi De, Dean, Research and Development, IISER Kolkata, India • Prof. D. D. Sarma, IISc, Bengaluru, India • Prof. Prasun K. Mandal, Convener, NaMoSBio 2026	
13:00-14:00	Pre-conference Lunch	
Session 1		
Chair: Prof. Priyadarsi De, IISER Kolkata, India		
14:00-14:40	PL 1	<i>Title:</i> Everything You Wanted to Know About Mn Emission, But Were Afraid to Ask <i>Speaker:</i> Prof. D. D. Sarma, IISc, Bengaluru, India
14:40-15:10	KL 1	<i>Title:</i> DNA Nanotech for Brownian Computing and Molecular Robotics <i>Speaker:</i> Prof. Philip Tinnefeld, LMU München, Germany
15:10-15:30	IL 1	<i>Title:</i> Exploring Methods to Control The Emission Properties of Double Perovskites <i>Speaker:</i> Prof. Sameer Sapra, IIT Delhi, India
15:30-15:50	IL 2	<i>Title:</i> Visible-Light Photocatalysis with Quantum Dot-Sensitized Photon Upconversion <i>Speaker:</i> Prof. Pramod P. Pillai, IISER Pune, India
15:50-16:20	High Tea Break	
Session 2		
Chair: Prof. Sayam Sen Gupta, IISER Kolkata, India		
16:20-16:50	KL 2	<i>Title:</i> Magneto-Plasmonics: Invoking Magnetic Response in Magnetic and Non-Magnetic Materials <i>Speaker:</i> Prof. Venu Gopal Achanta, CSIR-NPL, New Delhi, India
16:50-17:10	IL 3	<i>Title:</i> Teaching Molecules to Change Colour: Lessons from Chem 101 <i>Speaker:</i> Prof. Subhajit Bandyopadhyay, IISER Kolkata, India
17:10-17:25	ST 1	<i>Title:</i> Circularly Polarized Luminescent Nanomaterials and Assemblies: Exploring Optical Activity at The Nanoscale <i>Speaker:</i> Prof. Jatish Kumar, IISER Tirupati, India
17:25-17:35	YIFP 1	<i>Title:</i> Self-Trapped Excitons with Unusually Large Huang-Rhys Factor in Halide Double Perovskite Semiconductor Cs ₂ AgInCl ₆ <i>Speaker:</i> Dr. Kingshuk Mukhuti, Radboud University, Netherlands
17:35-17:55	IL 4	<i>Title:</i> Controlling Photon Emission Statistics from Quantum Dots <i>Speaker:</i> Prof. Anshu Pandey, IISc, Bengaluru, India
Session 3		
Chair: Prof. Raja Shunmugam, IISER Kolkata, India		
17:55-18:15	IL 5	<i>Title:</i> Water-Enhanced Deep Eutectic Electrolytes for Stable Zinc-Ion Batteries <i>Speaker:</i> Prof. Sayan Bagchi, CSIR-NCL Pune, India
18:15-18:35	IL 6	<i>Title:</i> Next Generation Dopants for Organic Electronics <i>Speaker:</i> Prof. Pabitra K. Nayak, TIFR Hyderabad, India

18:35-18:45	YIFP 2	<i>Title:</i> Non-Covalent Reversibly Photoswitchable Fluorescent Tags for Wash-Free Protein Labelling <i>Speaker:</i> Dr. Mrinal Mandal, ENS, Paris, France
Session 4 Chair: Prof. Ravi Kumar Kanaparthi, Central University of Kerala, India		
18:45-20:00	Poster Presentation (with Tea)	
20:00-22:00	Dinner	
Day 2: 24 th January 2026, Saturday		
Session 5 Chair: Prof. Alakesh Bisai, IISER Kolkata, India		
09:00-09:40	PL 2	<i>Title:</i> First-Order Properties using The Relativistic Extended Coupled-Cluster Method <i>Speaker:</i> Prof. Sourav Pal, Ashoka University, India
09:40-10:10	KL 3	<i>Title:</i> Modeling Electrocatalysts for Hydrogen Evolution Reactions and Ultralow Lattice Thermal Conductivity in Topologically Non-Trivial (Sb ₂ Te ₃) _m (Sb ₂) _n Homologous Series <i>Speaker:</i> Prof. Swapan K. Pati, JNCASR, Bengaluru, India
Session 6 Chair: Prof. Arabinda Chaudhuri, IISER Kolkata, India		
10:10-10:50	PL 3	<i>Title:</i> Exciton and Biexciton Dynamics in CdSe Nanoplatelets <i>Speaker:</i> Prof. K. George Thomas, IISER TVM, India
10:50-11:20	KL 4	<i>Title:</i> Functional Molecular Solids: Amorphous, Crystalline and Phase Change Materials, Structure-Phase Correlations <i>Speaker:</i> Prof. T. P. Radhakrishnan, University of Hyderabad, India
11:20-11:40	Tea Break	
Session 7 Chair: Prof. Kumaresh Ghosh, University of Kalyani, India		
11:40-12:00	IL 7	<i>Title:</i> Intracellular Subdegree Temperature Sensing and Dynamics by Thermoresponsive Silver Nanoclusters as Molecular Probes <i>Speaker:</i> Prof. Saptarshi Mukherjee, IISER Bhopal, India
12:00-12:20	IL 8	<i>Title:</i> Keeping The Chromophores Crossed for Efficient Photoinduced Symmetry-Breaking Charge Separation <i>Speaker:</i> Prof. Mahesh Hariharan, IISER TVM, India
Session 8 Chair: Prof. Tarun Kumar Mandal, IACS, Kolkata, India		
12:20-12:40	IL 9	<i>Title:</i> Tailoring Molecular Structure for Optimized Singlet Fission <i>Speaker:</i> Prof. Satish Patil, IISc, Bengaluru, India
12:40-13:00	IL 10	<i>Title:</i> Probing Singlet Exciton Fission in Molecular Cyclophane Dimers <i>Speaker:</i> Prof. Jyotishman Dasgupta, TIFR Mumbai, India
13:00-13:20	IL 11	<i>Title:</i> Electronic Structure and Mechanism of Singlet Fission <i>Speaker:</i> Prof. Debashree Ghosh, IACS, Kolkata, India
Session 9 Chair: Prof. Moloy Sarkar, NISER, Bhubaneswar, India		
13:20-13:30	Sponsor Talk 1	Gold Sponsor (ATOS)
13:30-13:35	Sponsor Talk 2	Bronze Sponsor (Scitech Incorporation)

13:35-14:30	Lunch Break	
Session 10 Chair: Prof. Soumyajit Roy, IISER Kolkata, India		
14:30-15:30	Panel Discussion	<i>Panellists:</i> - Prof. Thirumalachari Ramasami, Former Secretary, DST, India and Former Director, CLRI, Chennai, India - Dr. Samiran Mahapatra, R&D Director, Science & Technology, Unilever, India - Prof. Sourav Pal, Ashoka University, India and Former Director, IISER Kolkata, India - Prof. Venu Gopal Achanta, Director, CSIR-NPL, New Delhi, India - Prof. Anunay Samanta, University of Hyderabad, India - Prof. Priyadarsi De, Dean, Research and Development, IISER Kolkata, India
15:30-15:45	Group Photo Session	
15:45-16:00	High Tea Break	
16:00-	Bus leaves for Cruise Dinner on Ganges	
Day 3: 25 th January 2026, Sunday		
Session 11 Chair: Prof. Mahesh Hariharan, IISER TVM, India		
09:00-09:40	PL 4	<i>Title:</i> Development and Characterization of Colloidal Nanoparticles Towards Applications in Life Science <i>Speaker:</i> Prof. Wolfgang Parak, University of Hamburg, Germany
09:40-10:10	KL 5	<i>Title:</i> Plasmonic Metal and Lead Halide Perovskite Nanocrystal Heterostructures <i>Speaker:</i> Prof. Narayan Pradhan, IACS, Kolkata, India
10:10-10:40	KL 6	<i>Title:</i> Perovskite Quantum Dots: From Minute to Femtosecond Spectroscopy <i>Speaker:</i> Prof. Quinten Akkerman, LMU München, Germany
10:40-11:00	Tea Break	
Session 12 Chair: Prof. Sanjib Bagchi, IISER Kolkata, India		
11:00-11:40	PL 5	<i>Title:</i> Charge Carrier Dynamics in Perovskite Nanocrystals <i>Speaker:</i> Prof. Anunay Samanta, University of Hyderabad, India
11:40-12:10	KL 7	<i>Title:</i> Defect-Mediated Electronic Processes in Perovskites Revealed by Luminescence: From Fundamentals to Neuromorphic Computing <i>Speaker:</i> Prof. Ivan G. Scheblykin, Lund University, Sweden
Session 13 Chair: Prof. T. P. Radhakrishnan, University of Hyderabad, India		
12:10-12:30	IL 12	<i>Title:</i> Visualizing Ribosomal-RNA Methylation Proteins in Action <i>Speaker:</i> Prof. Arindam Chowdhury, IIT Bombay, India
12:30-12:45	ST 2	<i>Title:</i> Enhancing Plasmonic Photocatalysis Through Ligand Engineering <i>Speaker:</i> Prof. Saumyakanti Khatua, IIT Gandhinagar, India
12:45-12:55	YIFP 3	<i>Title:</i> Interfacial Photophysics of Solar Cells with Non-Invasive Correlative Microscopy <i>Speaker:</i> Dr. Sudipta Seth, KU Leuven, Belgium

Session 14		
Chair: Prof. Jatish Kumar, IISER Tirupati, India		
12:55-13:00	Sponsor Talk 3	Bronze Sponsor (Trokut Solutions)
13:00-13:05	Sponsor Talk 4	Bronze Sponsor (TCI Chemicals)
13:05-13:10	Sponsor Talk 5	Bronze Sponsor (Mono Scientific)
13:10-14:00	Lunch Break	
Session 15		
Chair: Prof. Nikhil Guchhait, University of Calcutta, India		
14:00-14:30	KL 8	<i>Title:</i> Protein Structure, Drug Discovery, Diagnostics Using Light and Nanoparticles <i>Speaker:</i> Prof. Chandrabhas Narayana, JNCASR, Bengaluru, India
14:30-15:00	KL 9	<i>Title:</i> Harnessing Spin and Vibrations for Next Generation Molecular and Hybrid Optoelectronic Materials <i>Speaker:</i> Prof. Akshay Rao, University of Cambridge, UK
15:00-15:20	IL 13	<i>Title:</i> Polarization Engineering for Artificial Neural Circuits <i>Speaker:</i> Prof. Satyaprasad P Senanayak, NISER, Bhubaneswar, India
Session 16		
Chair: Prof. Saptarshi Mukherjee, IISER Bhopal, India		
15:20-15:40	IL 14	<i>Title:</i> Vibronic Phosphorescence and Thermally Stimulated Delayed Phosphorescence: A Theoretical Perspective <i>Speaker:</i> Prof. Swapan Chakrabarti, University of Calcutta, India
15:40-16:00	IL 15	<i>Title:</i> Ionic Liquids in The Synthesis and Photophysical Modulation of Semiconductor Nanocrystals <i>Speaker:</i> Prof. Moloy Sarkar, NISER, Bhubaneswar, India
16:00-16:20	IL 16	<i>Title:</i> Fluorescent Materials: Self-Assembly and Photocatalytic Applications <i>Speaker:</i> Prof. Vandana Bhalla, Guru Nanak Dev University, Punjab, India
16:20-16:30	YIFP 4	<i>Title:</i> Decoupling Excitons from High-Frequency Vibrations in Organic Molecules <i>Speaker:</i> Dr. Pratyush Ghosh, University of Cambridge, UK
16:30-16:50	High Tea Break	
Session 17		
Chair: Prof. Vandana Bhalla, Guru Nanak Dev University, Punjab, India		
16:50-17:20	KL 10	<i>Title:</i> Probing Carrier Relaxation Pathways in Lead- And Cadmium-Free Semiconductor Nanocrystals with Fast and Slow Spectroscopies <i>Speaker:</i> Prof. Łukasz Kłopotowski, Polish Academy of Sciences, Warsaw, Poland
17:20-17:40	IL 17	<i>Title:</i> What Drives Structural Distortions in Two Dimensional Hybrid Halide Perovskites? <i>Speaker:</i> Prof. Priya Mahadevan, SBNCBS, Kolkata, India
17:40-17:55	ST 3	<i>Title:</i> Tuning Peptide Secondary Structure on Gold Nanoparticles Through Controlled Thiol and Carboxylate Functionalization <i>Speaker:</i> Prof. Anup Ghosh, Bose Institute, Kolkata, India

Session 18		
Chair: Prof. Manoranjan Jana, University of Kalyani, India		
17:55-18:10	ST 4	<i>Title:</i> Exciton-to-Biexciton Transitions and Energy Transfer Dynamics in Mn-doped Perovskite Nanocrystals <i>Speaker:</i> Prof. Tushar Debnath, Shiv Nadar Institution of Eminence, Delhi, India
18:10-18:20	YIFP 5	<i>Title:</i> Tin vs. Lead Halide Perovskites: Interlinked Yet Distinct Colloidal Nanochemistries of Growth and Stability <i>Speaker:</i> Dr. Kushagra Gahlot, LMU München, Germany
Session 19		
Chair: Prof. Saumyakanti Khatua, IIT Gandhinagar, India		
18:20-18:30	Sponsor Talk 6	Gold Sponsor (Laser Science)
18:30-18:35	Sponsor Talk 7	Silver Sponsor (Specialise Instruments)
18:35-18:40	Sponsor Talk 8	Bronze Sponsor (Horiba India)
Session 20		
Chair: Prof. Aniruddha Paul, NIT Patna, India		
18:40-20:00	Poster Presentation (with Tea)	
20:00-22:00	Banquet Dinner	
Day 4: 26 th January 2026, Monday		
Session 21		
Chair: Prof. Amitava Das, IISER Kolkata, India		
09:00-09:30	KL 11	<i>Title:</i> Membrane Perturbations by Amphiphilic Molecules: A Worry and An Opportunity <i>Speaker:</i> Prof. Sudipta Maiti, BITS Pilani, Hyderabad Campus, India
09:30-09:50	IL 18	<i>Title:</i> Rashba and Excitonic Physics in Emerging Materials and Correlations with Light-Matter Interaction: A Computational Insight <i>Speaker:</i> Prof. Sudip Chakraborty, Harish-Chandra Research Institute, Prayagraj, India
Session 22		
Chair: Prof. Pradip Kr. Ghorai, IISER Kolkata, India		
09:50-10:10	IL 19	<i>Title:</i> Conductivity in Battery Electrolyte Systems: Roles for Solution Structure, Ultrafast Solvent Modes and Ion-Ion Motional Correlations <i>Speaker:</i> Prof. Ranjit Biswas, SNNCBS, Kolkata, India
10:10-10:30	IL 20	<i>Title:</i> Mapping Ultrafast Relaxation Dynamics of Large Stokes Shift Red Fluorescent Proteins <i>Speaker:</i> Prof. Arijit Kumar De, IISER Mohali, India
10:30-10:50	IL 21	<i>Title:</i> Halide Perovskite Nanomaterials for Energy and Optoelectronic Applications <i>Speaker:</i> Prof. Monojit Bag, IIT Roorkee, India
10:50-11:10	Tea Break	
Session 23		
Chair: Prof. Balaram Mukhopadhyay, IISER Kolkata, India		
11:10-11:40	KL 12	<i>Title:</i> Chiral Metal Halide Crystals as Emerging Chiroptical Materials <i>Speaker:</i> Prof. Lakshminarayana Polavarapu, Universidade de Vigo, Vigo, Spain

11:40-12:00	IL 22	<i>Title:</i> Polymer Perovskite Composites for Energy Harvesting Applications <i>Speaker:</i> Prof. Aswani Yella, IIT Bombay, India
12:00-12:20	IL 23	<i>Title:</i> Developments in Cartesian-Grid-Based DFT in Atoms and Molecules (InDFT) <i>Speaker:</i> Prof. Amlan Kusum Roy, IISER Kolkata, India
Session 24 Chair: Prof. Ranjit Biswas, SNBNCBS, Kolkata, India		
12:20-12:45	Poster prize distribution	
12:45-13:00	Valedictory followed by vote of thanks	
13:00-	Lunch and Departure	
PL: Plenary Lecture KL: Keynote Lecture IL: Invited Lecture ST: Short Talk YIFP: Young Investigator’s Flash Presentation		