

Tentative schedule of the programme:

Day 1: 12 th January 2024, Friday		
07:30-09:00	Registration at R. N. Tagore Auditorium	
09:00-09:30	Inauguration & Welcome address	
Session 1		
Chair: Sushanta Dattagupta, Founding director, IISER Kolkata, India		
09:30-10:15	Plenary lecture 1	<i>Speaker:</i> D. D. Sarma, IISc Bangalore, India <i>Title:</i> Dynamics of Photoluminescence in Mn-Doped Pb-Halide Perovskite Nanocrystals
Break		
Session 2		
Chair: Priyadarsi De, IISER Kolkata, India		
10:25-11:00	Keynote lecture 1	<i>Speaker:</i> Don C. Lamb, LMU München, Germany <i>Title:</i> Extracting Kinetics using Single Molecule FRET
11:00-11:20	Invited lecture 1	<i>Speaker:</i> Arindam Chowdhury, IIT Bombay, India <i>Title:</i> Probing Local Surface Polarity of (Bio)molecular Aggregates using Sensitized Emission Imaging
11:20-11:40	Tea Break	Barcode
Session 3		
Chair: Ayan Datta, IACS Kolkata, India		
11:40-12:15	Keynote lecture 2	<i>Speaker:</i> Narayan Pradhan, IACS Kolkata, India <i>Title:</i> Color Tunable Quantum Dots: Seeing from Reaction Flask to Watching those under Electron Microscope
12:15-12:35	Invited lecture 2	<i>Speaker:</i> Pankaj Mandal, IISER Pune, India <i>Title:</i> 1D Lead Halide Perovskites for Nonlinear Optics and Photonics
12:35-12:55	Invited lecture 3	<i>Speaker:</i> Sayan Bagchi, CSIR-NCL Pune, India <i>Title:</i> Surface-Ligand Interactions in Quantum Dots: 2D IR Insights
12:55-14:15	Lunch Break	Barcode
Session 4		
Chair: Sanjib Bagchi, IISER Kolkata, India		
14:15-14:35	Invited lecture 4	<i>Speaker:</i> Subhajit Bandyopadhyay, IISER Kolkata, India <i>Title:</i> Light-Switches in Biomimetic Catalysis
14:35-14:55	Invited lecture 5	<i>Speaker:</i> Sanchita Sengupta, IISER Mohali, India <i>Title:</i> Diindolocarbazole-Based Twisted Organic TADF Triads and Donor-Acceptor Compounds for Efficient Energy- and Electron-Transfer Photocatalysis
14:55-15:15	Invited lecture 6	<i>Speaker:</i> Debapratim Das, IIT Guwahati, India <i>Title:</i> From Molecule to Material: The Case of an Ultrashort Peptide
15:15-15:35	Invited lecture 7	<i>Speaker:</i> Apurba Lal Koner, IISER Bhopal, India <i>Title:</i> Styryl-Based Far-Red Emissive Fluorogenic Probes for Biological Applications
15:35-15:55	Invited lecture 8	<i>Speaker:</i> Sarit S. Agasti, JNCASR Bangalore, India <i>Title:</i> Single Molecule Imaging through Engineered Molecular Interaction
15:55-16:20	High Tea	Barcode
Session 5		
Chair: Arabinda Chaudhuri, IISER Kolkata, India		
16:20-16:40	Invited lecture 9	<i>Speaker:</i> Anindya Datta, IIT Bombay, India <i>Title:</i> Strategies and Challenges in Engineering the Excited State Processes of Fluorogenic Molecules

16:40-17:00	Invited lecture 10	<i>Speaker:</i> Soumen Ghosh, IISc Bangalore, India <i>Title:</i> Time-Domain Broadband Circular Dichroism Spectroscopy: A Novel Probe of Chiral Structure and Spin Dynamics
Break		
Session 6 (Young-Investigators' Flash Presentation) Chair: Pradipta Purkayastha, IISER Kolkata, India		
17:10-17:20	Flash Talk 1	<i>Speaker:</i> Satyajit Patra, BITS-Pilani, Pilani, India <i>Title:</i> Breaching the Diffraction Limit in Single Molecule Fluorescence Detection using Zero-Mode Waveguide (ZMW) Nanostructures
17:20-17:30	Flash Talk 2	<i>Speaker:</i> Navendu Mandal, Imperial College London, UK <i>Title:</i> Ultrafast Intraband Spectroscopy of Perovskite Systems: Extending the Defect Tolerance to Hot Carrier Cooling Dynamics
17:30-17:40	Flash Talk 3	<i>Speaker:</i> Kingshuk Mukhuti, Radboud University, Netherlands <i>Title:</i> Optically-Tracked Thermal-Breach-Memory in MaPbI_3
Break		
Session 7 Chair: D. D. Sarma, IISc Bangalore, India		
17:45-18:30	Special Evening Lecture	<i>Speaker:</i> Sushanta Dattagupta, Founding director, IISER Kolkata, India <i>Title:</i> Nonlinear Optical Conductivity of Graphene and Related Phenomena
Break		
Session 8 Chair: Sanchita Sengupta, IISER Mohali, India		
19:00-19:05	Sponsor Talk 1	RSC (Academic Sponsor)
19:05-19:10	Sponsor Talk 2	Simco Global Technology & Systems Ltd. (Silver Sponsor)
19:10-19:15	Sponsor Talk 3	Advanced Photonics (Silver Sponsor)
19:15-19:20	Sponsor Talk 4	Specialise Instruments (Silver Sponsor)
19:20-19:25	Sponsor Talk 5	Laser Spectra Services (Bronze Sponsor)
19:30-22:00	Dinner	Barcode

Day 2: 13th January 2024, Saturday		
Session 9 Chair: Don C. Lamb, LMU München, Germany		
09:00-09:45	Plenary lecture 2	<i>Speaker:</i> K. George Thomas, IISER TVM, India <i>Title:</i> Semiconductor Quantum Dots: From Trap-States to Single Photon Purity
Break		
Session 10 Chair: Timothy W. Schmidt, UNSW, Australia		
09:55-10:30	Keynote lecture 3	<i>Speaker:</i> Ashok K. Ganguli, IIT Delhi and IISER Berhampur, India <i>Title:</i> Design of Nanomaterials for Energy Conversion, Storage and Medical Applications
10:30-11:05	Keynote lecture 4	<i>Speaker:</i> Peter Reiss, CEA, Grenoble, France <i>Title:</i> III-V Semiconductor Quantum Dots: Synthesis and Applications
11:05-11:30	Tea Break	Barcode
Session 11 Chair: Nitin Chattopadhyay, Jadavpur University, India		

11:30-11:50	Invited lecture 11	<i>Speaker:</i> Mahesh Hariharan, IISER TVM, India <i>Title:</i> Symmetry Breaking Charge Separation in Chromophoric Dimers
11:50-12:10	Invited lecture 12	<i>Speaker:</i> Jyotishman Dasgupta, TIFR Mumbai, India <i>Title:</i> Tracking Correlated Triplet-Triplet Pairs in Singlet Exciton Fission
12:10-12:30	Invited lecture 13	<i>Speaker:</i> Ratheesh K. Vijayaraghavan, IISER Kolkata, India <i>Title:</i> Engineered Solid-State Aggregates in Brickwork Stacks of n-type Organic Semiconductors: A Way to Achieve High Electron Mobility
12:30-13:00	Group Photo Session	
13:00-14:00	Lunch Break	Barcode
Session 12 Chair: Ranjit Biswas, SNBNCBS Kolkata, India		
14:00-14:35	Keynote lecture 5	<i>Speaker:</i> Achanta Venu Gopal, CSIR-NPL Delhi, India <i>Title:</i> Label-Free Single Molecule Sensing with Metamaterials
14:35-14:55	Invited lecture 14	<i>Speaker:</i> Nirmalya Ghosh, IISER Kolkata, India <i>Title:</i> Emerging Polarized Light Methodologies for Probing Nano Scale Structural Anisotropy
14:55-15:15	Invited lecture 15	<i>Speaker:</i> Satyaprasad P Senanayak, NISER Bhubaneswar, India <i>Title:</i> Electronic and Ionic Transport in Mixed Metal Perovskites
15:15-15:35	Invited lecture 16	<i>Speaker:</i> Pabitra K. Nayak, TIFR Hyderabad, India <i>Title:</i> Doping of Soft Semiconductors towards Stable and Efficient Optoelectronics
Break		
Session 13 Poster Judges: Jyotishman Dasgupta, Deepa Khushalani, Moloy Sarkar, Sanchita Sengupta, Satyajit Patra		
15:45-18:00	Poster presentation (with High Tea)	Barcode
Session 14 (Young-Investigators' Flash Presentation) Chair: Asoke P. Chattopadhyay, University of Kalyani, India		
18:00-18:10	Flash Talk 4	<i>Speaker:</i> Anup Ghosh, SNBNCBS Kolkata, India <i>Title:</i> The Mechanistic Insights into Drug Carrier Development, Cell Penetration Mechanisms, and Target Binding Studies
18:10-18:20	Flash Talk 5	<i>Speaker:</i> Tushar Debnath, IIT Guwahati, India <i>Title:</i> Halide Driven Energy and/or Charge Transfer Dynamics in Perovskite Nanocomposite
18:20-18:30	Flash Talk 6	<i>Speaker:</i> Ganesh Agam, Cambridge, UK <i>Title:</i> How Robust is Studying the Structural Dynamics of Biomolecules by Single Molecule FRET Spectroscopy?
Break		
Session 15 Chair: Soumen Ghosh, IISc Bangalore, India		
18:35-18:50	Sponsor Talk 6	ATOS (Platinum Sponsor)
18:50-19:00	Sponsor Talk 7	Laser Science (Gold Sponsor)
19:30-22:00	Dinner	Barcode

Day 3: 14 th January 2024, Sunday		
Session 16		
Chair: K. George Thomas, IISER TVM, India		
09:00-09:45	Plenary lecture 3	<i>Speaker:</i> Anunay Samanta, University of Hyderabad, India <i>Title:</i> Charge Carrier Relaxation Dynamics in Perovskite Nanocrystals
Break		
Session 17		
Chair: Chilla Malla Reddy, IISER Kolkata and IIT Hyderabad, India		
09:55-10:30	Keynote lecture 6	<i>Speaker:</i> Timothy W. Schmidt, UNSW, Australia <i>Title:</i> Pushing the Limits of Photochemical Upconversion
10:30-10:50	Invited lecture 17	<i>Speaker:</i> Anshu Pandey, IISc Bangalore, India <i>Title:</i> Electronic Structure and Optical Properties of I-III-VI ₂ Semiconductor Quantum Dots
10:50-11:10	Invited lecture 18	<i>Speaker:</i> Sukhendu Nath, BARC Mumbai, India <i>Title:</i> Excited State Dynamics and their Role in Biosensing
11:10-11:30	Invited lecture 19	<i>Speaker:</i> Pramod P. Pillai, IISER Pune, India <i>Title:</i> Light-Matter Interactions at Nanoscale Leading to Chemical Changes
11:30-11:50	Tea Break	Barcode
Session 18		
Chair: Sayam Sengupta, IISER Kolkata, India		
11:50-12:10	Invited lecture 20	<i>Speaker:</i> Jino George, IISER Mohali, India <i>Title:</i> Long-Range Energy Transfer in Strongly Coupled Systems
12:10-12:30	Invited lecture 21	<i>Speaker:</i> Deepa Kushalani, TIFR Mumbai, India <i>Title:</i> Concurrent Energy Capture and Storage - Route to Formation of Solar Batteries
12:30-12:50	Invited lecture 22	<i>Speaker:</i> Abhishek Dey, IACS Kolkata, India <i>Title:</i> Reduction of Sulfur Dioxide to Sulfur Monoxide by Ferrous Porphyrin
12:50-13:10	Invited lecture 23	<i>Speaker:</i> Moloy Sarkar, NISER Bhubaneswar, India <i>Title:</i> Fluorescent Copper Nanoclusters: A Versatile Candidate for Understanding its Interactions with Biologically and Environmentally Important Analytes
13:10-13:20	Poster prize distribution by Prof. Anunay Samanta, Prof. Peter Reiss and Prof. Don C. Lamb	
13:20-13:30	Valedictory followed by vote of thanks	
13:30-14:15	Lunch Break	Barcode
14:30	Departure of Faculty members for Banquet Dinner (Barcode)	
15:30	Departure of Students for Banquet Dinner (Barcode)	