



**FLUORESCENCE
SOCIETY**



International Society on
Optics Within Life Sciences



OWLS 17 Schedule

Day 1. 18th November (Monday)

Time	Room A (LH 21)	Room B (LH 22)	Room C (LH 32)	Room D (LH 33)
11:00-13:00	Registration , Ground Floor, Victor Menezes Convention Centre (VMCC), IIT Bombay			
13:00-14:30	Lunch, Second Floor Foyer & Canopy Area			
Session 1.1. 14:30 - 15:45	Chair: Sudipta Maiti, <i>BITS Pilani, Hyderabad campus</i> Inauguration Plenary Talk 1: Catherine Royer, <i>Rensselaer Polytechnic Institute: When Quantity Counts</i> <i>Prof. B. Nag Auditorium</i>			
15:45 - 16:00	Tea Break, Ground Floor Cafeteria			
	Chair: Pradeepkumar P. I. <i>IIT Bombay</i>	Chair: Anirban Banerjee <i>IIT Bombay</i>	Chair: Dipak K. Palit <i>UM-DAE CEBS</i>	Chair: Roop Mallik <i>IIT Bombay</i>
Session 1.2 16:00-18:00	Hagen Hofmann <i>Weizmann Institute of Science, Israel</i> Model-free Photon Analysis of Diffusion-based Single-molecule FRET Experiments	Yitzhak Tor <i>University of California</i> Fluorescent Nucleosides, Nucleotides and Oligonucleotides	Martin T. Zanni <i>University of Wisconsin, Madison</i> Hyperspectral 2D IR Imaging: Application to Amyloid in Cataracts and Pancreas Tissues	Arne Gennerich <i>Albert Einstein College of Medicine</i> Kinesin-14 HSET and KlpA are Non-processive Microtubule Motors with Load-dependent Power Strokes
	Amitabha Chattopadhyay <i>CSIR-CCMB, Hyderabad</i> Exploring Cholesterol Sensitivity of G Protein-Coupled Receptors: Excitements and Challenges	Ankona Datta <i>TIFR Mumbai</i> Lighting up Lipids	Sayan Bagchi <i>CSIR-NCL, Pune</i> Water-Enhanced DES Electrolytes: A Path to Stable Zinc-Ion Batteries	Arindam Chowdhury <i>IIT Bombay</i> Probing Surface Polarity of Amyloid Fibrils using Sensitized Emission Imaging
	Ruchi Anand <i>IIT Bombay</i> Combating Target Modification based Antimicrobial Resistance: A War at the Microscopic Level	Tobias Baumgart <i>University of Pennsylvania</i> Mechanisms of Cellular Membrane Shape Transitions: From Lipids to Fast Endophilin mediated Endocytosis	Mahesh Hariharan <i>IISER Thiruvananthapuram</i> A Bottom-Up Approach to Explore Structure and Property in Eumelanin	Kanchan Garai <i>TIFR Mumbai</i> Single molecule Investigation of Liquid-Liquid and Liquid-Solid Phase Separation of Amyloid Proteins
	Jaydeep Kumar Basu <i>IISc. Bangalore</i> Unravelling Direct Correlations between Membrane Nanodomain Reorganization and Antimicrobial Resistance Evolution in Bacterial Cells	Dhiraj Devidas Bhatia <i>IIT Gandhinagar</i> DNA based Programmable Nanodevices to Program Biological Membranes	Ajay Jha <i>Rosalind Franklin Institute</i> EVV 2DIR Spectroscopy for Protein-Inhibitor Interaction Analysis	Krishnananda Chattopadhyay <i>CSIR-IICB, Kolkata</i> Conformational Fluctuations of Proteins: From Test Tubes to Neurodegenerative Disease
18:00 - 18:10	Break			
	Fluorescence Methods (FM)	Probes in Biology (PB)	Ultrafast Spectroscopy (UFS)	Single Molecule Spectroscopy (SMS)
	Super Resolution Methods (SR)	Bio-imaging in Cells (BiC)	SERS & Raman (S&R)	Theory & Modelling (T&M)



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	Chair: Arindam Chowdhury <i>IIT Bombay</i>	Chair: Ruchi Anand <i>IIT Bombay</i>	Chair: Pradipta Purkayastha <i>IISER Kolkata</i>	Chair: Nibedita Pal <i>IISER Tirupati</i>
Session 1.3 18:10 -19:50	Yale E Goldman <i>University of Pennsylvania and University of California at Davis</i> IDR-driven Nanometer-scale RNA Helicase Protein Clusters (RPCS) are Dynamic Assemblies	Hari Shroff <i>Howard Hughes Medical Institute</i> Data-Driven Image Restoration	Katsumasa Fujita <i>Osaka University</i> Low-temperature Raman Imaging of Cryofixed Biological Samples	Gunjan Mehta <i>IIT Hyderabad</i> Single-molecule Imaging and Tracking in Live Yeast <i>S. cerevisiae</i> for Quantifying the Dynamics and Target-search Mechanism of Aurora kinase B (Ipl1)
	Michael Schlierf <i>TU Dresden, Germany</i> Farewell to Single well: Automated Multiwell Single-molecule FRET to Screen Molecular Interactions and Dynamics	Shobhna Kapoor <i>IIT Bombay</i> Chasing the Functions of Mycobacterium Tuberculosis Glycolipids during Infection	Debanjan Bhowmik <i>Rajiv Gandhi Centre for Biotechnology, Kerala</i> Designing of HER2-targeting Metal Nanoconstructs for Therapeutic and Diagnostic Applications	Steve Presse <i>Arizona State University, USA</i> Single molecule-Single Photon Analysis: From One Confocal Spot to SPAD Array Tracking
	Saumya Saurabh <i>New York University</i> Advances in Super-Resolution Microscopy and Label-Free Condensate Characterization for Cellular Biophysics	Senthil Arumugam <i>Monash University, Australia</i> A Matter of Time: Catching Organelles in Action in vitro and in vivo	Nakul Chandra Maiti <i>CSIR-Indian Institute of Chemical Biology</i> Raman Parameters to Monitor Toxic Protein Oligomers Linked to Parkinson Diseases	Amartya Bose <i>TIFR Mumbai</i> Exciton Transport in Molecular and Polaritonic Aggregates
	Technical Talk (virtual): Ali Raja, ONI, Prof. B. Nag Auditorium			
20:00 - 22:00	Dinner, Second Floor Foyer & Canopy Area			
	Fluorescence Methods (FM)	Probes in Biology (PB)	Ultrafast Spectroscopy (UFS)	Single Molecule Spectroscopy (SMS)
	Super Resolution Methods (SR)	Bio-imaging in Cells (BiC)	SERS & Raman (S&R)	Theory & Modelling (T&M)

