

FORCE - Interdisciplinary Initiative in Chemical Sciences (IICS), FORCE-IICS

At Four Points by Sheraton, Singapore October 23-26, 2025

Program

Day-1 (23.10.2025)			
Session 1 (02:45 to 03:00 PM)	02:45 PM	Govindasamy Sekar, Thiruvancheril Gopakumar, Sandeep Verma	Inauguration
Session 2 (03:00 to 04:10 PM) <i>(Dedicated to PI industries)</i> Chair: Sandeep Verma, IIT Kanpur	03:00 PM	LT1: Srivari Chandrasekhar	Ideal synthesis to Net Zero Synthesis: why and how?
	03:30 PM	T1: Roderick Wayland Bates	Synthesis of Natural and Unnatural Products through Selective Coupling
	03:50 PM	T2: Srinivas Dharavath	Next-Generation High Energy Density Materials (HEDMs)
Coffee (4:10 PM to 4:30 PM)			
Session 3 (04:30 to 06:00 PM) Chair: Vishal Rai, IISER Bhopal	04:30 PM	LT2: Thimmaiah Govindaraju	Small Molecule Theranostics for Precision Targeting of Nucleic Acids
	05:00 PM	T3: Sivapriya Kirubakaran	Evaluating TLK1 as a druggable target to treat TMZ-resistant Glioblastoma
	05:20 PM	T4: Muraleedharan K. Manheri	Mimics of Archaeal Lipids for Multi-Drug Delivery Applications
	05:40 PM	T5: Tapasya Srivastava	Critical evaluation of the epigenome in the development of therapeutics against cancer
Session 4 (06:00 to 06:30 PM) Introduction by Govindasamy Sekar	06:00 PM	ET1: Peter C. Doherty	Interview with Nobel laureate (Recorded)

Day-2 (24.10.2025)			
Session 5 (09:00 to 10:30 AM) Chair: Radhika Venkatesan, IISER Kolkata	09:00 AM	LT3: Richard Strugnell	Removing antigen from the epithelia - a key task for IgA?
	09:30 AM	T6: Seergazhi G. Srivatsan	Probing nucleic acid architecture and function using responsive nucleoside analogs
	09:50 AM	T7: Dharmaraja Allimuthu <i>Chemistry-An Asian Journal Lecture Award Talk</i>	Synthetic ion channel-driven cytoplasmic vacuolization triggers paraptosis in ferroptosis-resistant cancer cells
	10:10 AM	T8: Jayanta Halder	Targeting the cell envelope: A versatile antibacterial strategy
Coffee (10:30 AM to 11:40 AM) and Poster Session			
Session 6 (11:40 to 12.50 PM) Chair: Aparna Ganguly, RSC	11:40 AM	LT4: Tharamani C. Nagaiah	Designing greener energy conversion system for a sustainable future
	12:10 PM	T9: Sreeraj Puravankara	Prussian Blue Analogs: A pathway to Stable, High-Capacity Cathodes for Na-ion Batteries
	12:30 PM	T10: Boomi Shankar Ramamoorthy	Organic and Hybrid Ferroelectrics for FeFET and Neuromorphic Applications
Lunch (12:50 PM to 02:00 PM)			
Session 7 (02:00 to 03:50 PM) Chair: Ramesh Ramapanicker, IIT Kanpur	02:00 PM	LT5: Thorsten Wohland	Generalized Fluorescence Microscopy with Spatiotemporal Super-resolution
	02:30 PM	T11: Hema Chandra Kotamarthi	Probing the mechanisms of disassembly and reassembly of the hexameric AAA+ proteasomal ATPase, Mpa upon chemical and thermal perturbation.
	02:50 PM	T12: Nagarajan Samuthira Pandian	Triphenylamine-based D-A Systems for Efficient WORM Memory Device Applications
	03:10 PM	T13: Chunyan Chi	Molecular Carbons with Different Shapes and Sizes
	03:30 PM	T14: Liviu Ungur	Applications of AI/ML in computational molecular magnetism
Coffee (03:50 PM to 05:00 PM) and Poster Session			
Session 8 (05:00 to 06:00 PM) Chair: Govindasamy Sekar, IIT Madras	05:00 PM	LT6: Tan Choon Hong	Chiral Cationic Ion Pair Catalysis using Guanidiniums
	05:30 PM	LT7: Pradyut Ghosh	Chalcogen Bonding in Anion Recognition
Session 9 (06:00 to 06:40 PM) Chair: Sandeep Verma, IIT Kanpur	06:00 PM - 06:40 PM	ET2: Alasdair McDowall AM	50 years of memories and lessons from a "noble" career in science
Banquet Dinner (07:30 PM to 09:30 PM)			

Day-3 (25.10.2025)			
Session 10 (09:00 to 11:00 AM) Chair: Anand Singh, IIT Kanpur	09:00 AM	LT8: Adam Mechler	Structural design of metallosupramolecular frameworks
	09:30 AM	LT9: Himansu Sekhar Biswal	The Sulfur Effect: A Spectroscopic Journey to Uncover the Potential of Thioamides
	10:00 AM	T15: Sayan Bhattacharyya	Reversible Adventures in Halide Perovskites a Nanoscale Motion to Sustainable Futures
	10:20 AM	T16: Kalyan Sadhu	Effect of crystal packing on photocurrent generation
	10:40 AM	T17: Satpal Singh Badsara	Electrochemical Functionalization of Indolizine Frameworks via N-Centered Radical Translocation
Coffee (11:00 AM to 11:30 AM)			
Session 11 (11:30 to 13.00 PM) Chair: Prabhat Kumar Dwivedi, IIT Kanpur	11:30 AM	LT10: Prasanta K Das	Self-Aggregated Organic Nanostructures in Diagnosis and Therapy
	12:00 AM	LT11: Parthasarathi Dastidar	Developing Supramolecular Gels for Vehicle Free Drug Delivery Application
	12:30 PM	LT12: Bhisma K Patel	Deciphering the Reactivity of Quinoxaline and Maleimide
Lunch (13.00 PM to 02:00 PM)			
Session 12 (02:00 to 03:00 PM) Chair: Ashutosh Kumar Mishra, IIT Hyderabad	02:00 PM	T18: Anuj Sharma	Radical-Based Green and Sustainable Transformations of Carboxylic Acids
	02:20 PM	T19: Bimlesh Lochab <i>Chemistry-An Asian Journal Lecture Award Talk</i>	Sustainable Thermosets: From concept to impact
	02:40 PM	T20: Wu Jie	C-H, Si-H, B-H Activation under Visible-light-irradiation
Coffee (03:00 PM to 03:30 PM)			
Session 13 (03:30 to 04:40 PM) <i>(Dedicated to The Royal Society of Chemistry)</i> Chair: Alakesh Bisai, IISER Kolkata	03:30 PM	T21: Devarajulu Sureshkumar	Visible-light-mediated Distal C(sp ³)-H Activation
	03:50 PM	T22: Swetavalli Raghavan	From Evidence to Impact: Integrating Scientific Innovation into Sustainability Governance
	04:10 PM	LT13: Richard Kelly	Scientific Publishing at the Royal Society of Chemistry - Tips from our Editors
Session 14 (04:40 PM) Chair: Govindasamy Sekar, IIT Madras	04:40 PM	Govindasamy Sekar, Thiruvancheril Gopakumar, Sandeep Verma	Concluding Remark
	05:00 PM		End
End of FORCE-IICS 2025			