

Technical Session Schedule of
in
Presidency University
Organized by the Department of Chemistry

Inaugural Session: Day 1 / 12th September, 2025

8:30 a.m. onwards	Registration at Derozio Hall
Inauguration at the Derozio Hall	
9:00 a.m.	Invocation and lighting of lamp
9:05 a.m.	Welcome address by Prof. Arnab Halder, President, FCFA-2025
9:10 a.m.	Presidential address by Prof. Nirmalya Narayan Chakraborty, Vice-Chancellor, Presidency University
9:20 a.m.	Address by Prof. Deb Shankar Ray, Guest of Honour
9:35 a.m.- 9:40 a.m.	Vote of thanks by Dr. Anjoy Majhi, Joint Convenor, FCFA-2025
9:40 a.m.-10:10 a.m.	High Tea Break

Technical Session: Day 1 / 12th September, 2025

Session 1:

Time			
	Session 1: Chairperson: Prof. D. S. Ray (Derozio Hall)		
10:10 a.m.- 10:40 a.m.	KL-1: Keynote Address by Prof. Hirendra Nath Ghosh, Director, DAE-NISER, Bhubaneswar <i>Title: Ultrafast Plasmon Dynamics in Non-Stoichiometric Near Infrared Active Semiconductor Nanocrystals</i>		
10:45 a.m.- 11:15 a.m.	KL-2: Keynote Address by Dr. Jagabandhu Koley, Vice-President, JSW Cement Ltd.		
11:20 a.m.- 11:50 a.m.	KL-3: Keynote Address by Prof. S. Sinha Ray, Chief Researcher/Director, CSIR South Africa <i>Title: Nanoengineered Materials for Healthcare Applications</i>		
	Tea Break 11:50 a.m.-12:05 p.m.		
	<i>Functional Inorganic Chemistry</i> Chairperson: Prof. Sujoy Baitalik, JU (PCM Auditorium)		<i>Functional Polymeric Materials</i> Chairperson: Prof. B. Das PU, Kolkata (MS Auditorium)
12:05 p.m.- 12:35 p.m.	PL-1 Prof. Indrajit Mukhopadhyay	12:05 p.m.- 12:35 p.m.	PL-2 Prof. Tushar Jana

	Pandit Deendayal Energy University Gandhinagar <i>Title: Electrodeposited Te nano-structures as non-enzymatic redox sensor for H₂O₂</i>		School of Chemistry, HCU, Hyderabad <i>Title: Polymer Membranes for the Production of Green Hydrogen</i>
12:40 p.m.- 1:10 p.m.	PL-3 Prof. Tapas Maji JNCASR, Bangalore <i>Title: Solar Fuel Production through Post-Synthetic Modification of Metal-Organic Frameworks</i>	12:40 p.m.- 1:10 p.m.	PL-4 Prof. Suhrit Ghosh IACS, Kolkata <i>Title: Hierarchical Assembly of Foldable Polymers and Functional Materials</i>
1:15 p.m.- 1:45 p.m.	PL-5 Prof. Tapan Kanti Paine IACS, Kolkata <i>Title: Lewis Acid Promoted Iron Catalyzed Selective Oxygenation of Olefins with Hydrogen Peroxide: Is Supporting Ligand Necessary?</i>	1:15 p.m.- 1:45 p.m.	PL-6 Prof. Suresh Kumar Jewrajka CSIR-CSMCRI, Bhavnagar <i>Title: Self-assembly for surface modification and fabrication of molecular selective membrane</i>
1:50 p.m.- 2:10 p.m.	IL-1 Prof. Subal Dey IISER-Berhampur <i>Title: Electrocatalytic Nitrate Reduction by Bioinspired Copper Complexes</i>	1:50 p.m.- 2:10 p.m.	IL-2 Prof. Raj Kumar Roy IISER-Mohali <i>Title: Controlling Folding Pathways in Aromatic Polyamides and their Functional Assemblies</i>
Lunch Break 2:10 p.m.-3:00 p.m.			
Session 2			
	<i>Synthetic Organic Chemistry: Organocatalysis</i> Chairperson: Prof. Chhanda Mukhopadhyay, Calcutta University) (PCM Auditorium)		<i>Supramolecular Chemistry</i> Chairperson: Prof. Suhrit Ghosh, IACS (MS Auditorium)
3:00 p.m.- 3:30 p.m.	PL-7 Prof. Shoubhik Das University of Bayreuth, Germany <i>Title: Lighting the Way: Photocatalysis for a Sustainable Chemical Future</i>	3:00 p.m.- 3:30 p.m.	PL-8 Prof. Partha Sarathi Mukherjee IISc-Bangalore <i>Title: Functional Molecular Vessels</i>
3:35 p.m.- 4:05 p.m.	PL-9 Prof. Subhabrata Sen Shiv Nadar Institution of Eminence <i>Title: From Electrons, to Force, to Light: Modern Green Pathways to Heterocycles</i>	3:35 p.m.- 3:55 p.m.	IL-3 Dr. Priyadarshi Chakraborty IIT-Hyderabad <i>Title: From Enzymes to Hydrogels: Translating Nature's Catalysts</i>
4:10 p.m.- 4:30 p.m.	IL-4 Dr. Biplab Maji	4:00 p.m.- 4:20 p.m.	IL-5 Dr. Bappaditya Gole

	IISER-Kolkata <i>Title: Advancing Asymmetric Catalysis with Earth-Abundant Cobalt Complexes</i>		Shiv Nadar University <i>Title: Electroactive multi-stack dye oligomers and their folding behavior</i>
Tea Break 4:20 p.m.- 4:45 p.m.			
Session 3 (Industrial Session): Chairperson Prof. Professor S. Sinha Ray (Derozio Hall)			
4:50 p.m.- 5:20 p.m.	KL-4: Keynote Address by Dr. V. K. Gupta, Sr. Vice President & Head, R&D-Polymer, Reliance Industries Ltd.		
	Industry Innovation Talks		
	<i>Advanced materials, Pharmaceuticals and Nanochemistry</i> Chairperson: Prof. B. Das, Presidency University, Kolkata (PCM Auditorium)	<i>Energy and Power Technologies</i> (Chairperson: Prof. Tushar Jana, HCU, Hyderabad) (MS Auditorium)	
5:25 p.m.- 5:45 p.m.	IL-6 Dr. Soumen Sensarma TCG Life Sciences Chembiotek <i>Title: Laboratory to Market</i>	IL-7 Dr. Mahasweta Nandi Visva-Bharati University <i>Title: B/N-co-doped Carbon Nanostructures for Electrochemical Energy Storage Applications</i>	
5:50 p.m.- 6:10 p.m.	IL-8 Dr. Soumyadipta Rakshit Motilal Nehru National Institute of Technology Allahabad <i>Title: Ultrafast Dynamics in Quantum Dots with Deep-Blue and Visible Emission</i>	IL-9 Dr. Prosenjit Daw IISER-Berhampur <i>Title: Renewable Hydrogen Production from Biomass-Derived Alcohols and Plastic Wastes using Bifunctional Ruthenium Catalyst</i>	
6:15 p.m.- 7:15 p.m.	Panel Discussion on “Driving Innovation in Chemical Sciences: From Lab to Market” (Moderator: Dr. Arup Ghosh, Lead Scientist (IP), SABIC, Bangalore) (Derozio Hall) ○ <i>Industry needs vs academic research</i> ○ <i>Barriers to tech transfer</i> ○ <i>Role of sustainability and regulation</i> ○ <i>Skills gaps and workforce development</i>		
	Conference Dinner: 7:15 p.m.-9:30 p.m.		

Technical Session: Day 2 / 13th September, 2025

Time		
	Session 1: Chairperson: Prof. Priyadarshi De (Derozio Hall)	
9:30 a.m.- 10:00 a.m.	KL-5: Keynote Address by Prof. Nikhil Kumar Singha, IIT Kharagpur <i>Title: Design Strategies for Mechanoresponsive Polymers with Multifunctional Applications</i>	
10:05 a.m.- 10:35 a.m.	KL-6: Keynote address by Dr. Amit Das, Senior Scientist, Leibniz-Institut für Polymerforschung, Dresden, Germany. <i>Title: From Baby Pacifier to Formula 1 Tires: The Fascinating Chemistry of Rubbers Across Life and Speed</i>	
10:40 a.m.- 11:10 a.m.	KL-7: Keynote address by Prof. Tarun Kumar Mandal, IACS, Kolkata <i>Title: Polar Amino Acids: Versatile Building Blocks for Libraries of Stimuli-Responsive Polymers</i>	
11:15 a.m.- 11:45 a.m.	KL-8: Keynote address by Prof. Susanta Banerjee, IIT-Kharagpur <i>Title: Semi-Fluorinated High-performance Polymers: Membrane-Based Applications</i>	
Tea Break (11:45 a.m.-12:10 p.m.) & Poster Session (11:45 a.m.- 5:30 p.m.)		
Session 2:		
Suresh Prasanna Ray and Amrita Ray Memorial Session Chairperson: Prof. D. Mandal (Retd. PU, Kolkata) (PCM Auditorium)		Applied Functional Materials Chairperson: Prof. Uday Chand Ghosh, (Retd. PU, Kolkata) (MS Auditorium)
12:15 p.m.- 12:45 p.m.	PL-10 Prof. Nirmalya Ballav IISER-Pune	PL-11 Prof. Sudip Malik IACS-Kolkata <i>Title: Aryl-Substituted Buta-1,3-Diene as Luminescent Core for Monomers and Copolymers: Design, Synthesis and Applications</i>
12:50 p.m.- 1:10 p.m.	IL-10 Dr. Goutam Ghosh Ramanujan Faculty CNSMS, Bangalore <i>Title: Designing Peptide-Based Nanomaterials for Tailored Piezoelectric Properties via Nanostructural and Chiroptical Activity Modulation</i>	IL-11 Dr. Susanta Kumar Bhunia VIT University, Vellore <i>Title: Bright yellow fluorescent N-doped Ti3C2 MXene quantum dots as “on/off/on” nanoprobe for selective As³⁺ ion detection</i>
1:15 p.m.- 1:35 p.m.	IL-12 Dr. Udayan Basak NPDF, IACS-Kolkata <i>Title: Exploration of the ATRP Initiation Site Originating from the PVDF Backbone</i>	IL-13 Dr. Biswajit Mondal, IIT-Gandhinagar <i>Title: Molecular Electrochemical Mediator for Oxidative Multi-Site Proton-Coupled Electron Transfer</i>
1:40 p.m.- 2:00 p.m.	IL-14 Dr. Shovon Chatterjee NPDF, ICT Bhubaneswar <i>Title: Photophysics of Graded Alloy Core/Shell ‘Giant-Quantum Dots’:</i>	IL-15 Dr. Naiwrit Karmodak Shiv Nadar Institute of Eminence

	<i>Effect of Outer Layer Composition Variation</i>	<i>Title: Multiscale Modelling of the Stability and Catalytic Activity of Materials for sustainable energy resources</i>	
2:05 p.m.- 2:25 p.m.	OL-1 Ms. Poulami Bag SRF, Presidency University <i>Title: Large-scale dynamics in visual quorum sensing chiral suspensions</i>	IL-16 Dr. Nimai Mishra ICT, Bhubaneswar <i>Title: How to Make Stable Perovskite Nanocrystals: For LED and Photocatalytic Applications</i>	
Lunch Break 2:25 p.m.-3:25 p.m.			
Session 3:			
	<i>Spectroscopy</i> Chairperson: Prof. S. Malik IACS, Kolkata (PCM Auditorium)		<i>Covalent Organic Framework and Catalysis</i> Chairperson: Prof. Gandhi K. Kar (Retd., PU) (MS Auditorium)
3:25 p.m.- 3:55 p.m.	PL-12 Prof. Partha Sarathi Chakraborty IIT Kharagpur <i>Title: Speciation studies for sustainable deep-sea mining</i>	3:25 p.m.- 3:45 p.m.	IL-17 Prof. Ranjan Jana IICB-Kolkata <i>Title: Development of Visible Light-Mediated Sustainable Cross-coupling Reactions</i>
4:00 p.m.- 4:30 p.m.	PL-13 Prof. Sobhan Sen JNU, New Delhi <i>Advancing the fundamental understanding on Design, Synthesis and Mechanistic Insight into the Kinetics of Ligand-Binding to DNA G-Quadruplex</i>	3:50 p.m.- 4:10 p.m.	IL-18 Dr. John Mondal, IICB, Kolkata <i>Title: Catalytic applications of functional Porous-Organic-Polymer (POP)</i>
4:35 p.m.- 4:55 p.m.	IL-19 Dr. Hirak Chakraborty School of Chemistry Sambalpur University <i>Title: Fusion peptide modulates membrane organization and dynamics: A macroscopic to nanoscopic view</i>	4:15 p.m.- 4:35 p.m.	IL-20 Dr. Md. Selim Arif Sher Shah, North Bengal University <i>Title: Electronic structure manipulation of molybdenum carbide-based materials for electrochemical water oxidation</i>
5:00 p.m.- 5:20 p.m.	IL-21 Dr. Arghyadeep Bhattacharyya Tripura University <i>Title: Addressing the Aggregation Phenomenon in a Model AIE Coupled ESIPT Active Probe: Correlating Aggregation states to their Photodynamics</i>	4:40 p.m.- 5:00 p.m.	IL-22 Dr. Mahuya Bandyopadhyay IITRAM, Maninagar, Ahmedabad <i>Title: Green catalytic process for highly selective and sustainable synthesis of cyclic carbonates from epoxides and CO₂ using copper-based hybrid silicoaluminophosphates</i>
Tea Break 5:00 p.m.-5:30 p.m.			
Session 4			

Perspective of Chemical Education in India: The Pivotal Role of ‘Presidency’ Chairperson: Prof. Sabyasachi Bhattacharya, PU (Derozio Hall)			Theoretical and Computational Chemistry Chairperson: Prof. Pinaki Chaudhury, CU, Kolkata (MS Auditorium)
5:30 p.m.- 6:00 p.m.	PL-14 Prof. Syamal Chakrabarti University of Calcutta <i>Title: History of Chemistry: Past, Present and Future</i>	5:30 p.m.- 5:50 p.m.	IL-23 Dr. Debabrata Mukherjee IISER-Kolkata <i>Title: Donor-functionalized NHCs, CAACs, and NHOs towards catalysis and small molecule activation</i>
6:05 p.m.- 6:35 p.m.	PL-15 Dr. Madhumita Mazumdar <i>Title: A chemistry lab for Presidency College: Reading in between the lines of a historic floorplan</i>	5:55 p.m.- 6:15 p.m.	IL-24 Dr. Debasish Mondal IIT-Tirupati <i>Title: Brownian Information Engines: The Essentials for Best Performance</i>
6:40 p.m.- 7:10 p.m.	PL-16 Prof. Projit Bihari Mukharji Professor of History, Ashoka University <i>Title: Chemical Vernaculars: Chemistry, Bengali and the Shifting Politics of Vernacularity, c. 1900–1980</i>	6:20 p.m.- 6:35 p.m.	SIL-1 Dr. Prabuddha Bhattacharya Mrinalini Datta Mahavidyapith <i>Title: Molecular Dynamics Insights into the L110M Mutation: Structural and Stability Effects on ATTR(105–115) Peptide Assemblies</i>
7:15 p.m.- 7:45 p.m.	PL-17 Dr. Upal Chakrabarti, Presidency University, Kolkata		
Dinner: 7:45 p.m.-10:00 p.m.			

Day 3 / 14th September

Session 1:

Frontiers of Chemistry Chairperson: Prof. S. Palani (Presidency University, Kolkata) (CLT-1)			Oral Presentations (Supported by ACS) Chairperson: Prof. A. Majhi, Presidency University, Kolkata (PCM Auditorium)
Time		Time	
9:40 a.m.- 10:10 a.m.	PL-18 Prof. Ayan Datta, IACS-Kolkata <i>Title: Buckling and Defects in Two -Dimensional Atomically Thin Monolayers</i>	9:40 a.m.- 9:52 a.m.	OL-2 Mr. Syed Yunus Ali <i>Title: Exact distributions of threshold crossing times of proteins under post-transcriptional regulation by small RNAs</i>

10:15 a.m.- 10:35 a.m.	IL-25 Dr. Anindya Bandopadhyay (In online mode) Head Biotechnology CIMMYT (CGIAR)	9:55 a.m.- 10:07 a.m	OL-3 Mr. Lalmohan Das <i>Title: Bay-substituted perylene diimide based donor-acceptor type copolymers: design, synthesis, optical and energy storage behaviours</i>
10:40 a.m.- 11:00 a.m.	IL-26 Dr Supriyo Majumder Senior Manager (R&D), BPCL <i>Title: Enhancing Heavy Oil Conversion in FCC through BHARAT BCA: From Laboratory Development to Commercial Deployment</i>	10:10 a.m.- 10:22 a.m	OL-3 Mr. Netai Aditya <i>Title: An Iridium-Lewis Acid Bifunctional Catalyst Enabled Regio- and Enantioselective C(sp²)-H meta-Borylation of α,α-Diarylcarboxamides</i>
11:05 a.m.- 11:20 a.m.	SIL-2 Dr. A. Sunil Assistant Professor Sri Sathya Sai Institute of Higher Learning <i>Title: Green synthesis of nanotitania for efficient photocatalytic degradation of dyes</i>	10:25 a.m.- 10:37 a.m	OL-4 Ms. Ritwika Samaddar <i>Title: Ligand-free “Fe-Sc Complex”: An Efficient Catalyst for Peroxide-Dependent Alcohol Oxidation</i>
11:25 am.- 11:40 a.m.	SIL-3 Dr. Subhankar Saha Assistant Professor Islampur College <i>Title: Crystal Engineering of Mechanically Flexible Molecular Crystals</i>	10:40 a.m.- 10:52 a.m	OL-5 Ms. Riya Ghanti <i>Title: A new coumarin-pyridyl based probe for Zn(II) and effective detection of nitro aromatics by Zn(II) complex in aqueous medium: Live cell imaging and practical applications</i>
11:45 a.m.- 12:00 p.m.	SIL-4 Ms. Nilufa Khatun Assistant Professor Harimohan Ghose College <i>Title: Visible-light photoredox-catalyzed Giese reaction and further transformation</i>	10:55 a.m.- 11:07 a.m	OL-6 Ms. Smitaroopa Kahali <i>Title: Fluorescent Sensors for Decoding Cellular Chemistry</i>
		11:10 a.m.- 11:22 a.m	OL-7 Mr. Sreedev G. Nair <i>Title: DFT and Experimental study of a phenol-Based chromium(III) sensor</i>
Tea Break 11:25 a.m.-11:40 a.m.			
		11:40 a.m.- 11:52 a.m.	OL-8 Mr. Harikrishna Rajeev Nair <i>Title: Structure and dynamics of Curcumin-Gold nanocomposite: A Molecular Dynamic study</i>

		11:55 a.m.- 12:07 p.m.	OL-9 Ms. Ankita Halder <i>Title: Synthesis of Novel Trinuclear Platinum(II) NHC Complexes and their Cytotoxic Effects Against Triple-Negative Breast Cancer Cell Lines</i>
		12:10 p.m.- 12:22 p.m.	OL-10 Mr. Anup Ghosal <i>Title: Dendrimers in Nutraceuticals: Emerging Nanocarriers for Enhanced Bioavailability and Targeted Delivery</i>
		12:25 p.m.- 12:37 p.m.	OL-11 Mr. Suvamay Pramanik <i>Title: Peel to Power: PPD-Modified Electrolyte and Chemically Activated Litchi Peel Carbon for High-Performance Supercapacitors</i>
	Session 2:		
12:45 p.m.- 1:00 p.m.	Valedictory Session (P.C. Mahalanobis Auditorium) Address by Dr. Biplab Biswas, Presidency University		
	Lunch		