

Inaugural address	9:30 - 9:45
Session 1	9:45 - 10:45

Session chair: Ritama Kar

Time	Speaker	Title of the talk
9:45 – 10:00	Nitin Sharma	Concise Enantioselective Total Syntheses of Rearranged ent-
		Trachylobane Diterpenoids (-)-Wallichanols A and B
10:00 - 10:15	Riya Gupta	Water Clusters in Superfluid Helium Nanodroplets
10:15 – 10:30	Sourav Bag	Ligand-Controlled Cobalt-Catalyzed Hydroboration of
		(Poly)carbonates for the Synthesis of Value-Added Chemicals
10:30 - 10:45	Zahid Ahmed	Asymmetric Aza-Michael/Michael/Mannich Domino Reaction
		of 2-Aminochalcones and 5-Alkenyl-Thiazolones: Access to
		Enantioenriched 1,4-Sulfur-Bridged Piperidinone Skeletons
Tea-break		10:45 - 11:00
Poster Sessi	ion 1: P1 – P15	11:00 - 11:45
Session 2		12:00 - 12:45

Session chair: Deepannita Samanta

Time	Speaker	Title of the talk
12:00 – 12:15	Adarsha Mandal	Pincer-(NHC)Mn(I) Complex-Catalyzed Activation of Alco-
		hols Molecules Toward Sustainable Synthesis
12:15 – 12:30	Farha Naaz	Data-mining and high-throughput approaches to predict
		novel perovskite materials
12:30 – 12:45	Saurabh K Rajput	Functional N-Centered Persistent Organic Radicals
Lunch Brea	k	12:45 - 14:00

Session 3 14:00 - 14:45

Session chair: Tanmoy Khan

Time	Speaker	Title of the talk
14:00 – 14:15	Neha Clare Minj	Repurposed Cu-Scrap as An Anode for The Electrooxidation
		of Small Molecules
14:15 – 14:30	Soumyadip Saha	Kinetic Monte Carlo (KMC) Simulations of Gallium Nitride
		(GaN) Growth on m-plane (1-100)
14:30 – 14:45	Patralekha Sarkar	Pivotal Role of Interfacial Binding in Ultrafast Hole Transfer
		from Halide Perovskite Nanocrystals
Session 4		15:00 - 15:45

Session chair: Suraj Kashyap

Time	Speaker	Title of the talk
15:00 – 15:15	Shantanu Sen	Seeing is believing: Proposing A Self-Investigated Insulin Qual-
		ity Monitoring Method
15:15 – 15:30	Anjali Negi	Structure and Intermolecular Interactions at Liquid-Vapor Inter-
		faces of Aqueous Osmolyte Solutions through Theoretical Vibra-
		tional Sum-Frequency Generation Spectroscopy
15:30 – 15:45	Vikrant Vini	Non-Covalent Stapling of Oligopeptides by Tuning Aromatic
		Amino Acid Residues
High Tea		16:00 - 17:00
Poster Sessi	ion 2: P16 – P29	16:15 - 17:00

Colloquium 17:00 - 18:00

Session Chair: Priya

Speaker	Title of talk
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Prof. Srihari Keshavamurthy Dreaming of mode-specific chemistry – inside a "box"?

Vote of thanks 18:00 - 18:15

• Poster session 1

No.	Speaker	Title of poster
P1	Rhitwika Chowdhury	Ambient CO ₂ Cycloaddition to Challenging Epoxides via Hydroxypyridine functionalized Zinc-Imidazolium Catalysts: A Pathway to Renewable Cyclic Carbonates
P2	Ayusie Goyal	Prussian blue analogue heterointerface on a pre-oxidized copper foam surface for enhanced anodic oxidation performance
P3	Goutam Panigrahi	Differential binding interactions of physiological phosphates on macrocyclic luminescent Eu(III) probes via simultaneous VET/PeT process
P4	Sayari Dewan	Self-Assembling Imidazolium Nanoaggregates Trigger a Unique Dynamin-Dependent Cell Death via Cytoplasmic Vacuolization and Mitochondrial Dysfunction in Human Lung Adenocarci- noma
P5	Divya Mahapatra	Co(II)-Catalyzed Additive-Free Transfer Hydrogenation of N-Heteroarenes at Room Temperature
P6	Uttej Sai Krishna	Polycyclic and Spiro-Dihydroquionones Induce Lipid Peroxidation to Prevent Cancer Cell Proliferation
P7	Chirantan Singha	Biomimetic Synthesis of Cucurbalsaminone A
P8	Amit Kumar Sharma	Dynamic Kinetic Resolution in Ring-opening Cyclization of Aziridines: Enantioselective Route to Benzodiazepines
P9	Subhajit Dan	Study of Sum Frequency Generation Spectroscopy of Water in the Terahertz region using Polarizable Force Field
P10	Pankaj Kumar	Enhancing the Efficacy of Photocatalytic Reduction Reaction with 'Strongly Coupled' Nanoscale Plexciton Hybrid
P11	Shuvadip Ghosh	Inverse Current in Coupled Transport
P12	Vijay Bahadur	Nitrogen Doping through Precursor Selection for Improving the Charge Transport in Transferable Semi-Conducting 2D-imine Covalent Organic Framework
P13	Sandip Paul	Femtosecond Laser Induced Thermal Lens Spectroscopy for Sensing Liquid-Air Interface
P14	Priya	A Green's function formalism for kinetic energy density functional in Orbital-free DFT
P15	Pooja Rani	1-Methyl Imidazole Clusters in Superfluid Helium Nanodroplets

• Poster Session 2

No.	Speaker	Title of poster
P16	Abhik Ghoshal	Counterions Drive Memory Functionality in Two-terminal Viologen-based Molecular Junctions
P17	Tamal Kanti Biswas	Visible Light-Mediated Acceptor-less Dehydrogenative Coupling for the Synthesis of Quinolines and Naphthyridines Using a Perimidine-Based Iron(II) Catalyst
P18	Deepannita Samanta	Unusually Stable Synthetic Diheme bis-Fe(IV)oxo: An Intermediate in Diheme Enzymes MauG and BthA
P19	Sneha Mittal	Developing High-Performance OER Electrode via an Eccentric Corrosion of NiFeCo Substrate
P20	Sumedha Gupta	Multifunctional surfactants derived from amino acids: the effect of pH and temperature on their interactions with bovine serum albumin
P21	Vatsalya Gupta	Benzyl thioether-based trans-thioetherification as a dynamic covalent motif for designing covalent adaptable networks
P22	Anshika Sinha	Haloalkane-driven dichotomous reactivity of aryl radicals as halo- gen and hydrogen atom transfer agents: photocatalytic olefin and alkyne functionalization cascades
P23	Sameer Saurav	Kinetics of Barrier Crossing Events from Temperature Accelerated Sliced Sampling Simulations
P24	Riya Rathore	Unravelling the properties of perovskites through ab initio approaches
P25	Sandipan Maitra	From Atom to Island: Simulating Silicene Growth on Ag(III) with DFT and kMC
P26	Shivani Gupta	Enhanced Photocatalysis via Perovskite-Molecular Synergy and Surface Engineering
P27	Bhupendra Singh	Protein Associated Water is Responsible for Maintaining the Stability of Eye Crystallin
P28	Aanchal Grover	Second-Order Saddle Points and Concerted Reaction Mechanism: Insights from Entangled Trajectory Molecular Dynamics
P29	Geetanjali Negi	SARS-CoV-2 Evolved Variants Bind to Sialylated Gangliosides and Inhibited by Tetravalent Sialo-Glycocluster