



# CHEMFEST-2025

School of Chemistry, University of Hyderabad  
Venue: DST Auditorium, UoH



Day 1: 14<sup>th</sup> Feb, 2025

09:00 am-10:00 am	Registrations
10:00 am-10:30 am	<b>Inauguration and Welcome Address:</b> Prof. Samar Kumar Das, Dean, SoC, UoH Prof. B. J. Rao, VC, UoH and Prof. Ghanshyam Krishna, Director, IoE

## Session-1 (Chairperson: Saladi Nirupama)

10:30 am-11:10 am	Faculty Lecture-1	Prof. V. Baskar	Functionalized Molecular Aggregates and their Utility in Optical, Magnetic, and Electrocatalytic Applications
11:10 am-11:30 am	Tea-Break		
11:30 am-11:45 am	OP/PP-1	Shanmuga Priya V	Pyrrole based high performance energetic materials: Synthesis, characterization and exploration of its energetic properties
11:45 am-12:00 pm	OP/PP-2	Melchi chosenyah	Hierarchical Serpentine-like Organic Flexible Crystal Optical Waveguides Mimicking Neural Networks
12:00 pm-12:15 pm	OP/PP-3	Sibani Rath	Construction of Value-Added Naphthoquinones for Pharmaceuticals
12:15 pm-12:30 pm	OP/PP-4	Sampurna Nayak	Exploring Multicomponent Cocrystals of 4-Chloro-3-Sulfamoylbenzoic Acid
12:30 pm-02:00 pm	Poster session followed by lunch		

## Session-2 (Chairperson: Dr. Pragathi Biswal)

02:00 pm-02:15 pm	OP/PP-5	Gopika Premanand P S	A Proton-Conductive Co(II)-Polyoxometalate Acts as a Precatalyst for Efficient Electrocatalytic Water Oxidation
02:15 pm-02:30 pm	OP/PP-6	Dheeraj Sangoji	Class I Aldolases Catalyzed Photo-Biocatalytic Enantioselective $\beta$ -Alkylation of Enals
02:30 pm-02:45 pm	OP/PP-7	Nisha	Theoretical Insights into Dual Capture of Ammonia and Carbon dioxide in Covalent Organic Frameworks for Ammonium Carbamate Synthesis
02:45 pm-03:00 pm	OP/PP-8	Kranthi C	Synthesis of Indoloquinolines via Pictet-Spengler reaction using p-TSA
03:00 pm-03:15 pm	Quiz		

## Session-3 (Chairperson: Dr. Dasari Sai Hemant Kumar)

03:15 pm-03:30 pm	OP/PP-9	Karishma Bomdo naik	Structure-Based Rational Engineering of Aldolases for the Enantiodivergent Synthesis of (R)- and (S)-Heteroaryl Aldols
03:30 pm-03:45 pm	OP/PP-10	Avinash Kumar	Annulation of 2-Pyrrolyl Anilines with Internal Alkynols
03:45 pm-04:00 pm	OP/PP-11	Parvathy M Unnikrishnan	Fabricating MOF-GO Composites by Modulating Graphene Oxide Content to Achieve Superprotonic Conductivity
04:00 pm-04:40 pm	Faculty Lecture-2	Prof. K. Muralidharan	My journey from main group molecules to materials

04:40 pm-05:30 pm	Tea-Break and Poster session		
<b>Session-4</b> (Chairperson: P Rajya Lakshmi)			
<b>Dedicated to Prof. Aswini Kumar Nangia's 65<sup>th</sup> Birthday</b>			
05:30 pm-06:10 pm	Alumnus Lecture-1	Prof. Naba Kamal Nath NIT, Meghalaya	Organic Molecular Crystals: From Fragile to Functional
06:10 pm-07:30 pm	Felicitation		
07:30 pm onwards	Dinner		

### Day 2: 15<sup>th</sup> Feb, 2025

#### Session-5

 (Chairperson: Arunava Dutta)

09:20 am-10:00 am	Industry Alumni Lecture	Dr. TV S K Vital Chief Scientific Officer, Matrix Pharma	Perspective Opportunities in Indian Pharma
10:00 am-11:00 am	Tea-Break and Poster session		
11:00 am-11:15 am	OP/PP-12	Anjali Jaiswal	Divergent Synthesis of Different $\beta$ -Ketoaldehyde Derivatives from Ynones
11:15 am-11:30 am	OP/PP-13	Vengadeshwar -an P	Pt(II)-Based Organometallic Complexes with Tunable Emission Properties
11:30 am-11:45 am	OP/PP-14	Prachuritha B	Low Band Gap $\pi$ -conjugated Porous Polymers: Photoelectrocatalytic Performance in Oxygen Evolution Reaction
11:45 am-12:00 pm	OP/PP-15	Dr. Babiola Annes	<i>tert</i> -Butyl Nitrite (TBN) Mediated Acid-free Direct Nitration of Carbazoles
12:00 pm-12:30 pm	Video		
12:30 pm-02:00 pm	Lunch		

#### Session-6

 (Chairperson: Ithu Sanyasi Rao)

02:00 pm-02:40 pm	Academic Alumni Lecture	Dr. Chepuri V. Ramana, CSIR NCL, Pune	Gold-Catalysis in Total Synthesis
02:40 pm-03:00 pm	Interaction with Sai Life Sciences		
03:00 pm-03:15 pm	OP/PP-16	Priyanka Andola	Inhibitor design strategy for Type I, Type II and Type III PIPKs
03:15 pm-03:30 pm	OP/PP-17	Kondala Rao Koneti	Reagent-Controlled Hydroxylation and Formylation of Inert C(sp <sup>3</sup> )-H Bonds

#### Session-7

 (Chairperson: Gunjan Ramteke)

#### Dedicated to Prof. T. P. Radhakrishnan's 65<sup>th</sup> Birthday

03:30 pm-04:10 pm	Alumnus Lecture-2	Prof. Abhijit Patra IISER Bhopal	Organic Nanoporous Materials for Energy and Environmental Sustainability
04:10 pm-05:40 pm	Felicitation		
05:40 pm onwards	<b>Prize distribution</b>  <b>Vote of thanks</b> by <b>Prof. P. Ramu Sridhar</b>  <b>Followed by Dinner</b>		

## List of Poster Presenters

PP. No	Name	Research Group	Title
PP-18	Lakshmi Priya S	SKD	A Unique Vapor-Liquid Interface Reaction Leading to the Isolation of {Mo <sub>36</sub> } Polyoxometalate Cluster and its Proton Conductivity Studies
PP-19	Sneha Latha D	YSR	Development of New Synthetic Methods for Tetrasubstituted Allenes and their Cyclization /Rearrangement Reactions
PP-20	Gangajala K	VB	Design and Application of Organotelluroxane Macrocyclic in Electrocatalytic HER
PP-21	Sourav Jana	TJ	Ferrocene polyethylene glycidyl grafted hydroxyl-terminated polybutadiene, a new burn rate catalyst
PP-22	Reema L. Borkar	MS	Self-assembly and anticancer activity studies of dinuclear rhenium organometallic supramolecules
PP-23	Arun D	YSR	A Modular Approach to Access C2-Aryl-Azacycles From $\alpha$ -imino ketones Under the Calcium Catalyst
PP-24	Jayadev Pal & Group	M.Sc.	Molecular magnets "Insights into SMMs and SMTs"
PP-25	Avijit Maity	AKS	Regioselective Hydroarylation and Aryl oxy-fluorination of Ynamide
PP-26	Yuvasree S	RN	Amberlyst-15 Mediated Unprecedented Oxidation: Tunability of Diarylmethanols to Ketones or Ethers
PP-27	Sravani Gundumalla	PRS	Stereoselective Synthesis of 3-Oxo-2-C-branched Glycosides from 2,3-Unsaturated Sugars <i>via</i> [3,3]-Sigmatropic Rearrangement
PP-28	Akhil Gorre	TJ	Polymeric Ionic Liquid Cross-linked with Polybenzimidazole as PEM
PP-28	Dr. Niladri Sarkar	TPR	Visible light induced enhanced electrical conductivity in polypyrrole-silver nanocomposite thin film
PP-29	Pramod Velpula	VB	Silver- $\pi$ Interactions for assembling Hybrid material: A Novel Approach for Enhanced Electrocatalytic Nitrate reduction to Ammonia
PP-30	Rameshwari Allepuram	SKD	Efficient Photocatalytic H <sub>2</sub> Evolution Driven by Internal Electric Field Induced by Rational Design of ZnIn <sub>2</sub> S <sub>4</sub> /CoNiP hetero-structured photocatalyst
PP-31	Ganesh Boggarapu	LGP	Evaluating the ability of <i>in silico</i> identified hit compounds to inhibit <i>Staphylococcus aureus</i> Lcp <sub>SA</sub> using steered molecular dynamics simulations
PP-32	Nikita Mahajan	TPR	Tuning the fluorescence emission of DADQ based molecular solids by dielectric environment variation

PP-33	Swandhana V S	VB	Self- Assembled Ln(III) <sub>4</sub> Phosphinate Square Grids (Ln= Er, Dy and Tb):A class of Lanthanide Clusters exhibiting SMM/ SMT Behavior
PP-34	Onkar Nath das & Group	M.Sc.	“ESCAPE KINETICS OF PASSIVE AND ACTIVE BROWNIAN PARTICLES”
PP-35	Madhu Rana	AN	Enhancing Drug Delivery of Sparfloxacin Through Multicomponent Cocrystals and Sodium Taurocholate Additive
PP-36	Dr. Kanagaraj R	MS	Design Strategy for Fluorine-Assisted Ouroboros-Shaped Noncovalent Molecular Dimer
PP-37	Satarupa Roy & Group	M.Sc.	Luminescent MOF-based sensing for bioimaging and bioanalysis
PP-38	Smruthirekha Padhi & Group	M.Sc.	Triazoles: A Versatile Scaffold in Modern Chemistry and Applications
PP-39	Miswar Yousuf T & Group	M.Sc.	The Role of the Electron Sponge in the Cycling Stability of Zn-Based Redox Flow Batteries