

CHEMFEST- 2022

Venue: Dr. Zakir Husain UPE Lecture Hall Complex
University of Hyderabad
22-23 April 2022

CHEMFEST Program and Schedule	
22 nd April, 2022 (Friday)	
1:30 - 2:00 PM	Registration
2:00 - 2:15 PM	Inauguration Welcome remarks by Dean, SoC Opening remarks by VC, UoH
Session - 1: Time 2:15 - 3:15 PM Chairperson: Prof. T. P. Radhakrishnan	
2:15 - 3:15 PM	Distinguished Alumnus Lecture Dr. B. L. V. Prasad , FASc, FRSC Director, Centre for Nano and Soft Matter Sciences, Bengaluru 562162 Scientist, Physical/Materials Chemistry Division, National Chemical Laboratory (CSIR-NCL), Pune 411008
Session - 2: Time 3:15 - 4:30 PM Chairperson: Dr. N. Kishore Babu (ACRHEM)	
OP-1 » 3:15 - 3:30 PM	Benzoate class of food preservatives convert native proteins to amorphous aggregates Halavath Ramesh and Abani K. Bhuyan*
OP-2 » 3:30 - 3:45 PM	Molecular Designer: A Novel Recurrent Neural Network (RNN)-Based Algorithm to Design Potential Druglikeness Molecules Srinivasarao Mande , K.V. Jovan Jose*
OP-3 » 3:45 - 4:00 PM	Nano-blackberries of {W ₇₂ Fe ₃₃ } and {Mo ₇₂ Fe ₃₀ }: Electrocatalytic Water Reduction Hema Kumari Kolli and Samar K. Das*
OP-4 » 4:00 - 4:15 PM	Parts-per-Million-Level, Catalytic [3+2]-Annulations for the Asymmetric Synthesis of Methanobenzo[7]annulenes Etikala Ashok , and Dhevalapally B. Ramachary*

OP-5 » 4:15 - 4:30 PM	Self-Assembly of Organometallic Helicates Upasana Phukon , Bhaskaran Shankar, M. Sathiyendiran*
Tea Break - 4:30 - 4:45 PM	
Session - 3: Time 4:45 - 6:30 PM Chairperson: Dr. Bala Subramani	
OP-6 » 4:45 - 5:00 PM	Tuning the electrochemical and catalytic ORR performance of C60 by its encapsulation in ZIF-8: a solid-state analogue of dilute fullerene solution Olivia Basu and Samar K. Das*
OP-7 » 5:00 - 5:15 PM	Metal-free Cycloisomerization of Indole-tethered propargyl alcohol to carbazole Tabassum Khan , Srinivasarao Yaragorla*
OP-8 » 5:15 - 5:30 PM	<i>fac</i> -Re(CO) ₃ -based Supramolecular Coordination Complexes Soumya K.R. , R. Arumugam, B. Shankar, M. Sathiyendiran*
OP-9 » 5:30 - 5:45 PM	Room-Temperature Treatment with Thioacetamide Yielding Blue- and Green-Emitting CsPbX ₃ Perovskite Nanocrystals with Enhanced Photoluminescence Efficiency and Stability Rajesh Kumar Gautam , Somnath Das, and Prof. Anunay Samanta*
OP-10 » 5:45 - 6:00 PM	Photoionization spectroscopy of acetaldehyde : A multi-state and multi-mode quantum dynamics study Vadala Jhansi Rani , Arun Kumar Kanakati and Susanta Mahaptra*
OP-11 » 6:00 - 6:15 PM	Rhenium Tricarbonyl Core-Based Supramolecular Metallocavitands Mamina Bhol , Bhaskaran Shankar, M. Sathiyendiran*
OP-12 » 6:15 - 6:30 PM	Catalytic Olefination of Aldehydes Using Propiolates Rina Manwar and Rengarajan Balamurugan*

Session - 4: Time 6:30 - 8:00 PM	
Chairperson: Dr. Malleshan Godumala	
OP-13 » 6:30 - 6:45 PM	Organocatalytic Asymmetric Synthesis of Biologically Important Functionally Rich 2,3-Diazaspiro[4.5]deca-3,6-dien-1-ones and 3-Aryllawsones A.Vamshi Krishna , and Dhevalapally B. Ramachary*
OP-14 » 6:45 - 7:00 PM	Micromanufacturing of geometrically- and dimensionally-precise molecular single-crystal photonic micro-resonators via focused ion beam milling Vuppu Vinay Pradeep and Rajadurai Chandrasekar*
OP-15 » 7:00 - 7:15 PM	B(III)subchlorins and reduced (2.1.1)triphyrins stabilized through introduction of electron withdrawing substituents: Synthesis, characterization and photophysical studies Ishfaq Ahmad Bhat , Prof. Pradeepta K Panda*
OP-16 » 7:15 - 7:30 PM	Study of mass and thermal transport in non-equilibrium environment Archana G.R and Debashis Barik*
OP-17 » 7:30 - 7:45 PM	Ring-Expansion Reactions of Epoxy Amides and Enamides: Formation of Azetidines, Dihydrofurans, Diazocanes, or Dioxo-3-azabicyclonone-4-enes? Suraj and K. C. Kumara Swamy*
OP-18 » 7:45 - 8:00 PM	Clustering of aliphatic alcohols Mujahid Hossain and Abani K Bhuyan*
Dinner - 8:00 PM onwards	
23rd April, 2022 (Saturday)	
Session - 5: Time 9:00 - 10:30 AM	
Chairperson: Dr. Akanksha Sharma	
OP-19 » 9:00 - 9:15 AM	Investigations on the reactivity of phosphonate based proligands towards 3d and main group-based metal ions Tokala Navaneetha , and Viswanathan Baskar*

OP-20 » 9:15 - 9:30 AM	Ligand Enabled Double Functionalization of Inert β -C(sp ³)-H Bonds Arghadip Ghosh and A. K. Sahoo*
OP-21 » 9:30 - 9:45 AM	Breaching the Perovskite Red Wall: Phase-Stable and Highly Luminescent Red/NIR-Emitting All-Inorganic and Hybrid Perovskite Nanocrystals Somnath Das and Anunay Samanta*
OP-22 » 9:45 - 10:00 AM	Agent-based hybrid discrete continuum approach to study spread of infectious disease and tumorigenesis on 2D lattice Hafijur Rahaman and Debashis Barik*
OP-23 » 10:00 - 10:15 AM	Metal-free annulations/cycloaddition reactions of acetoxy allenates Asif Ali Qureshi and K. C. Kumara Swamy*
OP-24 » 10:15 - 10:30 AM	Dynamic States of ATP and inhibitor bound receptor tyrosine kinase to explore open and closed states G.K.R.S.Naresh , Lalitha Guruprasad*
Session - 6: Time 10:30 - 11:15 AM Chairperson: Prof. R. Balamurugan	
FL-01 » 10:30 - 11:15 AM	Faculty Lecture - 1 Metal-Catalyzed/Metal-Free Approaches to the Synthesis of Indole Alkaloids R. Nagarajan
TEA BREAK - 11:15 - 11:30 AM	
Session - 7: Time 11:30 - 1:30 PM Chairperson: Nilanjan Mukherjee	
OP-25 » 11:30 - 11:45 AM	New Annulations of δ -Acetoxy Allenates with Thioamides Leading to Dihydrothiophene, Thiopyran, and Thiazole Scaffolds Shabbir Ahmed Khan , A. Sanjeeva Kumar, and K. C. Kumara Swamy*
OP-26 » 11:45 - 12:00 PM	Organic Spiral waveguides for Photonic Circuit Applications Avulu Vinod Kumar , and Rajadurai Chandrasekar*

OP-27 » 12:00 - 12:15 PM	Glucose bis(cyclic carbonates) for the development of Environmentally Benign Non-isocyanate Polyhydroxyurethanes Mithun Chakraborty and Tushar Jana*
OP-28 » 12:15 - 12:30 PM	Base Dependent Regiodivergent Synthesis of Functionalized Cyclopentenones from Easily Accessible Diethyl (E)-4-Oxohept-2-enedioate Vemula Arunkumar , Shanmugam Sakthivel, N. Ramana and Rengarajan Balamurugan*
OP-29 » 12:30 - 12:45 PM	Effect of Electric Field on Protein Conformation Noorul Huda , Abani K Bhuyan*
OP-30 » 12:45 - 1:00 PM	Optimal control of the excited mediated tautomerization of the 4(3H)-pyrimidinone/4-hydroxypyrimidine system Nitai Giri , Susanta Mahapatra*
OP-31 » 1:00 - 1:15 PM	Chiral and non-Chiral additive engineering in MAPbBr ₃ single crystals for tunable high order harmonics Sarvani Jowhar Khanam , Murali Banavoth*
OP-32 » 1:15 - 1:30 PM	Selective Mitochondrial Imaging and Anticancer activity of Barakacins P. P. Sathiesh Kumar, Anwita Mudiraj , R. Rahul, Deepak Babu, P. Prakash Babu* and R. Nagarajan*
LUNCH & POSTER SESSION – 1:30 - 3:00 PM	
Session - 8: Time 3:00 - 4:15 PM Chairperson: Narasimhulu Gujju	
OP-33 » 3:00 - 3:15 PM	Total synthesis of alkaloids Aspastipulines and Portulacatone P. Latha and R. Nagarajan*
OP-34 » 3:15 - 3:30 PM	Metal Chalcogenides: Synthesis and Application Anju Joseph , Srinivas Billakanti, Manzoor Ahmad Pandit, SajminaKhatun, Aravind Kumar Rengan, and Krishnamurthi Muralidharan*
OP-35 » 3:30 - 3:45 PM	Phase-Stable and Near-Non-blinking CsPbI ₃ Nanocrystals Sumanta Paul and Anunay Samanta*

OP-36 » 3:45 - 4:00 PM	Efficient Synthesis of Hexenuloses and a library of Disaccharides possessing 3-oxo-glycal unit Intzar Ali and Perali Ramu Sridhar*
OP-37 » 4:00 - 4:15 PM	Understanding The Photo detachment Spectroscopy Of Carbon Doped Anionic Boron Cluster, Cb9- And Pure Boron Cluster, B17-: A Theoretical Study Daradi Baishya and Susanta Mahapatra*
Session - 9: Time 4:15 - 5:00 PM Chairperson: Prof. R. Chandrasekar	
FL-02 » 4:15 - 5:00 PM	Faculty Lecture - 2 New Developments and Applications of Machine Learning Methods in Chemistry Dr. K.V. Jovan Jose
TEA BREAK - 5:00 - 5:15 PM	
Session - 10: Time 5:15 - 6:45 PM Chairperson: Pritam Roy	
OP-38 » 5:15 - 5:30 PM	Supramolecular Coordination Cages with Multiple Cavitannds Moon Kedia , M. Sathiyendiran*
OP-39 » 5:30 - 5:45 PM	Lewis Acid catalyzed [3+2] Cycloaddition of 3-oxo-1,2-cyclopropanated glycals and indoles: <i>en route</i> to the synthesis of indole bridged oxepane scaffolds M V Kamala Lakshmi and Perali Ramu Sridhar*
OP-40 » 5:45 - 6:00 PM	Molecular Dynamics Simulation Studies to Control Hygroscopicity of Caffeine using Coformers Shyam S , Manju Sharma*
OP-41 » 6:00 - 6:15 PM	Biodegradable and biocompatible Polyhydroxyurethanes: Synthesis, Self-assembly and its application B. Prasannatha , Tushar Jana*
OP-42 » 6:15 - 6:30 PM	Exploring Reaction Mechanism via Feature Vector Force Reaction Coordinate through minimum Energy (FFoRCE) Praveen Dudam , K. V. Jovan Jose*
OP-43 » 6:30 - 6:45 PM	A Novel Synthesis of MIL 53 (Al)@SiO ₂ to Remove Bisphenol A from Wastewater Aditi Chatterjee , Amiya K. Jana, Jayanta K. Basu*

Session - 11: Time 6:45 - 7:30 PM
Chairperson: Dr. BVRS Subramanyam

6:45 - 7:30 PM

Interaction
Prize distribution
Vote of Thanks
Concluding Remarks

Tea & Snacks

