

ChemFest-2021, “Chemistry Beyond Challenges” (SoC, UoH)

ChemFest-2021 “Chemistry Beyond Challenges” (SoC, UoH)
Venue: MSc Class Room, Annex Building, SoC, UoH (19-20 March 2021)

Program and Schedule

19th March, 2021 (Friday)

2:00 – 2:15 pm

Inaugural Session
Welcome Remarks by Dean
School of Chemistry
Opening Remarks by Guest, UoH/other

Session-1 (2:20- 4:00 pm), Chairperson: Athira Ravi

OP-1 (2:20- 2:40 pm)

Dr. S. Rehana Anjum (Prof. D. B. Ramachary Lab)
[4+2] cycloaddition reaction to access interesting tetrahydro-carbazoles scaffolds

OP-2 (2:40- 3:00 pm)

M.K. Chaitanya Mannava (Prof. Ashwini Nangia group)
Impact of Fluorobenzoic acids as cofomers on BCS class 4 drug Naftopidil to improve the solubility, and permeability

OP-3 (3:00- 3:20 pm)

Soutrick Das (Dr. Debashis Barik’s Lab)
Investigation of stochasticity in generalized biochemical reaction networks

OP-4 (3:20- 3:40 pm)

Mr. Jada Ravi (Prof. R. Chandrasekar Lab)
Mechanically Reconfigurable Organic Photonic Integrated Circuits Made from Two Electronically Different Flexible Microcrystals

OP-5 (3:40- 4:00 pm)

D. Santi Swarupini (Prof. Abani K. Bhuyan’s lab)
Negative Thermal Expansion of an Intrinsically Disordered Protein

Session-2 (4:05- 5:25 pm), Chairperson: Pritam Roy

OP-6 (4:05- 4:25 pm)

Jayakrushna Sahoo (SM Research Group)
Topography of potential energy surface and the fate of products

OP-7 (4:25- 4:45 pm)

Gujju Narsimhulu (Prof. V. Baskar Research group)
Tellurium Macrocycles, telluronium salts stabilized by Weakly coordinating anions and organotellurium halides.

OP-8 (4:45- 5:05 pm)

A Kalyani (Prof K C Kumara Swamy Lab)
Transition Metal Catalyzed Cycloadditions/ Cyclizations of Allenes

OP-9 (5:05- 5:25 pm)

Dr Aparna Ganguly (Royal Society of Chemistry, India)
Royal Society of Chemistry

Working Tea Break

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Session-3 (5:30- 7:50 pm), Chairperson: Archana G R

OP-10 (5:30- 5:50 pm)	Suman Mondal (Prof. V. Baskar's Lab) A One-Pot Synthesis of Zinc-Schiff Base Clusters
OP-11 (5:50- 6:10 pm)	Durgam Laxman (Prof. Lalitha Guruprasad lab) 3-Dimensional structural stability and drug design on Zika virus protein targets using computational studies
OP-12 (6:10- 6:30 pm)	Saradmoni Mondal (M J S Research group) Unravelling the effect of macromolecular crowding on the structure and carbohydrate binding of phloem exudate lectin
OP-13 (6:30- 6:50 pm)	Dr. Mallesh Beesu (Prof. Goverdhan Mehta's Lab) Base promoted novel organic transformations with o-halo ynones: Simple and efficient methods to constructs the poly-functional quinolines, isoquinolines, indazoles and spiroprazolones
OP-14 (6:50- 7:10 pm)	P. Rajesh (YSR-GROUP) Calcium-Catalyzed Regioselective Annulation Reaction for the Synthesis of Fluorenopyrans
OP-15 (7:10- 7:30 pm)	Ravi Ketavath (SPRL Group) Metal-Free Carbazole Scaffold Dyes as Potential Nonlinear Optical Phores: Molecular Engineering
OP-16 (7:30- 7:50 pm)	Prachi Pandey (Prof. M. Durga Prasad research group) Nonadiabatic dynamics(NAD) in full mode butatriene cation using Time-Dependent MultiReference Coupled-Cluster Method(TDMRCCM)

Dinner (08:00 pm onwards)

20th March, 2021 (Saturday)

Session-4 (9:00- 11:00 am), Chairperson: Archana G R

OP-17 (9:00- 9:20 am)	Manish Kumar Bommaka (Prof. Ashwini Nangia group) Entacapone Polymorphs: Crystal Structures, Dissolution, Permeability and Stability Analysis
OP-18 (9:20- 9:40 am)	Anupam Dey (Lab of Debashis Barik) Topology of Network Motifs Dictate the Robustness in Cell-fate Decisions
OP-19 (9:40- 10:00 am)	Kirthi Joshi (Prof. Abani K Bhuyan Lab) NMR and Optical Spectroscopic Studies of binary and ternary aqueous systems containing glycerol as a component
OP-20 (10:00- 10:20 am)	Akram Hussain (Prof. D. B. Ramachary Lab) Synthesis of Chiral Dihydropyrans and Dihydrofurans through Organocatalytic Reductive Coupling
OP-21 (10:20- 10:40 am)	Kinche. Shakunthala (Prof. Samudranil Pal Lab) Thiopseudourea ligated nickel(II) complexes: syntheses, characterization and applications

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OP-22 (10:40- 11:00 am)	Jyotsna Bania (Prof. PKP Research Group) A Panchromatic Porphyrin-BODIPY Conjugate for DSC Application
Session-5 (11:05 am- 1:05 pm), Chairperson: S. K. Choudhury	
OP-23 (11:05- 11:25 am)	Manash Protim Gogoi (The Sahoo Research Group) Atom Economic <i>syn</i> -difunctionalizations of Ynamides
OP-24 (11:25- 11:45 am)	Sk Alim (Prof. Musti J. Swamy’s Group) Major proteins from donkey seminal plasma, DSP-1 exhibits membrane binding specificity and chaperone-like activity
OP-25 (11:45 am- 12:05 pm)	Maaged Abdullah (Prof. Lalitha Guruprasad Lab) Identification of 3D motifs based on sequences and structures for binding to CFI-400945, and deep screening based design of new lead molecules for PLK-4.
OP-26 (12:05- 12:25 pm)	Ravindar Chinapaka (Prof. M. J. Swamy lab) Physicochemical Characterization of Isomeric Aminobutyric acid Amphiphiles. Interaction Studies with DPPC and SDS Amphiphiles.
OP-27 (12:25- 12:45 pm)	Pritam Roy (Prof. D. B. Ramachary Lab) One-Pot Knoevenagel and [4 + 2] Cycloaddition as a Platform for Calliviminones
OP-28 (12:45- 1:05 pm)	Kolimi Sayyad Basha (Prof. R. Balamurugan’s Research Lab) Triflic acid promoted palladium-catalysed regioselective hydroarylation of propiolic acid with aryl boronic acids: An expedient access to α -aryl acrylic acids
Lunch (1:15- 1:50 pm)	
Session-6 (2:00- 4:00 pm) Chairperson: Anu Bovas	
OP-29 (2:00- 2:20 pm)	Sipra Sucharita Sahoo (Prof. P. K. Panda Lab) Novel Core-Modified Pentaphyrin
OP-30 (2:20- 2:40 pm)	Sameeta Sahoo (Prof. P. K. Panda Lab) Unravelling the potential of β, β' -fused porphycene as a ligand
OP-31 (2:40- 3:00 pm)	Shubham Debnath (Prof. K. C. Kumara Swamy Lab) Complex Reactivity of δ - and β' -Acetoxy Allenolates with 2-Sulfonamidoindoles mediated by PPh_3 and DBU
OP-32 (3:00- 3:20 pm)	Anjaneyulu Bandi (Prof. P. Ramu Sridhar Research Group) Stereoselective total synthesis of all the stereoisomers of (+)- and (-)-Febriofugine and Halofuginone.
OP-33 (3:20- 3:40 pm)	Anupam Das (Prof. Tushar Jana lab) Proton Exchange Membrane of Polybenzimidazole Loaded with porous MOF & POP

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OP-34 (3:40- 4:00 pm)	Shubham Dutta (Prof. Akhila K. Sahoo Lab) Alkyne vs Ynamide in Radical Cyclization and Umpolung difunctionalization of Ynamide
Tea Break	
Session-7 (4:10- 5:30 pm) Chairperson: Arunava Sutta	
OP-35 (4:10- 4:30 pm)	Gorachand Badaraita (Ramachary Research Group) An Organocatalytic Azide-Carbonyl [3+2]-cycloaddition: High-yielding Chemoselective Synthesis of 1,4,5-Trisubstituted 1,2,3-Triazoles
OP-36 (4:30- 4:50 pm)	Nilanjan Mukherjee (Prof. Tushar Jana Lab) Hydrophilic block copolymer <i>grafted</i> silica nanoparticles: A designer nanofiller
OP-37 (4:50- 5:10 pm)	Vangara Srinivas (Prof. A. K. Sahoo Research Lab) Polynitro Aryl –Azole(pyrazole/imidazole) Derivatives: Synthesis, Characterization and Energetic Properties
OP-38 (5:10- 5:30 pm)	Harish Kumar Keerthi (Dr. Balaka Barkakaty ACRHEM) Design and Synthesis of a novel Fluoro-Nitro High EnergeticPlasticizer
Session-8 (5:35- 6:15 pm), Chairperson: Manash P. Gogoi	
5:35- 6:15 pm	Interaction with alumni, Prize distribution/ Vote of thanks, Concluding ceremony/ Video (Diversity)
High Tea	