

OCS – 2022

Department of Chemistry, Indian Institute of Technology Kanpur

PROGRAM SCHEDULE

Day - 1 (April 02, 2022 @ Outreach Auditorium)

09:00 AM – 09:05 AM	Opening Remarks by Convener Prof. Dattatraya Dethe
09:05 AM – 09:15 AM	Address by the Director Prof. Abhay Karandikar
09:15 AM – 09:20 AM	Address by Head of the Department Prof. J. K. Bera
Session – I	
Chair: Prof. H. Ila	
09:20 AM – 09:45 AM (L - 1)	Speaker: Prof. Santosh Gharpure Title: Reactions of alkynes for the synthesis of oxa- and aza-cycles
09:45 AM – 10:10 AM (L - 2)	Speaker: Prof. Nitin Patil Title: Development and Application of ChetPhos, A New Chiral Hemilabile P,N-Ligand for Enantioselective Redox Gold Catalysis
Chair: Prof. K. R. Prabhu	
10:10 AM – 10:35 AM (L - 3)	Speaker: Prof. R. G. Bhat Title: Direct and Selective C-S/C-H/C-O Bond Formation /Cleavage via Photoredox Catalysis
10:35 AM – 11:00 AM (L - 4)	Speaker: Dr. Rambabu Chegondi Title: Enantioselective Desymmetrization of Prochiral Cyclohexa dienones
11:00 PM – 11:30 PM (Tea Break)	
Session – II	
Chair: Dr. Bhanu Manjunath	
11:30 AM – 11:55 AM (L - 5)	Speaker: Prof. S. G. Srivatsan Title: Probing chemical space tolerance of DNA polymerases in real time and 3D
11:55 AM – 12:20 PM (L - 6)	Speaker: Prof. Surajit Sinha Title: Toward the Synthesis of Morpholino Oligonucleotides for the Development of DMD Drug
Chair: Prof. R. Gurunath	
12:20 PM – 12:45 PM (L - 7)	Speaker: Prof. K. Sivapriya Title: Small Molecules: The Magic Bullets to Unravel the Mystery of Cancer Signalling
12:45 PM – 01.10 PM (L - 8)	Speaker: Prof. D. Allimuthu Title: <i>In Situ</i> Lactonization Facilitates the Anti-Staphylococcal Activity of 2-Bromomethyl-3-nitrobenzoate Esters

1:10 PM – 2.30 PM (Lunch Break)	
Session – III	
Chair: Prof. Ganesh Pandey	
2:30 PM – 2:55 PM (L - 9)	Speaker: Prof. Alakesh Bisai Title: Total Syntheses of Bioactive Natural Products via a Key Nature Inspired Dehydrogenative Strategies
2:55 PM – 3:20 PM (L - 10)	Speaker: Prof. Rajib Goswami Title: Total Synthesis of Bioactive Natural Products: Carolacton and Alveolaride C
3:20 PM – 3:45 PM (L - 11)	Speaker: Prof. R. Vijaya Anand Title: Synthesis of Carbocycles and Related Natural Products from Suitably Modified <i>p</i> -Quinone Methides
3:45 PM – 4.15 PM (Tea Break)	
Session – IV (Chair: Prof. J. S. Yadav)	
4:15 PM – 4.45 PM	Special Evening Lecture by Prof. Goverdhan Mehta Title: Chemistry – A Central Science for the Sustainability of People and the Planet
Session – V (Chair: Prof. Vinod K. Singh)	
5.00 PM– 6:30 PM Special Session	Reminiscence
Dinner: 7.30 PM onwards	

Day - 2 (April 03, 2022 @ Outreach Auditorium)

Session – VI	
Chair: Prof. S. Baskaran	
9:00 AM – 9:25AM (L - 12)	Speaker: Prof. Akhila Sahoo Title: Cationic-Palladium Catalyzed Regio- and Stereoselective Dicarbofunctionalization of Unsymmetrical Alkynes
9:25 AM – 9:50 AM (L - 13)	Speaker: Prof. A. T. Biju Title: N-Heterocyclic Carbene (NHC)-Catalyzed Synthesis of C-N and N-N Axially Chiral Molecules
Chair: Prof. Manas Ghorai	
9:50 AM – 10:15 AM (L - 14)	Speaker: Prof. P. C. Ravikumar Title: Functionalization of Inert Bonds for the Synthesis of Functionalized Heterocycles and Useful Organic Scaffolds
10:15 AM – 10:40 AM (L - 15)	Speaker: Prof. Suman De Sarkar Title: Construction and Cleavage of Heterocyclic Scaffolds by

	Electrolysis
10:40 AM – 11:10 AM (Tea Break)	
Session – VII	
Chair: Prof. G. Sekar	
11:10 AM – 11:35 PM (L - 16)	Speaker: Prof. Ravi P. Singh Title: New Endeavours in Asymmetric Vinylogous Reactions: Towards Functionally Rich Synthons
11:35 PM – 12:00 PM (L - 17)	Speaker: Prof. Chandrakumar A. Title: Organocatalytic Methodologies for the Asymmetric Synthesis of Cyclohexane Derivatives
Chair: Prof. Akhila Sahoo	
12:00 PM – 12:25 PM (L - 18)	Speaker: Prof. Amit Kumar Title: Decoding the Chemistry of Primary Amide/Imidates for Functionalization Reactions
12:25 PM – 12:50 PM (L - 19)	Speaker: Prof. Srinivas Dharavath Title: Synthesis of New Green High Energy Density Materials with Fine-tuned Properties
1:00 PM (Lunch)	

Note: L = 20 + 5 mins