

# OCS – 2024

Department of Chemistry, Indian Institute of Technology Kanpur

## PROGRAM SCHEDULE

### Day - 1 (September 08, 2024 @ Outreach Auditorium)

09:00 AM – 09:05 AM	Opening Remarks by Convener Prof. Dattatraya Dethe
09:05 AM – 09:15 AM	Address by Head of the Department
09:15 AM – 09:20 AM	Address by the Director
<b>Session – I (Chair: Prof. M. L. N. Rao)</b>	
09:20 AM – 09:40 AM (L - 1)	Speaker: Prof. Santosh Gharpure Title: Catalyst NO bar for turning <i>O/N</i> -tethered alkynes: NO-heterocycles are impossible!
09:45 AM – 10:05 AM (L - 2)	Speaker: Dr. Ch. Raji Reddy Title: Dearomatic Annulations to Spiro-/Fused- Polycyclic <i>aza</i> Heterocycles
10:10 AM – 10:30 AM (L - 3)	Speaker: Prof. Alakesh Bisai Title: Total Syntheses of Taiwaniadducts via Bio-Inspired Strategy
<b>10:35 PM – 11.20 PM (Tea Break)</b>	
<b>Session – II (Chair: Prof. Vibha Tandon)</b>	
11:20 PM – 11:40 AM (L - 4)	Speaker: Prof. Jyotirmayee Dash Title: Peptidomimetic Synthetic Channels Modulate Cancer Cell Functions
11:45 AM – 12:05 PM (L - 5)	Speaker: Prof. Monika Raj Title: Chemical Tools for Biological Discoveries
12:10 PM – 12:30 PM (L - 6)	Speaker: Prof. Vishal Rai Title: Organic chemistry with proteins: <i>complexity to simplicity</i>
12:35 PM – 12:55 PM (L - 7)	Speaker: Prof. Dimpy Kalia Title: Baylis Hillman orchestrated protein aminothiols labelling (BHoPAL)
<b>1:00 PM – 2.30 PM (Lunch Break)</b>	
<b>Session – III (Chair: Prof. T. Punniyamurthy)</b>	
2:30 PM – 2:50 PM (L - 8)	Speaker: Prof. Santanu Mukherjee Title: Breaking Symmetry: Development & Application to Complex Targets
2:55 PM – 3:15 PM (L - 9)	Speaker: Prof. S. S. V. Ramasastry Title: The Discovery and the Development of an Interrupted Corey-Chaykovsky Reaction
3:20 PM – 3:40 PM (L - 10)	Speaker: Prof. P. Anabarasani Title: Ligand Substitution Controlled Stereodivergent Functionalization of C-H bonds with Cyclopropenes
<b>3:45 PM – 4.15 PM (Tea Break)</b>	
<b>Session – IV (Chair: Prof. Manas Ghorai)</b>	
4:15 PM – 4:35 PM (L - 11)	Speaker: Prof. D. B. Ramachary Title: Constructing Chiral Molecules <i>via</i> Low-loading Organocatalysis
4:40 PM – 5:00 PM (L - 12)	Speaker: Prof. Prasanta Ghorai Title: Bifunctional Organocatalytic Michael Additions as the Key Strategy: Enantioselective Synthesis of Fused and Spirocyclic Organic Molecules
5:05 PM – 5:25 PM (L - 13)	Speaker: Prof. Parthasarathi Subramanian Title: A Collective Total Synthesis of Antimalarial Aculeatin A, B, D, E, F, and Their Oxo-analogues

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<b>Day - 2 (Sept. 09, 2022 @ Outreach Auditorium)</b>	
<b>Session – V (Chair: Prof. K. Kaliappan)</b>	
9:00 AM – 9:20 AM (L - 14)	Speaker: Dr. D. S. Reddy Title: <b>Total Synthesis and Stereo-structural Activity Relationships (S-SARs) Towards Lead Identification</b>
9:25 AM – 9:45 AM (L - 15)	Speaker: Prof. Ravi P. Singh Title: <b>Atropselective Synthesis of Biaryls: From Kinetic Resolution to Asymmetric Aza-Nucleophilic Cyclization</b>
9:50 AM – 10:10 AM (L - 16)	Speaker: Prof. Rajesh Viswanathan Title: <b>Biomimetic Synthesis of Medicinal Agents Based on Microbes &amp; Plants</b>
10:15 AM – 10:35 AM (L - 17)	Speaker: Dr. Nilanjana Majumdar Title: <b>Unactivated Carboxylic Acids in Catalytic Asymmetric Ring Opening Reactions</b>
<b>10:40 AM – 12:00 noon (Poster session and Tea Break)</b>	
<b>Session – VI (Chair: Dr. Saravanan Parthasarathy)</b>	
12:00 noon – 12:20 PM (L - 18)	Speaker: Dr. Rakeshwar Bandichhor Title: <b>Strategies for Synthesis of Eribulin Related Substances: A Stereochemical Insight</b>
12:25 PM – 12:45 PM (L - 19)	Speaker: Dr. Swapnil Yerande Title: <b>Crafting the Chiral Dance of RATM in the Inpyrfluxam fungicide Symphony</b>
12:50 PM – 1:10 PM (L - 20)	Speaker: Dr. Ramakrishna Vallinayagam Title: <b>Crop Protection Discovery Overview and Academia – Industry Collaboration</b>
<b>1:15 pm to 3.00 pm (Lunch)</b>	
<b>Session – VII ‘Transformative Research Agenda for Indian Institutions’ Chair. Prof. S. Chandrasekaran</b>	
3:00 PM – 3:25 PM (SL - 1)	Speaker: Prof. Ashutosh Sharma Title: <b>Science, Technology &amp; Innovation in the New Millennium: the Brave New World</b>
3.30 PM – 3:55 PM (SL - 2)	Speaker: Prof. Manindra Agrawal Title: <b>Translational Research: How It Helps Academic Institutions</b>
<b>4:00 PM – 4.30 PM (Tea Break)</b>	
<b>Special Session: Felicitation Function of Prof. Vinod Singh</b>	
4:30 PM onwards	<b>Coordinator: Prof. V. Chandrasekar</b>
<b>Dinner: 7.30 PM onwards</b>	