



International Conference on Catalysis (IC²-2024)

March 11-13, 2024, IACS Kolkata



Program Schedule

Day - 1: March 11, 2024



Registration (8:30 - 9:30)



Welcome address and Inaugural speech (9:35 - 9:50)

Session-1, Chair: Prof. Vinod K. Singh, IIT Kanpur

L-01 (09:50-10:20)	Prof. Andy A. Thomas, Texas A&M University <i>Reimagining Ancient Reactions for the 21st Century</i>
L-02 (10:20-10:50)	Prof. Ranjan Jana, IICB Kolkata <i>Molecular Diversity via Switchable 1,2-Shift in C-H Activation Cascade</i>



Tea/Coffee Break (10:50-11:05)

Session-2, Chair: Prof. Abhishek Dey, IACS Kolkata

L-03 (11:05-11:35)	Prof. Suman De Sarkar, IISER Kolkata <i>Regulating Chemoselectivity through Photo- and Electrolysis</i>
L-04 (11:35-12:05)	Prof. Amit Majumdar, IACS Kolkata <i>Transition Metal Complexes of Hydrosulfide and Polychalcogenides</i>
L-05 (12:05-12:35)	Prof. Ravi P Singh, IIT Delhi <i>Asymmetric Desymmetrization via Vinylogous Michael/Domino Annulation Reaction</i>
L-06 (12:35-13:05)	Prof. David C. Powers, Texas A&M University <i>Traceless Activation Strategies for Nitrene Transfer Chemistry</i>



Lunch Break (13:05-14:15) and Group Photo

Session-3, Chair: Prof. Sundargopal Ghosh, IIT Madras

L-07 (14:15-14:45)	Prof. Achintesh Narayan Biswas, NIT Sikkim <i>A bidirectional molecular copper(II) catalyst for oxygen reduction and water oxidation</i>
L-08 (14:45-15:15)	Prof. Debabrata Maiti, IIT Bombay <i>Unlocking New Chemical Space via Selective Catalysis</i>
L-09 (15:15-15:45)	Dr. Bhaskar Mondal, IIT Mandi <i>Electronic Structure and Reactivity Correlation of Metal-Bound Nitrenes</i>
L-10 (15:45-16:15)	Prof. Seung Hwan Cho, POSTECH, Pohang <i>Design, Synthesis, and Application of New Organoboron Reagents</i>



Tea/Coffee Break and Poster Session (16:15-18:30)



Banquet Dinner & Interaction (19:00 onwards)

Day - 2: March 12, 2024

Session-4, Chair: Prof. Partha Sarathi Mukherjee, IISc Bangalore

L-11 (9:50-10:20)	Prof. Tapas Kumar Maji, JNCASR Bangalore <i>Developing Photocatalyst by Post-Synthetic Modification of Metal-Organic Frameworks</i>
L-12 (10:20-10:50)	Prof. Shabana Khan, IISER Pune <i>Homoleptic Cerium Amide as an Efficient Catalyst for Hydroboration</i>
L-13 (10:50-11:20)	Prof. Modhu Sudan Maji, IIT KGP <i>Cp*Co(III) & Cp*Rh(III)-Catalyzed C–H Bond Functionalization of Ketones and Amides</i>



Tea/Coffee Break (11:20-11:40)

Session-5, Chair: Prof. Swadhin Mandal, IISER Kolkata

L-14 (11:40-12:10)	Prof. Ajay Venugopal, IISER Thiruvananthapuram <i>Sb and Bi Lewis Acids: Access to Reactive Cations and Implications in Homogeneous Catalysis</i>
L-15 (12:10-12:40)	Dr. Garima Jindal, IISc Bangalore <i>Ligand enabled Rh catalyst modification: Implications in reactivity</i>
L-16 (12:40-13:10)	Prof. Vladimir Gevorgyan, University of Texas at Dallas <i>Hybrid Pd-radical Chemistry: New Mechanism, New Possibilities</i>



Lunch Break and Group Photo (13:10-14:30)

Session-6, Chair: Prof. Prasanta Kumar Das, IACS Kolkata

L-17 (14:30-15:00)	Dr. Biswarup Chakraborty, IIT Delhi <i>Unveiling the Structural and Electronic Factors behind the Electrochemical Stability of 3d-Metal Tungstates</i>
L-18 (15:00-15:30)	Dr. Debasis Das, IISc Bangalore <i>Deciphering a Membrane-Bound Hydrocarbon-Producing Metalloenzyme</i>
L-19 (15:30-16:00)	Prof. Vinh Nguyen, UNSW Sydney, Australia <i>Olefination of Carbonyl Compounds via Catalytic Isodesmic Reactions</i>



Tea/Coffee Break (16:00-16:20)

Session-7 + 8, Chairs: Prof. Jyotirmayee Dash, IACS Kolkata + Prof. Sudip Malik, IACS Kolkata

SL (16:20-17:30)	1) Ayan Mondal 2) Kanak Kanti Das 3) Nayan Banerjee 4) Amar Sain 5) Satyajit Roy 6) Subhankar Sutradhar 7) Subal Mondal 8) Swapnamoy Ganguly 9) Chandralekha Hajra 10) Amit Kumar Guin 11) Abhijit Nayek
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Session-9, Chair: Prof. Suhrit Ghosh, IACS Kolkata

L-20 (17:30-18:00)	Prof. Kumar Vanka, NCL Pune <i>Computational Studies into Ziegler-Natta Catalysis</i>
L-21 (18:00-18:30)	Prof. Akkattu T. Biju, IISc Bangalore <i>N-Heterocyclic Carbene-Catalyzed Synthesis of C-N, C-O and N-N Axially Chiral Molecules</i>
L-22 (18:30-19:00)	Prof. Akshai Kumar, IIT Guwahati <i>Base Metal Catalysis for Generation of Hydrogen, Fuel & Specialty Chemicals</i>



Dinner & Interaction (19:30 onwards)

Day - 3: March 13, 2024

Session-10, Chair: Prof. Samaresh Bhattacharya, Jadavpur University

L-23 (9:30-10:00)	Prof. Sanjay Batra, CSIR-Central Drug Research Institute, Lucknow <i>Serendipitous discoveries with Iodine-mediated reactions</i>
L-24 (10:00-10:30)	Prof. Sabuj Kumar Kundu, IIT Kanpur <i>Selective Functionalization using Methanol</i>
L-25 (10:30-11:00)	Prof. Arunabha Thakur, Jadavpur University <i>From Earth-Abundant Transition Metal Catalysis to Dithienylethene Based Photoswitchable Organocatalysis</i>



Tea/Coffee Break (11:00-11:20)

Session-11, Chair: Prof. Narayan Pradhan, IACS Kolkata

L-26 (11:20-11:50)	Prof. Biplab Maji, IISER Kolkata <i>Creating 3D Molecular Architecture Through Visible Light Energy Transfer-Mediated Dearomative Cycloaddition Reactions</i>
L-27 (11:50-12:20)	Prof. Ankan Paul, IACS Kolkata <i>Theoretical Investigations on the Mechanistic aspects of Solar N₂ to NH₃ conversion on doped Gold Clusters</i>

Session-12, Chair: Prof. Somdatta Ghosh Dey, IACS Kolkata

L-28 (12:20-12:55)	Prof. Rafal Kowalczyk, Wroclaw University of Science and Technology, Poland <i>Hydrogen Bonding Unleashed: Precision in Catalysis and Reaction Site Control</i>
L-29 (12:55-13:15)	Prof. Subhendu Roy, Saha Institute of Nuclear Physics, Kolkata <i>Understanding the Mechanism of O₂ Activation in a Binuclear Iron Metalloenzyme using Multiscale Simulations</i>
L-30 (13:15-13:35)	Dr. Subhasish Roy, BITS-Pilani K K Birla Goa Campus <i>Bio-inspired Supramolecular Amino Acids-based Catalytic Hydrogels</i>



Prize distribution ceremony (13:35-13:45)



Lunch and Depart (13:45 onwards)

