

PROGRAM SCHEDULE 60th ACC 2023

DAY 1: Wednesday, 20th December 2023 | New Delhi

08.00 am - 10.00 am | Registration

Venue: Lecture Hall Complex (LH 121)

10.00 am – 11.30 am | Inauguration of Event

Felicitation of Lifetime Achievement Awards

Prof. Arun D. Sawant, FICS
Former Vice Chancellor
Rajasthan University

Prof. Sanjib Bagchi, FICS
Formerly Presidency University

Professor Dr. Mihir Kanti Chaudhuri
Chief Advisor
Royal Global University

11.30 am - 12.00 noon | Tea Break

Lecture Hall Complex (LH 121)

12.00 noon – 13.00 pm – Plenary Lecture 1: Prof. MM Sharma

Title: *The Exciting and Enriching World of Chemistry*

13.00 pm – 14.00 pm | Lunch Break & Poster Session

TECHNICAL SESSIONS: 1-5

Venue	LH 308: Technical Session 1	LH 310: Technical Session 2	LH 316: Technical Session 3	LH 318: Technical Session 4	LH 416: Technical Session 5
Scientist In Charge	Prof. Akhilesh K Verma	Prof. Pradeep K Sharma	Prof. Vimal Chandra Srivastava Prof. A D Sawant	Prof. Siva Umopathy	Prof. V. K. Rathod Prof. B. M. Bhanage
Section	Organic & Biochemistry	Inorganic & Material Chemistry	Analytical & Environmental Chemistry	Physical Chemistry	Chemical Engineering & Green Chemistry
Time	14.00 pm - 14.30 pm	14.00 pm - 14.30pm	14.00 pm - 14.30 pm	14.00 pm - 14.30 pm	14.00 pm - 14.30pm
Chairman	Prof. N. G. Ramesh, IITD Dr. Arindam Talukdar, IICB	Prof. K. C. Gupta, DU Prof. Firasat Hussain, DU	Dr. R. Natrajan, IICB Kolkata Dr Ashwini Kumar Ray, DU	Prof. Siddarth Pandey, IITD Prof. Rama Kant, DU	Prof. Rakesh K. Sharma, DU Prof. M. Nath, DU
Lecture	Invited Lecture 1	Invited Lecture 2	Invited Lecture 3	Invited Lecture 4	Invited Lecture 5
Speaker	K. R. Prasad IISc, Bangalore	R. Chandrasekar HCU, Hyderabad	S. Venkat Mohan CSIR-IICT Hyderabad	Soumen Ghosh IISc Bangalore	Rajendra Srivastava IIT Ropar
Title	Scope and Limitations of the Enyne Metathesis approach for the total synthesis of Strychnine	Mechanophotonics & Crystal Photonics Foundry: The Emergence of Organic Crystals as New Materials for Photonic Circuits	Circular Chemistry Inclusive Design for Sustainable Process Development	Probing Chiral Structure and Dynamics with Time-Domain Broadband Circular Dichroism Spectroscopy	Design Of Metal-Free and Low-Cost Metals Catalysts for The Sustainable and Selective Production to Chemicals and Fuels
Time	14.30 pm - 15.00 pm	14.30 pm - 15.00 pm	14.30 pm - 15.00 pm	14.30 pm - 15.00 pm	14.30 pm - 15.00 pm
Lecture	Invited Lecture 6	Invited Lecture 7	Invited Lecture 8	Invited Lecture 9	Invited Lecture 10
Speaker	Akhila K Sahoo, HCU, Hyderabad	Sayantana Paria IIT Delhi	Venkat Krishnan IIT Mandi	Sunil Kumar IIT Delhi	Ankush Biradar CSMCRI, Bhavnagar
Title	Regioselective Dicarbofunctionalization and Cyclization Diversity of Unsymmetrical Alkynes	Spectroscopic Characterization of Oxidized Cu ^{II} Complexes: Comparing the Reactivity of Cu ^{III}	Green Chemistry and Heterogeneous Catalysis to Achieve Sustainable Development Goals	Ultrafast THz Emission Spectroscopy of Thin Films	Harnessing Bio-Resources for Sustainable Materials and Chemical Towards Greener Future

		vs Ligand Oxidized Cu ^{II} Complexes			
Time	15.00 pm – 15.30 pm	15.00 pm – 15.30 pm	15.00 pm – 15.30 pm	15.00 pm – 15.30 pm	15.00 pm – 15.30 pm
Lecture	Invited Lecture 11	Invited Lecture 12	Invited Lecture 13	Endowment Lecture 1	Invited Lecture 14
Speaker	Buddhadeb Chattopadhyay CBMR, Lucknow	R. Nagarajan University of Delhi	Naiwrit Karmodak Shiv Nadar University	Urmimala Maitra IACS, Kolkata	R. K. Rana CSIR-IICT Hyderabad
Title	Catalyst Engineering Concept for Direct C–H Bond Functionalization	Stabilized Bismuth Oxides Exhibiting Superstructure and 2D-Layered Arrangement and Their Applications	Multiscale Modelling of the Stability and Catalytic Activity of Materials in Electrochemical Environment	Next-Generation Intercalation Cathodes for High-Energy-Density Li and Na-Ion Batteries	Bio-Inspired Assembly of Nanostructured Materials for Application in Catalysis and Material Science
Time	15.30 pm – 16.00 pm	15.30 pm – 16.00 pm	15.30 pm – 16.00 pm	15.30 pm – 16.00 pm	15.30 pm – 16.00 pm
Lecture	Invited Lecture 15	Invited Lecture 16	Invited Lecture 17	Invited Lecture 18	Invited Lecture 19
Speaker	Pijus Sasmal JNU Delhi	Bimlesh Lochab Shiv Nadar University	Dinabandhu Das SPS, JNU	Sobhan Sen JNU Delhi	Anjali Patel M.S.U. Baroda
Title	Metal AIEgens as Potent Antimicrobial Theranostic Agents	pH-Responsive Iron Oxide Embedded Nanodiamond Cargo: Amplified Artesunate Activity to Inhibit Cancer	Role of Halogen Atoms in The Mechanical Properties of Organic Crystals	New Family of Fluorescent Probes for Spectroscopy and Imaging of Cell-Membrane	A Sustainable Synthesis of Biofuel Additives from Biodiesel Waste Over Anchored Silicotungstates
16.00 pm - 16.30 pm Tea Break					
TECHNICAL SESSIONS: 6-10					
Venue	LH 308: Technical Session 6	LH 310: Technical Session 7	LH 316: Technical Session 8	LH 318: Technical Session 9	LH 416: Technical Session 10
Scientist In Charge	Prof. Akhilesh K Verma	Prof. Pradeep K Sharma	Prof. Vimal Chandra Srivastava Prof. A. D. Sawant	Prof. Siva Umamathy	Prof. V. K. Rathod Prof. B. M. Bhanage
Section	Organic & Biochemistry	Inorganic & Material Chemistry	Analytical & Environmental Chemistry	Physical Chemistry	Chemical Engineering & Green Chemistry
Time	16.30 pm – 17:00 pm	16.00 pm – 16:30 pm	16.00 pm – 16:30 pm	16.00 pm – 16:30 pm	16.00 pm – 16:30 pm
Chairman	Prof. S. Kukreti, DU Prof. S. K. Awasthi, DU	R. Chandrasekar, HCU, Hyderabad Prof. S. Uma, DU	Prof. S. Venkat Mohan, IICT Hyderabad Prof. V. C. Srivastava, IIT Roorkee	Prof. Hemant Kashyap, IITD Prof. I. Roy, DU	Indu Bhusan Deb IICB Kolkata Anjali Patel, M.S.U. Baroda
Lecture	Invited Lecture-20	Endowment Lecture-2	Invited Lecture-21	Endowment Lecture-3	Endowment Lecture-4
Speaker	Jyotirmayee Dash IACS, Kolkata	Rajeev Gupta University of Delhi	B. Sridhar CSIR-IICT Hyderabad	Siddharth Pandey IIT Delhi	B. M. Bhanage ICT Mumbai
Title	Bioorthogonal Synthesis Using Nucleic Acid Templates	Light! Air! & Water! – Visible-Light Mediated Photocatalysis	Cocrystals And Cocrystal Polymorphs of Deferiprone – an Anti-Thalassemia Drug	Unraveling Solvation within Deep Eutectic Solvents via Intramolecular Aggregation Induced Emission	Carbonylation: A Surrogate Chemistry Approach

Time	17.00 pm – 17:30 pm	17.00 pm – 17:30 pm	17.00 pm – 17:30 pm	17.00 pm – 17:30 pm	17.00 pm – 17:30 pm
Lecture	Invited Lecture-22	Endowment Lecture-5	Invited Lecture-23	Endowment Lecture-6	Endowment Lecture-7
Speaker	P. V. Bharatam NIPER Mohali	Kulamani Parida Siksha 'O' Anusandhan	Kuo-Wei Huang KAUST, Saudi Arabia	B. Sundaram JNCASR, Bangalore	N. R. Shiju University of Amsterdam
Title	1,1-Diaminoazines as Organocatalysts in Michael Addition Reaction	MXene: Strategic Photocatalytic Materials for Solar to Chemicals	Fueling the Future	Addressing Chemical Complexity through Molecular Simulations	Towards The Development of Sustainable Processes: The Case Stories of
18:30 pm ICS Annual General Body Meeting (AGM)					
19:00 pm onwards Dinner					
DAY 2: 21st December 2023 New Delhi					
08.30 am - 09.30 am Registration					
Venue: Lecture Hall Complex (LH 108)					
Presidential Lecture: 09.30 am – 10.10: Prof. G.D. Yadav					
Title: Increasing Farmer's Income and Achieving Sustainability Through Valorisation of Agri- and Food Waste					
Elsevier Award: 10:10 am-10:20 am					
Venue: Lecture Hall Complex (LH 108)					
Plenary Lecture 2: 10.20 am – 11.00: Prof. Lakshmi Kantam					
Title: Development of Efficient Catalysts for Sustainable Chemical Industry					
11.30 am - 12.00 am Tea Break					
TECHNICAL SESSIONS 11-15					
Venue	LH 308: Technical Session 11	LH 310: Technical Session 12	LH 316: Technical Session 13	LH 318: Technical Session 14	LH 416: Technical Session 15
Scientist In Charge	Prof. Akhilesh K Verma	Prof. Pradeep K Sharma	Prof. Vimal Chandra Srivastava Prof. A D Sawant	Prof. Siva Umamathy	Prof. V. K. Rathod Prof. B. M. Bhanage
Section	Organic & Biochemistry	Inorganic & Material Chemistry	Analytical & Environmental Chemistry	Physical Chemistry	Chemical Engineering & Green Chemistry
Time	11.30 pm - 12.00 pm	11.30 pm - 12.00 pm	11.30 pm - 12.00 pm	11.30 pm - 12.00 pm	11.30 pm - 12.00 pm
Chairman	Prof. Vibha Tandon, IICB, Kolk Buddhadeb Chattopadhyay CBMR, Lucknow	Prof. Rajeev Gupta, DU Moumita Majumdar IISER, Pune	Prof. Venkat Krishnan, IIT Mandi Prof. R. S. Sharma, DU	Prof. Siva Umamathy Dr. Sanchita Sil, DEBEL DRDO, Bangalore	Prof. Wajahat Shah, KU Prof. S. Singh, DU
Lecture	Invited Lecture 24	Invited Lecture 25	Invited Lecture 26	Invited Lecture 27	Invited Lecture 28
Speaker	T. Punniyamurthy, IIT, Guwahati	Samar K. Das UCH, Hyderabad	Paulraj Rajamani JNU	Biswajit Pal University of Kolkata	P. R. Gogate ICT Mumbai
Title	Exploration of Strained Ring Systems for the Construction of	Mo- and W-Bronzes for Sustainable Energy	Mesoporous Silica-CDs Hybrid: An Efficient Adsorbent for the Selective Extraction of	Studies on Premicelle and Micelle Mediated Oxidative Degradation of Different	Process Intensification of Chemical Processing Applications Using

	Medicinally Important Heterocycles		Fe 3+, Ni + and Methoxy-DDT from Industrial Effluent and River Water	Classes of Amino Acids by Gold(III) Complexes	Cavitational Reactors: Design, Scale Up and Applications
Time	12.00 pm - 12.30 pm	12.00 pm - 12.30 pm	12.00 pm - 12.30 pm	12.00 pm - 12.30 pm	12.00 pm - 12.30 pm
Lecture	Invited Lecture-29	Invited Lecture-30	Invited Lecture-31	Invited Lecture-32	Invited Lecture-33
Speaker	Arindam Talukdar CSIR-IICB Kolkata	Sasanka Deka University of Delhi	R. Natrajan CSIR-IICB Kolkata	Veerabhadra Rao Kaliginedi IISc Bangalore	Amol M Hengne Singapore
Title	Activity Guided Rational Design, Synthesis and Lead Optimization of Purine Based Dual Toll-Like Receptor 7 and 9 Antagonist Against Psoriasis	Nanoarchitectonics of Non-Precious Metal-Based Electrocatalysts for High Throughput Overall Water Splitting Reaction	Cofacial Organic Click Cages	Probing and Tuning the Chemical Reactions at a Single Molecular Level	Multifunctional Catalysis for CO ₂ Hydrogenation to Fuels and Chemicals
Time	12.30 pm - 13.00 pm	12.30 pm - 13.00 pm	12.30 pm - 13.00 pm	12.30 pm - 13.00 pm	12.30 pm - 13.00 pm
Lecture	Invited Lecture-34	Invited Lecture-35	Invited Lecture-36	Invited Lecture-37	Invited Lecture-38
Speaker	P. C. Ravikumar NISER, Bhubaneswar	Jayvant L Gunjekar D Y Patil Education Society, Kolhapur	Atinderpal Singh Delhi University	B. Sivaraman PRL, Ahmedabad	Anil Kumar Sinha CSIR-IIP Dehradun
Title	Weak Chelation Assisted C-H Functionalization using Cobalt Catalyst: A Sustainable Approach	Lattice-Engineered 2-Dimensional (2D) Nanohybrids for Energy and Environment Applications	Aerosols Impact: Atmospheric Chemistry to Climate Change	Laboratory Astrochemistry	Catalytic Process for Liquid Sustainable Aviation and Automotive Fuels from Lipids
13.00 pm – 14.00 pm Lunch Break & Poster Session					
TECHNICAL SESSIONS 16-20					
Venue	LH 308: Technical Session 16	LH 310: Technical Session 17	LH 316: Technical Session 18	LH 318: Technical Session 19	LH 416: Technical Session 20
Scientist In Charge	Prof. Akhilesh K Verma	Prof. Pradeep K Sharma	Prof. Vimal Chandra Srivastava Prof. A D Sawant	Prof. Siva Umamathy	Prof. V. K. Rathod Prof. B. M. Bhanage
Section	Organic & Biochemistry	Inorganic & Material Chemistry	Analytical & Environmental Chemistry	Physical Chemistry	Chemical Engineering & Green Chemistry
Time	14.00 pm - 14.30 pm	14.00 pm - 14.30 pm	14.00 pm - 14.30 pm	14.00 pm - 14.30 pm	14.00 pm - 14.30 pm
Chairman	Prof. T. Punniyamurthy, IIT G Prof. Sarla Balachandran, Gurugram University	Samar K. Das, UCH, Hyderabad Prof. Vaishali Singh, IP University	Dr. Atinderpal Singh, DU Dr. B. Sridhar, CSIR-IICT Hyderabad	Prof. Sashank Deep, IITD B. Sivaraman, PRL, Ahmedabad	Prof. P.V. Bhartam, NIPER M Prof. B.M. Bhanage, ICT Mumbai
Lecture	Invited Lecture-39	Endowment Lecture-8	Invited Lecture-40	Endowment Lecture-9	Invited Lecture-41
Speaker	Qazi Naveed CSIR-IIM, Jammu	Moumita Majumdar IISER, Pune	Balram Pani University of Delhi	Nabanita Deb IACS Kolkata	Chanchal Samanta BPCL

Title	Chemical Bonding via P(IV) Activation: Applications and Insights	Cationic Germanium Compounds: New Feats in The Field of Lewis Acid Catalysis	GIS-Based Multi-Variate Analysis of Groundwater Uranium In The Central Ganga-Yamuna Basin	Cold Chemistry: Probing Quantum Effects in Atom-Molecule Interactions At Cold Conditions	Emerging Roles of Sustainable Chemistry in Industry: How Industry-Academia Collaboration Can Propel Net Zero Future
Time	14.30 pm - 15.00 pm	14.30 pm - 15.00 pm	14.30 pm - 15.00 pm	14.30 pm - 15.00 pm	14.30 pm - 15.00 pm
Lecture	Invited Lecture-42	Endowment Lecture-10	Invited Lecture-43	Invited Lecture-44	Endowment Lecture-11
Speaker	Indu Bhusan Deb IICB Kolkata	Sukhendu Mandal IISER, Trivandrum	Kalyan Yakkala University of Delhi	Rama Kant University of Delhi	Arti Dua IIT Madras
Title	Electrochemical Synthesis and Annulations: Direct Access to Functionalized N-Heterocycles	New Advances in Atomically Precise Silver and Copper Nanoclusters	Membrane-Based Adsorbents for Monitoring Toxic Metals Ions in Polluted Waters	Semi-microscopic Theory for Long Range Electron Transfer and Current Rectification in Nanogap Molecular Devices	Molecular noise, non-stationarity, and memory in single-enzyme kinetics
Time	15.00 pm - 15.30 pm	15.00 pm - 15.30 pm	15.00 pm - 15.30 pm	15.00 pm - 15.30 pm	15.00 pm - 15.30 pm
Lecture	Invited Lecture-45	Invited Lecture-46	Invited Lecture-47	Invited Lecture-48	Invited Lecture-49
Speaker	Ramu Yadav IIT Delhi	Subrata Kundu IIT Delhi		B. Rajakumar IIT, Madras	Shubhangi Umbarkar NCL Pune
Title	Fluorinated Building Blocks: An Alternative Approach for the Synthesis of Organofluorine Compounds	Ambiphilic Carbenes: Enhancing Radical Stability, Catalytic Activity, and Enabling the Synthesis of Halo-Phosphinidenes		Temperature Dependent Kinetics of Criegee Intermediate With N-Butyraldehyde and Isobutyraldehyde	Green Catalytic Delignification Process for Microcrystalline Cellulose from Sugarcane Bagasse
Time	15.30 pm - 16.00 pm	15.00 pm - 15.30 pm		15.00 pm - 15.30 pm	
Lecture	Invited Lecture-50	Invited Lecture-51		Invited Lecture-52	Invited Lecture-53
Speaker	Rakesh K. Saunthwal IIT BHU	M. N. Roy North Bengal University	SPONSORS PRESENTATION	Nikki Kuhar IP College, DU	Neera Raghav Kurukshetra University
Title	Enantioselective Intramolecular α -Arylation of Benzylamine Derivatives	Probing Host-Guest Inclusion of a Non-Biodegradable Pollutant (HBCDD) into Cyclodextrins for Dropping Environmental Contamination through Different Contrivances duly Optimized by DFT		Understanding the stepwise unfolding of Bovine Serum Albumin Using Raman Spectroscopy	Natural polymers: Developing Orally Administered Target Specific Drug Delivery Systems
16.00 pm - 16.30 pm Tea Break					
16.30 pm - 17.30 pm Valedictory					
17:30 pm onwards High Tea					

CENTENNIAL JUBILEE CELEBRATION

