XV J-NOST 2019

Department of Chemistry, University of Delhi, Delhi-110007 (India) (October 18-October 21, 2019) Venue: Conference Centre, Opposite Department of Botany, Gate No 4 University of Delhi, Delhi 110007

Program schedule

Note: All participants are advised to upload their oral presentations in advance

(All Technical sessions will be held in Main Hall of the Conference Centre)

Day 01: Friday, 18th October, 2019

11.00 -13.00	Registration (Conference Centre)
13.00-14.00	Lunch
14.00 -14.30	Inauguration

Technical Session I: 14.30-16.30

Theme: C-H activation

Chairperson: Prof. K. P. Kaliappan, IIT Bombay and Prof. J. M. Khurana, Univ. of Delhi

14.30-14.45	OP-01	Directed, Meta-Selective C–H Functionalisation of Aryl Boronic Acid MIDA Esters Alexander Williams, Imperial College, London
14.45-15.00	OP-02	Ligand-Enabled Pd(II)-Catalyzed Iterative γ-C(sp3)-H Arylation of Free Aliphatic Acid Jayabrata Das, IIT Bombay
15.00-15.15	OP-03	Cobalt(III)□ Catalyzed Allylation of Arene C–H Bonds K. Ramachandran, IIT Madras
15.15-15.30	OP-04	An Orchestrated Unsymmetrical Annulation Episode of $C(sp^2)$ -H Bonds with Alkynes and Quinones: Access to Spiro-isoquinolones Kallol Mukherjee, University of Hyderabad
15.30-15.45	OP-05	Ru(II)/Rh(III)-Catalyzed Redox-Free C-H allylation/Alkenylation of coordinating Aromatic Acids and Arylacetamides with Alkenes Subramanian Jambu, IIT Madras
15.45-16.00	OP-06	Unique Avenues in Photocatalysis: Cu(I)- and Cu(II)-catalyzed Chlorosulfonylation of Alkenes and Alkynes Sebastian Engl, University of Regensburg
16.00-16.15	OP-07	Cu(II)–Mediated ortho-C-H Amination of Arenes: Mechanistic Analysis by Capturing Fleeting Intermediates and Theoretical Calculations Manoj Kumar, University of Delhi
16.15-16.30	OP-08	Carboxylate–Assisted Ru(II)–Catalysis for C–H Bond Functionalization Reactions Suman Dana, IIT Madras
16.30-17.00	Tea Break Venue: Dining Hall, Conference Centre	

Technical Session II: 17.00-19.00 Theme: Heterocycle Synthesis

17.00-17.15 OP-09 Transition metal-free synthesis of fused quinazolinones by oxidative cyclization of N-pyridylindoles Alankrita Garia, IIT Delhi A Cascade Synthesis of S-allyl Benzoylcarbamothioates via Mumm-type 17.15-17.30 OP-10 Rearrangement Anjali Dahiya, IIT Guwahati 17.30-17.45 Flexibility of benzylic position of ethyl arylacetates as electropilic OP-11 */nucleophilic centre* Anup Kumar Sharma, BHU, Varanasi 17.45-18.00 OP-12 The Halogen Bond: An Efficicent Tool for Electron Catalyzed C-I and C-S Bond Formation at Room Temperature Anuradha Nandy, IIT Madras Unprecedented Chemistry of Spiro-azidirine Oxindoles in Nucleophillic OP-13 18.00-18.15 Domino/Tandem Reaction Atanu Hazra, SGPGIMS Campus, Lucknow OP-14 Synthesis of Carbon-Branched Sugars Involving an Unprecedented 1,5- or 18.15-18.30 1,6-Alkyl Transposition Reaction Umamaheswara Rao Boddu, University of Hyderabad 18.30-19.00 **Guest Lecture** 19.30 Dinner Venue: Dining Hall, Conference Centre onward

Chairperson: Prof. A. K. Sahoo, Univ. of Hyderabad and Prof. D. S. Rawat Univ. of Delhi

Day 02: Saturday, 19th October, 2019 Technical Session III: 9.00-11.00 am

Theme: Heterocycle Synthesis

Chairperson: Prof. N. G. Ramesh, IIT Delhi and Dr. S. V. Rama Sastry, IISER Mohali

09.00-09.15	OP-15	Organocatalytic Asymmetric Domino Michael/Acyl Transfer Reaction Between α-Nitroketones and in situ-Generated ortho-Quinone Methides: Route to 2-(1-Arylethyl)phenols Chandan Gharui, IIT Guwahati
09.15-09.30	OP-16	Metal-Free Decarboxylative reactions of Isoxazoles Dinesh S. Barak, CSIR-CDRI Lucknow
09.30-09.45	OP-17	Transition-Metal-Free Addition Reaction for the Synthesis of 3-(amino- benzylidene/aminoalkylidene)indolin-2-one and Its Synthetic Applications Girish Singh Bisht , IISER, Pune
09.45-10.00	OP-18	Manganese-Catalyzed Homo-Coupling of Aryl Boronic Acids and Mechanistic Investigations Gurdeep Singh, IISER Mohali
10.00-10.15	OP-19	Aggregates Assemble: A Novel Class of Solid State Emissive Aroyl-S, N- Ketenacetals With Tunable Aggregation-Induced Emission Characteristics Lukas Biesen, University of Duesseldorf
10.15-10.30	OP-20	Stereoselective Synthesis of Hexahydrofuro[3,4-b]furan-4-ol and Its Dimer via Tandem Prins and Pinacol Rearrangement Dr. Namita Devi , IIT Guwahati

10.30-10.45	OP-21	Metal-Free Trifluoromethylation of Indazoles Payel Ghosh, Visva-Bharati University
10.45-11.00	OP-22	Enamides as versatile tools for the stereoselective construction of molecular complexity Philipp Kramer TU Kaiserslautern, Germany
11.00-11.45		Photo session
	Tea Break	
	Venue: Dining Hall, Conference Centre	

Technical Session IV: 11.45-13.15

Chairperson: Prof. Vibha Tandon, SCMM, JNU and Dr. Anil Mishra INMAS, DRDO

11.45-12.00	OP-23	Benzannulation of in situ generated Diazo-keto Phosphonates with alkynes under Visible-light Catalysis Promita Biswas , IACS Kolkata
12.00-12.15	OP-24	Annulation of Donor-Acceptor Cyclopropane Towards Step-Economic Synthesis of Nitrogen Heterocycles: By Metal and Metal-Free Activation Raghunath Dey, IIT Ropar
12.15-12.30	OP-25	Employing Arynes in Transition-Metal-Free Arylation and Insertion Reactions Rahul N. Gaykar, IISc Bangalore
12.30-12.45	OP-26	Exploratory Studies on the Reactivity of New Class of αα-Dihaloketones Santu Sadhukhan, IIT Madras
12.45-13.00	OP-27	Forging [3+2]-Annulation of Azaoxyallyl Cations and Thiocarbonyls for Diverse Assembly of Thiazolidin-4-ones and Scope for Late Stage Modifications via Latent Reactive Groups Vandana Jaiswal, SGPGIMS Lucknow
13.00-13.15	OP-28	RegioselectiveIntermolecularSulfur-OxygenDifunctionalization(phenoxysulfonylation)ofAlkyne:One-potConstructionof(Z)-β-phenoxyvinylsulfonesMohd Yeshab Ansari,CDRI Lucknow
13.15-16.30		Lunch and Poster Session I (poster no. 1-50) Venue: Dining Hall, Conference Centre
16.30-17.00	Tea Break Venue: Dining Hall, Conference Centre	

Technical Session V: 17.00-19.00

Theme: Metal-Catalyzed Reaction

Chairperson: Prof. Oliver Reiser, Germany and Dr. S. Mehta, DTU

17.00-17.15	OP-29	Phosphine free Manganese complex catalyzed a alkylation of Ketones and Nitriles with primary alcohols and Friedlander Quinoline Synthesis Akash Jana, IISER Kolkata
17.15-17.30	OP-30	Silver-Catalyzed Three-Component Route to Trifluoromethylated 1,2,3 Triazolines Using Aldehydes, Amines, and Trifluorodiazoethane Anuj Kumar, CSIR-CDRI, Lucknow

17.30-17.45	OP-31	Chiral Metal-Indapybox Catalysed Asymmetric Mukaiyama-Michael Reactions of α,β -Unsaturated 2-Acyl Imidazoles Arko Das , IIT Kanpur
17.45-18.00	OP-32	Fe(III)-Catalyzed Diastereoselective Friedel–Crafts Alkylation– Hemiketalization–Lactonization Cascade for the Synthesis of Polycyclic Bridged 2-Chromanol Lactones Balasaheb R. Borade, CSIR-NCL, Pune
18.00-18.15	OP-33	Enantioselective [4+2]-Annulation of Azlactones with Copper-Allenylidenes under Cooperative Catalysis: Synthesis of α-Quaternary α-Acylaminoamides Biki Ghosh , IISc, Bangalore
18.15-18.30	OP-34	An Efficient Synthesis of Aryl Nitriles, 2-Alkynylpyridines and Aryl Thiocyanates via Transition Metal Catalyzed Chemoselective [2+2+2] Cycloaddition Reactions Divya Bhatt , IIT Ropar
18.30-19.00	GL	Guest Lecture
19.30 onwards		Dinner Venue: Dining Hall, Conference Centre

Day 03: Sunday, 20th October, 2019 Technical Session VI: 9.00-11.30

Theme: Metal-Catalyzed Reaction

Chairperson: Prof. S. K. Awasthi, Univ. of Delhi and Dr. Ravi P. Singh IIT Delhi

09.00-09.15	OP-35	Synthesis of Oxindole, Indole and Cinnoline derivatives via Ir (III)- Catalyzed Carbenoid Functinalization Gongutri Borah CSIR-NEIST, Assam
09.15-09.30	OP-36	Ligand Enabled Gold-Catalyzed C(sp 2)-N Cross-Coupling Reactions of Aryl Iodides and Amines Manjur O. Akram, IISER Bhopal
09.30-09.45	OP-37	Stereospecific Copper(II)-Catalyzed Tandem Ring Opening/Oxidative Alkylation of Donor-Acceptor Cyclopropanes with Hydrazones: expeditious access to Tetrahydropyridazines Manmath Mishra, IIT Guwahati
09.45-10.00	OP-38	Copper Catalyzed Oxidative C-C bond Cleavage of 1,2-Diketones: A Direct Route to 1,8-Naphthalimides, Biphenyl-2,2'-Dicarboxamides and N- Heterocyclic Amides Priyanka R. Sakhare , IIT Bombey
10.00-10.15	OP-39	A Fe(II)-Based Metalloradical Activation Approach: Overriding Traditional Click Chemistry Towards Denitrogenative Annulation Satyajit Roy, CBMR, Lucknow
10.15-10.30	OP-40	Substituent-Guided Palladium-Ene Reaction for the Synthesis of Carbazoles and Cyclopenta[b]indoles Sonu Yadav, IISER Mohali
10.30-10.45	OP-41	Metal-Catalyzed [2 + 2 + 2] Dehydrogenative Cross-Coupling: Direct Access to Fulvene & Quinone fused Benzene Soumyadip Hore, IIT Delhi

10.45-11.00	OP-42	Design and Synthesis of Peptide Based Organocatalysts for Asymmetric Michael Addition Reactions Vinita Yadav, NCL Pune
11.00-11.15	OP-43	Enantio- and diastereoselective approach to substituted tetrahydropyrroloquinolines from 2-imonochalcone by Michael addition Tousif , SCMM, JNU, Delhi
11.15-11.30	OP-44	Organocatalytic Asymmetric Formal [3+2] Cycloaddition as a Versatile Platform to Access Methanobenzo[7]annulenes Mohd Anif Pasha, University of Hyderabad
11.30-13.00		Tea Break + Poster Session (PP no. 51 onwards)
		Venue: Conference Centre
13.00-13.45		Lunch
	Venue: Dining Hall, Conference Centre	

Technical Session VII: 13.45-15.15 pm

Theme: Natural product

Chairperson: Dr. Rakesh Parashar, Univ. of Delhi and Dr. Nidhi Jain, IIT Delhi

13.45-14.00	OP-45	Asymmetric Syntheses of Paraconic Acids: Application to the Total Syntheses of Bioactive Chiral Natural Products Abhijeet M. Sarkale, IIT Gandhinagar
14.00-14.15	OP-46	Tandem IBX-Promoted Primary Alcohol Oxidation/Opening of Intermediate Diolcarbonate Aldehydes to (E) - γ -Hydroxy- α , β -enals Anupama Kumari , IIT Bombay
14.15-14.30	OP-47	Addition of 3-Sulfonyl Phthalide to p-Quinone methides; a Facile Route Towards the Synthesis of Indenofurans, Benzofurans and Spiro-lactones Arindam Maity, IISER, Bhopal
14.30-14.45	OP-48	One-Pot Synthesis of Cyclopropane-Fused Cyclic Amidines: An Oxidative Carbanion Cyclization Nazar Hussain, IIIM, Jammu
14.45-15.00	OP-49	Total synthesis guided stereochemical revision of peribysin family natural products Paresh Athawale, NCL Pune
15.00-15.15	OP-50	Atom Economical Cycloadditions and Cross-Coupling Reactions" Andrew Dalling, University of Bristol, UK
15.15-15.45	Tea Break Venue: Dining Hall, Conference Centre	

Technical Session VIII: 15.45-18.00

Theme: Biochemistry

Chairperson: Prof. S. Kukreti, Univ. of Delhi and Prof. Suman Kundu, Delhi University

15.45-16.00	OP-51	Pyranone Derived Fluorescent Dyes for Biomedical Applications Jagriti Singh, CSIR-CDRI, Lucknow
16.00-16.15	OP-52	Synthesis and studies of tripodal arylazoisoxazole based systems Pravesh Kumar , IISER Mohali

OP-53	Nucleic acid inspired supramolecular hydrogels
	Tanima Bhattacharyya, IACS Kolkata
OP-54	Exfoliating a Cd II–Purine Framework: Conversion of Nanosheets-to- Nanofibers and Studies of Elastic and Capacitive Properties Ilesha Avasthi, IIT Kanpur
OP-55	Eosin Y as a Hydrogen Atom Transfer Photocatalyst for the Construction of 1,2,4-Dithiazolidines from β –Ketothioamides at Room Temperature Monish A. Ansari , BHU, Varanasi
OP-56	Application of Reductive Aminases in Biocatalytic Cascade Synthesis Jeremy Ramsden, University of Manchester, UK
OP-57	Identification, optimization and evaluation of IPCS inhibitors as new anti- leishmanials" Courtney Covington, Durham University, UK
OP-58	Antiparasitic activity of hydroxyethylamine analogs: Synthesis, biological activity of plasmepsins inhibitors Snigdha Singh, University of Delhi
GL	Guest Lecture
Cultural programme	
Special Dinner Venue: Department of Chemistry	
	OP-54 OP-55 OP-56 OP-57 OP-58

Day 04: Monday, 21st October, 2019 Technical Session IX: 9.00-11.00 am

Theme: Miscellaneous

Chairperson: Prof. A. K. Prasad, Univ. of Delhi and Prof. M. Nath Univ. of Delhi

09.00-09.15	OP-59	Base-free Enantioselective C(1)-Ammonium Enolate Catalysis Exploiting AryloxidesCalum McLaughlin, University of St Andrews, UK
09.15-09.30	OP-60	Charge Transfer Liquid: A Stable Donor-Acceptor Interaction in Solvent- free Liquid State Vivek Chandrakant, NCL Pune
09.30-09.45	OP-61	Synthesis of Sulfonimidamides from Sulfenamides via an Unprecedented Alkoxy-amino-λ6-sulfanenitrile Intermediate Edward Briggs, Imperial College, London
09.45-10.00	OP-62	Enantioselective ketone reduction using borane catalysts Joanne Dunne, University of Edinburgh, UK
10.00-10.15	OP-63	Accessing [g]-face π -expanded fluorescent coumarins by Scholl cyclization Nitisha, IIT Madras
10.15-10.30	OP-64	Facile access to novel 3,4-fused indole motifs via Rh(III)-catalyzed C-H activation based annulations Puppala Sathish, IICT Hyderabad
10.30-10.45	OP-65	Nickel-Catalyzed Regioselective C-H Alkenylation of Indoles: Scope and Mechanistic Aspect Rahul Angadrao Jagtap, NCL Pune

10.45-11.00	OP-66	On Water: Metal-free Synthesis of Highly Functionalized Benzothiazolylidene from ortho-Haloanilines Kapil Mohan Saini, University of Delhi
11.00-11.30		Tea Break Venue: Dining Hall, Conference Centre

Technical Session X: 11.30-12.30

Theme: Miscellaneous

Chairperson: Prof. S. K. Sharma, Univ. of Delhi, Dr. R. P. Singh, DRDO				
11.30-11.45	OP-67	Metal Free C(sp3)-H Amination of Nitrosoarene and N-amination of Amine		
		using Nitrosoarenes		
		Anisha Purkait, IIT Guwahati		
11.45-12.00	OP-68	An Integrated Continuous Flow Micro-Total Ultrafast Process System (µ-TUFPS) for the Synthesis of Celecoxib and Other Cyclooxygenase Inhibitors S. Vinay Kumar, IICT Hydrabad		
12.00-12.15	OP-69	Metal-free Synthesis of Polysubstituted Pyrroles using Surfactants in Aqueous medium Amrendra Kumar, CDRI, Lucknow		
12.15-12.35		Synthesis and NMR		
12.15-12.55	Jayati Banerjee, Labindia Analytical Instruments (P) Ltd., Kolkata			
12.35-13.15	Best Poster award & SAILIFE-NOST Best Thesis Award Presentation XVI J-NOST Announcement Concluding Remarks			
13.15 onwards	Lunch and departures/ Sightseeing			