



58th Annual Convention of Chemists (ACC), Indian Chemical Society (ICS)

Organic & Bio-Chemistry Section

December 22, 2020, Wednesday

Jointly Organized by

Dept. of Chemistry, IIT Kharagpur & Dept. of Chemical Sciences, IISER Kolkata

INAUGURAL SESSION (09:00-09:30) Moderators: Samik Nanda, IIT Kharagpur / Alakesh Bisai, IISER Kolkata	
9:00-9:05	Inaugural Address by Patron, Director, IIT Kharagpur
9:05-9:10	Inaugural Address by Patron, Director, IISER Kolkata
9:10-9:15	Remark by HoD, Chemistry, IIT Kharagpur
9:15-9:20	Remark by HoD, Chemical Sciences, IISER Kolkata
9:20-9:25	Introductory Remarks by Dipakranjan Mal, IIT Kharagpur Scientist-in-Charge, Organic & Biochemistry Section
S. RANGANATHAN MEMORIAL LECTURE (09:40-10:20) Chairperson: Aparna Ganguly, RSC India	
09:40-10:20	Uday Maitra, IISc Bangalore Title: A Simple, Inexpensive and General Photo-Luminescent Sensor Platform for Multiple Analytes
SESSION 1 (10:20-11:15) Chairperson: Balaram Mukhopdhyay, IISER Kolkata	
10:20-10:50	SIL - Akhila K. Sahoo, UoH, Hyderabad Title: Cationic-Palladium Catalyzed Regio- and Stereoselective Dicarbofunctionalization of Unsymmetrical Alkynes
10:50-11:15	IL - Vandana Bhalla, GNDU, Amritsar Title: Fluorescent Supramolecular Assemblies: A search for new catalytic/photocatalytic Systems
BREAK (11:15-11:35)	
SESSION 2 (11:35-12:30) Chairperson: Namakkal G. Ramesh, IIT Delhi	
11:35-12:05	SIL - Kana M. Sureshan, IISER Thiruvananthapuram Title: Biopolymer Mimics via TAAC Polymerization

12:05-12:30	IL - Ankona Datta, TIFR Mumbai Title: Lighting up Bio-Molecules with Chemical Tools
P. K. BOSE MEMORIAL LECTURE AWARD (12:30-13:00) Chairperson: Akhilesh Verma, Delhi University	
12:30-13:00	Debabrata Maiti, IIT Bombay Title: Walking Towards Sustainable Synthetic Methods
BREAK (13:00-14:15)	
KEYNOTE LECTURE (14:15-14:55) Chairperson: Jayanta K. Ray, IIT Kharagpur	
14:15-14:55	Takashi Ooi, Nagoya University, Japan Title: Non-nucleophilic Chiral Borate Ions for Catalytic Control of Cationic Reactive Intermediates
SESSION 3 (14:55-15:50) Chairperson: Faiz A. Khan, IIT Hyderabad	
14:55-15:25	SIL - Stelios Arseniyadis, Queens Mary Univ. of London, UK Title: Untapped γ -Selective Palladium-Catalysed Asymmetric Allylic Alkylation of Siloxyfurans: Expedient entry into <i>O</i> -Terpenoidal Natural Products
15:25-15:50	IL - Rajarshi Samanta, IIT Kharagpur Title: Migratory Insertion of Quinoid Carbene: Useful Tool for Step-Economic Construction of Azaheterocycles
BREAK (15:50-16:10)	
PLENARY LECTURE (16:10-16:50) Chairperson: G. Sekar, IIT Madras	
16:10-16:50	Geraldine Masson, CNRS Research Director, France Title: Asymmetric Difunctionalization of Enamides via Hydrogen Bond Catalysis
SESSION 4 (16:50-18:10) Chairperson: Ajay Jha, ACS India	
16:50-17:20	SIL - Nicholas Blanchard, CNRS Research Director, France Title: Diels-Alder Cascades for the Synthesis of Fused <i>N</i> -Heterocycles
17:20-17:45	IL - Akkattu T. Biju, IISc Bangalore Title: <i>N</i> -Heterocyclic Carbene (NHC)-Catalyzed Synthesis of C-N Axially Chiral <i>N</i> -Aryl Succinimides and <i>N</i> -Aryl Maleimides

17:45- 18:10	IL - Budhhadeb Chattopadhyay, CBMR Lucknow Title: Metalloradical Activation for Denitrogenative Annulation
BREAK (18:10-18:30)	
KEYNOTE LECTURE (18:30-19:10) Chairperson: Subhajit Bandyopadhyay, IISER Kolkata	
18:30 - 19:10	Tobias Ritter, Max-Planck-Institut für Kohlenforschung, Mülheim Title: Late-Stage Functionalizations
FLASH PRESENTATIONS (19:30 - 20:30)	



57th Annual Convention of Chemists (ACC), Indian Chemical Society (ICS)
Organic & Bio-Chemistry Section
December 23, 2020, Thursday
Jointly Organized by
Dept. of Chemistry, IIT Kharagpur & Dept. of Chemical Sciences, IISER Kolkata

PLENARY LECTURE (09:00-09:40) Chairperson: Uttam K. Tambar, UTSW, Dallas, USA	
09:00 - 09:40	Alexander Radosevich, MIT, USA Title: Catalytic Reductive O-Atom Transfer Methods via P(III)/P(V)=O Redox Cycling
SESSION 5 (09:40-11:00) Chairperson: D. S. Reddy, CSIR-IIIM Jammu	
09:40 - 10:10	SIL - Zuowei Xie, Chinese Univ. of Hong Kong, China Title: A Strategy for Selective Catalytic B-H Functionalization of <i>o</i> -Carboranes
10:10 - 10:35	IL - Rajib Goswami, IACS Kolkata Title: Asymmetric Total Synthesis of Carolacton and Alveolaride C
10:35 - 11:00	IL - Sivapriya Kirubakiran, IIT Gandhinagar Title: Tousel Like Kinase as a New Drug Target Towards Prostate Cancer Therapy
BREAK (11:00 -11:20)	
D. S. BHAKUNI PRIZE AWARD (11:20-11:50) Chairperson: Amitava Das, IISER Kolkata	
11:20 - 11:50	Sambasivarao Kotha, IIT Bombay Title: Applications of Olefin-Metathesis in Polyquinanes Synthesis
SESSION 6 (11:50-13:05) Chairperson: V. R. Pedireddy, IIT Bhubaneswar	
11:50 - 12:15	IL - Ravi. P. Singh, IIT Delhi Title: Selective C-C bond formation through Photoredox Catalysis
12:15 - 12:40	IL - Mahiuddin Baidya, IIT Madras Title: C-H Bond Activation with Ruthenium Catalysts: From Cross-Dehydrogenative Coupling to Tandem Annulations

12:40-13:05	IL - Indu Bhusan Deb, CSIR-IICB Kolkata Title: Rapid Construction and Late-Stage Functionalization of Nitrogen Containing Heterocycles
BREAK (13:05 - 14:30)	
SESSION 7 (14:30-15:25) Chairperson: Arabinda Chaudhuri, IISER Kolkata	
14:30-15:00	SIL- Manas K. Ghorai, IIT Kanpur Title: DROC and ROC of Small Ring <i>Aza</i> -Heterocycles
15:00-15:25	IL - Prasenjit Mal, NISER Bhubaneswar Title: Supramolecular Catalysis in Organic Synthesis
SESSION 8 (15:25-16:20) Chairperson: Maya Shankar Singh, BHU	
15:25-15:55	SIL - Partha Sarathi Das, IIT (ISM) Dhanbad Title: Expanding the Medicinal Chemistry Toolbox: From Method Development to Delivery of Drug Like Molecules
15:55-16:20	IL - C. Raji Reddy, CSIR-IICT Hyderabad Title: Alkyne-Assisted Annulations involving Aromatization and Dearomatization
BREAK (16:20-16:35)	
P. C. GUHA MEMORIAL LECTURE (16:35-17:15) Chairperson: T. Punniyamurthy, IIT Guwahati	
16:35-17:15	Ganesh Pandey, BHU Title: C(<i>sp</i> ²)-H & C(<i>sp</i> ³)-H Activations <i>via</i> Redox Neutral Photoredox Catalysis
SESSION 9 (17:15-18:10) Chairperson: Rakeshwar Bandichhor, Reddy's Laboratory	
17:15-17:45	SIL - C. V. Ramana, CSIR-NCL Pune Title: Total Synthesis of <i>bis</i> -THF C15 Acetogenins
17:45-18:10	IL - Suman De Sarkar, IISER Kolkata Title: Construction and Cleavage of Heterocyclic Scaffolds by Electrolysis
BREAK (18:10-18:30)	
KEYNOTE LECTURE (18:30-19:10) Chairperson: Tanmaya Pathak, IIT Kharagpur	

18:30- 19:10	K. N. Ganesh, IISER Tirupati Title: Structural control of Peptide Nucleic Acid (PNA) Rotamers: Serendipitous Fluorescence in α , β and γ - <i>gem</i> -dimethyl PNA monomers and DNA/RNA Hybridization Selectivity of PNA Oligomers
FLASH PRESENTATIONS (19:20-20:20)	



58th Annual Convention of Chemists (ACC), Indian Chemical Society (ICS)

Organic & Bio-Chemistry Section

December 24, 2020, Friday

Jointly Organized by

Dept. of Chemistry, IIT Kharagpur & Dept. of Chemical Sciences, IISER Kolkata

S. SWAMINATHAN MEMORIAL LECTURE (09:00 - 09:40) Chairperson: Brindaban C. Ranu, IACS Kolkata	
09:00 - 09:40	Amit Basak, IISER Kolkata & IIT Kharagpur Title: Antibiotic Resistance Problem: Grim Reality and the Battle
D. NASIPURI MEMORIAL AWARD LECTURE (09:40 - 10:10) Chairperson: Braja G. Bag, Vidyasagar Univ.	
09:40 - 10:10	B. V. Subba Reddy, CSIR-IICT Hyderabad Title: Enantioselective C-N, C-C, C-F and C-S functionalization of 3-oxindole-2-carboxylate frameworks
SESSION 10 (10:10-11:05) Chairperson: S. Murugesan, Madurai Kamraj Univ.	
10:10 - 10:40	SIL - Rodney A. Fernandes, IIT Bombay Title: Total Synthesis of γ -Lactone Natural Products
10:40- 11:05	IL - S. G. Srivatsan, IISER Pune Title: Chemo-enzymatic technology to visualize RNA and displaying functional small molecules on gene Targets
BREAK (11:05 – 11:25)	
SESSION 11 (11:25-12:15) Chairperson: Kamal K. Kapoor, Univ. of Jammu	
11:25- 11:50	IL - Vishal Rai, IISER Bhopal Title: Precision Engineering of Proteins Enabling Biology and Medicine
11:50- 12:15	IL - Surajit Ghosh, IIT Jodhpur Title: Aryl Substitution on the Triazine Platform Wheels the Microtubule Dynamics and Enforce Contrasting Cell Signalling Pathways

SESSION 12 (12:15-13:05) Chairperson: Dilip K. Maiti, Calcutta University	
12:15- 12:40	IL - Amit Kumar, IIT Patna Title: A Promising Synthetic Route for O-Glycosidic Bond Formation and Glycodiversification
12:40- 13:05	IL - Sugumar Venkataramani, IISER Mohali Title: Azoheteroarene Photoswitches: The Challenges, Structure-Property Relationships and Applications Prospects
AWARDS & VALEDICTORY (13:05-13:25)	
13:05- 13:10	ICS Awards for Oral Presenters – Alakesh Bisai, IISER Kolkata & Dipakranjan Mal, IIT Kharagpur
13:10- 13:15	RSC Awards for Oral & Poster Presenters – Modhu Sudan Maji, IIT Kharagpur & Aparna Ganguly, RSC
13:15- 13:20	ACS Awards for Oral & Poster Presenters – Samik Nanda, IIT Kharagpur & Deeksha Gupta, ACS
13:20- 13:25	Vote of Thanks by Co-Conveners Samik Nanda, IIT Kharagpur; Modhu Sudan Maji, IIT Kharagpur; & Alakesh Bisai, IISER Kolkata