

58th

Annual Convention of Chemists (ACC-2021) & International Conference on Recent Trends in Chemical Sciences RTCS - 2021



Date : 21st - 24th December, 2021

<https://forms.gle/mZzn12uEZTMU1b669>



Jawaharlal Nehru University



Organized by
Indian Chemical Society

92, Acharya Prafulla Chandra Road, Kolkata - 700 009

Email: icsconvention2021@gmail.com

From Convener's Desk

To
All the Fellows of the Indian Chemical Society
and Fellow Chemists of all Academic Institutes

Dear Colleagues,

This is to bring to your kind attention that 58th Annual Convention of Chemists 2021, the yearly event of the Indian Chemical Society, is being organized on December 21–24 in the virtual mode due to continuation of Covid pandemic in the country. The programme consists of Scientific Sessions in Seven different Sections and two special sessions those would be held in the Academic Institutes and Industrial houses. Seven different Sections are (i) Physical Chemistry, (ii) Organic & Biochemistry, (iii) Inorganic Chemistry, (iv) Analytical Chemistry, (v) Environmental Chemistry, (vi) Industrial & Applied Chemistry, (viii) Chemical Engineering & Green Technology; besides two Special Scientific Sessions refer to Professor Asima Chatterjee Special Scientific Session and Young Scientists Conclave.

The Society intends particularly to encourage the budding young chemists of our country by organizing special award sessions to accommodate the contributions of the young chemists. Our President is pleased to announce new Awards as will be selected by the Juries team in addition to Annual Convention Awards to young Chemists (age ≤ 35 y). Lifetime Achievement Awardees, Endowment Awardees, Senior Scientists of the country and abroad will join along with Young Scientists of the country in this Convention. Special drive has been given to encourage Women Scientists to join in the Professor Asima Chatterjee Special Scientific Session. We believe that the Convention would provide an effective platform for exchange of thoughts among the participating chemists which would generate new ideas and open up new fields of research.

We earnestly hope that chemists from our country and abroad will participate in this Convention to make it a grand success.

With regards

Yours sincerely,

Professor Chittaranjan Sinha

Honorary Secretary

Indian Chemical Society

Registration Link: <https://forms.gle/mZzn12uEZTMU1b669>

Registration Fees

For Research Scholars: Rs.800/-

For Faculty Members: Rs.1000/-

For persons from Industry & Others: Rs.2000/-

For Foreign Participants: 100 US Dollar

Deadline

Interested participants may upload their abstract on or before **December 10, 2021**

Correspondence

All correspondence in connection with the 58th Annual Convention of Chemists, 2021 may kindly be made at the icsconvention2021@gmail.com



**For Young Scientist Award
(Born on or after 01/01/1986)**

Advisory Committee

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Organising Committee

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Scientists- in-Charge (Sectional):

Physical Chemistry Section:	Prof. Kallol K Ghosh School of Studies in Chemistry Pt. Ravishankar Shukla University, Raipur
Organic & Biochemistry Section:	Prof. Dipakranjan Mal Department of Chemistry IIT Kharagpur, West Bengal
Inorganic Chemistry Section:	Inorganic Chemistry Prof. Saurabh Das Department of Chemistry Jadavpur University, Kolkata
Analytical Chemistry Section:	Analytical Chemistry Prof. Arun D Sawant Former Vice-Chancellor, University of Rajasthan
Industrial & Applied Chemistry: Section	Dr. S S V Ramakumar Director (R & D), Administrative Indian Oil Corporation Limited
Environmental Chemistry Section:	Dr. Sanjeev S Katti Director General ONGC Energy Centre, Delhi
Chemical Engineering & Green: Technology	Prof. V K Rathod Institute of Chemical Technology Mumbai



**58th Annual Convention of Chemists (ACC)
&
International Conference on
Recent Trends in Chemical Sciences (RTCS-2021)
Indian Chemical Society (ICS)**

December 21, 2021, Tuesday

Inaugural Session (09:00-11:00)	
09:30-09:40	Introducing the Program by Prof. D C Mukherjee, Advisor, ICS
09:40-10:20	Inaugural Address by Prof. G. D. Yadav, President, ICS and Release of the Book of Abstract
10:20-10:40	Felicitation to the Lifetime Achievement Awardees by the President of ICS & Response of Awardees feelings
10:40-10:55	Address by the Honorary Secretary, Indian Chemical Society, Prof. Chittaranjan Sinha
10:55-11:00	Vote of Thanks, Prof. S K Das, Honorary Treasurer, ICS
Chairperson: Prof. G. D. Yadav	
Presentation by Lifetime Achievement Awardees (11:00-12:00)	
11:00-11:30	Prof. Shridhar R Gadre, Pune Title: Molecular Tailoring Approach: an Art-of-the-Possible for Ab Initio Treatment of Large Molecular Systems
11:30-12:00	Dr. Raksh Vir Jasra, Vadodara Title: Developing Technologies through Innovative Chemistry
Endowment Award Lectures (12:00-13:30)	
Chairperson: Prof. D C Mukherjee	
12:00-12:30	Acharya P C Ray Memorial Award Lecture by Prof. Amitabha Chattopadhyay, Hyderabad
Chairperson: Prof. Ashutosh Ghosh	
12:30-13:00	Professor Priyadarajan Ray Memorial Award Lecture by Prof. Pradyut Ghosh, IACS, Kolkata
Lunch Break (13:30-14:00)	



Professor Asima Chatterjee Special Session

School of Environmental Sciences, Jawaharlal Nehru University
Dept. of Chemistry Calcutta University & Dept. of Chemistry, Shiv Nadar University

ONLINE SESSION (14:00-18:00)	
Prof. Kasturi Mukhopadhyay (Jawaharlal Nehru University) Prof. Chhanda Mukhopadhyay (University of Calcutta) Prof. Bimlesh Lochab (Shiv Nadar University)	
14:00-14:10	Welcome Speech by Prof. Chhanda Mukhopadhyay, Dept of Chemistry, University of Calcutta (Convener)
Session	
Chairperson: Prof. Rina Ghosh, Department of Chemistry, Jadavpur University	
14:10-14:25	Lifetime talk Asima Chatterjee Session Dr. Kaliprasanna Dhara, Calcutta University
14:25-14:45	Invited Lecture 1 Prof. Akhilesh Verma, Dept. of Chemistry, University of Delhi Title: Cu-Catalyzed Synthesis of Indoloisoquinolines via Intramolecular Hydroamination: Mechanistic Insight Using Online MS
14:45-15:05	Invited Lecture 2 Dr. Rakeshwar Bandichhor, Vice President and Head of Chemistry, API-PR&D, Dr. Reddy's Lab Title: Chemistry at Epicentre in Pharmaceutical Industry
15:05-15:25	Invited Lecture 3 Prof. Jyotirmayee Dash, School of Chemical Sciences, IACS, Kolkata Title: Construction of Nitrogen containing Heterocycles by Olefin Metathesis
15:25-15:45	Invited Lecture 4: Asima Chatterjee Memorial Award Prof. Bani Talapatra, University of Calcutta Title: A Tribute to My Teacher Professor (Mrs) Asima Chatterjee
BREAK (15:45 -16:00)	
16:00-16:10	Introduction to the Special Session by Prof. Bimlesh Lochab, Department of Chemistry, School of Natural Sciences, Shiv Nadar University (Convener)
Special Award Session	
Chairperson: Dr. Tulsi Mukherjee, Ex-Director, Chem Group at Bhabha Atomic Res Centre, Mumbai	
16:10-16:35	Special Invited Lecture 1: Marie Curie Memorial Award Prof. Sharmila Banerjee, Prof. (Nuclear Medicine) & Project-Director, Radiological Research Unit, ACTREC, Tata Memorial Centre. Professor, Homi Bhabha National Institute, DAE Fellow, Indian College of Nuclear Medicine Title: Evolution of Radioactivity in Nuclear Medicine – An Unending Human Quest for Betterment of Life
16:35-17:00	Special Invited Lecture 2: Rosalind Franklin Memorial Award Prof. (Former) Anju Chadha, Laboratory of Bioorganic Chemistry, Department of Biotechnology, IIT Madras. Visiting Professor in the Departments of Chemistry,

	Chemical Engineering and Biological Sciences & Bioengineering at IIT Jammu. Title: Harnessing Biocatalysts for Organic Reactions: From Whole cells to Enzymes
17:00-17:25	Special Invited Lecture 3: Kamala Sohonie Memorial Award Prof. (Retd.) Sheela K. Ramasesha, Energy and Environment Research Programme, School of Natural Sciences and Engineering, National Institute of Advanced Studies, IISc, Bengaluru Title: Scalable Ultrathin CdS/CdTe Photovoltaic Device
17:25-17:50	Special Invited Lecture 4: Rohatgi Mukherjee Memorial Award Prof. (Retd.) Samita Basu, Chemical Sciences Division, Saha Institute of Nuclear Physics, Kolkata. Title: Photoinduced Electron Transfer Reactions: Magnetic Field Effect
17:50-18:00	Concluding remarks and thank you vote by Prof. Kasturi Mukhopadhyay, School of Environmental Sciences, Jawaharlal Nehru University, New Delhi (Session-in-Charge)

Evening Talk:

Chairperson: Prof. Tapas Chakraborty

18:00-18:30	Prof. Arabinda K Das, Lifetime Achievement Awardee, 2021 Title: Teaching Green Analytical Chemistry: Methodologies for Green Laboratory Experiments
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Endowment Award Lecture:

Chairperson: Dr. Asit Das

18:30-19:00	Acharya J C Ghosh Memorial Award Lecture by Dr. Mukund S Chorghade, USA
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58th Annual Convention of Chemists (ACC)
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International Conference on
Recent Trends in Chemical Sciences (RTCS-2021)
Indian Chemical Society (ICS)
Analytical Chemistry Section

Venue:	M S University, Baroda
Scientist-in-Charge:	Prof. Arun D Sawant Former Vice-Chancellor, University of Rajasthan, Jaipur Mob: 9821734622; E-mail: arundsawant@gmail.com
Conveners:	Prof. R N Jadeja Dept. of Chemistry, M S Baroda University, Vadodara, Gujarat, Mob: 9825892070; E-Mail: rjadeja-chem@msubaroda.ac.in
	Dr. Kamalika Sen Department of Chemistry, University of Calcutta, Kolkata Mob: 9163295148, E-mail: kamalchem.roy@gmail.com

Day 2

December 22, 2021, Wednesday

Inaugural Session (10:00-10:10)	
10:00-10:10	Introductory Remarks by the Scientist-in-Charge: Prof. Arun D Sawant and Conveners: Prof. R N Jadeja and Dr. Kamalika Sen
Session I (10:10-13:30)	
Chairperson: Padmashri Dr J. P. Mittal BARC	
10:10-10:40	Endowment Award lecture 1 Professor R D Desai 80th Birthday Award Lecture 2021 Prof. Suhrit Ghosh, IACS, Kolkata Title: Chain-folding Regulated Antibacterial Polymeric Materials
Chairperson: Prof A.K.Singh, IITB, Former VC, Independent Director, RCF	
10:40-11:10	Endowment Award lecture 2 Professor J N Mukherjee Memorial Award Lecture 2021 Professor P. A. Hassan, BARC, Mumbai Title: Amphiphilic self assembly in room temperature supercooled solvents
Chairperson: Prof V.K. Jain, Director , MU-DAE CEBS, Mumbai	

11:10-11:40	Invited Talk 1 Dr. C. P. Vinod, NCL, Pune Title: Dr. X-ray Photoelectron Spectroscopy: Beyond ESCA in Catalysis
11:40-12:10	Invited Talk 2 Dr. Kalpana Maheria, SVNIT, Surat Title: Studies on Inorganic and Hybrid Ion exchangers for metals removal
12:10-12:40	Invited Talk 3 Dr. Praveen Ingole, IIT Delhi Title: Electro-catalysis Using Nanostructures for Energy and Environment related Applications
Chairperson: Prof Prakash Samnani (MSU), Prof S. Garje (MU), Prof Neelima Gupta (UoR)	
12:40-13:30	Award Papers :[(AO) x-y]
Lunch Break (13:30 – 14:30)	
Session II (14:30-19:00)	
Chairperson: Prof. Bhavana Trivedi (MSU), Prof. Mamta Lanjewar (RSTN-NU), Dr.Gayatri Barabde I.Sc.) Dr.A.Y.Desai (Ex .Khalsa College)	
14:30-15:00	Award Papers :[(AP) x-y]
Chairperson: Prof. Shyamalava Mazumdar , TIFR, Prof Anamic Shah , Ahmedabad	
15:00-15:30	Invited Talk 4 Prof Sreekantha B Jonnalagadda, University of KwaZulu-Natal Title: Advanced Oxidation processes and scope of Mixed oxides and Nanocomposites as catalysts for Water Treatment
15:30-16:00	Invited Talk 5 Prof. D. S. Rawat, Delhi University Title: Hybrid nanomaterials and its role in sustainable organic synthesis
16:00-16:30	Invited Talk 6 Prof. Anant Paradkar, University of Bradford, UK Title: Application of Spectroscopic and Vapour Sorption techniques in crystal engineering based product innovation
Chairperson: Prof.Susanta Lahiri, (Ex. Saha Institute of Nuclear Physics)	
16:30-17:00	Invited Talk 7 Dr. R. K. Singhal, BARC, Mumbai Title: New route for Actinium 225 Production used for medical application-Nuclear Knowledge
17:00-17:30	Invited Talk 8 Dr. Sudipta Chakraborty, BARC, Mumbai Title: Development of radiolabeled probes for detection and staging of cancer: Pivotal role of chemists
17:30-18:00	Invited Talk 9 Prof. A. Chatt, University of Halifax, Canada Title: Studies of total and species of arsenic by neutron activation analysis
Chairperson: Prof. Monika Datta (DU), Dr. C.K. Sethi (DU), Dr. Madhuri Sawant, Ex IITB, Dr. Sushama Ambadekar (I.Sc.)	

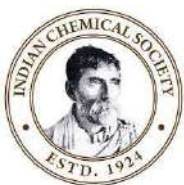
18:00-19:00	General Papers :[(OP) x-y]
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Day 3

December 23, 2021, Thursday

Inaugural Session (09:30-09:40)	
09:30-09:40	Introductory Remarks by the Scientist-in-Charge: Prof. Arun D Sawant Conveners: Prof. R N Jadeja and Dr. Kamalika Sen
Session-III (09:40-13:30)	
Chairperson: Prof. A. K. Srivastav (MU), Prof. Narayan Pradhan IACS	
09:40-10:10	Invited Talk 10 Prof. P. Padmaja, MSU, Vadodara Title: Biopolymer supported silver nanostructures as Surface Enhanced Raman Scattering (SERS) Substrates
10:10-10:40	Invited Talk 11 Prof. Alka Sharma, University of Rajasthan Title: Eco-remediation through nanomaterials
10:40-11:10	Invited Talk 12 Dr. Abhinav Kumar, Lucknow University Title: Designing Targeted Metal Organic Frameworks (MOFs) as Luminescent Sensors for Nitroaromatics and Photocatalysts for Dye Degradation
Chairperson: Dr. A. K. Tyagi, Associate Director, Chemistry group, BARC	
11:10-11:40	Invited Talk 13 Prof. V. S. Velingkar, NMIMS University, Mumbai Title: Impurities Profiling, Challenges and applications
11:40-12:10	Invited Talk 14 Shri Anil Nimkar, Naturayuva India PVT.Ltd Title: Advances in analytical instrumentation for chemical analysis
Chairperson: Prof Prakash Samnani(MSU), Prof. Pravin Jugade RSTM-NU, Dr. Sugandha Shetye (Somaiya Univ). Prof. Anand Aswar SGBM Amravati Univ.	
12:10-13:30	Award Papers :[(AP) x-y]
Lunch Break (13:30 – 14:30)	
Session-IV (14:30-18:00)	
Chairperson: Prof Jignashu Mehta (Bhavnagar University), Prof Manish Patel (SPU)	
14:30-15:00	General Papers :[(PP) x-y]
Chairperson: Dr.Tulsi Mukherje, Ex. BARC, Dr. D.V. Prabhu Ex. Dean MU , Wilson College	
15:00-15:30	Invited Talk 15 Dr. Neeraj Aggarwal, Mumbai University-DAE-CEBS Title: Role of analytical techniques in materials synthesis to applications in organic electronics
15:30-16:00	Invited Talk 16 Dr. Erik de Blois, ERASMUS, Netherlands Title: Implementation of Alpha-emitting radionuclides: Radiopharmacy aspects and measurement of Radio chemical purity
Chairperson: Dr. B.K. Deshmukh Ex Dow Chem,(USA), Prof. P. Padmaja (MSU)	

16:00-16:30	Invited Talk 17 Dr. Nandu Deorkar, USA Title: Analytical Challenges Associated with Development of Cell and Gene Therapies
16:30-17:00	Invited Talk 18 Dr. Jay Samudralwar, Syner G Pharma Consulting, USA Title: Science Based Drug Approval process(ICH)- Next Opportunities for Excellence in Manufacturing Supply Chain , and Utilization of Human Resources
17:00-17:30	Invited Talk 19 Manoj Ghaste, Nelson Laboratories, USA Title: Metabolomics-A Powerful tool to understand the Chemical Complexity in Biology
17:30-18:00	Invited Talk 20 Dr. Janardhan Madabushi, Exxon Mobil, USA Title: Process Analyzers in the Industry



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Recent Trends in Chemical Sciences (RTCS-2021)**
Indian Chemical Society (ICS)

Chemical Engineering & Green Technology

Venue:	ICT, Mumbai
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Conveners:	Prof. Bhalchandra M. Bhanage Institute of Chemical Technology, Mumbai, Mob: 9323994018, bm.bhanage@gmail.com, bm.bhanage@ictmumbai.edu.in
	Dr. Avijit Ghosh Heritage Institute of Technology, Kolkata, Mob: 9830752111, Email: avijitghosh.che@gmail.com)

Day 2
December 22, 2021, Wednesday

Inaugural Session (09:00-09:30)	
09:00-09:10	Event Joining
09:10-09:30	Inauguration Ceremony
Session I (09:30-12:30)	
Chairperson: Prof. B. M. Bhanage, ICT, Mumbai	
09:30-10:10	Professor B N Ghosh 80th Birthday Award Lecture Dr. Jhon Zhanhu Guo, The University of Tennessee Knoxville, USA Title: Multifunctional Nanocomposites
10:15-10:45	Invited Talk 1 Prof.(Dr) Vikram Yadav, Associate Professor, The University of British Columbia. Title: Green manufacturing and environmental remediation using synthetic biology
10:50-11:20	Invited Talk 2 Prof. S. Kotha,

	<p>Professor, Indian Institute Of Technology, Bombay Title: Rongalite: A Useful Green Reagent in Organic Synthesis</p>
11:25-11:55	<p>Invited Talk 3 Dr. N. Lingaiah, Principal Scientist & Co-Chair Person, CSIR-Indian Institute Of Chemical Technology. Title: Heteropoly acid catalysts for conversion of biomass to chemicals and fuel additives</p>
12:00-12:30	<p>Invited Talk 4 Dr. Shubhangi B. Umbarkar , Sr. Principal Scientist, Chair, Catalysis & Inorganic Chemistry Division, NCL, Pune. Title: Solid acid supported palladium for efficient hydrogenation under mild conditions</p>
Lunch Break (12:30 – 14:00)	
Session II (14:00-17:20)	
Chairperson: Dr. Avijit Ghosh, Heritage Institute of Technology, Kolkata	
14:00-14:30	<p>Invited Talk 5 Dr. Haresh Manyar, Senior Lecturer, Queen's University Belfast. Title: Role of emerging Chemical Technologies in sustainable manufacturing</p>
14:35-15:05	<p>Invited Talk 6 Prof. Shashank Mishra, University of Lyon 1, France Title: Molecular Engineering of Inorganic Nanomaterials for Catalytic Applications</p>
15:10-15:40	<p>Invited Talk 7 Speaker: Prof. Pascal Granger, Professor, Université Lille, France Title: Present and future challenges in ost combustion catalysis: an academic view point</p>
Chairperson: Prof. P.D. Vaidya, ICT, Mumbai - 19	
Award Category: Paper Presentation	
15:45-16:00	<p>Presenter: Dr. Subham Banerjee, <i>National Institute of Pharmaceutical Education & Research (NIPER)-Guwahati</i> Topic: A Journey from Extrusion Engineering to Pharmaceutical Green 3D Printing Technology</p>
16:00-16:15	<p>Presenter: Dr. Samreen Farooqui, Topic: Green synthesis of silver nanoparticles by <i>Saraca asoca</i> and <i>Hibiscus rosasinensis</i> and investigation for biological activity.</p>

16:15-16:30	Presenter: Mr. Rohit Chatterjee, <i>Haldia Institute of Technology, Haldia.</i> Topic: Be(II)-Pyrazole/Isooxazole Complexes; Promising Candidates for Hydrogen Storage: An in-silico study
16:30-16:45	Presenter: Mr. Amid Laxman Sadgar, <i>Institute of Chemical Technology, Mumbai</i> Topic: Pickering interfacial catalysis- A green reaction routewith multiple advantages
16:45-17:00	Presenter: Ms. Divyani Gupta, <i>Indian Institute of Technology, Ropar.</i> Topic: Electrochemical dinitrogen reduction at low temperature: A green technology for ammonia production
Award Category: Poster Presentation	
17:00-17:10	Presenter: Mr. Tapas Kumar Dutta
17:10-17:20	Presenter: Ms. Anu Bala

Day 3
December 23, 2021, Thursday

Inaugural Session (10:00-10:10)	
10:00-10:10	Introductory Remarks by the Scientist-in-Charge: Prof. Virendra K Rathod and Conveners: Prof. Bhalchandra M. Bhanage and Dr. Avijit Ghosh
Session-III (10:10-14:00)	
Chairperson: Prof. V K Rathod, ICT, Mumbai	
10:10-10:40	Invited Talk 8 Prof. B. N. Thorat, ICT, Mumbai. Title: Role of Chemical Engineer in Food and Nutrition Security.
10:45-11:15	Invited Talk 9 Prof. Ramesh Gardas, Professor, IIT, Madras. Title: Ionic liquids as being solvents for enhancing the sorption and extraction processes.
11:20-11:50	Invited Talk 10 Prof. Srinivasu Vallabhapurapu, University of South Africa. Title: Green ReRAMs for green computing
11:55-12:25	Invited Talk 11 Dr. Joongjai Panpranot, Department of Chemical Engineering, Chulalongkorn University, Bangkok, Thailand. Title: Highly stable Ni phyllosilicate catalysts for CO ₂ methanation and furfural hydrogenation
Lunch Break (12:35 – 14:00)	
Session-IV (14:00-17:35)	
Chairperson: Prof. P. R. Gogate, ICT, Mumbai	
14:00-14:30	Invited Talk 12 Prof. Shreerang Joshi, Professor, ICT, Mumbai. Title: Green manufacture of Bromhexine HCl- a mucolytic agent
14:35-15:05	Invited Talk 13 Prof. Kailas Wasewar, Professor, VNIT, Nagpure Title: Fly ash cenosphere based novel materials with promising applications
15:10-15:40	Invited Talk 14 Prof. Bishnupada Mandal, Professor, IIT, Guwahati. Title: Novel nanocomposite membrane for carbon capture and direct methanol fuel cell.
15:45-16:15	Invited Talk 15 Prof. S. P. Chaurasia, HAG Professor, NIT Jaipur Title:
Chairperson:	
Award Category: Paper Presentation	
16:15-16:30	Presenter: Prof. Niraj S. Topare, <i>MIT, Pune</i>

	Topic: An Approach for Efficient Agro-waste Modification Methods for Dye Removal
16:30-16:45	Presenter: Ms. Neha Thakur, <i>IIT Ropar</i> Topic: Nickel Iron Phosphide/Phosphate as an Oxygen Bifunctional Electrocatalyst for High-Power-Density Rechargeable Zn–Air Batteries
General Category: Paper Presentation	
16:45-17:00	Presenter: Dr. Arvind Kumar Gautam, <i>NIT, Hamirpur</i> Topic: Molecular simulation study on equilibrium and stability of tetrahedral materials in supercooled region.
17:00-17:15	Presenter: Dr. Arti Chouhan, <i>MNNIT Allahabad</i> Topic: Cu/Zn-Metal–organic framework composites for efficient daylight induced photocatalytic degradation of organic dyes
General Category: Poster Presentation	
17:15-17:25	Presenter: Ms. Suman Kumari
17:25-17:35	Presenter: Dr. Gita Rani
Vote of Thanks	



58th Annual Convention of Chemists (ACC)
&
International Conference on
Recent Trends in Chemical Sciences (RTCS-2021)
Indian Chemical Society (ICS)

Environmental Chemistry Section

Venue:	IIT Roper, Punjab
Scientist-in-Charge:	Dr. Sanjeev S. Katti Former DG, ONGC Energy Centre
Conveners:	Dr. Debaprasad Mandal IIT Roper
	Prof. Praveen Ramamurthy IISc Bangalore
	Dr. Sharad Lande Reliance Industries Ltd.

Day 2
December 22, 2021, Wednesday

Inaugural Session (09:30-09:40)	
09:30-09:35	Inaugural Address & Introductory Remarks by Dr. Debaprasad Mandal, Co-convenor, "Environmental Chemistry Section"
09:35-09:40	HoD Chemistry, IIT Roper Title: Department overview
Session I (09:50-11:50)	
Chairperson: Dr. Tharamani CN, IIT Roper	
09:50-10:30	Plenary Lecture (PL-1) Prof. Rajeev Ahuja, Director IIT Roper Title: Advanced Modelling of Materials for Clean Energy Applications: hydrogen storage materials and next-generation batteries
10:30-11:10	Plenary Lecture (PL-2) Prof. Amitava Das, IISER Kolkata Title: Molecular Assemblies and Nano-aggregates for Imaging or Theranostic Applications
11:10-11:50	Plenary Lecture (PL-3)

	<p>Prof. Sanjay Mandal, IISER Mohali Title: Smart Nanomaterials for Energy and Environment Applications</p>
Session II (11:50-13:40)	
Chairperson: Dr. Sanjib Patra, IIT KGP	
11:50-12:40	<p>Plenary Lecture (PL-4) Pradip Hosangadi, M/s Evonik Catalysts India Dr. Guillaume VINCENT, M/s Evonik Catalysts Title: Topic 1: How Excel Rejuvenation is supporting the circular economy? Mr. Nirav Shah, Evonik, Woodlands, Texas Title: Topic 2: How Evonik's technology/catalyst solutions can help refineries/re-refineries to contribute towards sustainable society/circular economy?</p>
12:40-13:15	<p>Invited Lecture (IL-1) Prof. Satish Patil, IISc Bangalore Title: Organic Solar Cells: Essential Partners on the Road to Net Zero</p>
13:15-13:50	<p>Endowment Lecture Dr. Asit Baran Panda, CSIR-NML (National Metallurgical Laboratory) Jamshedpur Title: Design and synthesis of efficient TiO₂ based catalysts for visible light induced photocatalytic reaction</p>
Lunch Break (13:50 – 14:20)	
Session-III (14:20-16:10)	
Chairperson: Dr. Sumeet Sharma General Manager (R&D) Reliance Industries Ltd.	
14:20-15:00	<p>Plenary Lecture (PL-5) Prof. Riitta Keiski, Title: Chemistry and Engineering enabling the Energy transition – The role of Catalysis in fostering Sustainability</p>
15:00-15:35	<p>Invited Lecture (IL-2) Dr. Yogendra Shastri, Chemical Engineering, IIT Bombay Title: Sustainable Valorization of Sugar Industry Waste: Green Chemistry to Sustainable Engineering</p>
15:35-16:10	<p>Invited Lecture (IL-3) Dr. Ankur Bordoloi, CSIR – Indian Institute of Petroleum, Dehradun Title: Mitigation of Green House Gases for commodity chemicals</p>
Break (16:10 – 16:20)	
Session-IV (16:20-18:15)	
Chairperson: Dr. Sharad Lande	
16:20-17:00	<p>Plenary Lecture (PL-6) Prof. Rajnish Kumar, IIT Madras</p>

	Title: Chemistry of gas hydrates and how one may use it for innovative solution
17:00-17:35	Invited Lecture (IL-4) Dr. Debabrata Patra, INST Mohali Title: Self-powered Supramolecular Assembly- A Tale of Chemical Powered Motion
17:35-18:00	Oral Lecture (OL-1) Mr. Mukesh Kumar, IIT Ropar Title: High-performance and environment benign aqueous rechargeable sodium-ion/sulfur batteries
18:00-18:15	Oral Lecture (OL-2) Ms. Amreen K. Bains, Title: Bioinspired radical-mediated transition-metal-free synthesis of N-heterocycles under visible light
Break (18:15 – 18:25)	
Session-V (18:25-19:45) Evening Session -I	
Chairperson: Dr. Subhadip Neogi, CSMCRI Bhavnagar	
18:25-18:40	Oral Lecture (OL-3) Gaje Singh, IIT Ropar Title: Persubstituted imidazolium-based alkaline anion exchange membrane for solid-state Zn-air batteries
18:40-18:55	Oral Lecture (OL-4) Mr. Ganga Singh, IIT Ropar Title: Polyoxometalates based electron transfer modulation for artificial photosynthesis
18:55-19:10	Oral Lecture (OL-5) Mr. Ribhu Maity, Mugberia Gangadhar Mahavidyalaya, Purba Medinipur Title: Photodegradation of Methylene Blue by Cu(II) complexes with NNN and NNO Schiff Base ligands under sunlight irradiation
19:10-19:25	Oral Lecture (OL-6) Title:
19:25-19:40	Oral Lecture (OL-7) Title:

Day 3

December 23, 2021, Thursday

Session-VI (09:30-11:40)	
Chairperson: Prof. Sanjay Mandal, IISER Mohali	
09:30-10:15	Plenary Lecture (PL-7) Dr. Nitin Labhsetwar, CSIR NEERI, (National Environmental Engineering Research Institute) Nagpur Title: Low-cost Materials for Cleaner Energy and Environmental Applications
10:15-10:45	Plenary Lecture (PL-8) Dr. Santanu Dasgupta, Senior Vice President (R&D), Reliance Industries Ltd. Mumbai Title: Sustainable production of food, feed, advance biomaterials and energy through Green Synthetic Biology
10:45-10:55	Invited Lecture (IL-5) Dr. Vitthal G. Gund Vice President & Head-R&D, Navin Fluorine International Limited Title: Applications of Green Technologies in Fluorine Chemistry for Sustainable Growth
10:55-11:45	Plenary Lecture (PL-9) Prof. Ashim Chowdhury Title: Advancement of Agrochemicals & Impact on Environment under present perspective
Break (11:45 – 12:25)	
Session-VII (12:25-13:50)	
Chairperson: Dr. Anupam Bandyopadhyay, IIT Ropar	
11:45-12:25	Invited Lecture (IL-6) Dr. Swapan Ghosh, Nova Surface-Care Centre Pvt. Title: Designing of Temperature Responsive Wettability by Simple Physical Blending of Polymers and Functional nano-micro fillers
12:25-13:00	Invited Lecture (IL-6) Dr. Venkat Krishnan, IIT Mandi Title: Strategic Design and Development of Nanostructured Heterogeneous Catalysts for Clean Energy and Environmental Applications
13:00-13:35	Invited Lecture (IL-7) Dr. Bama Prasad Bag, CSIR-IMMT Bhubaneswar Title: Xanthene derivatives for selective detection of Organophosphates
Lunch Break (13:35 – 13:50)	
Session-VIII(13:50-16:25)	
Chairperson: Dr. Debabrata Patra, INST Mohali	
13:50-14:30	Plenary Lecture (PL-11) Dr. Sandip Chatterjee, Scientist and Director, Ministry of Electronics and IT Title: Sustainable Environment friendly Printed Circuit Board recycling through pyro-metallurgy method

14:30-15:05	Invited Lecture (IL-8) Prof. Tapas Kumar Maji, JNCSR Bangalore Title: Coordination Driven Supramolecular Metal-Organic ‘Soft’ Hybrid Nano-catalysts
15:05-15:40	Invited Lecture (IL-9) Dr. Sanjib Patra, IIT KGP Title: Designing multifunctional arylene-vinylene terpyridyl conjugates for detection of environmentally concerned analytes
15:40-15:55	Oral Lecture (OL-8) Mr. Nilanjan Seal, CSMCRI Bhavnagar Title: Chemo-robust and bi-functional MOF with divergent open Co(II)-nodes for cooperative deacetalization-Knoevenagel condensation and mild-condition tandem CO ₂ fixation
15:55-16:10	Oral Lecture (OL-9) Mr. Subhadeep Biswas Title: Application of alginate and alginate bentonite hydrogel bead supported zero-valent iron (ZVI) catalyst for 4-nitrophenol reduction
Break (16:10 – 16:20)	
Session-IX (16:20-17:40)	
Chairperson: Dr. Debasis Adhikari, IISER Mohali	
16:20-16:35	Oral Lecture (OL-10) Shehala, University of Allahabad Title: Rapid and selective sensing of Saccharin through interference synthesis of Gum Ghatti capped Silver Nanoparticles
16:35-16:50	Oral Lecture (OL-11) Mr. Kaustav Bhattacharyya, Vidyasagar College, Kolkata Title: Optimization of Process Parameters and Kinetic Approach of Biosorption by a Cadmium(II) Resistant Strain Candida tropicalis XTA1874 for Wastewater Treatment
16:50-17:05	Oral Lecture (OL-12) Pragati Fageria, University of Rajasthan Title: Efficient photocatalytic degradation of pollutants using ZnO/Au and ZnO/Ag nanomaterials
17:05-17:20	Oral Lecture (OL-13) Vishram D. Hiremani, Karnataka University Title: Preparation and Physicochemical Assessment of Bioactive Films based on Chitosan and Starchy Powder of White Turmeric Rhizomes (Curcuma Zedoaria) for Green Packaging applications
17:20-17:35	Oral Lecture (OL-14) Sardar Singh Poonia Title: Facile Synthesis of Thiocarbamoyl Chitosan for Adsorptive Removal of Cr(VI)
Break (18:20-18:30)	
Session-X (18:20-19:25) Evening Session- II	
Chairperson:	
19:10-19:25	Oral Lecture (OL-15)

	Title:
Valedictory (18:55-19:25)	
20:25-20:35	Concluding Remarks by Dr. Sharad Lande, Reliance Industries Ltd
20:35-20:45	Vote of Thanks by Co-Convener Prof. Praveen Ramamurthy, IISc Bangalore



58th Annual Convention of Chemists (ACC)
&
International Conference on
Recent Trends in Chemical Sciences (RTCS-2021)
Indian Chemical Society (ICS)

Industrial & Applied Chemistry Section

Venue:	Indian Oil Corporation Ltd, R&D Division, Faridabad
Scientist-in-Charge:	Dr. S. S. V. Ramakumar Director (R&D and BD), Indian Oil Corporation Ltd.
Conveners:	Dr. Deepak Saxena Executive Director (Lubricant Technology), Indian Oil-R&D
	Dr. Gourisankar Roymahapatra Haldia Institute of Technology, Haldia
Local Organizing Committee Members:	Dr J. Christopher Chief General Manager (AD), Indian Oil-R&D Dr Ajay K Arora General Manager (F&A), Indian Oil-R&D Dr Ravindra Kumar Senior Research Manager, Indian Oil-R&D

Day 2
December 22, 2021, Wednesday

Inaugural Session (09:30-09:45)	
09:30-09:35	Introductory Remarks by the Convener: Dr. Deepak Saxena, Executive Director (Lubricant Technology), IndianOil-R&D
09:35-09:45	Opening Remarks by the Scientist-in-Charge: Dr. S. S. V. Ramakumar, Director (R&D and BD), Indian Oil Corporation Ltd
Session I (09:45-13:15)	
Chairperson:	
10:15-11:00	Professor D P Chakraborty 60th Birth Anniversary Commemoration Award Lecture Prof. D D Sarma, IISc., Bangalore

	Title:
11:00-11:45	Theme Lecture : Dr. A. Ramanan Indian Institute of Technology, New Delhi Title : <i>Crystallization of industrially important solid materials</i>
11:45-12:15	Invited Talk 1 Dr Yoshito Ando Kitakyushu Institute of Technology, Japan Title: Potential of cellulose usage for the performance of polyurethane
12:15-12:45	Invited Talk 2 Dr Alex C Pulikottil Indian Oil R&D Centre Faridabad Title: Role of catalyst interventions to handle challenges of future refineries in an era of energy transition
12:45-13:15	Invited Talk 3 Dr. Roberta Cipullo University of Napels, Italy Title: HTE tools and methods as applied to catalytic olefin polymerizations: recent advances
Lunch Break (13:15 – 14:00)	
Session II (14:00-18:00)	
Chairperson:	
14:00-14:30	Invited Talk 4 Dr Subhash Chandra Ghosh CSIR-CSMCRI, Bhavnagar Title: Regioselective C-H Functionalization of Arenes and Synthesis of Industrially Important Compounds
14:30-15:00	Invited Talk 5 Prof A.K. Sharma Department of Chemistry, Deenbandhu Chhotu Ram University of Science and Technology, Murthal Title: Design and characterization of carbon supported composites for applications in energy storage and waste water treatment
15:00-15:30	Invited Talk 6 Mr. K. K. Bhagchandani Laurus Infosystem Bengaluru Title: Digitization for Chemistry; what can you utilize to enable your Chemistry business?
Chairperson:	
15:30-18:00	Competitive Session - Oral / Poster Award Jury Members: Dr (Prof.) A.K. Sharma, and Dr K.K. Gupta

	Award Papers : AO-01 to AO-11 & AP-01 to AP-04 15 * 10 min = 150 min
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Day 3

December 23, 2021, Thursday

Inaugural Session (09:15-09:30)	
09:15-09:30	Introductory Remarks by Convener: Dr. Gourisankar Roymahapatra Haldia Institute of Technology, Haldia
Session-III (09:30-14:00)	
Chairperson:	
09:30-10:00	Invited Talk 7 Dr K K Pant Indian Institute of Technology, New Delhi Title: Understanding the role of nanoscale tandem catalysis for conversion of hybrid feeds (CO/CO₂) to methanol and dimethyl ether
10:00-10:30	Invited Talk 8 Dr Anjan Ray CSIR-IIP, Dehradun Title: Petrochemicals from domestic carbon resources
10:30-11:00	Invited Talk 9 Dr. Carmel Mary Esther Graphene Research Labs Pvt. Ltd and RI GROUP Title: Cost Effective Upper End Instrumentation
11:00-11:45	Professor D P Chakraborty 60th Birth Anniversary Commemoration Award Lecture Prof. D D Sarma, IISc., Bangalore Title: Properties of A_{1-x}B_xPbX₃ (A/B = MA, FA, Cs and X = I, Br, Cl)
Chairperson:	
11:45-13:10	Session – General Oral GO-1 to GO- 8 8 * 10 min = 80 min
Lunch Break (13:150 – 14:00)	
Session IV (14:00-17:00)	
Chairperson:	
14:00-14:30	Invited Talk 10 Prof. Radha Jayaram Department of Chemistry, Institute of Chemical Technology Title: Role of surfactants in clean and ‘green’ processes
14:30-15:00	Invited Talk 11 Prof. R. K. Sharma Green Chemistry Network Centre Department of Chemistry, University of Delhi Title: Green Chemistry Network Centre (GCNC): Integrating Sustainable Practices into Academia and Industries
Chairperson:	
15:00-17:00	Session – General Oral

	GO-9 to GO- 20 12 * 10 min = 120 min
17:00	Concluding Session Dir (R&D,P&BD) / (ED-LT) Vote of Thanks



58th Annual Convention of Chemists (ACC)
&
**International Conference on
Recent Trends in Chemical Sciences (RTCS-2021)**
Indian Chemical Society (ICS)

Inorganic Chemistry Section

Venue:	Department of Chemistry, IIT Guwahati
Scientist-in-Charge:	Prof. Saurabh Das Department of Chemistry, Jadavpur University. Mob: 91238 65911, E-mail: saurabh.das@jadavpuruniversity.in
Conveners:	Prof. Chandan Mukherjee Department of Chemistry, Indian Institute of Technology Guwahati, Mob: 80110 16571, E-mail: cmukherjee@iitg.ac.in
Advisor:	Prof. Samaresh Bhattacharya Department of Chemistry, Jadavpur University, Mob: 9830203354, E-mail: samaresh_b@hotmail.com

Day 2
December 22, 2021, Wednesday

Inaugural Session (10:00-10:10)	
10:00-10:10	Introductory Remarks by Scientist-in-Charge: Prof. Saurabh Das, Convener: Prof. Chandan Mukherjee and Advisor: Prof. Samaresh Bhattacharya
Session-I (10:10-11:30)	
Chairperson:	
Jury Member:	
10:10-11:30	Award Papers , Oral Presentations: [(AO) x-y]
Session-II (11:30-13:20)	
Chairperson:	
11:30-11:35	Endowment Lecture
11:35-12:05	Award Lecture 1 Professor A S R Anjaneyulu 60th Birth Day Commemoration Award Lecture Speaker: Prof. Surajit Chattopadhyay, University of Kalyani Title:

12:10-12:15	Invited Lecture
12:15-12:45	Invited Talk 1 Dr. Shakya S Sen, National Chemical Laboratory, Pune Title: Amidinatohypersilylsilylene: A New Synthone in Silicon Chemistry
12:50-13:20	Invited Talk 2 Dr. Manindranath Bera, University of Kalyani Title: Structural and Functional Aspects of Multinuclear Metal Complexes Supported by Carboxylate-Based Ligands
Lunch Break (13:20 – 13:50)	
Session-III (14:00-17:00)	
Chairperson:	
14:00-14:05	Invited Lecture
14:05-14:35	Invited Talk 3 Prof. Iti Gupta, I I T, Ganghinagar Title: BODIPY based bio-sensors and PDT agents
14:40-15:10	Invited Talk 4 Prof. Mauro Botta, Amedeo Avogadro University of Eastern Piedmont Title: The surprising complexity of the [Ln(AAZTA)]-chelates revealed by NMR in the frequency and time domain
15:15-15:45	Invited Talk 5 Prof. Antoni Llobet, Institute of Chemical Research of Catalonia, ICIQ Title: Molecular water oxidation Catalysts anchored on conductive and semiconductive surfaces
15:50-16:20	Invited Talk 6 Prof. V. Ganesan, Banaras Hindu University, Varanasi. Title: Metal porphyrins and phthalocyanines on porous supports for the electrocatalytic oxygen reduction reaction
16:25-16:55	Invited Talk 7 Dr. Snehadrinarayan Khatua, N E H U, Shillong Title: Luminescence tuning of d6-metal polypyridine complexes for sensing and bioimaging
Session-IV (17:30-20:00)	
Chairperson:	
17:30-19:00	General Papers: Oral presentation [(OP) x-y]
Chairperson:	
19:05-20:00	General Papers: Poster presentation [(PP) x-y]

Day 3
December 23, 2021, Thursday

Inaugural Session (10:00-10:10)	
10:00-10:10	Introductory Remarks by Scientist-in-Charge: Prof. Saurabh Das, Convener: Prof. Chandan Mukherjee and Advisor: Prof. Samaresh Bhattacharya
Session-V (10:10-11:30)	
Chairperson: Jury Member:	
10:10-11:30	Award Papers: Oral Presentations: [(AO) x-y]
Session-VI (11:30-13:20)	
Chairperson:	
11:30-11:35	Endowment Lecture
11:35-12:05	Award Lecture 2 Professor H L Nigam Memorial Award Lecture Speaker: Prof. Shyamal Chattopadhyay, I I E S T, Shibpur. Title:
Chairperson:	
12:10-12:15	Invited Lecture
12:15-12:45	Invited Talk 8 Prof. R Boomi Shankar, I I S E R, Pune Title: Hybrid Organic-Inorganic Ferroelectrics for Piezoelectric Energy Harvesting Applications
12:50-13:20	Invited Talk 9 Dr. Sheikh M Mobin, I I T, Indore Title: Click reaction driven fluorescent organometallic complexes labelled as a cellular organelle tracker in live cells and a rare Au...H interactions
Lunch Break (13:20 – 13:50)	
Session-VII (14:00-16:20)	
Chairperson:	
14:00-14:05	Invited Lecture
14:05-14:35	Invited Talk 10 Dr. Tharamani C N, I I T Ropar Title: Design of non-noble metal catalyst with potential efficacy for clean energy conversion
14:40-15:10	Invited Talk 11 Prof. Kanishka Biswas, J N C A S R, Bangalore Title: Enhanced Atomic Ordering and Nanostructuring Boost the Thermoelectric Performance to an Ultra-high Value
15:15-15:45	Invited Talk 12 Prof. Richard Winpenny, The University of Manchester Title: Supramolecular Assemblies Made from Heterometallic Rings

15:50-16:20	Invited Talk 13 Prof. Jitendra K Bera, I I T, Kanpur Title: Ligand Electronic Asymmetry in Organometallic Catalysis
Break (16:30 – 17:00)	
Session-VIII (17:00-20:00)	
Chairperson:	
17:00-18:30	General Papers: Oral presentation [(OP) x-y]
Chairperson:	
18:40-19:30	General Papers: Poster presentation [(PP) x-y]
19:40 - 20:00	Concluding Remarks by Scientist in Charge Prof. Saurabh Das and Convener Prof. Chandan Mukherjee.



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

Organic & Bio-Chemistry Section

December 22, 2021, Wednesday

Dept. of Chemistry, IIT Kharagpur

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 (Confirmed) 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	Special Invited Lecture Akhila K. Sahoo, UoH, Hyderabad Title: Cationic-Palladium Catalyzed Regio- and Stereoselective Dicarbofunctionalization of Unsymmetrical Alkynes
10:50-11:15	Invited Lecture 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 □-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 (15:30-16:10)	
PLENARY LECTURE (15:45-17:05) 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 - Budhdhadeb 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)	



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57th Annual Convention of Chemists (ACC), Indian Chemical Society (ICS)
Organic & Bio-Chemistry Section
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Dept. of Chemistry, IIT Kharagpur

PLENARY LECTURE (09:00-09:40) Chairperson: Uttam K. Tambar, UTSW, Dallas, USA	
09:00 -	Alexander Radosevich, MIT, USA
09:40	Title: Catalytic Reductive O-Atom Transfer Methods via P(III)/P(V)=O Redox Cycling
SESSION 6 (09:40-11:00) Chairperson: D. S. Reddy, CSIR-IIIM Jammu	
09:40 -	SIL - Zuowei Xie, Chinese Univ. of Hong Kong, China
10:10	Title: A Strategy for Selective Catalytic B-H Functionalization of <i>o</i> -Carboranes
10:10 -	IL - Rajib Goswami, IACS Kolkata
10:35	Title: Asymmetric Total Synthesis of Carolacton and Alveolaride C
10:35 -	IL - Sivapriya Kirubakiran, IIT Gandhinagar
11:00	Title: Torsion 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 -	Sambasivarao Kotha, IIT Bombay
11:50	Title: Applications of Olefin-Metathesis in Polyquinanes Synthesis
SESSION 6 (11:50-13:05) Chairperson: V. R. Pedireddy, IIT Bhubaneswar	
11:50 -	IL - Ravi. P. Singh, IIT Delhi
12:15	Title: Selective C-C bond formation through Photoredox Catalysis
12:15 -	IL - Mahiuddin Baidya, IIT Madras
12:40	Title: C-H Bond Activation with Ruthenium Catalysts: From Cross-Dehydrogenative Coupling to Tandem Annulations
11:50 -	IL - Ravi. P. Singh, IIT Delhi
12:15	Title: Selective C-C bond formation through Photoredox Catalysis
BREAK (13:05 - 14:30)	
SESSION 7 (14:30-12:00) Chairperson: Arabinda Chaudhuri, IISER Kolkata	
14:30 -	SIL- Manas K. Ghorai, IIT Kanpur
15:00	Title: DROC and ROC of Small Ring <i>Aza</i> -Heterocycles
15:00 -	IL - Prasenjit Mal, NISER Bhubaneswar
15:25	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)	



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58th Annual Convention of Chemists (ACC), Indian Chemical Society (ICS)
Organic & Bio-Chemistry Section
December 24, 2021, Friday
Dept. of Chemistry, IIT Kharagpur

S. SWAMINATHAN MEMORIAL LECTURE (09:00 - 09:40) Chairperson: Brindaban C. Ranu, IACS Kolkata	
09:00 -	Amit Basak, IISER Kolkata & IIT Kharagpur
09:40	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 -	B. V. Subba Reddy, CSIR-IICT Hyderabad
10:10	Title: Enantioselective C-N, C-C, C-F and C-S functionalization of 3-oxindoline-2-carboxylate frameworks
SESSION 10 (10:10-11:05) Chairperson: S. Murugesan, Madurai Kamraj Univ.	
10:10 -	SIL - Rodney A. Fernandes, IIT Bombay
10:40	Title: Total Synthesis of γ -Lactone Natural Products
10:40-	IL - S. G. Srivatsan, IISER Pune
11:05	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-	IL - Vishal Rai, IISER Bhopal
11:50	Title: Precision Engineering of Proteins Enabling Biology and Medicine
11:50-	IL - Surajit Ghosh, IIT Jodhpur
12:15	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-	IL - Amit Kumar, IIT Patna
12:40	Title: A Promising Synthetic Route for O-Glycosidic Bond Formation and Glycodiversification
12:40-	IL - Sugumar Venkataramani, IISER Mohali
13:05	Title: Azoheteroarene Photoswitches: The Challenges, Structure-Property Relationships and Applications Prospects
AWARDS & VALEDICTORY (13:05-13:25)	
13:05-	ICS Awards for Oral Presenters –
13:10	Alakesh Bisai, IISER Kolkata & Dipakranjan Mal, IIT Kharagpur
13:10-	RSC Awards for Oral & Poster Presenters –
13:15	Modhu Sudan Maji, IIT Kharagpur & Aparna Ganguly, RSC
13:15-	ACS Awards for Oral & Poster Presenters –
13:20	Samik Nanda, IIT Kharagpur & Deeksha Gupta, ACS

13:20-	Vote of Thanks by Co-Conveners
13:25	Samik Nanda, IIT Kharagpur; Modhu Sudan Maji, IIT Kharagpur; & Alakesh Bisai, IISER Kolkata



58th Annual Convention of Chemists (ACC)
&
International Conference on
Recent Trends in Chemical Sciences (RTCS-2021)
Indian Chemical Society (ICS)

Physical Chemistry Section

Venue:	Department of Chemistry, University of Calcutta
Scientist-in-Charge:	Prof. Kallol K. Ghosh, School of Studies in Chemistry, Pt. Ravishankar Shukla University, Raipur, Chhattisgarh, Mob:9425216204; kallolkghosh@gmail.com
Conveners:	Prof. Nikhil Guchhait, Department of Chemistry, Calcutta University, Kolkata, Mob. 8013468082; nguchhait@yahoo.com
	Prof. Dilip Kumar Maity, Bhabha Atomic Research Centre, Mumbai, Mob. 9869665141; dkmaity@barc.gov.in

Day 2

December 22, 2021, Wednesday

Session-I: Inaugural Session (09:15-09:30)	
09:15 – 09:30	Introductory Remarks by the Scientist-in-Charge: Prof. Kallol K. Ghosh and Conveners: Prof. Nikhil Guchhait and Prof. Dilip Kumar Maity.
Chairperson: Prof. D. V. Prabhu, Wilson College, Mumbai	
09:30 – 11:00	Award Papers: [(AO) 1-7]
Chairperson: Prof. Subhash Chandra Bhattacharya, Dept. of Applied Sciences, MAKUAT, Kolkata	
11:00 – 11:45	Award Papers :[(AP) 8-11]
Chairperson: Prof. Nikhil Guchhait, Calcutta University, Kolkata	
11:50 – 12:30	Professor R S Varma Memorial Award Lecture: Prof. Siva Umopathy, Director, IISER Bhopal Title: Laser spectroscopy: From physics to chemistry, biology and medicine
Chairperson: Prof. Dilip Kumar Maity, Bhabha Atomic Research Centre, Mumbai	
12:30 pm – 12:55 pm	Invited Talk 1 Prof. Rajarshi Chakrabarti, Indian Institute of Technology, Bombay Title: Activity and crowding, two major players in single probe dynamics
13:00 -13:25	Invited Talk 2 Dr. Prabhat Kumar Singh, Homi Bhabha National Institute, Mumbai

	Title: Molecular Rotor Based Fluorescence Sensors for Heparin.
Lunch Break (13:30 – 14:00)	
Session-II (14:00 -19:40)	
Chairperson: Dr. Suresh Kumar Kailasa, SVNIT, Surat	
14:00-15:00	General Papers :[(OP) 1-6]
Chairperson: Dr. Chirantan Roy Chowdhuryr, W.B State University, Barasat	
15:00-15:30	General Papers :[(PP) 7-10]
Chairperson: Dr. Manjusha V Shelke, NCL, Pune	
15:30-15:55	Invited Talk 3 Prof. Pratik Sen , Indian Institute of Technology Kanpur, UP Title: Blue Edge of Emission Shift (BEEms) as a Novel Method to Probe Heterogeneity
16:00-16:25	Invited Talk 4 Dr. Ujjal K. Gautam , IISER-Mohali, SAS Nagar, Punjab Title: Ways of improving the electrocatalytic performance of Pd for meeting commercial targets for energy generation
Chairperson: Prof. Pralay Maiti, Indian Institute of Technology (BHU), Varanasi	
16:30-16:55	Invited Talk 5 Dr. Jayanta Haldar , Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Bangalore Title: Outwitting antibiotic resistance: A perpetual battle
17:00-17:25	Invited Talk 6 Dr. Sobhan Sen , Jawaharlal Nehru University, New Delhi Title: How to Follow the Kinetic Pathways of Ligand Interaction with G-quadruplex DNA Structures?
Chairperson: Dr. Biswajit Pal, St. Paul College, Kolkata	
17:30-17:55	Invited Talk 7 Prof. Ch. Subrahmanyam , Department of Chemistry, IIT, Hyderabad, Telangana Title: Rational design of heterojunction electrodes for efficient solar water splitting.
18:00-19:00	Award Papers :[(AP) 11-14]
Chairperson: Prof. J. P. Mittal, University of Mumbai	
19:00-19:40	Plenary Lecture 1: Prof. Richard N. Zare , Department of Chemistry, Stanford University Stanford, USA Title: Water Microdroplets Can Cause Redox Reactions to Occur

Day 3

December 23, 2021, Thursday

Session-III (09:15-12:55)	
09.15 – 09.20	Introductory Remarks by the Scientist-in-Charge: Prof. Kallol K. Ghosh and Conveners: Prof. Nikhil Guchhait and Prof. Dilip Kumar Maity
Chairperson: Prof. D. V. Prabhu	
09.20 – 11.10	Award Papers :[(AO) 15-20]
Chairperson: Prof. Anindya Datta, IIT Bombay	
11.15– 11.55	Plenary Lecture 2: Prof. Kazuo Takatsuka , Kyoto University, Japan Title: Real-time electron dynamics in molecular charge separations: Time-domain quantum chemistry
Chairperson: Dr. Rakesh Kumar Mahajan, Guru Nanak Dev University, Amritsar	
12.00– 12.25	Invited Talk 8 Prof. Subit Kumar Saha , Birla Institute of Technology and Science Pilani, Hyderabad Title: Binding Interactions of Cationic Gemini Surfactants with Gold Nanoparticles-Conjugated Bovine Serum Albumin: A FRET/NSET, Spectroscopic, and Docking study.
12.30 – 12.55	Invited Talk 9 Prof. Pannuru Venkatesu , University of Delhi, Delhi Title: Ionic Liquids as green solvents for enhanced stability of proteins against multiple stresses
Lunch Break (13:00 – 14:00)	
Session-IV (14:00 -19:30)	
Chairperson: Dr. Suresh Kumar Kailasa, SVNIT, Surat	
14:00-15:00	General Papers: [(OP) 1-6]
Chairperson: Dr. Chirantan Roy Chowdhury, W.B State University, Barasat	
15:00-15:30	General Papers: [(OP) 7-9]
Chairperson: Prof. Ashu Rani, University of Kota, Rajasthan	
15:30-15:55	Invited Talk 10 Prof. P. Sujatha Devi , NIIST, Trivandrum Title: Emerging Application of Nanomaterials in DNA Sensing
16:00-16:25	Invited Talk 11 Dr. R. S. Swathi , IISER, Thiruvananthapuram Title: In Pursuit of Accurate Atomistic Model Potentials for Twisted Bilayer Graphynes
Chairperson: Prof. Manas K. Deb, Pt. Ravishankar Shukla University, Raipur	
16:30-16:55	Invited Talk 12 Dr. Aijaz Ahmad , University of Kashmir, Srinagar, Jammu & Kashmir Title: Chemical kinetic and chemical trapping methods: Unique approaches for probing the chemical reactivity and composition in the interfacial region of association colloids

Chairperson: Prof. Dulal Chandra Mukherjee (To be confirmed)	
17:00-17:25	Invited Talk 13 Dr. Sujoy Sarkar , VIT, Vellore Title: Correlative Multitechnique Imaging of Single Particle Photocatalyst and Scanning Photo-Electrochemical Microscopy on TEM Grids
Chairperson: Prof. Deb Shankar Ray	
17:30-18:10	Professor A K Chandra Memorial Award Lecture Prof. Purusottam Jena , Department of Physics, Virginia, Commonwealth University, Richmond VA Title: Superatomic Chemistry
Chairperson: Prof. Kallol Kumar Ghosh	
18:15-19:30	General Papers :[(OP) 10-18]



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December 24, 2021
Young Scientist Conclave 2021

Inaugural Session (09:30-9:35)	
09:30-09:35	Address to the Young Scientist by Prof. Chittaranjan Sinha, Honorary Secretary, ICS
Session-I: Organic & Bio-Chemistry (9:35-11:05)	
Chairperson: Professor D. B. Ramachary	
09:35-10:05	Invited Talk 1 Dr. Ponneri C. Ravikumar, NISER Bhubaneswar Title: Strained Organic Molecules as 3C Synthons: C-C Bond Activation as a Tool for the Synthesis of N-Heterocycles and Privileged Structures
10:05-10:35	Invited Talk 2 Dr. Kiran Kumar Pulukuri, IISER Tirupati Title: Synthesis and Biological Investigation of Natural Products and Designed Molecules
10:35-11:05	Invited Talk 3 Dr. Srinivasarao Yaragorla, University of Hyderabad Title: In situ Synthesis and Cyclisations of Ambiphilic Allenes
Session-II: Physical & Theoretical (11:10-12:40)	
Chairperson: Dr. Madhurima Jana	
11:10-11:40	Invited Talk 4 Dr. Jino George, IISER Mohali Title:
11:40-12:10	Invited Talk 5 Dr. Rahul Maitra, IIT Bombay Title: Reducing the dimensionality in coupled cluster calculations: Machine Learning and Adiabatic Decoupling schemes
12:10-12:40	Invited Talk 6 Dr. Susmita Roy, IISER Kolkata Title: Developing dynamic counterion-condensation model to capture ion-localization effect on RNA
Session-III: Inorganic & Organometallic (12:45-01:45)	
Chairperson: Dr. Sabana Khan	
12:45-01:15	Invited Talk 7

	Dr. Debashis Adhikari, IISER Mohali Title: A nickel catalysed alcohol oxidation and N-alkylations mediated by hydrogen atom transfer.
01:15-01:45	Invited Talk 8 Dr. Arnab Rit, IIT Madras Title: Transition Metal Complexes of N-Heterocyclic Carbene Ligands: Impact of the Ancillary Ligands in their Catalytic Activities
Session-IV (01:45-02:00)	
01:45-01:50	About YSC, our expectations and future planning by G. Roymahapatra
01:50-02:00	Summary of the programme and Vote of Thanks, by Prof. D Ramachary

Valedictory Session

3.00 PM – 5.00 PM