



**KLE Technological University**  
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# INDIAN COUNCIL OF CHEMISTS 44<sup>th</sup> ANNUAL NATIONAL CONFERENCE

**22<sup>nd</sup> – 24<sup>th</sup> DECEMBER 2025**

**Organized by**  
School of Advanced Sciences, KLE Technological University  
Hubballi, Karnataka-580 031

## "Organic Chemistry Section"

**Section President**



**Prof. Arun M. Isloor**

Department of Chemistry, National  
Institute of Technology Surathkal  
(NITK), Mangalore, Karnataka

**Title: Organic Chemistry-Inspired Zwitterionic  
Polymers for Advanced Membrane Performance**



**Prof. Nilkamal Mahanta**

Department of Chemistry, Indian  
Institute of Technology Dharwad  
(IITDh), Dharwad, Karnataka

**Title: Unraveling the organic chemistry  
of enzymes involved in promysalin  
biosynthesis, a promising antibiotic  
against Pseudomonas aeruginosa**



**Prof. Vandana Bhalla**

Department of Chemistry, UGC  
Sponsored-Centre of Advance  
Studies-II, Guru Nanak Dev University,  
Amritsar, Punjab

**Title: Understanding the Morphology  
Depended Photophysical Behaviour in  
Donor- Acceptor Systems**



**Prof. A. S. Achalkumar**

Department of Chemistry, Indian  
Institute of Technology Guwahati,  
Guwahati, Assam

**Title: Discotic Liquid Crystals: Next  
Generation Materials for Organic  
Electronics**



**Dr. Vijayavithal Mathad**

Chief Operating Officer, CRAMSN  
Research Park (P) Ltd., MSN Group of  
companies, Hyderabad, Telangana

**Title: Current Trends in Organic  
Synthesis for Sustainable Process  
Developments in the Pharmaceutical  
Industry**



**Dr. C. V. Yelamaggad**

Centre for Nano and Soft Matter  
Sciences (CeNS), Bengaluru,  
Karnataka

**Title: Fluorescence Modulation in an  
ESIPT- Active Columnar Liquid Crystal  
via Quantum Dot Interaction**



**Prof. Balakrishna Kalluraya**

Professor (Rtd) & UGC BSR Fellow,  
Department of Chemistry, Mangalore  
University, Mangaluru, Karnataka

**Title: Dipolar Addition Reaction – A Facile  
route in the synthesis of novel bio-active  
molecules**



**Prof. Devdutt Chaturvedi**

Department of Chemistry, School of  
Physical Sciences, Mahatma Gandhi  
Central University, Motihari, Bihar

**Title: Greener syntheses employing  
heteroallenes: An easy access for  
the syntheses of biologically potent  
scaffolds**



**Prof. K. R. Desai**

Director research & Consultancy  
Cell, Ukatarsadia University,  
Surat, Gujarat

**Title: Sustainable Organic Synthesis  
Using Green technology for  
Chemical industries**

**Prof. Ranjit K. Verma**  
President, ICC

**Prof. Rajesh Dhakarey**  
Secretary, ICC

**Prof. Tejraj Aminabhavi**  
Conference Chair, ICC - 2025

**Prof. Nagaraj P. Shetti**  
Convenor, ICC-2025

Invited Lectures





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## "Physical Chemistry Section"

**Section President**



**Prof. Ramesh L. Gardas**

Department of Chemistry, Indian  
Institute of Technology – Madras  
(IITM), Chennai, Tamil Nadu

**Title:** Molecular-level insights into sorption and  
extraction: role of ionic liquids and deep eutectic  
solvents in enhancing physicochemical processes



**Dr. Prem Prakash Solanki**

Department of Chemistry, Institute  
of Science, Banaras Hindu  
University, Varanasi, Uttar Pradesh

**Title:** Physicochemical and  
Thermodynamic Evaluation of Cationic  
and Anionic Dye-Surfactant Interaction  
and its use in Photogalvanic Cell for  
solar energy conversion



**Dr. Arvind Kumar**

Salt and Marine Chemicals  
Division, CSIR-CSMCR,  
Bhavnagar, Gujarat

**Title:** Thermally Stable Ionic  
Nanoreactors for Facile Synthesis  
of Advanced Materials under  
Ambient Conditions



**Dr. Ranjan Dey**

Thermophysical Properties Lab  
Department of Chemistry, Birla  
Institute of Technology and  
Science, Sancoale, Goa

**Title:** Thermophysical Properties of  
Industrial Solvents and their greener  
alternatives



**Dr. Harish Kumar**

Department of Chemistry,  
School of Basic Sciences,  
Central University of Haryana,  
Mahendergarh, Haryana

**Title:** Functional Nanomaterials  
for Sustainable Developments



**Dr. R.B Singh**

Scientist 'C' (UGC), Dr. Bhimrao Ambedkar  
University, Khandari Campus,  
Agra, Uttar Pradesh

**Title:** Studies of ultrasonic of KBr in  
dioxan and water solvent mixture at  
303.15K



**Dr. Tejwant Singh Kang**

Department of Chemistry, UGC  
Sponsored Centre for Advanced  
Studies-II, Guru Nanak Dev University,  
Amritsar, Punjab

**Title:** Sustainable preparation of  
photo-catalytically active nanomaterials  
and their composites with 2D materials  
using Ionic Liquids



**Dr. Kalpna Kumari**

Department of chemistry,  
Dr. L. K. V. D. College Tajpur,  
Samastipur, Bihar

**Title:** Thermodynamics in universe  
and day to day life



**Dr. Venkata Krishnan**

School of Chemical Sciences,  
Indian Institute of Technology  
Mandi, Himachal Pradesh

**Title:** Development of sustainable  
heterogeneous catalysts for energy and  
environmental applications

Invited Lectures

**Prof. Ranjit K. Verma**  
President, ICC

**Prof. Rajesh Dhakarey**  
Secretary, ICC

**Prof. Tejraj Aminabhavi**  
Conference Chair, ICC - 2025

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### "Analytical and Environmental Chemistry Section"

**Section President**



**Prof. A. Senthil Kumar**

CO<sub>2</sub> Research and Green Technology  
Centre, Vellore Institute of Technology  
(VIT) University, Vellore, Tamil Nadu

**Title: Redox-Active Organic Molecular Species  
Anchored Carbon Nanomaterials for Elegant  
Electrochemical Immunoassays**



**Dr. Ujjwal Pal**

Department of Energy and  
Environmental Engineering,  
CSIR-IICT, Hyderabad, Telangana

**Title: Technology Readiness and  
Innovation Gaps in Electrolyzers for  
Green Hydrogen**



**Prof. S. K. Nataraj**

Centre for Nano & Material  
Sciences, JAIN University, Jain Global  
Campus, Bengaluru, Karnataka

**Title: Exploring Biodiversity for  
Energy and Environmental  
Applications**



**Dr. Ranjit Kumar**

Department of Chemistry,  
Dayalbagh Educational Institute  
(Deemed University),  
Agra, Uttar Pradesh

**Title: The Chemical Language of Air:  
Analytical Stories from the  
Atmosphere**



**Prof. Raviraj M. Kulkarni**

School of Computing, MIT  
Vishwapravag University, Solapur,  
Maharashtra

**Title: Advances in Hybrid nano-adsorbent  
and Nanofiltration Strategies for Safer  
and Sustainable Water Systems**



**Dr. Virendr K. Sharma**

Department of Chemical,  
Environmental, and Materials  
Engineering, University of Miami  
Coral Gables - 33146, Florida, USA

**Title: High-Valent Iron Species (Fe VI,  
Fe V, and Fe IV) in Water, Food,  
Energy, and Health Nexus**



**Dr. Sanghamitra Chatterjee**

Department of Chemistry, Institute of  
Chemical Technology, Mumbai,  
Maharashtra

**Title: Nanomaterial Modified Sensors  
for Theranostics: Unveiling a New  
Horizon in Ultrasensitive Biomedical  
Detection**



**Dr. Santoshkumar Bhat**

CSIR-Central Electrochemical Research  
Institute-Madras Unit, CSIR Madras  
Complex, Chennai, Tamil Nadu

**Title: Advancements in Polymer  
Electrolyte Fuel Cell Technology:  
Research Opportunities and  
Technology Challenges**



**Prof. Nagaraj Shetti**

School of Advanced Sciences, KLE  
Technological University, BVBCET  
Campus, Hubballi, Karnataka

**Title: Electrochemical sensors for  
the detection of some pesticides**

**Prof. Ranjit K. Verma**  
President, ICC

**Prof. Rajesh Dhakarey**  
Secretary, ICC

**Prof. Tejraj Aminabhavi**  
Conference Chair, ICC - 2025

**Prof. Nagaraj P. Shetti**  
Convenor, ICC-2025

Invited Lectures





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## "Inorganic Chemistry Section"

**Section President**

**Prof. Vinod K. Sharma**



Department of Chemistry,  
University of Lucknow,  
Lucknow, Uttar Pradesh

**Title: Synthesis and Spectroscopic Studies on  
Some Transition Metal Complexes with Acyclic  
and Macrocyclic Ligands**

**Prof. A. P. Mishra**



Senior Professor; Department of  
Chemistry, Dr. H. S. Gour  
Vishwavidyalaya (Central  
University), Sagar, Madhya Pradesh

**Title: Synthetic Metal-chelates in  
Medicines: Possibilities and Prospects**

**Prof. Umesh Nath Tripathi**



Professor, Department of Chemistry,  
D. D. U. Gorakhpur University  
Gorakhpur, Uttar Pradesh

**Title: Functional Materials of  
thioate and phosphoro-thioates  
Metal Complexes**

**Prof. Devendra Pathak**



Department of Chemistry and  
Chemical Biology, Indian Institute  
of Technology (ISM), Dhanbad

**Title: Cu(II)-DEAS Functionalized  
MIL-101(Cr)-NH<sub>2</sub>: A Robust MOF-Based  
Catalyst for Efficient Synthesis of  
3,5-Disubstituted-1,2,4-Triazoles**

**Prof. A. S. Aswar**



Department of Chemistry, Sant  
Gadge Baba Amravati University,  
Amravati

**Title: MgFe<sub>2</sub>O<sub>4</sub>@SiO<sub>2</sub>-SO<sub>3</sub>H: as a novel  
heterogeneous magnetic nanocatalyst  
for the synthesis of benzoxazinone and  
benzthioxazinone via multicomponent  
reactions under solvent free conditions**

**Dr. M. Yadav**



Department of Chemistry and  
Chemical Biology, IIT(ISM),  
Dhanbad, Jharkhand

**Title: Synthesized carbon dot as  
excellent corrosion inhibitor for  
mild steel in HCl solution**

**Prof. T. Maiyalagan**



Electrochemical Energy Laboratory,  
Department of Chemistry, SRM Institute  
of Science and Technology,  
Kattankulathur, Tamil Nadu

**Title: Low cost electrocatalysts for  
sustainable green hydrogen  
production**

**Prof. Rajeshwar Rao**



Department of Chemistry, Indian  
Institute of Technology Dharwad  
(IITDh), Dharwad, Karnataka

**Title: Metal-Organic Frameworks:  
Nobel-Worthy Materials Shaping  
Modern Chemistry**

**Dr. Neeraj Kumar Mishra**



Department of Chemistry, Faculty  
of Science, University of Lucknow,  
Lucknow, Uttar Pradesh

**Title: Role of In Situ Generated  
Organometallic Complexes in the  
Construction and Functionalization  
of Late-Stage Heterocycles**

**Prof. Ranjit K. Verma**  
President, ICC

**Prof. Rajesh Dhakarey**  
Secretary, ICC

**Prof. Tejraj Aminabhavi**  
Conference Chair, ICC - 2025

**Prof. Nagaraj P. Shetti**  
Convenor, ICC-2025

Invited Lectures