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Global Congress on Catalysis and Chemical Engineering

November 13-15, 2025 | Valencia, Spain

PROGRAM

E: ChemicalSummit-2025@iconicmeetings.org
W: https://www.chemicalengineering.theiconicmeetings.com/

Day 1 (November 13, 2025)	
MainHall	
08:30-09:30	Registrations
09:30-09:35	Introduction
09:35-10:00	Opening Ceremony
Plenary session	
10:00-10:45	Title:Special Issue Based on 8th International Conference on Catalysis and Chemical Engineering **Mannar Ram Maurya (Professor of Chemistry), Indian Institute of Technology Roorkee India**
10:45-11:30	Title:Halogenated non-innocent vanadium (V) Schiff base complexes: chemical and anti-proliferative properties **Debbie C. Crans (Deportment of biological chemistry), Colorado State University Fort Collins, CO**
11:30-11:50	Refreshments Break@ Foyer
Keynote Session	
11:50-12:25	Title: Intensified methanol steam reforming over active and stable CeO2-Al2O3 supported catalysts **Eugenio Meloni (Researching in heterogeneous catalysis process), University of Salerno, Italy"**
12:25-12:55	Title: MECHANISM OF COLLAGEN SYNTHESIS AND FACTORS AFFECTING IT **Ozlem Alptekin (Associate Professor),University of Cukurova, Turkey**
12:55-13:55	Group Photo & Lunch Break
Invited Talks	
13:55-14:30	Title: Ag-$NiFe_2O_4$ over mesoporous silica for efficient 4-nitrophenol reduction: Nanocatalyst development, kinetics studies and reaction optimization **Binitha N Narayanan (Department of Chemical Engineering), Sree Neelakanta Government Sanskrit College Pattambi, India**

14:30-15:05	Title: Enhanced Pyrolysis of Oil Sludge and Polymer Waste in sub and Supercritical Water: Production of Low-carbon Syngas, and Liquid Hydrocarbons using Bimetallic Catalyst **Richard Djimasbe (Doctor of Petrochemistry), Kazan Federal University, Russia**
Featured Talks	
15:20-15:45	Title: Triphenylamine-Based Solid-State Emissive Fluorene Derivative with Aggregation-Induced Emission Enhancement Characteristics **Seda Cetindere (Research Assistant), Gebze Technical University, Turkey**
15:45-16:05	**Refreshments Break@ Foyer**
16:05-16:30	Title: Publisher Correction: Integrated electrocatalytic synthesis of ammonium nitrate from dilute NO gas on metal organic frameworks-modified gas diffusion electrodes **Geun Ho Gu (Assistant Professo), KENTECH (Korea Institute of Energy Technology) University in Naju, South Korea**
16:30-16:55	Title: Resolving the Role of the Interfacial Electrolyte Environment in Electrochemical CO2 Reduction **Eric W. Lees (Assistant Professor), The University of British Columbia, Vancouver,Canada**
Speaker Slots Available	

Day 2 (November 14, 2025)	
08:30-09:30	**Registrations**
Plenary Session	
10:00-10:45	Title: Light-Induced Welding of Electrospun Poly(ε-caprolactone) Nanofibers in a Nonwoven Mat by Leveraging the Photothermal Effect of Gold Nanocages **Younan Xia (Research interests: Nanomaterials, Biomedicine, Catalysis), Harvard University ,Cambridge, Massachusetts**

10:45-11:30	**Title: Formation of Powder and Bulk Al-Cu-Fe Quasicrystals, and of Related Phases during Mechanical Alloying and Sintering** **Tudor Spataru (Chemical Researcher), Columbia University, USA**
11:30-11:50	**Refreshments Break@ Foyer**
	Keynote session
11:50-12:25	**Title: Similarity analysis of membrane distillation utilizing dimensionless parameters derived from process-governing equations** **Hassan Ali Hassan Arafat (Department of Chemical Engineering,), Tohoku University, UAE**
12:25-12:55	**Title: Controlled Retro-i-Steroid Rearrangement: Catalytic Regioselective Steroidation of Biomolecules with Steroidal Trichloroacetimidates** **LIU Xuewei (Department of Chemistry), Nanyang Technological University, Singapore**
12:55-13:55	**Group Photo & Lunch Break**
13:55-14:30	**Title: Consolidation of carbonates using hydrolysed polyacrylamide: Effect of temperature, pressure, salinity, and nanoparticle crosslinking** **Omar Matar (Professor in Forensic science), Imperial College London, United Kingdom**
14:30-15:05	**Title: Temporary Well Plugging for Future CO2 Storage: CT Analysis of Thermal Sensitive Polymer-Gel Dynamics in Low-Permeability Chalk** **Hamed Movahedi (Department of Chemistry), Technical University of Denmark, Denmark**
	Featured Talks
15:05-15:20	**Title: Light-Responsive Star Polymer Networks for Photochemical Recycling and Circular Manufacturing** **Danielle Mai (Assistant Professor of Chemical Engineering), Stanford University, United States**
15:20-15:35	**Refreshments Break@ Foyer**

15:35-16:00	Title: Formation of soluble organics and sugar degradation byproduct during hot compressed water pre-treatment of empty fruit bunch for biogas production **Show Pau Loke (Department of Chemical Engineering), University of oxford, UAE**
16:00-16:25	Title:Band edge tailoring in few-layer two-dimensional molybdenum sulfide/ selenide alloys **Yi-Rung Lin (Ph.D. in Chemistry), Stanford University, United States**
Speaker Slots Available	

Day 3 (November 15, 2025)	
MainHall	
08:30-09:30	**Registrations**
Plenary session	
10:00-10:45	Title: Methods and Systems for Making Polymeric Microstructures **Eric S.G. Shaqfeh (Professor of Chemical Engineering), Stanford University, United States**
10:45-11:30	Title:Metal Nitride Chemical Looping Synthesis of HCN Via Fixation of N2 **Klaus Hellgardt (Professor of Chemical Engineering), Imperial College London, United Kingdom**
11:30-11:50	**Refreshments Break@ Foyer**
Keynote session	
11:50-12:25	Title: Designing the Cu-ZnO Interfacial Structure By Atomic Layer Deposition for Methanol Synthesis from CO2 Hydrogenation **Stacey Bent (Professor of Chemical Engineering),Stanford University, United States**
12:25-12:55	Title: Evaluating Redox Flow Battery Field Designs with the Vanadium Acetylacetonate Chemistry **Charles Monroe(Professor of Chemical Engineering), University of Oxford, United Kingdom**

12:55-13:55	Group Photo & Lunch Break
13:55-14:30	Title:Interfacial adsorption and recovery of Lithium ions using sulfonated graphene oxide and Ti3C2Tx MXene nanocomposite hydrogels **Hassan Ali Hassan Arafat (Department of Chemical Engineering), Tohoku University, UAE**
14:30-15:20	TitleAn Unusual Macrocyclic Hexamer of an Iso-Tellurazole N-Oxide Featuring CTe…O Chalcogen Bonds is Formed by κ6-O Complexation to Fe(II) and Ni(II) **Ignacio Vargas-Baca (Research Supramolecular Main-Group Chemistry), McMaster University Hamilton, Canada**
Featured Talks	
15:05-15:20	Title: Chemically directed self-assembly of nanoparticle structures on surfaces **LING Xing Yi (Department ok Chemistry), Nanyang Technological University, Singapore**
15:20-15:35	Refreshments Break@ Foyer
15:35-16:00	Title: Sidechain conditioning and modeling for full-atom protein sequence design with FAMPNN **Brian Hie (Assistant Professor), Stanford University, United States**
16:00-16:25	Title:Untargeted profiling and classification of maple syrup quality from the chromatographic and mass spectrometric analysis of volatile and nonvolatile chemical fractions **Malama Chisanga (Assistant Professor), Universite de Montreal, Canada**
16:25-16:50	Title:Study of an Oxidation Catalyst System for Treating Diesel Exhaust from Mobile Sources **Adria Lotus(Assistant Professor), University of British Columbia**
Speaker Slots Available	