



Scientific Program

3rd International Conference on

CATALYSIS & CHEMICAL ENGINEERING

October 08-09, 2025 | Dubai, UAE



Hosting Organization: Inovine Meetings LLC, 2C Pecan Hill Drive Clinton
Mississippi, 39056 USA | Phone: +1-408-648-2233

Day 1

Scientific Program

October 08, 2025 | Dubai, UAE
Conference Hall : Al Majlis

09:00-09:15: Registrations
09:15-09:30: Opening Ceremony

Keynote Presentations



09:30-10:10

Title: Thermal Decomposition Behaviour of Ammonium Perchlorate/LaMn0.4Fe0.6O3 Composition: An Artificial Neural Networking Investigation

Pragnesh N Dave
Sardar Patel University, India



10:10-10:50

Title: Nanotechnology Contributing to the Development of Sustainable Electrode Material(s) for the Fabrication of High Performance Aqueous Supercapacitor

Anil Kumar
Indian Institute of Technology Roorkee, India

Group Photo | Coffee Break 10:50-11:10@ Foyer

Oral Presentations

11:10-11:35

Title: Poly(diureaphosphazene)-Alginate Hydrogels as Biodegradable Fertilizer-Release Systems for Sustainable Agriculture

Navinbhai Punambhai Chikhaliya
Sardar Patel University, India

11:35-12:00

Title: Catalytic Conversion of Crude Oil to Hydrogen by a One-step Process via Steam Reforming

Mohammed A. Albuali
King Abdullah University of Science and Technology,
Saudi Arabia

Session Introduction

Tracks

Organic Chemistry | Green Chemistry | Nanomaterials | Polymer Chemistry | Chemoinformatics | Analytical Chemistry | Materials Science | Chemical Engineering | Molecular Modeling | Biochemistry | Biotechnology | Agricultural Chemistry | Biotechnology | Agriculture Chemistry | Physical Chemistry

Session Chair: Pragnesh N Dave, Sardar Patel University, India

12:00-12:25

Title: Fluorinated and Non-Fluorinated Silane-Treated Diatomaceous Earth for Water-Repellent Coatings

Helanka Perera

Higher College of Technology, Dubai

12:25-12:50

Title: A New Approach for Statistical Quality Control Reference Samples:

Application to Quality Assessment of Sodium sulfate in 50 % Caustic Soda

Abdallah Al-Abdallah

SABIC Manufacturing Services, KSA

13:50-14:15

Title: Thermodynamic Properties of the Water/D-Sucrose/NH4H2PO4 System at 298.15 K

El Fadel Wiam

Mohammed V University in Rabat, Faculty of Sciences, Morocco

Panel Discussion & Certificate Felicitation
Day -1 Ends

Day 2

Scientific Program

Virtual Mode Zoom Meeting (GMT+4) Time in Dubai

October 09, 2025 | Virtual

09:00-09:20	Title: Cr(III)-crosslinker Nanocapsules Fabricated by Double Emulsion Method for Delayed Gelation in Secondary Flooding Jingyang Pu China University of Petroleum, China
09:20-09:40	Title: Photoaligned Azodye Nanolayers: New Material for Liquid Crystal Display and Photonics Devices Vladimir G. Chigrinov Hong Kong University of Science and Technology, Hong Kong
09:40-10:00	Title: Ferrate (Vi) Technology In Water And Wastewater Treatment Brij Bhushan Tewari University of Guyana, Guyana
10:00-10:20	Title: Enhancing Salt Tolerance in Tomato Crop Using Microbial Inoculants Hafiza Farhat Gomal University, Pakistan
10:20-10:40	Title: Correct Wound Dressing To Prevent Infection Afraa Talal Barzanji Ministry of Health, Saudi Arabia
10:40-11:00	Title: Visible-light induced photocatalytic degradation of endocrine disrupting contaminants Saima Farooq University of Nizwa, Oman
11:00-11:20	Title: Association between Metabolic Syndrome and APOA5 gene rs662799 and APOE 4(E4/E4) gene in obese patients Stanislav Alexandra Alina County Emergency Hospital Giurgiu, Romania
11:20-11:40	Title: Multiple Carious Process in a Child Suffering from Pyelonephritis- A Case Report Sirma Todorova Angelova Medical University-Varna, Bulgaria
11:40-12:00	Title: Durable Polymer/Inorganic Nanocomposite Coatings as Highly-Protective Surfaces Shimaa Anwer Higazy Egyptian Petroleum Research Institute, Egypt
12:00-12:20	Title: Yearly recurrence of pulmonary tuberculosis in Mbujimayi central prison, Democratic Republic of the Congo Ngoyi Kashiba Zacharie Bukonda National Pedagogical University, Democratic Republic of Congo

12:20-12:40

Title: Functional Characterization of Ruthenium Complexes for Catalytic Water Oxidation
Brinda K. Narayana
Rensselaer Polytechnic Institute, USA

12:40-13:00

Title: On Characterization Hydrodynamic of a Mixed Flow Impeller by Particle Image Velocimetry Technique
David Israel Posadas Navarro
Universidad Nacional Autónoma de México, Mexico

Panel Discussion
