

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/LaMn_{0.4}Fe_{0.6}O₃ 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

Lunch Break 12:50-13:50 @Crystal Restaurant

13:50–14:15

**Title: Thermodynamic Properties of the Water/D-Sucrose/ $\text{NH}_4\text{H}_2\text{PO}_4$
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

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|-------------|---|
| 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
