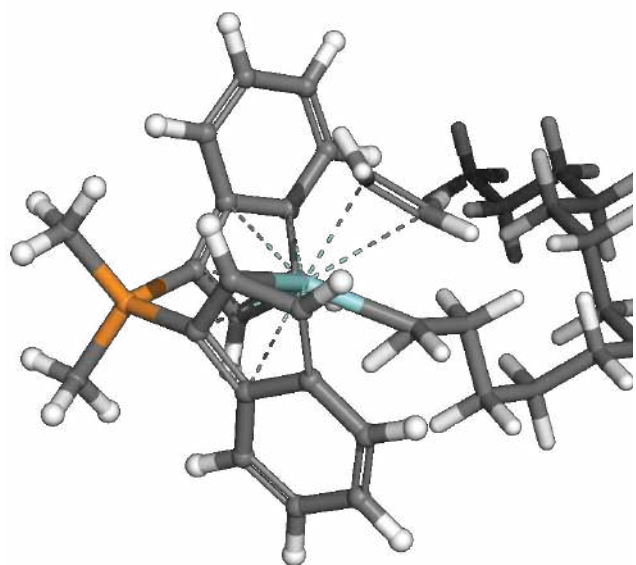




International Conference on
CATALYSIS AND
CHEMICAL ENGINEERING

March 19-20, 2025
Amsterdam, Netherlands



Contact Us

Jeri McMillan

Program Manager | CATCHEM 2025

catalysis@scmeetings.org

+447426060443

21 Clifton Road, Newcastle Upon Tyne, England

United Kingdom, NE4 6XH

<https://scholarsconferences.com/catalysis-frontiers/>

SCIENTIFIC PROGRAM

Day 01 | March 19, 2025

08:30-09:15 Registrations

09:15-09:30 Opening Ceremony

Keynote Forum

09:30-10:05 **Title: Catalytic Methane Pyrolysis to Carbon Nanotubes — Temperature Effect and Separation Methods**

Fenglou Zou, Volta Energy, Canada

10:05-10:40 **Title: Modeling Standpipe Pressure Using Multivariable Regression Analysis by Combining Drilling Parameters and Herschel-Bulkley Model**

Seydou Sinde, International University of Grand-Bassam, Ivory Coast

Networking and Refreshments Break @ 10:40-11:00

11:00-11:45 **Title: Cleaner than a Cleanroom: Peelable Polymer Coatings Generate Atomically Clean Surfaces on LIGO, EUV Space Mirrors & Lithography Optics**

James Hamilton, University of Wisconsin Platteville, USA

Speaker Session:

Session Chair: Fenglou Zou, Volta Energy, Canada

11:45-12:10 **Title: Platinum-Promoted Honeycomb Catalysts for Sulfuric Acid Manufacturing: Material Innovations and their Impact on Reactor and Process Design**

Alexander Sigg, P&P Industries AG, Austria

12:10-12:35 **Title: Self-Supported High Entropy Materials as Robust Water Splitting Electrocatalysts, Optimising Platinum Group Metals Utilization**

Jonathan Ruiz Esquius, Carbon Science and Technology Institute, Spain

12:35-13:00 **Title: Optimization of Injection Brine Composition and Impact of Geochemical Reactivity**

Ali Al-Behadili, Heriot-Watt University, United Kingdom

Group Photo

Lunch and Networking Break @ 13:00-13:50

13:50-14:15 **Title: Advancements and Applications of Fiber Laser Welding: Historical Overview, Comparative Analysis and Future Trends**

Mohammadreza Pakdaman, NSP, Iran

14:15-14:40 **Title: Enhancing Photocatalytic Hydrogen Production: Modification of TiO₂ by coupling with Semiconductor Nanoparticles**

Saud Alshammari, University of Leeds, United Kingdom

14:40-15:05 **Title: Group-III nitride Epitaxial Materials and Optoelectronic Devices Grown on Si Substrates for Visible Light Communication**

Wenliang Wang, South China University of Technology, China

15:05-15:30 **Title: Derivatives Petrol Re-Reprouce Derivatives Petrol Re-Reprouce**

Ragheed Yohnan Alabadl, University of Mossoul, France

15:30-15:55 **Title: Repalce with tittle Synergistic bioremediation of domestic sewage with production of feed, fodder, bio-fertilizer and freshwater: The green approach to resource recovery in India**

Ajay Giri, Bundelkhand University, India

Poster Session

15:55-16:15 **Title: Ni/Au(111) Single Atom Alloys (SAAs) for the preferential oxidation of CO (PROX)**

Marinka De Willigen, Leiden University, Netherlands

Panel Discussions & B2B Meeting @ 17:15-18:00

Day 01 End | Closing Ceremony

09:30-09:40 : Introduction

Keynote Forum

- 09:40-10:10 **Title: A Novel Approach of growing high-valued crops (Lactuca sativa) optimizing solar-sharing smart illumination technology consuming renewable energy to address UN-SDGs**
Myrtel Bernardo, Bulacan Agricultural State College, Philippines
- 10:10-10:40 **Title: Removal of toxic phenol from wastewater using novel solid waste materials as adsorbents and also generating circular economy**
Ashanendu Mandal, Energy Expert and International Speaker, India
- 10:40-11:10 **Title:Memory Characteristics and Thermomechanical Transformations in Shape Memory Alloys**
Osman ADIGUZEL, Firat University, Turkey
- 11: 10-11:40 **Title: Skew–Brownian processes for Estimating the Volatility of Crude Oil Brent**
Giuseppe Orlando, UM6P - Institute for Advanced Studies University of Bari, Italy

Refreshments Break @ 11:40-11:50

Speaker Session

- 11:50-12:15 **Title: Monitoring of the Benthic Environment around the Western Offshore Oil Fields**
Baban Ingole, National Center for Polar and Ocean Research, India
- 12:15-12:40 **Title: A New Trend in Alumina Refineries: Production of Pseudoboehmite as HDS and HDN Catalyst Support Material from Bayer Liquor**
Ibrahim Demir, Eti Aluminium, Turkey
- 12:40-13:05 **Title: Determination of petroleum potential of reservoir rock of Tando Allahyar field, lower Indus Basin, Pakistan using wireline logs**
Adnan Sami, University of Haripur, Pakistan
- 13:05-13:30 **Title: Importance of Libyan Crude Oils for Refining and Petrochemicals Industries**
Abdulrazag, Arabian Gulf Oil Company, Libya
- 13:30-13:55 **Title: Advanced Chemical and Optical Characterizing of a Sri Lankan Dolomite Variety for Some Catalytic and Water Treatment Applications**
Suresh Aluvihara, University of Peradeniya, India

Lunch and Networking Break @ 13:55-14:15

- 14:15-14:40 **Title: Sustainable Development in Green Energies and the Environment**
Abdeen Omer, Energy Research Institute, UK
- 14:40-15:05 **Title: Preparation and anticorrosion performance of doped STR@mSiO2/GO Nano composite as a smart-coating**
Mohammed Lasri, University Cadi Ayyad, Morocco
- 15:05-15:30 **Title: Digital Transformation of Installation Analysis Workflows**
Hayley Welsh, Project Development International Ltd, United Kingdom
- 15:30-15:55 **Title: Carbon Dots impact on improving the p-type semiconductor (nickel oxide) photovoltaic performance in Dye-sensitized Solar Cells system**
Habtamu Etefa, Walter Sisulu University, South Africa
- 15:55-16:20 **Title: Environmental Impact Assessment and Statistical Analysis of Natural Radioactivity in the Slopes of Mount Cameroon Area**
Tiomene Dorine Flore, University of Douala, Cameroon

Panel Discussions & B2B Meetings

Day 02 End | Closing Ceremony

Bookmark Your Dates

7th Edition International Conference on

Catalysis and Chemical Engineering

February 23-24, 2026 | Boston, MA, USA

catalysis@scmeetings.org

<https://catalysis.scholarsconferences.com/>

3rd Global Summit on

Oil, Gas, Petroleum Science and Engineering

February 23-24, 2026 | Boston, MA, USA

john@scholarconferences.org

<https://petroleumscienceconference.com/>

