22nd Edition of Global Conference on

Catalysis & Reaction Engineering

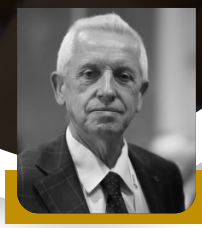
Theme: Advancing Catalysis & Chemical Engineering: From Principles to Practice

ACCREDITED PROVIDER #780056

05-07TH OCTOBER 2026

Our SCIENTIFIC COMMITTEE MEMBERS

THOMAS J WEBSTER
Brown University, United States



STANISLAW DZWIGAJ
Sorbonne University, France

ENRICO PARIS
CREA-IT & DIAEE, Italy

HANNA KIERZKOWSKA PAWLAK
Lodz University of Technology, Poland

SERGEY SUCHKOV
N.D. Zelinskii Institute for Organic Chemistry of the Russian Academy of Sciences, Russian Federation

DAI YEUN JEONG
Asia Climate Change Education Center, Korea, Republic of

TOKEER AHMAD
Jamia Millia Islamia, India

RAM SAMBHAR SHUKLA
CSIR-Central Salt and Marine Chemicals Research Institute (CSMCRI), India

RAMESH C GUPTA
Nagaland University, India

Scientific TOPICS

- Catalysis for Energy
- Chemical Engineering
- Heterogeneous Catalysis
- Environmental Catalysis
- Fluid Mechanics
- Petrochemical Engineering
- Green and Sustainable Chemistry
- Catalysis for Renewable Sources
- Catalysis for Biorefineries
- Advances in Catalysis and Chemical Engineering
- Biocatalysis and Biotransformation
- Surface Chemistry: Colloid and Surface aspects
- Computational Catalysis
- Homogeneous Catalysis
- Industrial Catalysis
- Organocatalysis
- Separation Processes
- Enzymatic Catalysis and Microbial Technology

Contact us: Email: catalysis@magnusconference.com
Web: https://catalysis-conferences.magnusgroup.org/
Phone: +1 (702) 988-2320 | **WhatsApp:** +1 (540) 709-1879

VENUE
Hilton Tokyo Narita Airport, 456 Kosuge Narita City Chiba 286-0127, Tokyo, Japan

Keynote Presentations

Title: Application of vanadium, tantalum and chromium single-site zeolite catalysts in catalysis

Stanislaw Dzwigaj, Sorbonne University, France

Title: Nanomaterials to fight cancer, cysts, infection, and numerous other health ailments: Human data

Thomas J Webster, Brown University, United States

Title: The Concept and Implications of Low Carbon Green Growth

Dai Yeun Jeong, Asia Climate Change Education Center, Korea, Republic of

Title: Personalized and Precision Medicine (PPM) as a unique healthcare model via bi-odesign, bio- and chemical engineering, translational applications, and upgraded business modeling to secure the human healthcare and biosafety

Sergey Suchkov, N.D. Zelinskii Institute for Organic Chemistry of the Russian Academy of Sciences, Russian Federation

Title: Post-translational modifications of proteins in cardiovascular diseases

Guo Wei He, TEDA International Cardiovascular Hospital, Tianjin University, China

Title: Influence of various catalysts on H_2 enhancement and CO2 capture during syngas upgrading

Enrico Paris, CREA-IT & DIAEE, Italy

Title: Morphological studies of quaternary alloys

Yarub Al Douri, European Academy of Sciences, Belgium

Title: Plasma deposited nanocomposite thin films as integrated catalytic systems on structured packings: Concepts and applications

Hanna Kierzkowska Pawlak, Lodz University of Technology, Poland

Title: Advanced nanostructures for carbon neutrality and sustainable H_2 energy

Tokeer Ahmad, Jamia Millia Islamia, India

Title: Advances in heterogeneous catalysis for green conversion of propene to aldehydes and alcohols

Ram Sambhar Shukla, CSIR-Central Salt and Marine Chemicals Research Institute (CSMCRI), India

Oral Presentations

Title: Single cell RNA sequencing reveals vascular heterogeneity and immune crosstalk in the glioma blood tumor barrier

Ling Yin, Cornell University, United States

Title: Reversible redox dynamics of cocatalysts underpinning photocatalysis for solar hydrogen production

Zheng Li, University of Calgary, Canada

Title: The Fe PNP 15 H2O catalyst reduction catalytic test and its valorisation as acid catalyst to the methylal synthesis

Rabeharitsara Andry Tahina,GPCI-ESPA Antananarivo University, Madagascar

Title 1: Oxidation of methane to methanol over pairs of transition metal ions stabilized in the zeolite matrices

Title 2: Distant binuclear vanadium V(II) cationic sites in zeolites and their reactivity

Jiri Dedecek, J Heyrovsky Institute of Physical Chemistry , Czech Republic

Oral Presentations

Title: Dimethyl ether synthesis from syngas over Cu-Zn/Al2O3 catalysts prepared using the Sol-Gel method

Uday Som, Research and Development Engineer, Japan

Title: Photoaligned azodye nanolayers : New nanotechnology for liquid crystal devices

Vladimir G Chigrinov, Hong Kong University of Science and Technology, Russian Federation

Title: Antibody-proteases as a generation of unique biomarkers, biocatalysts, potential targets and translational tools towards nanodesign-driven biochemical engineering and precision medical practice

Sergey Suchkov, N.D. Zelinskii Institute for Organic Chemistry of the Russian Academy of Sciences, Russian Federation

Title: Memory characteristics and diffusionless phase transformations in shape memory alloys

Osman Adiguzelm, Firat University, Turkey

Title: Development of specialty amines derived from acrylonitrile: A case study of N,N-dimethyl-1,3-propanediamine

Chen Wu, Institute of Zhejiang University, China

Title: Distinct NH3-SCR behavior over Cu-KFI zeolites synthesized from protonic and ammonic forms: Activity, hydrothermal stability and mechanism investigation

Birong Miao, Dalian Maritime University, China

Title: Reusable clay Cu catalysts: Green routes to key organic transformations

Bashir Ahmad Dar, University of Kashmir, India

Title: Application of solid waste materials for adsorptive removal of toxic phenol from wastewater to protect environment and also to generate circular economy

Ashanendu Mandal, University of Calcutta, India

Title: A model fitting approach for the investigation of thermo kinetic parameters of rice straw – A viable renewable energy resource in Bangladesh

Abu Md Mehdi Hassan, Lincoln University College, Malaysia

Title: Antibacterial activity of bioactive compounds extracted from the Egyptian untapped green algae Rhizoclonium hieroglyphicum

Ahmed Diab Mohamed Ahmed El Esawy, Drinking Water and Sanitation Company, Egypt

Title: A facile highly selective colorimetric detection of Pb2+ ions using gold nanoparticles as a probe and its application in real samples analysis

Manjushree Bhattacharyya, Vidyasagar University, India

Title: Enzymatic pre-treatment of red meat abattoir effluent to reduce fat, oil, and grease while enhancing biogas generation

Mabatho Moreroa, University of South Africa, South Africa

Title: Role of natural fiber morphology on impact resistance in copper-based nanocomposites

Daniel Gyasi Antwi, Department of Applied Physics, Ghana

Poster Presentations

Title: Polyoxometalate-derived molybdenum catalysts for the reverse water–gas shift reaction

Asma M O Aldajani, University of Liverpool, United Kingdom

Title: Catalytic pathways for clean energy transition: Advancing CO_2 conversion and hydrogen production toward a net-zero future

Justine Osei Owusu, University of West London, United Kingdom

Title: Generation of a macroscopic number of compact massive electron (ee) pairs with increasing electron density and cold nuclear reactions

Mikhail Petrovich Kashchenko, Ural Federal University, Russian Federation

Oral and Poster presentations slots are avaialable!!