

21st Edition of Global Conference on Catalysis, Chemical Engineering & Technology

Theme: Exploring New
Horizons in Catalysis and
Chemical Engineering



Our OCMs



STANISLAW DZWIGAJ
Sorbonne University, France



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Interstellar Therapeutics,
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Asia Climate Change Education
Center, Korea, Republic of



VLADISLAV SADYKOV
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Russian Federation



SERGEY SUCHKOV
R&D Director of the National Center
for Human Photosynthesis, Mexico



ENRICO PARIS
CREA-IT & DIAEE, Italy

11-13TH
SEPTEMBER
2025

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
- Nano-Catalysis
- Reaction Engineering and Kinetics
- Process Engineering
- Catalyst Design, Synthesis, and Mechanism
- Chemical Engineering for Circular Economy
- Quantum Chemistry in Catalysis
- Artificial Intelligence and Machine Learning in Catalysis
- In-Situ and Operando Catalysis
- Hybrid Catalysts
- Photocatalysis and Electrocatalysis
- Thermodynamics and Transport Phenomena
- Catalysis in Medicine and Pharmaceuticals
- Catalyst Deactivation and Regeneration
- Photochemistry and Electrochemistry

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VENUE

Olympia Hotel, Events & Spa
Carrer Mestre Serrano, 5, 46120 Alboraya
Valencia, Spain

Stanislaw Dzwigaj, Sorbonne University, France

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

Thomas J Webster, Interstellar Therapeutics, United States

Title: 30,000 nano implants in humans with no infections, no loosening, and no failures

Dai Yeun Jeong, Asia Climate Change Education Center, Korea

Title: Human impact on natural environment and its implications

Vladislav Sadykov, Boreskov Institute of Catalysis, Russian Federation

Title: Design of nanocomposite materials for active components of structured catalysts for biofuels transformation into syngas, catalytic layers of membrane reactors with oxygen/hydrogen separation and anodes of solid oxide fuels cells operating in the internal reforming mode

Sergey Suchkov, R&D Director of the National Center for Human Photosynthesis, Mexico

Title: Personalized and precision medicine (PPM) as a unique healthcare model through biodesign-inspired & biotech-driven translational applications and upgraded business marketing to secure the human healthcare and biosafety

Isabel Oller Alberola, Plataforma Solar de Almería, Spain

Title: Solar heterogeneous photocatalysis and photochemistry for urban wastewater regeneration and reuse

Jean Paul Lange, University of Twente, Netherlands

Title: Valorizing lignocellulose to ethylene glycol: Catalysis, catalyst deactivation and conceptual process design

Enrico Paris, CREA-IT & DIAEE, Italy

Title: Effect of bed material on syngas quality: Comparison of biomass gasification with different bed materials

Ho Soon Min, INTI International University, Malaysia

Title: Will be updated soon

Haibo Ge, Texas Tech University, United States

Title: Distal functionalization via transition metal catalysis

Beatrice Vincenti, Sapienza University of Rome, Italy

Title: Cleaner syngas from biomass gasification: Is K-Feldspar the key?

Martin Vlcek, Independent Researcher, Czech Republic

Title: The Living Water

Shinya Hodoshima, Chiyoda Corporation, Japan

Title : Energy efficient propylene production by catalytic cracking of light naphtha over zeolite based composites

Jin Hee Lee, Korea Research Institute of Chemical Technology, Korea

Title: Sustainable advancements in polyurethane monomer synthesis: Green pathways from CO₂ to isocyanates

Yousef Alroomi, KIPIC, Kuwait

Title: Natural gas as a transitional fuel for carbon emission reduction

Ghazwah Alhabashi, KIPIC, Kuwait

Title: The role of electrical/instrument maintenance in enhancing catalyst reactor efficiency in oil refineries

Sergey Suchkov, R&D Director of the National Center for Human Photosynthesis, Mexico

Title: Antibody-proteases as translational biomarkers, targets and potential tools of the next step generation as applicable for design-driven personalized and precision medical practice

Majed Alamoudi, King Abdulaziz University, Saudi Arabia

Title: Role of alkali earth metals in tailoring Ni/CeO₂ system for efficient ammonia decomposition

Sajjad Ali, Prince Sultan University, Saudi Arabia

Title: The role of hydrogen in sustainable energy solutions

Delia Teresa Sponza, Dokuz Eylul University, Turkey

Title: Production of nanocomposites from wastes to remove the pollutants

Duygu Karadeniz, Istanbul Technical University, Turkey

Title: Efficient photocatalytic degradation of methylene blue using molybdenum disulfide-doped polyacrylamide-polyvinylpyrrolidone hydrogel

Yaxin Su, Donghua University, China

Title: Selective catalytic reduction of NO by C₃H₆ over Cu(x)Co(y)Ce(z)O oxides derived from LDHs

Pengju Wu, Jiangsu University, China

Title: Current research progress in alkali metals poisoning of Selective Catalytic Reduction (SCR) denitration catalysts

Ying Li, Jiangsu University, China

Title: Research progress and future development trend of plasma technology in the field of mercury removal from flue gas

Angyang Yu, Central China Normal University, China

Title: Computational prediction of an important protein's structure

Jorge A Delgado, Syensqo, China

Title: Bimetallic catalysts for the hydrogenation of amides: From experimental to data-driven insights

Diya KV, Lovely Professional University, India

Title: Heterogeneous catalysis: Reaction mechanism and kinetic models

Anmol Pandey, Indian Institute of Technology Kharagpur, India

Title: Utilization of Li-ion mobile battery waste for adsorptive removal of hazardous Methylene Blue (MB) dye from waste water

Ashanendu Mandal, University of Calcutta, India

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

Ladapborlang Mawrie, University of Science & Technology Meghalaya, India

Title: Who gives the hydrogen? A mechanistic study through isotope labeling in photocatalytic hydrogen evolution reactions using cobalt complexes as a catalyst under neutral pH.

S R Varadhan, Independent Researcher, India

Title : FTIR and Raman spectral analysis on kerosene and crude oil-auldetraton in gaselione, adverse effectcts on nature during production and trasportation

Ahmed Mourtada Elseman, CMRDI, Egypt

Title: Multiwalled carbon nanotubes as hole collectors in inverted perovskite solar cellsoxygens

Moaz M. Abdou, Egyptian Petroleum Research Institute, Egypt

Title: Catalytic esterification for the efficient synthesis of phosphinic dipeptides and their acetylated glucose derivatives

Omar Boualam, Higher school of technology of Fez. Sidi Mohammed ben Abdellah University, Morocco

Title: Catalytic oxidation of phenol using iron-supported illite: Optimization of parameters for efficient wastewater treatment

Lhoussain Kadira, CRMEF FES, Morocco

Title: Preparation and physicochemical characterization of lanthanum-calcium co-doped barium titanate

Fatemehsadat Mirmohammadmakki, Shahid Beheshti University of Medical Sciences, Iran

Title: Biosorption: A sustainable and practical effective technique for heavy metal reduction

Paula Maseko, Rhodes University, South Africa

Title: Synthesis and characterization of isonicotinic acid and nicotinic acid metal organic frameworks for use in the treatment of hepatocellular carcinoma

Mohammas Israr, Maryam Abacha American University of Nigeria, Nigeria

Title : Frame wok for industrial benchmarking in logistics centric activities through CRITIC analysis and KANO questionnaire

Oral presentation slots are available!!

William Mendes Godoy, University of Sao Paulo, Brazil

Title: Synthesis and evaluation of styrene-based polymeric resin for glycerol acetalization: Effect of crosslinkers on swelling and catalytic performance

Mikhail Petrovich Kashchenko, Ural Federal University, Russian Federation

Title: Fixation of atoms with increased masses, as a consequence of the existence of massive electron pairs - the basis of catalysis of low-temperature nuclear synthesis

Young Woo You, Korea Research Institute of Chemical Technology, Korea

Title: Microwave-enhanced CO₂ reforming with C₂⁺ gas mixture

Yong Soo Kim, University of Ulsan, Korea

Title: Multimode exciton-polaritons in self-assembled hybrid organic-inorganic perovskite microcavities

Mengstu Etay Ashebir, Institute of Atomic and Molecular Sciences Academia Sinica, Taiwan

Title: Electronic structure engineering of nickel single-atom catalyst by phosphorous for efficient electrocatalytic CO₂ reduction reaction in a proton-rich microenvironment

Sourav Halder, Indian Institute of Technology Kharagpur, India

Title: Optimization of Fe₃O₄ nanoparticles loading on reduced graphene oxide nanosheets for the efficient removal of aqueous p-nitroaniline and Cr(VI)

Mohammed El Amine Nouairi, Mustapha Stambouli University of Mascara, Algeria

Title: Study and development of a colored filter for the attenuation of harmful ultraviolet optical intensity

Makhloufi Mohamed Cherif, University of Boumerdes, Algeria

Title: Micro-wave synthesis of MnO₂ for high-performance supercapacitor application

A A Abduvayitov, Tashkent State Technical University, Uzbekistan

Title: Morphology, composition and electronic structure of the CdS thin films surface

Poster presentation slots are available!!
