AICCEC2025

Annual International Conference on

CHEMICAL ENGINEERING AND CATALYSIS

R

2nd World Summit on

ENVIRONMENTAL SCIENCE AND ENGINEERING

June 05-06, 2025 | Hôtel Mercure Paris 15 Porte de Versailles, Paris, France

AGENDA HIGHLIGHTS:

- Plenary Talks
- Keynote Talks
- Invited Talks
- Live Q&A sessions







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June 05, 2025 | Thursday

Meeting Room: Salon Saint-Lambert

09:00-09:15 09:15-09:30	Registrations & Badge Pick Up Introduction & Opening Ceremony
	PLENARY SESSION
Modera	tor: Greg Naterer , University of Prince Edward Island, Canada
09:30-10:10	Title: Design and Control of Catalytic Shells Monica Olvera de la Cruz, Northwestern University, USA
10:10-10:50	Title: The Sociotechnical Dynamics and Risks of Negative Emissions, Carbon Removal, and Solar Geoengineering Benjamin Sovacool, Boston University, USA
10:50-11:05	COFFEE BREAK
11:05-11:45	Title: Conversion of Waste to Energy and Resource: A Chemical Engineering Perspective Chi-Hwa Wang, National University of Singapore, Singapore
11:45-12:25	Title: Heterocatalytic activation of persulfate for organic pollutants degradation Zhimin Ao, Beijing Normal University, China
12:25-13:05	Title: The Sulfur Story: An Influencer Or Active Participant Tocarbon Surface Activity?
	Teresa J Bandosz, The City College of New York, USA
13:05-13:15	Group Photograph
13:15-14:20	LUNCH BREAK
14:20-15:00	Title: Toxic Legacies: Mercury, Arsenic & PFAS in a Changing Ocean
	Jörg Feldmann, University of Graz, Austria
15:00-15:40	Title: Abrupt Changes in the Pattern of the Global Sea Ice Cover Josefino Comiso, NASA/GSFC, USA
15:40-16:20	Title: Doing Power Differently: Harness Gender Empowerment to Achieve Climate Justice and Accelerate Sustainability Jin In, 4GGL, USA
16:20-16:45	Title: Integration of Thermochemical Hydrogen Production and
	Carbon Capture for Carbon Dioxide Recycling Greg Naterer, University of Prince Edward Island, Canada



BREAKOUT ROOM- Salon Blomet ENVIRONMENTAL SCIENCE	
	KEYNOTE TALKS
	Moderator: Tham C. Hoang , Auburn University, USA
09:30-10:00	Title: Green Safety System for Human Settlementsfrom the Perspective of the Garden City Movement in England Weimin Que, Peking University, China
10:00-10:30	Title: Sustainable and Environmentally Friendly Approaches to Monitoring the Entire Mining Life Cycle, Based on EO Data
	Ana Cláudia Teodoro, Universidade do Porto, Portugal
10:30-11:00	Title: Determining the Main Routes of Population Exposure to Environmental Nickel and Associated Metals: A Challenge in New Caledonia
	Peggy Gunkel-Grillon, University of New Caledonia, New Caledonia
11:00-11:15	COFFEE BREAK
11:15-11:45	Title: Historical Emissions of Fluorinated Gases: Implications for the Ozone Layer and Climate
	Xuekun Fang, Zhejiang University, China
11:45-12:15	Title: The Potential Role of Altered Sperm DNA Methylation in The Effects of Air Pollution Exposure on Semen Quality And Offspring Birth Outcomes: Evidence From A Cohort Study
	Wei Wu, Nanjing Medical University, China
12:15-12:45	Title: Recent developments of biometallurgy technologies for the recovery of critical metals
	Eric D. van Hullebusch, Université Paris Cité, France
12:45-13:15	Title: Environmental stressors and biological aging
	Cui Guo, The University of Hong Kong, Hong Kong
13:15-14:00	LUNCH BREAK
M	oderator: Peihao Wu , Nanjing Medical University, China
14:00-14:30	Title: From Regulation to Revolution: Paving the Road to 2050 in Clean Transport Policy
	Yoann Bernard, International Council on Clean Transportation, Germany

14:30-15:00	Title: EnviCrime in Europe: state of play, influence in other world regions and future José Antonio Alfaro Moreno, EUROPOL, The Netherlands
15:00-15:30	Title: Plastic pollution and management to support sustainability: where are we now? Tham C. Hoang, Auburn University, USA

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	INVITED TALKS
15:30-15:55	Title: Luminescence nanothermometry and high-contrast multi- surface imaging of latent fingerprints using nanophosphors Hendrik Swart, University of the Free State, South Africa
15:55-16:20	Title: Transforming Business: Redefining Profit-Driven Business Models for Sustainable Impact
	Adina - Iuliana Deacu, Research Institute for Sustainability (RIFS) Potsdam, Germany
16:20-16:35	COFFEE BREAK
16:35-17:00	Title: Controlled Field Study of Impact of Neonicotinoid Insecticides on Soil Environment Yadong Li, Jackson State University, USA
17:00-17:25	Title: Parental Exposure to Air Pollution and Adverse Birth Outcomes in Offspring: Insights from Two Cohorts Peihao Wu, Nanjing Medical University, China
	VIRTUAL KEYNOTE TALK
17:25-17:55	Title: Transitioning to sustainable and regenerative building materials: challenges of definitions and perceptions Emina Kristina Petrović, Victoria University of Wellington, New

END OF SESSION

Zealand

BREAKOUT ROOM-Salon Vaugirard | CHEMICAL ENGINEERING

PLENARY TALKS

Moderator: Julian Atilio Puszkiel, Helmholtz-Zentrum Hereon, Germany

09:30-10:10	Title: High-Entropy Oxide and Alloy Nanoparticles Synthesized by Continuous Supercritical Hydro/Solvothermal Flow Process
	Hiroshi Kitagawa, Kyoto University, Japan
10:10-10:50	Title: Carbon-Supported Catalysts for Food Waste Biorefinery
	Dan Tsang, Hong Kong University of Science and Technology, Hong Kong

10:50-11:05	COFFEE BREAK
	KEYNOTE TALKS
11:05-11:35	Title: Neuromorphic physical computation by molecular networks
	Takuya Matsumoto, Osaka University, Japan
11:35-12:05	Title: Liquid Crystal Self-Assembly of Positively Charged π- Electronic Molecules for Photocatalytic Applications
	Bin Mu, Northwestern Polytechnical University, China
12:05-12:35	Title: CO2 hydrogenation to methanol as a hydrogen carrier for sustainable low-carbon energy supply chain
	Jeffrey C. S. Wu, National Taiwan University, Taiwan
12:35-13:05	Title: Photocatalytic materials to optimize the use of solar resources
	Gael Plantard, University of Perpignan Via Domitia, France
13:05-14:00	LUNCH BREAK
14:00-14:30	Title: Development of hydride-based coupled systems for the hydrogen economy
	Julian Atilio Puszkiel, Helmholtz-Zentrum Hereon, Germany
14:30-15:00	Title: Predictive chemistry as a step forward in catalysis
	Albert Poater Teixidor, University of Girona, Spain
	INIVITED TALVO

INVITED TALKS

15:00-15:25 Title: Nanoscale electrode design for CO2 electrolysis and its application to DAC-U system

Miho Yamauchi, Kyushu University, Japan

15:25-15:50 Title: Design of ultra-low loading Pt-based defect catalyst for catalytic oxidation of CO in flue gas

Yongqi Zhao, Institute of Process Engineering, CAS, China

15:50-16:20	POSTER PRESENTATION
P001	Title: Two decades of high-pressure hydrogen solid-state storage research
	Farida Lamari, CNRS LSPM, University Sorbonne Paris Nord, France
P002	Title: Hydrogenation on Molybdenum Sulfide Clusters Encapsulated in Alkali Cation-Exchanged Zeolites
	Yunxiang Sheng, Technical University of Munich, Germany
16:20-16:45	AWARD CEREMONY & END OF CONFERENCE



****LOOKING FORWARD TO SEE YOU ALL AT NEXT EDITION****

NOTES

NEXT EDITION

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June 24-26, 2026 | Rome, Italy

3rd World Summit on

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