

ENVIRONSUMMIT2025

AICCEC2025

Annual International Conference on

**CHEMICAL ENGINEERING AND
CATALYSIS**

*&
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

FINAL PROGRAM



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- 09:00-09:15 Registrations & Badge Pick Up
- 09:15-09:30 Introduction & Opening Ceremony

PLENARY SESSION

Moderator: **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 To carbon Surface Activity?
Teresa J Bandoz, 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: 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

16:45-17:00

COFFEE BREAK & END OF DAY-1

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 Settlements ---from 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

Moderator: **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

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 TALK

- 17:25–17:50 Title: To be confirmed
Emina Kristina Petrović, Victoria University of Wellington, New Zealand

END OF SESSION

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

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****

This image shows a full page of a worksheet designed for handwriting practice. It features 18 evenly spaced, horizontal dashed lines that run across the entire width of the page. The background is plain white, providing a clear space for writing. There are no margins, text, or other markings on the page.

NEXT EDITION

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CHEMICAL ENGINEERING AND CATALYSIS

June 24-26, 2026 | Rome, Italy

3rd World Summit on

ENVIRONMENTAL SCIENCE AND ENGINEERING

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