

Final Program

CHEMPARIS2026

International Congress on Chemical Engineering and Chemistry

February 10-11, 2026 | Paris, France

Venue Address:

voco® | Paris – Porte de Clichy

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Hong Kong

09:00-09:30 Registrations and Badge Pickup

09:30-09:45 Welcome and Opening Remarks

Plenary Talks

Moderator: **Andrzej Mikuła**, AGH University of Krakow, Poland

09:45-10:25 Title: Digital chemistry – A trip to the blue

Stefan Bräse, *Karlsruhe Institute of Technology, Germany*

10:25-11:05 Title: Chemical and Membrane Engineering: The impact of process intensification and circularity principles in the net-zero CO2 emission energy sector

Adolfo Iulianelli, *National Research Council of Italy, Italy*

11:05-11:25

Networking and Coffee Break

11:25-12:05 Title: The Challenge of Developing Selective Drugs to Target the Endocannabinoid System

Mauro Maccarrone, *University of L'Aquila, Italy*

12:05-12:45 Title: Digitalizing Materials Research: Insights from Designing Metal-Organic Frameworks for Advanced Optoelectronic Applications

Christof Wöll, *Karlsruhe Institute of Technology, Germany*

12:45-13:25 Title: Intensification and Electrification of Flow Chemistry

Thomas Writh, *Cardiff University, UK*

13:25-14:15

Group Photograph followed by Lunch @ Restaurant

14:15-14:55 Title: Multiple Ways to Inhibit tRNA-Guanine Transglycosylase: A Target to Fight Shigellosis

Gerhard Klebe, *Philipps-University of Marburg, Germany*

14:55-15:35 Title: Catalysis for Carbon Neutrality: CO2 and SO2 Conversion Using Non-thermal Plasma Coupled with Heterogeneous Catalysis

Chunshan Song, *The Chinese University of Hong Kong, China*

Keynote Talks

15:35-16:05 Title: Reaction Optimization through Mechanistic Insight and Predictive Modelling

Albert Poater, *University of Girona, Spain*

16:05-16:20 Networking and Coffee Break

16:20-16:50 Title: Innovations to Improve Rare Earth Elements Separations
Michael L. Free, *University of Utah, USA*

16:50-17:20 Title: Essential per- and polyfluoroalkyl substances (PFAS) in our society of the future
Rudolf Dams, *RDC, Belgium*

17:20-18:00 Title: Metal Hydrides from Nano to Macro: Disruptive Science for Materials-Based Energy Storage and Conversion
Mark Allendorf, *Washington University in St. Louis, USA*

VIRTUAL

End of Day-1

DAY-2

FEBRUARY 11, 2026

MEETING ROOM: SAFRAN 2

Keynote Talks

Moderator: **Hesam Rabiee**, *University of Bern, Switzerland*

10:00-10:30 **Title:** Intensified Processes for Renewable Hydrogen Production
Maria C. Iliuta, *Université Laval, Québec, Canada*

10:30-11:00 Title: Recovery of Pure H₂ and Other Valuable Gases Using Membrane Separation: A Techno-Economic Analysis
Pasquale Francesco Zito, *CNR-ITM, Italy*

11:00-11:15 Networking and Coffee Break

11:15-11:45 Title: Fluorescent Biosensor-Guided Engineering of Metabolic Enzymes for Electrochemical Applications
Ming Chen Hammond, *University of Utah, USA*

Invited Talks

11:45-12:10 Title: Manufacturing of metallic micro process devices and corrosion aspects - view of a material scientist considering different aspects
Thomas Gietzelt, *Karlsruhe Institute of Technology, Germany*

12:10-12:35	<p>Title: Development of Pentlandite-Based Electrocatalysts for Acidic Hydrogen Evolution Reaction: Composition–Structure–Activity Relationships</p> <p>Andrzej Mikuła, <i>AGH University of Krakow, Poland</i></p>
12:35-13:00	<p>Title: New Generation of Carbon Materials as Amendments and Adsorbents for Contaminated Water and Soil: Sucrose-based Carbon Foams</p> <p>Maria Antonia López Antón, <i>Instituto de Ciencia y Tecnología del Carbono (INCAR), Spain</i></p>
13:00-14:00	Lunch Break @ Restaurant
14:00-14:25	<p>Title: Integrating CO₂ Capture with Electrolysis within the Electrode</p> <p>Hesam Rabiee, <i>University of Bern, Switzerland</i></p>
14:25-14:50	<p>Title: Use of Iron-Based Materials and Engineered Persulfate Systems Toward Industrial Effluent Treatment: A Circularity Approach</p> <p>Antoine Ghauch, <i>American University of Beirut, Lebanon</i></p>
14:50-15:15	<p>Title: Generation of a Green Construction Material from Recycle of Paper Mill Sludge & Data Analysis via Statistics</p> <p>Wei-Ting Chen, <i>Mary's Junior College of Medicine, Taiwan</i></p>
15:15-16:30	Poster Presentations
P001	<p>Title: Techno-Economic Evaluation of Integrated Zero Liquid Discharge systems for Seawater Desalination</p> <p>Sunwoo Kim, <i>Yonsei University, South Korea</i></p>
P002	<p>Title: Techno-Environmental Evaluation of Hydrogen Production in Australia under Net Zero Policy Frameworks</p> <p>DongHyun Kim, <i>Yonsei University, South Korea</i></p>
P003	<p>Title: Multi-Period Optimization of Liquefied Hydrogen Supply Chain: Infrastructure Expansion and Distribution Strategy</p> <p>Choi HYUNJUN, <i>Yonsei University, South Korea</i></p>
P004	<p>Title: Domain-Informed Machine Learning Modeling for Predicting CO₂ Absorption Properties of Blended Amines</p> <p>MinJae Kim, <i>Yonsei University, South Korea</i></p>
P005	<p>Title: Hybrid-Quantum Neural Network for Enhancement of Generalization Ability in Lubricant Recipe Feature Prediction</p> <p>Chanho Kim, <i>Yonsei University, South Korea</i></p>

- P006 Title: Insights into the porous materials as well as the methodologies
Implementation of theoretical and experimental means to better meet practical
hydrogen storages targets
Farida Lamari, *Université Sorbonne Paris Nord, France*
- P007 Title: Online neutralization promotes water dissociation equilibrium forward in
bipolar membranes to achieve 9.2 mol/L NaOH production
Shuang Wu, *University of Science and Technology of China, China*
- P008 Title: Alkaline-resistant covalent organic framework membranes for selective
hydroxide ion separation
Yuan Xia, *University of Science and Technology of China, China*
- P009 Title: Formation of TM₃Se₄ Multi-Metallic Selenide Thin Films via Electrophoretic
Deposition
Tomasz Kurek, *AGH University of Krakow, Poland*
- P010 Title: Photocatalytic Degradation of 3 Ubiquitous Plastics in Batch Reactor
Danilo Bertagna Silva, *University of Lisbon, Portugal*
- P011 Title: Material Recovery from Composite Waste in a Circular Economy Framework
Sebastian Werle, *Silesian University of Technology, Poland*

16:30-17:00

Certificate Presentation & End of Conference



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

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NEXT EDITION

CHEMLISBON2027

2nd International Congress on Chemical Engineering and Chemistry

February 22-24, 2027 | Lisbon, Portugal

See you in Lisbon!!

