SYNERGIA SUMMITS
...fostering collaborations

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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DAY-1

FEBRUARY 10, 2026

MEETING ROOM: SAFRAN 2

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

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 Title: Development of Pentlandite-Based Electrocatalysts for Acidic Hydrogen Evolution Reaction: Composition–Structure–Activity Relationships

Andrzej Mikuła, *AGH University of Krakow, Poland*

12:35-13:00 Title: New Generation of Carbon Materials as Amendments and Adsorbents for Contaminated Water and Soil: Sucrose-based Carbon Foams

Maria Antonia López Antón, *Instituto de Ciencia y Tecnología del Carbono (INCAR), Spain*

13:00-14:00 Lunch Break @ Restaurant

14:00-14:25 Title: Integrating CO2 Capture with Electrolysis within the Electrode

Hesam Rabiee, University of Bern, Switzerland

14:25-14:50 Title: Use of Iron-Based Materials and Engineered Persulfate Systems Toward Industrial Effluent Treatment: A Circularity Approach

Antoine Ghauch, *American University of Beirut, Lebanon*

14:50-15:15 **Title:** Generation of a Green Construction Material from Recycle of Paper Mill Sludge & Data Analysis via Statistics

Wei-Ting Chen, *Mary's Junior College of Medicine, Taiwan*

15:15-16:30 **Poster Presentations**

P001 Title: Techno-Economic Evaluation of Integrated Zero Liquid Discharge systems for Seawater Desalination

Sunwoo Kim, *Yonsei University, South Korea*

P002 Title: Techno-Environmental Evaluation of Hydrogen Production in Australia under Net Zero Policy Frameworks

DongHyun Kim, *Yonsei University, South Korea*

P003 Title: Multi-Period Optimization of Liquefied Hydrogen Supply Chain: Infrastructure Expansion and Distribution Strategy

Choi HYUNJUN, *Yonsei University, South Korea*

P004 Title: Domain-Informed Machine Learning Modeling for Predicting CO2 Absorption Properties of Blended Amines

MinJae Kim, *Yonsei University, South Korea*

P005 Title: Hybrid-Quantum Neural Network for Enhancement of Generalization Ability in Lubricant Recipe Feature Prediction

Chanho Kim, *Yonsei University, South Korea*

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*
P012	Title: Macromolecular Engineering Approaches Towards Advanced Polymer Mixed Ionic/Electronic Conductors For Solid-State Li-Metal Batteries **Seongwoo Jeong,** *Sungkyunkwan University, South Korea*

16:30-17:00	**Certificate Presentation & End of Conference**



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

NOTES

NEXT EDITION

CHEMLISBON2027

2nd International Congress on Chemical Engineering and Chemistry

February 22–24, 2027 | Lisbon, Portugal

See you in Lisbon!!

