



## 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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**Prof. Jung-Chang Wang**

National Taiwan Ocean University, Taiwan

**Prof. Walid A. Daoud**

City University of Hong Kong, 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 CO<sub>2</sub> 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 Wirth**, *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: CO<sub>2</sub> and SO<sub>2</sub> 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 H<sub>2</sub> 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 CO<sub>2</sub> 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 CO<sub>2</sub> 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*

16:30-17:00

## Certificate Presentation & End of Conference



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

## NOTES

**NEXT EDITION**

# **CHEMLISBON2027**

2<sup>nd</sup> International Congress on Chemical Engineering and Chemistry

**February 22-24, 2027 | Lisbon, Portugal**

See you in Lisbon!!

