



Università
di Brescia

1-2 October 2026
Sala Consigliare, Via Branze 38, Brescia

WORKSHOP

ChemEng Topics 2026

International Workshop on Solid Oxide Cells, Electrolysis & CO₂/H₂ Valorisation

DAY 1 · THURSDAY 1 OCTOBER

14:00–14:50 Registration

14:50–15:00 Welcome & Introduction

SESSION 1 — Electrolysis Horizons: Innovation in Materials and Technologies

15:00–15:30 **Prof. M. P. Carpanese / Prof. E. Finocchio** — Univ. di Genova
“High-temperature electrolysis for seawater-based hydrogen production: materials and technology challenges in PROMETH2eus”

15:30–15:50 **Dr. Ángela Moratalla Tolosa** — CNH2
“Research on Solid Oxide Cells and Materials at CNH2”

15:50–16:10 Coffee break

16:10–16:30 **Dr. Miguel A. Laguna Bercero** — CSIC / Univ. Zaragoza
“Advanced electrode compositions for Solid Oxide Cells and devices”

16:30–16:50 **Prof. Irene Vassalini** — Università di Brescia
“Towards Sustainable Water Splitting: Precious Metal-Free Electrocatalysts for OER and HER”

16:50–17:10 Discussion

17:10–17:30 CEEP Lab Visit



Register here

Scan the QR code or visit Eventbrite to reserve your seat

DAY 2 · FRIDAY 2 OCTOBER

SESSION 2 — H2 Meets CO₂: Valorisation Pathways to New Products

9:30–9:50 **Prof. Haresh Manyar** — Queen's Univ. Belfast
“Turning Carbon into Value: A Catalytic Journey from CO₂ and H₂ to Sustainable Products”

9:50–10:10 **Prof. G. Garbarino / Prof. P. Riani** — Univ. di Genova
“Evaluation of a Flexible CO₂ Hydrogenation Plant Integrated with a Seawater-Fed SOEC for e-Methanol Synthesis”

10:10–10:30 **Prof. Maria A. Goula** — UOWM
“Catalyst Engineering for CO₂ Valorisation with Green H₂”

10:30–10:50 **Dr. Ander Centeno Pedraza** — CIC energiGUNE
“Plastic waste valorization to clean H₂ and decarbonized chemicals through catalytic deconstruction (WASTE2H₂)”

10:50–11:10 Discussion

11:10–11:30 Coffee break

SESSION 3 — Scaling Up Electrolysis: From Process Integration to Industrial Deployment

11:30–11:50 **Prof. Michele Mascia** — Università di Cagliari
“Coupling High-Temperature Solid Oxide Electrolysis with Wastewater Treatment for Energy and Resource Circularity”

11:50–12:10 **Dr. Fabrizio Gualandris** — CEO, Hydrosark
“Innovative Manufacturing Processes for Low-Cost, High-Performance SOCs: From Laboratory Results to Industrial Deployment”

12:10–12:30 **Dr. Roberto Campana Prada** — CNH2
“CNH2 capabilities for the integration of SO systems with fuel synthesis”

12:30–12:50 Discussion

12:50–13:00 **Closing Remarks**