

CeCaS HUGE Workshop Agenda

Monday 31 May

Time zone: 09:25 - 17:30 AE / 04:25 - 13:30 UTC / 06:25 – 15:30 CET

Workshop Inauguration

- 9:25-9:30 AE **Opening Remarks**
- 9:30-9:40 AE **Khalifa University Research Ecosystem: Towards Hydrogen Economy**
Prof. Steve Griffiths, Senior Vice President, Research & Development, Khalifa University of Science and Technology, United Arab Emirates.
- 9:45-9:55 AE **Catalysis & Separations: Emerging Opportunities in The Hydrogen Economy**
Prof. Kyriaki Polychronopoulou, Director of Center for Catalysis and Separation (CeCaS), Khalifa University of Science and Technology, United Arab Emirates.

Technical Presentations

- 10:00- 10:45 AE **Solar Hydrogen from Artificial Photosynthesis (Photocatalysis)**
Dr. Yun Hau NG, School of Energy and Environment, Catalysis for Alternative & Renewable Energy (CARE) Laboratory, City University of Hong Kong, Hong Kong.
- 10:45-10:55 AE Short Break (10 minutes)
- 11:00-11:45 AE **Multi-scale Modelling Simulations in Simultaneous Catalyst/Reactor Design for Chemical Hydrogen Storage**
Prof. Blaž Likozar, Department of Catalysis and Chemical Reaction Engineering, National Institute of Chemistry, Slovenia.
- 11:50-12:15 AE **Green Hydrogen Technology Materials Prospective, and Regional Importance**
Dr. Ahsan Ul Haq Qurashi, Department of Chemistry, Khalifa University of Science and Technology, United Arab Emirates.
- 12:15-13:15 AE Lunch Break (60 minutes)
- 13:20-14:05 AE **Solar Hydrogen Production by Thermo/Photo-Chemical Decomposition of H₂S**
Dr. Khalid Al Ali, Department of Chemical Engineering, Research and Innovation Center on CO₂ and H₂ (RICH), Center for Catalysis and Separation (CeCaS), Khalifa University of Science and Technology, United Arab Emirates.
- 14:10-14:55 AE **Operando Transmission Electron Microscopy: Dynamic Gas Flow for Catalytic Applications**
Dr. Alessandro Genovese, Core Laboratories, King Abdullah University of Science and Technology (KAUST), Kingdom of Saudi Arabia.

Technical Presentations (cont.)

- 14:55-15:05 AE Short Break (10 minutes)
- 15:10-15:55 AE **Computational Tools to Investigate Hydrogen Release and Dispersion During Production and Storage**
Dr. Abdallah Berrouk, Department of Mechanical Engineering, Center for Catalysis and Separation (CeCaS), Khalifa University of Science and Technology, United Arab Emirates.
- 16:00-16:25 AE **Energy Efficient Processes for Carbon Removal Towards Blue Fuels: Research Advances in Adsorption and Membrane Technologies**
Dr. Georgios Karanikolos, Center for Catalysis and Separation (CeCaS), Research and Innovation Center on CO₂ and H₂ (RICH), Center for Membrane and Advanced Water Technologies (CMAT), Khalifa University of Science and Technology, United Arab Emirates.
- 16:30-17:15 AE **Hydrogen Energy: Purification and Detection**
Dr. Mikhael Bechelany, European Institute of Membranes, IEM-UMR 5635, University of Montpellier, CNRS, ENSCM, France.
- 17:15-17:30 AE **Closing Remarks**