

PROGRAM

FRIDAY, OCT 6

TIME CONTENT

- 8.30 **Welcome**
Dr. Sebastian Fendt (Technical University of Munich, Germany / TUM REDEFINE H₂E)
- 8.45 **Session e-Gas II – Enhanced gasification approaches**
Prof. Kentaro Umeki (Lulea University of Technology, Sweden / TUM REDEFINE H₂E)
Gasification of biomass in plasma
Dr. Andrius Tamosiunas (Lithuanian Energy Institute, Lithuania / TUM REDEFINE H₂E)
Experiences of hydrogen-rich syngas from various feedstocks using thermal arc plasma gasification
Dr. Zach El Zahab (GTI Energy, USA)
R-GAS: A unique approach for entrained flow gasification
Dr. Massimiliano Materazzi (University College London, England)
Plasma-assisted gasification of waste biomass for hydrogen production: pilot and semi-commercial plant demonstration
- 10.15 **BAVARIAN BREAKFAST // POSTER SESSION II**
- 11.15 Dr. Aleksandra Kiedrzyńska & Dr. Robert Lewtak (Institute of Power Engineering, Poland / TUM REDEFINE H₂E)
Optimization of the plasma-assisted gasification process in an entrained-flow gasifier through CFD simulations
Dr. David Harris (Commonwealth Scientific and Industrial Research Organisation, Australia)
Hydrogen as a renewable energy carrier: Leveraging technologies and infrastructure to decarbonise global energy systems
- 12.00 **Session BioCat II – (Electro-)Biocatalysis in a hydrogen context**
Prof. Inês Cardoso Pereira (Universidade NOVA de Lisboa, Portugal)
Hydrogen production by enzyme and whole cell biohybrid systems
Prof. Nicolas Plumeré (Technical University of Munich, Germany)
Hydrogenases as catalysts in fuel cells and electrolyzers
- 12.45 **BREAK // POSTER SESSION III**
- 13:15 **Session SLAM II – Hydrogen economy**
Dr. Daniel Cenk Rosenfeld (Vienna University of Technology, Austria / TUM REDEFINE H₂E)
The role of life cycle assessments in H₂ research
Prof. Svetlana Ikonnikova (Technical University of Munich, Germany)
The role of transportation and its CO₂ footprint in the H₂ market dynamics
Dr. Simon Pichlmaier (FfE, Germany)
How can science support the market ramp-up of hydrogen
- 14.30 **Symposium wrap-up and closing remarks**