PROGRAM
THURSDAY, OCT 5

TIME       CONTENT

8.30       Welcome
Dr. Sebastian Fendt (Technical University of Munich, Germany / TUM REDEFINE H₂E)

8.35       Keynotes
Prof. Frank Sargent (Newcastle University, England)
Hydrogenases: enzymes of the past, enzymes of the future
Dr. Sebastian Fendt (Technical University of Munich, Germany / TUM REDEFINE H₂E)
Electrification of biomass-to-X processes

9.45       BREAK // POSTER SESSION I

10.15      Session e-Gas I – Plasma applications in a hydrogen context
Prof. Sylvain Coulombe (McGill University, Canada)
Plasma for H₂: Current state, opportunities and challenges
Prof. Dirk Uhrlandt (Leibniz Institute for Plasma Science and Technology, Germany)
Experimental studies of arcs in H₂ containing gases
Dr. Ante Hecimovic (Max Planck Institute for Plasma Physics, Germany)
Plasma technology for H₂ production and storage
Prof. Martin Gräbner (Technische Universität Bergakademie Freiberg, Germany)
Options of plasma-assisted gas production from secondary feedstock
Prof. Kevin J Whitty (University of Utah, USA)
Effective conversion of heterogenous materials into hydrogen using robust high temperature gasification

12.30      LUNCH BREAK

13.30      Session BioCat I – Biocatalysis in a hydrogen context
Prof. Helmut Schwab (Graz University of Technology, Austria)
Production of single cell protein from CO₂ and hydrogen by efficient gas fermentation - pilot scale studies
Dr. Ammar Al-Shameri (Technical University of Munich, Germany / TUM REDEFINE H₂E)
Green hydrogen a by-product of sugar oxidation in cell-free systems

14.20      Keynote
Dr. Murphy Peksen (Technical University of Munich, Germany / TUM REDEFINE H₂E)
Multiscale-multiphysics modelling of SOC - materials, components and systems

14.50      Session SLAM I – Systemic views on hydrogen
Andrew Steinhubl (Center for Houston’s Future, USA)
The future of hydrogen in the Houston energy system
Joram Wasserfall (Society for the Advancement of Applied Computer Science, Germany)
Hydrogen in communal systems
Prof. Gilberto Jannuzzi (State University of Campinas, Brazil)
Advancement of renewables and hydrogen in the Brazilian energy matrix up to 2050

16.00      Closing remarks

17.30      Munich City Tour

19.00      Dinner – Augustiner Klosterwirt (City Center)