PROGRAM THURSDAY, OCT 5

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TIME	CONTENT
8.30	Welcome <u>Dr. Sebastian Fendt</u> (Technical University of Munich, Germany / TUM REDEFINE H ₂ E)
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 H ₂ E) 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 CO ₂ and hydrogen by efficient gas fermentation - pilot scale studies Dr. Ammar Al-Shameri (Technical University of Munich, Germany / TUM REDEFINE H ₂ E) Green hydrogen a by-product of sugar oxidation in cell-free systems
14.20	Keynote <u>Dr. Murphy Peksen</u> (Technical University of Munich, Germany / TUM REDEFINE H ₂ E) 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

Dinner - Augustiner Klosterwirt (City Center)

19.00