12th Energy Colloquium of the Munich Institute of Integrated Materials, Energy and Process Engineering (MEP)

Turning points in the energy transition: Setting the course for the next decades

28th July 2022
TUM Entrepreneurship Research Institute, Garching-Forschungszentrum

Program

08:30 – 09:00 Registration & Poster hang-up

09:00 – 09:15 Opening
Prof. Dr. Thomas Hamacher
Munich Institute of Integrated Materials, Energy and Process Engineering, TUM

09:15 – 09:45 Keynote
Destination: Climate Neutrality – Navigating Theory and Practice
Moritz Limbacher
Dena (Deutsche Energie-Agentur)

09:45 – 10:45 Cross-Scale - Energy Management and Grids
Chair: Prof. Dr.-Ing. Andreas Jossen, Institute for Electrical Energy Storage Technology, TUM
Techno-Economic Analysis of Intercontinental Electricity Grids with Future European Energy System
Thushara Addanki, Chair of Renewable and Sustainable Energy Systems, TUM
A Simplified Microgrid Architecture with Reduced Number of Measurement Units
Prashant Pant, Chair of Renewable and Sustainable Energy Systems, TUM
Energy Management in Neighborhoods – A digital Platform Solution
Thomas licklederer, Munich Institute of Integrated Materials, Energy and Process Engineering, TUM

10:45 – 10:55 Coffee Break

10:55 – 12:25 Poster Session 1

12:25 – 13:30 Lunch Break

13:30 – 14:00 Keynote
The Potential of Waste Heat Recovery from Industry in Europe – an ORC Perspective
Dr.-Ing. Christoph Wieland
Chair of Energy Systems, TUM

14:00 – 15:00 Innovative Materials and Methods for Energy Solutions
Chair: Prof. Dr. Peter Müller-Buschbaum, Chair of Functional Materials, TUM
In Situ Investigation of Thermoelectric Thin Films Based on Ionic Liquid Post-Treated PEDOT:PSS
Anna Lena Oechslie, Chair of Functional Materials, TUM
Non-Uniform Lithium Distribution in 18650-Type Lithium-Ion Battery During Dis-/Charging
Dominik Petz, Chair of Functional Materials, TUM
Manufacturing of New Uranium Fuel for FRM II Conversion
Kevin Buducan, Research Neutron Source FRM II, TUM

15:00 – 16:30 Poster Session 2

16:30 – 16:40 Coffee Break

16:40 – 17:10 Keynote
Hydrogen as an important factor to support the energy transition
Dr. Stefan Spindler
CEO Industrial Schaeffler AG

17:10 – 17:50 Analytical Insights on Future Fuels
Chair: Prof. Dr.-Ing. Hartmut Spleithoff, Chair of Energy Systems, TUM
Tobias Netter, Chair of Energy Systems, TUM
In-Situ Identification of Electrocatalytically Active Areas on Palladium Using Electrochemical Scanning Tunneling Microscopy
Thorsten O. Schmidt, Professorship of Physics of Energy Conversion & Storage, TUM

17:50 – 18:10 Award & Closing Ceremony

18:10 – 19:00 Socializing

More details: www.mep.tum.de
Registration:
Queries: colloquium@mep.tum.de

Location:
TUM Entrepreneurship Research Institute
Lichtenbergstr. 6
85748 Garching b. München

Register until 20th July 2022