Munich Institute of Integrated Materials, Energy and Process Engineering (MEP)



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





Register until 20th 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)

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

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 Architechture 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

In Situ Investigation of Thermoelectric Thin Films Based on Ionic Liquid Post-**Treated PEDOT:PSS** Anna Lena Oechsle, 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

12:25 – 13:30 Lunch Break

Chair: Prof. Dr.-Ing. Hartmut Spliethoff, Chair of Energy Systems, TUM



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More details: www.mep.tum.de

Registration:



Queries:

colloquium@mep.tum.de

Insights into Current and Future Experimental Investigation of Conventional and Plasma-Assisted Solid Fuel Entrained Flow Gasification 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