Munich School of Engineering

Prof. Dr. Dr. h.c. mult. Herrmann,
Prof. Dr. Hamacher, Prof. Dr.-Ing. Adams,
Prof. Dr. Gasteiger, Prof. Dr.-Ing. Lang,
Prof. Dr.-Ing. Lienkamp, Prof. Dr. Müller-Buschbaum,
Prof. Dr.-Ing. Spliethoff, Prof. Dr.-Ing. Wall

Technische Universität München

5th Energy Colloquium of the Munich School of Engineering Innovations for Energy Systems, Mobility, Buildings and Materials

09.07.2015 – 8.30 am to 9.00 pm

8.30 - 9.00 am Registration

9.00 - 9.15 am Opening Klaus Diepold, Senior Vice President TUM Thomas Hamacher, Director Munich School of Engineering

9.15 - 9.45 am Keynote: The Energiewende as a Business Case Clemens Hoffmann, Director Fraunhofer Institute for Wind Energy and Energy System Technology (IWES)

9.45 - 11 .00 am Session Chair: Markus Lienkamp, WZE MSE 2.50 - 4.05 pm Session Chair: Peter Müller-Buschbaum, NRG MSE

Optimization of Carbon Nanotubes Networks for Organic Photovoltaics by Femtosecond Laser Structuring Jürgen Sotrop, Institute for Nanoelectronics in cooperation with University of Applied Sciences Munich

Metal Cluster Semiconductor Hybrid Materials in Photocatalysis for Chemical Energy Conversion Constantin Walenta, Chair of Physical Chemistry

Hybrid Thermoelectrics Based on a Polymer-Nanoparticle Composite Nitin Saxena, Chair of Functional Materials

Energy Storage System Management and Design Space Exploration of Public Electric Vehicle Charging Stations Sangyoung Park, Institute for Real-Time Computer Systems

From Model Surfaces to Nanostructured Catalysts for Oxygen Electroreduction in Fuel Cells Viktor Colic, Physics of Energy Conversion and Storage

Visio.M - Light Vehicle Concept for Urban Electric Mobility Patrick Stenner, Institute of Automotive Technology

11.00 - 11.45 am Poster Presentation, Coffee Break

11.45 - 1.00 pm Session Chair: Werner Lang, ZNB MSE

Design-Engineering-Based and Material-Based Improvement of Precast Concrete Facade Elements Matthias Pätzold, Chair of Building Construction and Material Science 4.05 - 4.50 pm Poster Presentation, Coffee Break

4.50 - 6.05 pm Session Chair: Hartmut Spliethoff, CPG MSE

Heat Transfer at Supercritical Pressures in Power Applications - Physics and Experimental Methods Gerrit Schatte, Institute for Energy Systems

Optimal Planning of Urban Infrastructure Networks for Multiple Energy Carriers Johannes Dorfner, Institute for Renewable and Sustainable Energy Systems

Small-Scale Wind Turbine Systems with Efficient and Inexpensive Generator Topology for Micro-Grids Christoph Hackl, Research Group MSE

6.05 - 6.35 pm Keynote: Building and Energy Research in Singapore Priya Pawar, Energy Research Institute, Nanyang Technological

Non-Residential Buildings - Modelling the Long-Term Devel-
opment of Energy DemandUniversity, SingaporeLaura Franke, Center for Sustainable Building6.35 - 6.50 pm

The CityGML Energy ADE - An International Standardization Effort for the Extension of 3D City Models to Support Energetic Building Analysis Robert Kaden, Chair of Geoinformatics

1.00 - 2.30 pm Poster Presentation, Lunch Break

2.30 - 2.50 pm Teaching at MSE Nikolaus A. Adams, Dean for Academic Affairs MSE 6.35 - 6.50 pm Summary of the Day

6.50 - 9.00 pm Poster and Presentation Award, Colloquium Dinner

Location: TUM – Institute for Advanced Study, Garching

Registration: http://www.mse.tum.de