“Research towards innovative energy systems and materials”

04.07.2013 – 8.30 am to 9.00 pm

8.30 - 9.00 am
Registration

9.00 - 9.15 am
Opening
Thomas Hamacher, Director Munich School of Engineering

9.15 - 9.45 am
Keynote: Shale Gas Revolution
Olaf Martins, ExxonMobil

9.45 - 11.00 am
Session Chair: Hartmut Spiethoff, CPG MSE
Flexible Power and Synthesis Plant Concepts with Integrated Chemical Power Storage
Alexander Buttler, Institute for Energy Systems

Explosive Combustion of Stratified Hydrogen-Air Mixtures - Experimental Observations and Conclusions for Safety Applications
Lorenz Böck, Chair for Thermodynamics

Table-top Electron-beam Induced Plasma Chemistry
Andreas Hilmsl, Chair for Experimental Physics

11.00 - 11.45 am
Poster Presentation, Coffee Break

11.45 - 1.00 pm
Session Chair: Werner Lang, ZNB MSE
Processes for the Gasification of Biomass and Current Developments
Markus Ulbrich, Chair for Energy Systems

Smart Grid Simulation
Christoph Doblander, Chair for Application and Middleware Systems

Heat Consumption Analysis on a City Scale
Peter Böhme, Institute for Energy Economics and Application Technologies

1.00 - 2.30 pm
Poster Presentation, Lunch Break

2.30 - 3.45 pm
Session Chair: Peter Müller-Buschbaum, NRG MSE

Large-Scale Spray Deposition of Functional Materials for Photovoltaics
Alaa Abdelrahim, Institute for Nanoelectronics

Alternative Supports for Applications in Electrocatalysis: Ethanol Oxidation on Pt/TiOxCy
Celine Rüdiger, Institute of Advanced Study

Highly Conductive PEDOT:PSS as Electrode for Flexible Structured ITO-free Organic Electronics
Claudia M. Palmambini, Chair of Functional Materials

3.45 - 4.30 pm
Poster Presentation, Coffee Break

4.30 - 5.45 pm
Session Chair: Markus Lienkamp, WZE MSE

Greenhouse Gas Emissions from Induced Impacts in the Built Environment
John E. Anderson, Institute for Energy Efficient Building and Design

A Need- and Willingness-based Approach for Online Electric Vehicle Charging Control
Victor del Razo, Chair for Application and Middleware Systems

Power Systems Research – Why we Should Cooperate
Herbert Mangesius, Institute for Information-Oriented Control; Matthias Huber, Institute for Energy Economics and Application Technologies

5.45 - 6.00 pm
Summary of the Day

6.00 - 6.45 pm
Keynote: Climate Science - What Do We Know About Past, Current and Future Climate Change?
Janina Körper, Freie Universität Berlin

6.45 - 9.00 pm
Poster and Presentation Award, Colloquium Dinner

Registration:
http://www.mse.tum.de free for TUM-Members

Location:
TUM – Institute for Advanced Study, Garching