

**Minisymposium: Smart and Active Assemblies for Catalysis**  
**23–24 September 2013**

Johannes-Wislicenus-Lecture Hall (015), Faculty of Chemistry and Mineralogy,  
Johannisallee 29, 04103 Leipzig

**Agenda**

**Monday, 23 September 2013**

*Chair: Prof. Dr. Evamarie Hey-Hawkins*

9.00–9.10 Prof. Dr. Evamarie Hey-Hawkins  
(University of Leipzig, Germany)  
*Opening Remarks*

9.10–9.55 Ass. Prof. Jarl Ivar van der Vlugt  
(University of Amsterdam, The Netherlands)  
*Design of Reactive Ligands for Cooperative Activation of Small Molecules*

9.55–10.40 Prof. Dr. Andrey Karasik  
(Russian Academy of Sciences, Kazan, Russia)  
*Novel Phosphino Amino Pyridines for Construction of Biomimetic Catalysts for Hydrogen Economy*

10.40–11.10 *Coffee Break*

*Chair: Ass. Prof. Jarl Ivar van der Vlugt*

11.10–11.55 Prof. Dr. Anne-Marie Caminade  
(Laboratoire de Chimie de Coordination du CNRS, Toulouse, France)  
*Smart Nano-objects for Catalysis: Dendrimeric Catalysts*

11.55–12.15 MSc Paul Neumann  
(University of Leipzig, Germany)  
*Dendritic ferrocenyl phosphanes in redox-switchable catalysis*

12.15–13.00 Prof. Dr. Dieter Vogt  
(University of Edinburgh, UK)  
*Building Catalysts with Molecules and Nano-objects –  
From Molecules to Processes*

13.00–14.15 *Lunch Break*

Chair: Prof. Dr. Roger Gläser

14.15–15.00 Prof. Dr. Regina Palkovits (represented by Dr. Peter Hausoul)  
(RWTH Aachen, Germany)  
*Heterogeneous Catalysis and Renewable Feedstocks –  
A Combination for the Future*

15.00–15.45 Dr. Katrin Mackenzie  
(Helmholtz Centre for Environmental Research – UFZ, Germany)  
*Nanomaterials as Adsorbents, Reagents and Catalysts for Water Treatment*

15.45–16.05 Dr. Jennifer Strunk  
(Ruhr-Universität Bochum)  
*Transition Metal Oxides in Mesoporous Silica: Structural Characterization,  
Adsorption and Photocatalysis*

16.05–16.35 Coffee Break

Chair: Prof. Dr. Paul Wright

16.35–17.20 Prof. Dr. Martin Schröder  
(University of Nottingham, UK)  
*Porous Metal-Organic Materials for Gas Storage and Selectivity*

17.20–18.05 Prof. Dr. Russell Morris  
(University of St Andrews, UK)  
*Manipulating Zeolites and MOFs for Application*

18.10–20.00 Poster Session (with Drinks and Fingerfood)

## **Tuesday, 24 September 2013**

Chair: Prof. Dr. Martin Schröder

9.00–9.45 Prof. Dr. Paul Wright  
(University of St Andrews, UK)  
*Designed Synthesis, Adsorption and Catalytic Performance of Structurally  
Flexible MOFs and Zeolites*

9.45–10.30 Prof. Dr. Harald Horn  
(Karlsruhe Institute of Technology, Germany)  
*Sorption of magnetic nanoparticles on biofilm structures and identification  
with MRI*

10.30–11.00 Coffee Break

Chair: Prof. Dr. Gregory Lowry

- 11.00–11.45 Prof. Dr. Petra de Jongh  
(Utrecht University, The Netherlands)  
*The Impact of Collective Properties on the Stability of Supported Nanoparticles for Catalytic and Sustainable Energy Applications*
- 11.45–12.05 Dr. Alina M. Balu  
(Aalto University, Finland)  
*Novel mechanochemical synthesis of magnetic functionalized mesoporous SBA-15 nanocomposites*
- 12.05–12.50 Prof. Dr. Vera Meynen  
(University of Antwerp, Belgium)  
*Controlled synthesis of multimodal materials, creating designed materials properties for catalysis*

12.50–14.00 *Lunch Break*

Chair: Prof. Dr. Vera Meynen

- 14.00–14.20 Jasper Lefevre  
(Flemish Institute for Technological Research (VITO N.V.) and University Antwerp, Belgium)  
*Synthesis of hierarchically porous ZSM-5 catalyst for methanol-to-olefins*
- 14.20–15.05 Prof. Dr. Martin Muhler  
(Ruhr-Universität Bochum, Germany)  
*Carbon Nanotubes – Synthesis, Functionalization, and Applications in Heterogeneous Catalysis*
- 15.05–15.50 Dr. Adrian M. T. Silva  
(University of Porto, Portugal)  
*Carbon-based Materials as Catalysts for Water Treatment*

15.50–16.20 *Coffee Break*

Chair: Prof. Dr. Frank-Dieter Kopinke

- 16.20–17.05 Prof. Dr. Gregory Lowry  
(Carnegie Mellon University, Pittsburgh, Pennsylvania, USA)  
*Optimizing Fe<sup>0</sup>-based in situ groundwater remediation agents*
- 17.05–17.50 Dr. Robert N. Grass  
(ETH Zurich, Switzerland)  
*Smart (Nano)materials Interfacing Biochemistry: Moving Molecules and Tracing Polymers*

17.50–18.10      Prof. Dr. Evamarie Hey-Hawkins  
*Award Ceremony*  
*Closing Remarks*

18.10–20.00 *Get Together*