

International Symposium on Metal- Organic Frameworks

September 20 – 21

**Technical University Dresden
Bergstraße 66, 01069 Dresden, Hörsaal 1**

September 20, 2011:

09.00-09.10	Introduction: Prof. Dr. Stefan Kaskel, Dresden <u>Chair: Prof. Dr. Stefan Kaskel</u>
09.10-09.35	Prof. Dr. Susumu Kitagawa, Kyoto Evolution of Functionality of Porous Coordination Polymers/Metal-Organic Frameworks
09.40-09.55	Prof. Dr. Adelheid Godt, Bielefeld Prof. Dr. Michael Wark, Bochum Prof. Dr. Peter Behrens, Hannover Tailoring the interior of Zr-MOFs via linker design and postsynthetic modification
10.00-10.15	Prof. Dr. Klaus Müller- Buschbaum, Würzburg MOF Based Sorption Sensors by Rare Earth Luminescence
10.20-10.35	Dr. Igor Baburin, Dresden Dr. Stefano Leoni, Dresden Computational engineering of MOFs: from understanding structures to optimizing properties
10.40-11.10	Coffee Break
11.10-11.35	Prof. Dr. Matthew Rosseinsky, Liverpool Sorption and Structure in biologically- derived MOF materials
11.40-11.55	Dr. Stefan Wuttke, München Prof. Dr. Adelheid Godt, Bielefeld Prof. Dr. Thomas Bein, München Oriented growth of functionalized mesoporous MOF crystal layers
12.00-12.15	Prof. Dr. Roland A. Fischer, Bochum Prof. Dr. Christof Wöll, Karlsruhe Prof. Dr. Florian Mertens, Freiberg Controlled SBU Approach, SURMOFS, and MOF Based Gas Chromatography

12.20-12.35	Michael Sartor, Hamburg Prof. Dr. Michael Fröba, Hamburg A New Metal-Organic Framework Linked by Struts Derived from the Chiral Pool
12.40-13.55	Lunch Break
<u>Chair: Prof. Dr. Roland Fischer</u>	
13.55-14.20	Prof. Dr. Paul Wright, St. Andrews Structural studies of novel responsive metal-organic frameworks
14.25-14.40	Dr. Michael Hirscher, Stuttgart Julia Teufel, Stuttgart The Nature of Hydrogen Adsorption in MOFs
14.45-15.00	Julia Teufel, Stuttgart Investigations of gas adsorption in MOFs applying Thermal Desorption Spectroscopy
15.05-15.20	Prof. Dr. Hans-Jürgen Holdt, Golm Control of pore size and functionality in an isoreticular series of microporous metal-organic frameworks based on in situ formation of 2-substituted imidazolate-4-amide-5-imidate
15.25-15.55	Coffee Break
15.55-16.20	Prof. Dr. Seth M. Cohen, La Jolla Postsynthetic Methods for Functionalizing MOFs
16.25-16.40	Prof. Dr. Harald Krautschäid, Leipzig Prof. Dr.-Ing. Reiner Staudt, Offenburg Prof. Dr. Roger Gläser, Leipzig Copper-containing MOFs with substituted triazolyl benzoate linkers: synthesis, structure and properties in adsorption and catalysis
16.45-17.00	Sabine Opelt, Stuttgart Long-term stability and reusability of $[Pd(2-pymo)2]_n$ as hydrogenation catalyst
17.05-17.20	Prof. Dr. Christof Janiak, Düsseldorf MOFs for Heat Transformations
17.25	Postersession+ Dinner

September 21, 2011

Chair: Prof. Dr. Peter Behrens

09.00-09.25	Prof. Dr. Russell Morris, St. Andrews Multirate delivery of multiple therapeutic agents using MOFs
09.30-09.45	Dr. Andreas Mavrantakis, Berlin Computational modeling of O ₂ adsorption in MFU-1
09.50-10.05	Dr. Eleni Moushi, Cyprus Multidimensional Coordination Polymers Based on High Nuclearity Manganese Clusters
10.10-10.25	Dr. Marko Bertmer, Leipzig Structural Changes to Cu ₃ (btc) ₂ due to Incorporation of Small Molecules as Studied by ¹ H and ¹³ C solid-state NMR
10.30-11.00	Coffee Break
11.00-11.25	Prof. Dr. Randall Q. Snurr, Evanston Rapid Screening of Metal – Organic Frameworks using Molecular Modeling
11.30-11.45	Prof. Dr. Joachim Sauer, Berlin Ab initio predictions of adsorption and reactions in metal organic frameworks - successes and limits
11.50-12.05	Prof. Dr. Gotthard Seifert, Berlin Prof. Dr. Thomas Heine, Bremen Dr. Michael Hirscher, Stuttgart Systematic study of Hydrogen adsorption in MOFs: theory and Experiments
12.10-12.25	Dr. Rochus Schmid, Bochum Guest Molecule Mobility in Metal Organic Frameworks: Towards an Atomistic Understanding via Combining Accurate Simulations and NMR Measurements
12.30-13.45	Lunch Break

Chair: Prof. Dr. Randall Snurr

13.45-14.10	Dr. Patricia Horcajada, Versaille Porous iron carboxylates as new drug nanocarriers
14.15-14.30	Dr. Michael Wiebcke, Hannover Size-Controlled Synthesis of ZIF-8 Crystals on Multiple Length Scales: Investigations into the Mechanisms of Nucleation and Crystal Growth
14.35-14.50	Prof. Dr. Klaus Huber, Paderborn Formation of MOF Nano-Particles – a Light, X-ray and Neutron Scattering Study
14.55-15.10	Witri Wahyu Lestari Synthesis of Zn ²⁺ , Cd ²⁺ and Pb ²⁺ -Based Metal–Organic Frameworks with Functionalised Biphenyl Linkers
15.15-16.00	Coffee Break
16.00-16.25	Prof. Dr. Freek Kapteijn, Delft Flexibilty of MOFs: Headache or blessing?
16.30-16.45	Prof. Dr. Eike Brunner, Dresden NMR spectroscopy and Computer Simulations on the flexible Metal- Organic Framework DUT-8(Ni)
16.50-17.05	Prof. Dr. Florian Mertens, Freiberg Alexander Münch, Freiberg MOF Based Capillary Gas Chromatography
17.10-17.25	Christian Lieder, Stuttgart Prof. Dr. Stefan Kaskel, Dresden Prof. Dr. Elias Klemm, Stuttgart Prof. Dr. Frank Glorius, Münster Enantioselective Separation using Chiral MOFs
17.30	Prezels + Beer