**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

Chair: Prof. Dr. Stefan Kaskel

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
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

Chair: Prof. Dr. Roland Fischer

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 Krautscheid, 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 Poster session + 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 Mavrantonakis, Berlin
Computational modeling of O2 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 Cu3(bte)2 due to Incorporation of Small
Molecules as Studied by 1H and 13C 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 Hirsher, 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
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<td><strong>Dr. Patricia Horcajada, Versaille</strong></td>
<td>Porous iron carboxylates as new drug nanocarriers</td>
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<td>14.15-14.30</td>
<td><strong>Dr. Michael Wiebecke, Hannover</strong></td>
<td>Size-Controlled Synthesis of ZIF-8 Crystals on Multiple Length Scales: Investigations into the Mechanisms of Nucleation and Crystal Growth</td>
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<td>14.35-14.50</td>
<td><strong>Prof. Dr. Klaus Huber, Paderborn</strong></td>
<td>Formation of MOF Nano-Particles – a Light, X-ray and Neutron Scattering Study</td>
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<td>14.55-15.10</td>
<td><strong>Witri Wahyu Lestari</strong></td>
<td>Synthesis of Zn2+-, Cd2+- and Pb2+-Based Metal–Organic Frameworks with Functionalised Biphenyl Linkers</td>
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<td>16.00-16.25</td>
<td><strong>Prof. Dr. Freek Kapteijn, Delft</strong></td>
<td>Flexibilty of MOFs: Headache or blessing?</td>
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<td>16.30-16.45</td>
<td><strong>Prof. Dr. Eike Brunner, Dresden</strong></td>
<td>NMR spectroscopy and Computer Simulations on the flexible Metal-Organic Framework DUT-8(Ni)</td>
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<td><strong>Prof. Dr. Florian Mertens, Freiberg</strong></td>
<td>MOF Based Capillary Gas Chromatography</td>
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<td><strong>Christian Lieder, Stuttgart</strong></td>
<td>Enantioselective Separation using Chiral MOFs</td>
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<td><strong>Prezels + Beer</strong></td>
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