

DFG Priority Program 1362

March, 22 - 23, 2010

Institut für Nichtklassische Chemie e.V.
und
Universität Leipzig

Topical Workshop for PhD students – “Adsorption and Diffusion in MOFs”

Room: Wislicenus-Hörsaal der Fakultät für Chemie und Mineralogie,
Johannisallee 29, Leipzig

March 22, 2010 presentations:

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| 09:00 – 09:10 | Introduction (Prof. Dr. R. Gläser) |
| 09:10 – 09:55 | PD Dr. R Staudt, INC:
Possibilities and Limits for the Determination of Adsorption Data –
Pure Gases and Gas Mixtures |
| 09:55 – 10:40 | Dr. M. Thommes, Quantachrome:
Analysis of Adsorption Data |
| 10:40 – 11:10 | Coffee break |
| 11:10 – 11:55 | Dr. J. Gascon, TU Delft:
Metal-Organic Frameworks: Separation and Catalysis |
| 11:55 – 12:55 | Lunch break |
| 12:55 – 15:30 | Exercises:
Characterization of MOF by Adsorption,
Equilibrium measurements (Pure Gas and Mixed Gas Adsorption) |
| 15:30 – 16:00 | Coffee break |
| 16:00 – 18:00 | Exercises:
Equilibrium measurements (Pure Gas and Mixed Gas Adsorption),
Breakthrough Measurement (Adsorption in a fixed bed) |

March 23, 2010 presentations:

- 09:00 – 09:45 Prof. Dr.-Ing. E. Klemm, University of Stuttgart:
Catalysis and Diffusion in MOFs
- 09:45 – 10:15 Dr. C. Chmelik, University of Leipzig (to be confirmed):
Introduction to Diffusion Studies in MOFs by IR-Microscopy
- 10:15 – 10:45 Coffee break
- 10:45 – 11:15 PD Dr. F. Stallmach, University of Leipzig:
NMR Diffusion Studies in MOFs – Introduction and experiments
- 11:15 – 12:00 PD Dr. F. Stallmach, University of Leipzig:
Analysis of NMR Diffusion Measurements
- 12:00 – 13:00 Lunch break
- 13:00 – 15:30 Exercises:
Characterization of adsorbates in MOF by IR and NMR
- 15:30 – 16:00 Coffee break
- 16:00 – 18:00 Exercises:
Diffusion studies by PFG NMR, IR Microscopy and Interference
Microscopy