

## **Annual Conference of the**

Leipzig School of Natural Sciences –  
Building with Molecules and Nano-objects

## **Graduate School BuildMoNa**

**Monday, 4 March and Tuesday, 5 March 2013**

Venues:

Monday, 4 March: Leipziger KUBUS, Helmholtz Centre for Environmental Research –  
UFZ, Permoserstraße 15, 04318 Leipzig, Room 1 AB

Tuesday, 5 March: Arthur Hantzsch Lecture Hall, Faculty of Chemistry and Mineralogy,  
Johannisallee 29, 04103 Leipzig

## **Agenda**

### **Monday, 4 March 2013**

Leipziger KUBUS

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|-------|---|
| 8:30  | PI Meeting  |
| 9:30  | <i>Coffee, refreshments</i>   |
| 10:00 | Prof. Dr. Evamarie Hey-Hawkins<br><i>Welcoming Address</i>  |
| 10:15 | Prof. Dr. Katharina Al-Shamery (Chair: Wilma Neumann)<br>Carl von Ossietzky Universität Oldenburg<br><i>Ultrafast processes at nanostructured surfaces</i>              |
| 11:15 | <i>Coffee break, refreshments</i>   |
| 11:45 | Prof. Dr. Felix Otto (Chair: Andrea Kramer)<br>Max Planck Institute for Mathematics in the Sciences Leipzig<br><i>Domain and wall pattern in thin-film ferromagnets</i> |
| 12:45 | Group photo shooting  |
| 13:00 | <i>Lunch</i>  |



- 14:30 Prof. Dr. Jörg Wrachtrup (Chair: Martin Thunert)  
Universität Stuttgart  
*Hybrid quantum systems from molecules, defects and plasmons*
- 15:30 *Coffee break, refreshments*
- 16:00 Prof. Dr. Jörg Matysik (Chair: Solveig Boehnke)  
Universität Leipzig  
*Towards mesoscopic organisation in biological systems*
- 17:00 Award ceremony
- 17:30 Poster session (for even poster numbers)
- 18:30 Poster session (for odd poster numbers)
- 19:30 Dinner buffet (and continuation of poster sessions)
- 21:00 Prospective end

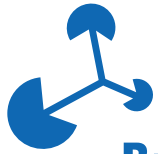
**Tuesday, 5 March 2013**

Arthur Hantzsch Lecture Hall

- 9:00 Session I (chair: Martin Göse)
1. Andreas Müller  
*Cell adhesion under lateral constraints*
  2. Michael Ansorge  
*Biomimetic microenvironments to analyse HSC niche function*
  3. Sven Hofmann  
*Site-Specific Functionalization of Short NPY Analogs for Targeted Therapy Approaches*
  4. David Boehme  
*Connecting Fluorophores and Neuropeptide Y by Cleavable Linkers – a Model System for Controlled Release in Breast Cancer*
  5. Mareen Pagel  
*Orthogonal click chemistry to synthesize a multifunctional peptide that promotes cell adhesion*
  6. Martin Thunert  
*Influence of disorder on the propagation of polariton BEC*



- 10:30      *Coffee break, refreshments (Room 014)*
- 11:00      Session II (Chair: Nataliya Georgieva)
- 7. Jonas Kohlrautz  
*NMR relaxation measurements in pulsed high magnetic fields*
  - 8. Johannes Zierenberg  
*Simulations of aggregation in homopolymer systems*
  - 9. Tim Stangner  
*FACS-sorted particles reduce the data variance in Optical Tweezers assisted Dynamic Force Spectroscopy measurements*
  - 10. Paul Neumann  
*Switchable Dendritic Ferrocenyl Phosphines*
  - 11. Marina Sarmanova  
*Measurements of elastic properties of surfaces with nanometer resolution*
  - 12. Salma Begum  
*A new metal-organic framework based on triazole-phosphonate with promising proton conducting behavior*
- 12:30      *Lunch break (Room 014)*
- 13:30      Session III (Chair: Steve Pawlizak)
- 13. Anja Graumann  
*Micromagnetic properties of single crystalline Fe<sub>7</sub>Pd<sub>3</sub> ferromagnetic shape memory alloy thin films: a magnetic force microscopy study*
  - 14. Ariyan Arabi-Hashemi  
*Ion-Irradiation-Assisted Phase Selection in Single Crystalline Fe<sub>7</sub>Pd<sub>3</sub> Ferromagnetic Shape Memory Alloy Thin Films: From fcc to bcc along the Nishiyama-Wassermann Path*
  - 15. Stefan Richter  
*Development of highly selective cytotoxic drugs*
  - 16. Marcel Hennes  
*Synthesis and Characterization of Magnetic Core-Shell Nanoparticles*
  - 17. Marco Braun  
*Gold nanostructure assisted thermophoretic trapping of single nano-objects*
  - 18. Martin Treffkorn  
*Interference in single quantum point contacts*
- 15:00      *Coffee break, refreshments (Room 014)*



**BuildMoNa**

- 15:15 Jury meeting
- 15:30 Award ceremony
- 16:00 Meeting of the DCs
- 16:15 End of conference