

Annual Conference of the
Leipzig School of Natural Sciences –
Building with Molecules and Nano-objects
Graduate School BuildMoNa
Monday, 6 March and Tuesday, 7 March 2017

Venue:

Lecture Hall for Theoretical Physics, Faculty of Physics and Earth Sciences, Linnéstr. 5,
04103 Leipzig, Germany

Agenda

Monday, 6 March 2017

- 9:30 Prof. Dr. Evamarie Hey-Hawkins
Welcoming address
- 9:35 Prof. Dr. Stefan Kaskel (Chair: Fritz Lehnert)
Technical University Dresden
Metal-organic frameworks with ultrahigh porosity, switchability and functionality
- 10:35 *Coffee break, refreshments (Assembly Hall)*
- 11:00 Prof. Dr. Claudia Felser (Chair: Paul Räckel)
Max-Planck Institute for Chemical Physics of Solids, Dresden
Topology – from the materials perspective
- 12:00 Group photo shooting
- 12:15 *Lunch (Assembly Hall)*
- 13:30 Prof. Dr. Elke Scheer (Chair: Marcel Wille)
University of Konstanz
Atomic and molecular scale functional devices
- 14:30 *Coffee break, refreshments (Assembly Hall)*
- 15:00 Prof. Dr. Katharina Landfester (Chair: Martin Glaser)
Max-Planck Institute for Polymer Research, Mainz
Molecular design of nanocapsules

- 16:00 Award ceremony
- 16:30 Poster session
- 17:30 Dinner buffet (and continuation of poster sessions)
- 19:00 Prospective end

Tuesday, 7 March 2017

9:00 - 10:00 PI Meeting

10:00 *Coffee, refreshments (Assembly Hall)*

10:15 Session I (Chair: Toni Grell)

1. Antonio Buzharevski
Carboranyl analogues of nonsteroidal anti-inflammatory drugs (NSAIDs)
2. Susann Liedtke
Metallic thin films by glancing angle deposition
3. Jan-Patrick Fischer
Adrenomedullin - replacing the disulfide bond
4. Stefanie Riedel
Stimuli-responsive actuators made of electron crosslinked gelatin
5. Benedikt Schwarze
Carborane-based organometallic tamoxifen derivatives against breast cancer

11:30 *Coffee break, refreshments (Assembly Hall)*

12:00 Session II (Chair: Axel Straube)

6. Peter Coburger
Ortho-carborane as backbone for the development of hemilabile ligands
7. Milos Erak
Transforming natural peptides to peptide therapeutics
8. Heinrich-Gregor Zirnstein
A time-reversal symmetric topological magnetoelectric effect in 3D topological insulators
9. Marta Gozzi
From thallium(I) carborates to biologically active compounds

- 13:00 *Lunch (Assembly Hall)*
- 14:00 Session III (Chair: Peter Schlupp)
10. Roger John
Optical properties of the L1 colour centre in diamond
11. Erik Morawetz
Changes in active and passive rheologic responses of epithelial cells during tumour progression
12. Yuting Guo
Heterogenic response of prokaryotes towards silver nanoparticles and ions is facilitated by phenotypes and attachment of silver aggregates to cell surfaces
13. Tom Michalsky
Spatial and temporal evolution of coherent polariton modes in ZnO microwire cavities
14. Muhammad Ayman Zaheer
In-situ characterisation of mixing dynamics in liquid-phase reactions by ¹²⁹Xe NMR spectroscopy
15. Robert Karsthof
Interface engineering on NiO-ZnO-based UV solar cells
- 15:30 Jury meeting
- 15:30 *Coffee break, refreshments (Assembly Hall)*
- 16:00 Award ceremony
- 16:30 Meeting of the DCs
- 16:45 End of conference