

**Annual Conference of the**  
Leipzig School of Natural Sciences –  
Building with Molecules and Nano-objects  
**Graduate School BuildMoNa**  
**Monday, 14 March and Tuesday, 15 March 2016**

Venue:

Arthur Hantzsch Lecture Hall, Faculty of Chemistry and Mineralogy, Johannisallee 29,  
04103 Leipzig

**Agenda**

**Monday, 14 March 2016**

- 9:00 Prof. Dr. Evamarie Hey-Hawkins  
*Welcoming address*
- 9:05 Prof. Dr. Thomas Heine (Chair: Steffen Richter)  
Universität Leipzig  
*Rational computational materials design using quantum confinement*
- 10:00 *Coffee break, refreshments (Room 014)*
- 10:30 Prof. Dr. Thomas Høeg-Jensen (Chair: Milos Erak)  
Novo Nordisk and University of Copenhagen  
*Design of insulin degludec and co-formulations with insulin aspart and liraglutide*
- 11:30 Group photo shooting
- 11:45 *Coffee break, refreshments (Room 014)*
- 12:00 Prof. Dr. Gianarelio Cuniberti (Chair: Peter Schlupp)  
TU Dresden  
*Reinventing Computing or: Molecular electronics is dead, long live molecular electronics!*
- 13:00 *Lunch (Room 014)*
- 14:30 Prof. Dr. Ralf Seidel (Chair: Reinhard Hoy)  
Universität Leipzig  
*Building and analyzing nanoobjects from DNA*

- 15:30      *Coffee break, refreshments (Room 014)*
- 16:00      Prof. Dr. Ingrid Mertig (Chair: Toni Grell)  
Martin-Luther Universität Halle-Wittenberg  
*Transversal transport coefficients and topological properties*
- 17:00      Award ceremony
- 17:30      Poster session (for even poster numbers)
- 18:30      Dinner buffet (and continuation of poster sessions)
- 19:00      Poster session (for odd poster numbers)
- 20:00      Prospective end

## **Tuesday, 15 March 2016**

8:30 - 9:30 PI Meeting

- 9:15      *Coffee, refreshments (Room 014)*
- 9:45      Session I (Chair: André Heber)
1. Marcel Wille  
*Lasing dynamics in ZnO nanowires*
  2. Robert Kuhnert  
*Carboranes as phenyl mimetics for the inhibition of lipoxygenases*
  3. Robert Karsthof  
*Semi-transparent UV-active solar cells*
  4. Axel Straube  
*A C<sub>3</sub>-symmetric phosphine ligand based on a tris(ferrocenyl)benzene core*
  5. Steffen Richter  
*Circularly polarized mode degeneracies in uniaxial planar microcavities*
- 11:00      *Coffee break, refreshments (Room 014)*
- 11:30      Session II (Chair: Xinxing Sun)
6. Felix Link  
*Synthetic aging of a commercial V<sub>2</sub>O<sub>5</sub>-WO<sub>3</sub>/TiO<sub>2</sub>-catalyst for diesel exhaust treatment via selective catalytic reduction with NH<sub>3</sub>*

7. Georgia Mhanna  
*Designing nanoporous supports for multi-enzyme immobilization*
8. Tina Händler  
*Mesh size of DNA nanotube networks*
9. Fritz Lehnert  
*Ion irradiation induced structural change of covalent materials*
10. Alina Bischoff  
*Shock wave induced martensitic transformations in Fe-Pd ferromagnetic shape memory alloy thin films*

12:45 Lunch (Room 014)

13:45 Session III (Chair: Roger John)

11. Karolin Kobalz  
*1,2,4-Triazolyl dibenzoate linkers for metal-organic frameworks – metal ion substitution and sorption performance*
12. Florian Glasneck  
*Novel calix[4]arene based ligands as rare earth complexants and extractants*
13. Johannes Bock  
*Computer simulations of semi flexible polymers*
14. Philipp Schierz  
*First-order phase transitions as one great computational challenge*
15. Antonio Buzharevski  
*Carboranyl analogues of nonsteroidal anti-inflammatory drugs (NSAIDs)*

15:00 Jury meeting

15:00 Coffee break, refreshments (Room 014)

15:30 Award ceremony

16:00 Meeting of the DCs

16:15 End of conference