Annual Conference of the
Leipzig School of Natural Sciences –
Building with Molecules and Nano-objects
Graduate School BuildMoNa
Monday, 19 March and Tuesday, 20 March 2018

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

Agenda

Monday, 19 March 2018

9:30   Prof. Dr. Marius Grundmann
       Welcome address

9:35   Prof. Dr. Knut R. Asmis (chair: Dennis Worm)
       Universität Leipzig
       Cryogenic ion vibrational spectroscopy: more than a structural characterization tool for gas phase clusters

10:35  Coffee break, refreshments (Room 014)

11:00  Dr. ir. Henk Huinink (chair: Antonio Buzharevski)
       TU Eindhoven
       Towards a thermal battery – utilizing solid-solid transitions in crystal hydrates

12:00  Group photo shooting

12:15  Lunch (Room 014)
13:30 Prof. Dr. Claudia Blindauer (chair: Marta Gozzi)  
University of Warwick  
*Metal-sensing proteins and regulatory molecular switches: the mechanics of zinc homeostasis*

14:30 *Coffee break, refreshments (Room 014)*

15:00 Ceremony for BuildMoNa Awards 2018

15:30 10 years BuildMoNa – Retrospective and Looking Forward

16:30 Poster session

17:30 Dinner buffet (and continuation of poster session)

19:00 Prospective end

**Tuesday, 20 March 2018**

9:00 - 10:00 PI Meeting

10:00 *Coffee, refreshments (Room 014)*

10:15 Prof. Dr. Silke Christiansen (chair: Max Kneiß)  
Helmholtz-Zentrum Berlin  
*3D nanoarchitectures of organic and inorganic nature – enhancing functionality and understanding through correlative microscopy*

11:15 Dr. Donald MacLaren (chair: Paul Räcke)  
University of Glasgow  
*Mapping the nanoscale functionality of advanced materials using analytical electron microscopy*

12:15 *Lunch (Room 014)*
13:15 Session I (chair: Sascha Becker)
1. Angela Aleksovska
   \( \pi \)-Conjugated ligands for photoactive metal-organic frameworks

2. Max Kneiß
   A Pulsed Laser Deposition Technique for Continuous Variation of Alloy Composition in Growth Direction: Demonstration on the Transparent \( \text{Mg}_{x}\text{Zn}_{1-x}\text{O} \) Alloy System

3. John Popp
   "Das doppelte Lottchen" Enantioselective synthesis of P-chiral ferrocenyl phosphines for redox-switchable catalysis

4. Paul Räcke
   Deterministic ion implantation: how to count single ions

5. Rafaella Precker
   BioMOFs as drug carriers in cancer therapy

14:30 Coffee break, refreshments (Room 014)

15:00 Session II (chair: Felix Link)
6. Chiara Ruggirello
   Magnetically mediated hyperthermia for cancer’s treatment

7. Philipp Wolf
   Bio-orthogonal labeling of G protein-coupled receptors in live cells

8. Dennis Worm
   Selective neuropeptide Y conjugates with high carbaborane loading as potential boron delivery agents for BNCT

9. Henrik Christiansen
   Application of population annealing to molecular dynamics simulations for protein folding
10. Susann Liedtke
   *Texture of obliquely deposited metallic thin films*

11. Peter Coburger
   *Oxidative P–P bond addition to cobalt(−I)*

16:30 Jury meeting

16:30 *Coffee break, refreshments (Room 014)*

17:00 Awards Ceremony for Doctoral Candidates’ talks

17:30 Meeting of the Doctoral Candidates

17:45 End of conference