

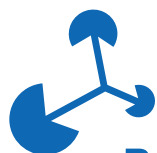
5th BuildMoNa Workshop for Doctoral Candidates
Monday, 24 September to Tuesday, 25 September 2012

Center Hotel Alte Spinnerei, Chemnitzer Straße 89-91, 09217 Burgstädt b. Chemnitz
Conference Room: 7/8

Agenda

Monday, 24 September 2012

- 9:30 *Coffee, refreshments*
- 10:00 **Welcoming address**
Prof. Dr. Evamarie Hey-Hawkins
- 10:15 **Guest lecture** (chair: Wilma Neumann)
Prof. Dr. Eva Rentschler (Johannes Gutenberg University Mainz, Institute of Inorganic and Analytical Chemistry)
The bottom-up approach towards magnetic materials
- 11:15 **Session I** (chair: Wilma Neumann)
1. Martin Göse
Assembly of lipid layers on layer-by-layer coated microcarriers
 2. Stefan Puttnins
Analysis of recombination processes in low-temperature deposited $\text{Cu}(\text{In,Ga})\text{Se}_2$ solar cells
 3. Martin Marenz
Framework for off-lattice Monte Carlo simulations
 4. Michael Bonholzer
Magnetic tunnel junctions with zinc ferrite and cobalt
 5. Steve Pawlizak
The mechanics behind cellular compartmentalization and tumor spreading
- 12:30 *Lunch break*
- 13:30 **Session II** (chair: Thomas Gladysz)
6. Felix Daume
The influence of sodium on the long-term stability of $\text{Cu}(\text{In,Ga})\text{Se}_2$ solar cells
 7. Niklas Fricke
Self-avoiding walks on disordered lattices
 8. Jakob Tomas Bullerjahn
Improved modelling of forced Kramers escape
 9. Michael Marx
Supercritical fluid reactive deposition of platinum and iron



- 14:30 *Coffee break, refreshments*
- 15:00 **Session III** (chair: Fabian Klüpfel)
- 10. Nataliya Georgieva
Properties of topological insulators – First look with nuclear magnetic resonance
 - 11. Tobias Möller
P-chiral water soluble phosphanes
 - 12. Eva Perlt
Floating orbital molecular dynamics simulations
 - 13. Anne Grundmann
Transition metal phosphinidene complexes and their reactivity
- 16:00 **Photo shooting**
- 16:15 *Coffee break, refreshments*
- 16:30 **Bus tour Chemnitz** (meeting place: Reception Center Hotel)
Guided tour SAXON MUSEUM OF INDUSTRY
- 20:00 **Dinner**

Tuesday, 25 September 2012

- 9:00 **Meeting of the Principal Investigators of BuildMoNa**
- 10:30 *Coffee break, refreshments*
- 11:00 **Session IV** (chair: Francis Bern)
- 14. Alexander Janot
Depletion of Superfluidity in a disordered non-equilibrium Polariton Condensate
 - 15. Wilma Neumann
Cisplatin-COX inhibitor conjugates for the treatment of cancer
 - 16. Carsten Schuldt
Contractile force generation by entropic softening of actin networks
 - 17. Matthias Golecki
Encapsulation of transition metal complexes: Synthesis, Characterization and reactivity
 - 18. Sina Gruschinski
Encapsulated spin-crossover compounds: synthesis, functionalization and characterization
 - 19. Christian Kranert
Exciton mediated Raman scattering in wurtzite crystals

- 12:30 *Lunch break*
- 13:30 **Session V** (chair: Veronika Mäde)
20. Solveig Boehnke
*Boron neutron capture therapy:
Linking boron-rich building blocks with tumour-selective compounds*
21. Tina Händler
Probing the mechanosensing of neurons with magnetic tweezers
22. Thomas Heinze
Immobilization of molecular oxidation catalyst in supported ionic liquid phases
23. Jörg Schnauß
Actin bundle assembly in higher ordered structures – a new liquid crystal phase?
24. Marc Lämmel
Nematic microstructure in gels
25. Chris Händel
Chemical oscillations in cell membranes
- 15:00 **Meeting of the BuildMoNa Jury**
Coffee break, refreshments
- 15:30 **Guest lecture** (chair: Kerstin Brachwitz)
Prof. Dr. Andrea C. Ferrari (University of Cambridge/UK, Department of Engineering)
Graphene Photonics and Optoelectronics
- 16:30 **Award ceremony**
- 17:00 Prospective end of the workshop