

**3rd BuildMoNa Workshop for Doctoral Candidates**

**Monday, 4 October to Tuesday, 5 October 2010**

Luther-Hotel Wittenberg, NeustraÙe 7–10, 06886 Lutherstadt Wittenberg

Conference Room: Martin Luther 1–3

**Agenda**

**Monday, 4 October 2010**

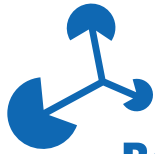
- 9:00      **Advanced Presentation Skills, Instructions III** (room: Lucas Cranach)  
(only for registered participants)
- 9:30      *Coffee, refreshments*
- 10:00     **Welcoming address** (conference room: Martin Luther 1–3)  
Prof. Dr. Evamarie Hey-Hawkins
- 10:15     **Guest lecture** (chair: Prof. Dr. Marius Grundmann)  
Prof. Dr. Elvira Fortunato (New University of Lisbon, Portugal)  
*Post silicon era: Oxide based integrated circuits*
- 11:15     **Session I** (chair: Nils Neubauer)
1. Julian Pritzwald-Stegmann  
*Novel ferrocenyl phosphine precursors for the synthesis of new hybrid materials*
  2. Jens Schneider  
*Burning water – Water dissociation caused by the interaction of a radio-frequency electromagnetic field with an electrolyte*
  3. Carolin Wagner  
*The interaction of tau-peptides and monoclonal antibodies – Dynamic force spectroscopy on single contacts*
- 12:00     *Lunch break*
- 13:00     **Session II** (chair: Aslihan Kircali)
4. Rayk Hassert  
*Rational development of peptides with high affinity to inorganic surfaces*
  5. Jorge Luis Cholula Díaz  
*Single-source precursor based preparation of CIGS-semiconductor thin films*
  6. Olaf Ueberschär  
*Stochastic thermodynamics  $\lambda$ -DNA solutions*
  7. Jochen Lach  
*Magnetic exchange interactions of polynuclear Nill complexes*
- 14:00     **Guided tour** (meeting place: Reception Luther Hotel)  
*A town and its history*



- 15:30 *Coffee break, refreshments*
- 16:00 **Session III** (chair: Jorge Luis Cholula Díaz)
8. David Kenechukwu Nnetu  
*Actin and microtubule networks contribute differently to cell response for small and large strains*
  9. Anika Gladysz  
*Molecular dynamics simulations of the catalytic domain of humane phenylalanine hydroxylase*
  10. Max Steinhagen  
*Protein immobilization via click chemistry*
- 16:45 *Coffee break, refreshments*
- 17:15 **Session IV** (chair: Alexander Lajn)
11. Erik Thelander  
*Pulsed picosecond laser deposition of lanthanum aluminate*
  12. Tobias Kießling  
*The response of living cells to external mechanical load*
  13. Julia Haushälter  
*Phosphine baskets as molecular nanosized reactors in homogeneous catalysis*
- 18:00 **Advanced Presentation Skills** (room: Lucas Cranach)  
(only for registered participants)
- 20:00 **Dinner**

## Tuesday, 5 October 2010

- 9:00 **Meeting of the Principal Investigators of BuildMoNa**  
(conference room: Martin Luther 1–3)
- 11:00 *Coffee break, refreshments*
- 11:30 **Session V** (chair: René Frank)
1. Michael Jurkutat  
*NMR investigation of n-doped high- $T_c$  superconductors*
  2. Souvik Pandey  
*Ferrocenyl-containing phosphorus-based chiral polymers*
  3. Melanie Knorr  
*Stochastic lamellipodium dynamics*
  4. Martin Lange  
*ZnO-based nanowire heterostructures*
- 12:30 *Lunch break*



- 13:30 **Guest lecture** (chair: Prof. Dr. Jürgen Haase)  
Prof. Dr. Bernd Rosenow (Universität Leipzig, Germany)  
*Superconductor-metal transition in quantum wires*
- 14:00 **Session VI** (chair: Anusree Kuttatheyil)
5. Franziska Wetzel  
*Biomechanical analysis of primary breast cancer cells*
  6. Wilhelm Kossack  
*Transition moment orientational analysis: A novel IR-based technique*
  7. Chinmay Khare  
*Glancing angle deposited Ge nanorod arrays: Growth optimization on self-elevated Si patterns*
  8. Helena Hilmer  
*Growth and optical investigation of x-dimensional microresonators*
  9. Tobias Andrea  
*Creation of 3D microsculptures in PMMA by multiple angle proton irradiation*
- 15:15 *Coffee break, refreshments*
- 15:45 **Guest lecture** (chair: Prof. Dr. Andrea Robitzki)  
Dr. Luis Garcia-Gancedo (University of Cambridge, UK)  
*Film bulk acoustic resonator-based ultrasensitive biosensor arrays*
- 16:45 **Session VII** (chair: Marko Stölzel)
10. Christof Peter Dietrich  
*Optical resonances in ZnO microwires*
  11. Jan Zippel  
*Ferromagnetic ordering in manganese stabilized zirconia*
  12. Dirk Friedrich  
*Ethylendichalcogenides as molecular CIGS precursors*
  13. Srujana Dusari  
*Transition from ohmic to ballistic transport in multi graphene*
  14. Ana Ballestar  
*Hints for high  $T_c$  superconductivity at graphite interfaces*
- 18:00 **Meeting of the BuildMoNa Jury**  
*Coffee break, refreshments*
- 18:30 **Award ceremony**
- 18:45 Prospective end of the workshop