

4th BuildMoNa Workshop for Doctoral Candidates
Monday, 26 September to Tuesday, 27 September 2011

NH Hotel Dresden, Hansastr. 43, 01097 Dresden
Conference Room: Moritzburg and Altendresden

Agenda

Monday, 26 September 2011

- 9:00 **Advanced presentation skills, instructions III** (room: Lausitz)
(only for registered participants)
- 9:30 *Coffee, refreshments*
- 10:00 **Welcoming address** (conference room: Moritzburg and Altendresden)
Prof. Dr. Evamarie Hey-Hawkins
- 10:15 **Guest lecture** (chair: Michael Jurkutat)
Prof. Dr. Tilo Pompe (Institute of Biochemistry, Universität Leipzig)
Protein and cell dynamics at biomaterials interfaces
- 11:15 **Session I** (chair: Michael Jurkutat)
1. Verena Ahrens
Carborane containing neuropeptide Y analogs for breast cancer therapy
 2. Michael Lorenz
Tungsten oxide as gate dielectric for highly transparent and temperature-stable zinc-oxide-based thin-film transistors
 3. Kerstin Brachwitz
Electrical and magnetic properties of zinc ferrite thin films
- 12:00 *Lunch break*
- 13:00 **Session II** (chair: Christian Kranert)
4. Klara Rusevova
Nanoscale iron-based catalysts for the oxidation of pollutants in water
 5. Sylvia Els
Design of highly potent ligands at the ghrelin receptor
 6. Florian Schmidt
Strain-induced deep states in MgZnO thin films
 7. Thomas Gladysz
Factor analysis applied to time-resolved spectroscopy
 8. Martin Treß
Molecular dynamics on nanometric length scale
 9. Veronika Mäde
Novel analogues of pancreatic polypeptide as promising therapeutics against obesity

10. Friedrich-Leonhard Schein
ZnCo₂O₄ thin films and n-ZnO/p-ZnCo₂O₄-heterostructure devices

14:45 *Coffee break, refreshments*

15:15 **Session III** (chair: Carsten Schuldt)

11. Francis Bern
Oxide multilayers – Probing symmetry in transport measurements
12. Anika Kreienbrink
Phosphorus-rich heterocycles as precursors for organophosphorus-based polymers and as highly rigid ligands
13. Anastasia Romanova
Solvent effects on biologically related molecules properties
14. Fabian Klüpfel
Towards ZnO-based transparent active multielectrode arrays

16:15 **Photo shooting**

16:30 *Coffee break, refreshments*

17:00 **Guided tour** (meeting place: Reception NH Dresden)

20:00 **Dinner**

Tuesday, 27 September 2011

9:00 **Meeting of the Principal Investigators of BuildMoNa**
(conference room: Moritzburg and Altendresden)

10:30 *Coffee break, refreshments*

11:00 **Guest lecture** (chair: Anne Grundmann)
Prof. Dr. Daniel Huster (Institute of Medical Physics and Biophysics, Universität Leipzig)
Learning from nature: Intelligent glue – Using lipophilic oligonucleotides to build biocompatible nanostructures

12:00 *Lunch break*

13:00 **Session IV** (chair: Anne Grundmann)

15. Daniel Lässig
An easily accessible microporous copper metal organic framework with high H₂ and CO₂ adsorption capacity at ambient pressure
16. Anusree Viswanath Kuttatheyil
Multinuclear solid state NMR investigations on metal organic frameworks



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17. Patrick With

Supercritical fluid deposition of metal complexes in carbon dioxide

18. Yanhong Ma

Phase transformations and mechanical properties of freestanding single crystalline $Fe_{70}Pd_{30}$ thin films

19. Tammo Böntgen

Electro-optical properties of $BaTiO_3/ZnO$ heterostructures

14:15

Coffee break, refreshments

14:45

Session V (chair: Rayk Hassert)

20. Tobias Möller

P-chiral polymeric phosphines

21. Martin Brehm

TRAVIS - A free analyzer and visualizer for Monte Carlo and molecular dynamics trajectories

22. Murali Dama

Poly isocyanides as alignment media to measure RDCs for small organic molecules

23. Marko Stölzel

Optical and electrical properties of polar $(Mg,Zn)O/ZnO$ quantum wells

24. Markus Streitberger

Phospholanes – Synthesis and reactivity

16:00

Meeting of the BuildMoNa Jury

Coffee break, refreshments

16:30

BuildMoNa Presentation Awards ceremony

17:00

Prospective end of the workshop