
2nd VI Workshop

Helmholtz Virtual-Institute "Printed electronics based on inorganic nanomaterials: From atoms to functional devices and circuits"

Date: January 26th, 2015

Location: Technische Universität Darmstadt, Materials Science Department, Jovanka-Bontschits-Str. 2, 64287 Darmstadt, Building L1|08, room 417 (see attached location plan)

Agenda

09³⁰ - 09⁵⁵ Reception and coffee

09⁵⁵ - 10⁰⁰ *Heinz von Seggern (TUD):* Welcome and introduction

Session 1 – Particle Synthesis and Printed Devices

10⁰⁰ - 10²⁰ *Julia Gebauer (UDE):* Synthesis, characterization and processing of semiconducting nanoparticles for printed electronics

10²⁰ - 10⁴⁰ *Suresh Garlapati (KIT):* Solution processed oxide dielectrics for printed field effect transistors

10⁴⁰ - 11⁰⁰ *Benedikt Sykora (TUD):* Field-effect transistors based on zinc tin oxide as semiconductor

11⁰⁰ - 11²⁰ Coffee Break

Session 2 – Electrical and Mechanical Properties

11²⁰ - 11⁴⁰ *Seol-Min Yi (KIT):* Electro-mechanical testing of printed and evaporated films on flexible substrates

11⁴⁰ - 12⁰⁰ *Nilesha Mishra (KIT):* Influence of stress and strain on the functionality and reliability of printed devices

12⁰⁰ - 13⁰⁰ Lunch

13⁰⁰ - 13²⁰ *Alla Sologubenko (ETHZ):* Spectroscopy as a tool for strain measurements

Session 3 – Simulation and Modeling

13²⁰ - 13⁴⁰ *Pascal Friederich (KIT):* Simulation of morphology and charge transport in printed thin films

13⁴⁰ - 14⁰⁰ *Gabriel Cadilha Marquez (KIT):* title to be announced

14⁰⁰ - 14²⁰ Coffee Break (optional)

Session 4 – Discussion and planning (14³⁰- 17⁰⁰)

- future cooperation / sample exchange
- joint manuscripts
- to do's for the evaluation in June
- ...

17³⁰ Dinner