2\textsuperscript{nd} 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

09\textsuperscript{30} - 09\textsuperscript{55} Reception and coffee
Heinz von Seggern (TUD): Welcome and introduction

Session 1 – Particle Synthesis and Printed Devices

10\textsuperscript{00} - 10\textsuperscript{20} Julia Gebauer (UDE): Synthesis, characterization and processing of semiconducting nanoparticles for printed electronics

10\textsuperscript{30} - 10\textsuperscript{40} Suresh Garlapati (KIT): Solution processed oxide dielectrics for printed field effect transistors

10\textsuperscript{40} - 11\textsuperscript{00} Benedikt Sykora (TUD): Field-effect transistors based on zinc tin oxide as semiconductor

11\textsuperscript{00} - 11\textsuperscript{20} Coffee Break

Session 2 – Electrical and Mechanical Properties

11\textsuperscript{20} - 11\textsuperscript{40} Seol-Min Yi (KIT): Electro-mechanical testing of printed and evaporated films on flexible substrates

11\textsuperscript{40} - 12\textsuperscript{00} Nilesha Mishra (KIT): Influence of stress and strain on the functionality and reliability of printed devices

12\textsuperscript{00} - 13\textsuperscript{00} Lunch

13\textsuperscript{00} - 13\textsuperscript{20} Alla Sologubenko (ETHZ): Spectroscopy as a tool for strain measurements

Session 3 – Simulation and Modeling

13\textsuperscript{20} - 13\textsuperscript{40} Pascal Friederich (KIT): Simulation of morphology and charge transport in printed thin films

13\textsuperscript{40} - 14\textsuperscript{00} Gabriel Cadilha Marquez (KIT): title to be announced

14\textsuperscript{00} - 14\textsuperscript{20} Coffee Break (optional)

Session 4 – Discussion and planning (14\textsuperscript{30} - 17\textsuperscript{00})

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

17\textsuperscript{30} Dinner