

Program

Tuesday July 5th 2011

- 9⁰⁰ - 9¹⁰ Opening Remarks (Prof. Zentel and Prof. Yoon)
9¹⁰ - 9²⁵ **Hun Kim**
Photophysical Properties of Indenofluorene-Phenanthrene Copolymers – Implications on Organic Lasing and Solar Cell Efficiency
- 9²⁵ - 9⁴⁰ **Yunhyuk Koh**
Synthesis and Characterization of New Low Band-Gap Polymers for Organic Photovoltaic cells
- 9⁴⁰ - 9⁵⁵ **Sven Stöttinger**
Assembly of quantum dot dimers and characterization by combined scanning force and fluorescence microscopy
- 10⁰⁰ - 10³⁰ Coffee Break
- 10³⁰ - 10⁴⁵ **Jaehoon Lim**
Enhancement in Photo- and Chemical Stability of InP Quantum Dots with Composition Gradient ZnSeS Shells
- 10⁴⁵ - 11⁰⁰ **Lisa zur Borg**
Synthesis of New Hybrid Materials
- 11⁰⁰ - 11¹⁵ **Sanghyuk Woo**
Effect of the Inclusion of Surface-Modified Gold Nanoparticles in Photoanodes on the Efficiency of DSSCs
- 11¹⁵ - 11³⁰ **Stefan Dolezel**
Computer Simulation of Rod-Coil Block Copolymers
- 11³⁰ - 11⁴⁵ **Philipp Schattling**
Utilization of Radical Functionalities in Polymers
- 11⁴⁵ - 12⁰⁰ **Junmo Park**
High performance PPV type polymers for organic photovoltaics
- 12⁰⁰ - 14⁰⁰ Lunch Time
- 14⁰⁰ - 14¹⁵ **Seungyong Chae**
Fluorophore-Functionalization of Nanostructures of Diblock Copolymers
- 14¹⁵ - 14³⁰ **Aaron Breivogel**
Novel ruthenium chromophores with optimized properties
- 14³⁰ - 14⁴⁵ **Hsin-Ling Liang**
Quasi-monodisperse toroidal defects in the smectic liquid crystalline shells

- 14⁴⁵ - 15⁰⁰ **Eunsang Lee**
Pathway Heterogeneity and Folding Mechanism in Protein Folding Kinetics Using Lattice Model Approach
- 15⁰⁰ - 15¹⁵ **Wontae Choi**
P3HT:PCBM Bulk Heterojunction Organic Solar Cells: The Effect of 3D Morphology on Device Performance
- 15¹⁵ - 15³⁰ **Anna Domanski**
Electrical Modes of Scanning Probe Microscopy in Different Environments
- 15³⁰ - 15⁴⁵ **Suhwan Bae**
Synthesis of Block Copolymers Containing Push-Pull Chromophores by RAFT polymerization and Click Chemistry
- 15⁴⁵ - 16⁰⁰ **Dennis Chercka**
Synthesis of pyrene donor and acceptor compounds
- 16⁰⁰ - 16³⁰ Coffee Break
- 16³⁰ - 18⁰⁰ Meeting of PI's for internal discussion /
Meeting of the students for internal discussion
- 19³⁰ Dinner at Eisgrub

Wednesday July 6th 2011

- 9⁰⁰ - 9⁴⁰ **Tutorial by Dr. Laquai (MPIP)**
Optical Probes of Excited State Dynamics in Conjugated Materials
- 9⁴⁰ - 10⁰⁰ **Fabian Etzold**
Ultrafast Exciton Dissociation Followed by Nongeminate Charge Recombination in PCDTBT:PCBM Photovoltaic Blends
- 10⁰⁰ - 10³⁰ Coffee Break
- 10³⁰ - 11¹⁵ **Lecture by Prof. Frey (University of Mainz)**
Non-crystalline aliphatic polyethers for Li-ion conducting materials
- 11¹⁵ - 12⁰⁰ **Tutorial by Dr. Stefan Weber (MPIP)**
Surface Characterization with Scanning Force Microscopy
- 12⁰⁰ - 14⁰⁰ Lunch Time
- 14⁰⁰ - 14³⁰ **Inaugural lecture by Prof. YounJoon Jung (Seoul National University)**
A computer simulation study on graphene-based electrical double layer capacitor
- 14³⁰ - 15⁰⁰ **Tutorial by Dr. Thorsten Vehoff (VDI)**
Project funding by the BMBF
- 15⁰⁰ - 15³⁰ **Lecture by Prof. Changee Lee (Seoul National University)**
Quantum Dot Light-Emitting Diodes for Full-Color Displays and Lightings
- 15³⁰ - 16³⁰ Coffee Break
- 16³⁰ - 17¹⁵ **Tutorial by Dr. Pisula (MPIP)**
Device Performance by Chemical Design and Processing
- 17¹⁵ - 18⁰⁰ **Inaugural lecture by Prof. Char (Seoul National University) in conjunction with his fellowship of the "Gutenberg Forschungs-Kolleg", GFK**
Perspectives on Functional Thin Film Platforms for Intelligent Hybrids
- 18⁰⁰ German Style Barbecue

Thursday July 7th 2011

- 900 - 915 **Donggu Lee**
Current-Voltage Characteristics of Polymer Solar Cells with MoO₃ and PEDOT:PSS as Hole Injection Layer
- 910 - 925 **Birger Freisinger**
Organic semiconducting composite particles for bulk heterojunction solar cells
- 925 - 940 **Sintae Kim**
Soluble fullerene derivatives synthesized by prato reaction
- 940 - 955 **Maria Untch**
Measuring the Dielectric Constant on Micrometer Sized Test Structures by Scanning Microwave Microscopy
- 955 - 1010 **Dr. Jason Amsden**
Semiconducting polymer-ZnO hybrid bulk heterojunction photovoltaic solar cells with semiconducting surfactants
- 1010 - 1030 Coffee Break
- 1030 - 1045 **Manuel Schrader**
Toward Chemical Design Rules for Small Molecule-based Organic Solar Cells: Dicyanovinyl-substituted Tetrathiophenes
- 1045 - 1100 **Valentin Kamm**
Substituted Perylene Diimides as Electron Acceptors in Organic Solar Cells: Impact of Aggregation on Photophysics and Device Efficiency
- 1100 - 1115 **Daniel Wenzlik**
Incorporation of Inorganic Nanorods into Cholesteric Liquid Crystals for Mirrorless Lasing
- 1115 - 1130 **Yoonbin Lim**
Synthesis and Characterization of a Conjugated Polymer Having a Dipyridophenazine Unit
- 1130 - 1145 **Mark Schäfer**
Functional ROMP-Polymers for high aspect ratio patterning
- 1145 - 1200 **Michael Meister**
Charge Generation and Recombination in Peryleneimide Solid-State Dye-Sensitized Solar Cells
- 1115 - 1130 Closing Remarks (Prof. Zentel and Prof. Yoon)

12⁰⁰ - 14⁰⁰ Lunch Time

14⁰⁰ – 17⁰⁰ Guided Lab Tour for IRTG students

17⁰⁰ - 18⁰⁰ Gutenberg Award:
Prof. Michael Grätzel, Lausanne, CH
Dye Sensitized Solar Cells

19⁰⁰ Dinner