DPG School on Physics: „**Innovative Concepts in Photovoltaics**“

22.-27. September 2013
Physik Zentrum Bad Honnef, Germany

Schedule

Sunday, 22.9.

Afternoon:	*Arrival*
18:30	*Dinner*
19:30 – 21:30	*Get Together*

Monday, 23.9.

Morning:	*Breakfast*
09:00 – 09:15	Dr. Borchert / Prof. Dr. von Hauff
	Opening
09:15 – 10:30	**Lecture 1:** Dr. Harald Hoppe (TU Ilmenau)
	Structure-Property-Relationships: Intra-, Inter- and Supramolecular
10:30 – 11:00	*Coffee Break*
11:00 – 12:15	**Lecture 2:** Prof. Dr. Julien Bachmann (University of Erlangen)
	Atomic layer deposition (ALD) of thin films
12:15 – 14:00	*Lunch Break*
14:00 – 15:15	**Lecture 3:** Dr. Jan Anton Koster (University of Groningen)
	The role of charge transport in organic solar cells
15:15 – 15:45	*Coffee Break*
15:45 – 17:00	**Lecture 4:** Prof. Dr. Julien Bachmann (University of Erlangen)
	ALD in photovoltaics
17:00	*Time for discussions*
18:30	*Dinner*

Tuesday, 24.9.

Morning:	*Breakfast*
09:15 – 10:30	**Lecture 5:** Dr. Michael Krüger (University of Freiburg)
	Quantum Dot based hybrid solar cells
10:30 – 11:00	*Coffee Break*
11:00 – 12:15	**Lecture 6:** Prof. Dr. Christian Klinke (University of Hamburg)
	Low-dimensional opto-electronic materials and devices: from dots to Sheets
12:15 – 14:00	*Lunch Break*
14:00 – 15:15	**Lecture 7:** Dr. Holger Borchert (University of Oldenburg)
	Material analysis by X-Ray Diffraction
15:15 – 15:45	*Coffee Break*
15:45 – 17:00	**Lecture 8:** Dr. Harald Hoppe (Technical University of Ilmenau)
	Polymer-Solar Cell-Technology: Upscaling, Modules and Stability
17:00	*Time for discussions*
18:30	*Dinner*

Wednesday, 25.9.

Morning:	*Breakfast*
09:15 – 10:30	**Lecture 9:** Dr. Carsten Deibel (University of Würzburg)
	Charge Carrier Recombination as Dominant Loss Mechanism in Organic Solar Cells: How It Functions
10:30 – 11:00	*Coffee Break*
11:00 – 12:15	**Lecture 10:** Dr. Nikolai Gaponik (Technical University of Dresden)
	Colloidal nanocrystal architectures for efficient energy and charge transfer
12:15 – 14:00	*Lunch Break*
14:00 – 18:00	***Excursion***
18:30	*Dinner*
19:30 – 21:30	**Poster Session**

Thursday, 26.9.

Morning:	*Breakfast*
09:15 – 10:30	**Lecture 11:** Dr. Frederic Laquai (MPI for Polymer Research, Mainz)
	Time-Resolved Optical Probes of Excited State Dynamics in Conjugated Materials
10:30 – 11:00	*Coffee Break*
11:00 – 12:15	**Lecture 12:** Dr. Carsten Deibel (University of Würzburg)
	Charge Carrier Recombination as Dominant Loss Mechanism in Organic Solar Cells: How to Minimise It

12:15 – 14:00 *Lunch Break*

14:00 – 15:15 **Lecture 13:** Prof. Dr. Sabine Ludwigs (University of Stuttgart)
Controlled Crystallization of Semiconducting Polymers

15:15 – 15:45 *Coffee Break*

15:45 – 17:00 **Lecture 14:** Prof. Dr. Elizabeth von Hauff (University of Freiburg)
Impedance spectroscopy to investigate stability limiting mechanisms in organic photovoltaics

17:00 *Time for discussions*

18:30 *Dinner*

Friday, 27.9.

Morning: *Breakfast*

09:00 – 10:15 **Lecture 15:** Dr. Frederic Laquai (MPI for Polymer Research, Mainz)
Efficiency-Limiting Processes in Excitonic Solar Cells Studied by Transient Ultrafast Spectroscopy

10:15 – 10:30 Dr. Borchert / Prof. Dr. von Hauff
Closing

10:30 *Departure*