

Program of the 3rd SolarTech International Conference in Wildbad Kreuth / Germany

Sunday – April 27, 2014

9:00 AM – 1:00 PM **Arrival**

1:00 PM lunch and executive meeting 1 with plenary speakers

2:25 **Opening**

Session Chair: Timothy Clark

2:30 – 3:30 PM **Rene Janssen** 45 min / discussion 15 min
Eindhoven University of Technology / NL
Title: **Converting Solar Energy with Organic Materials**

3:30 – 3:55 PM **Mukundan Thelakkat** 20 min / discussion 5 min
Title: **Hybrid solar cells based on perovskites**

3:55 – 4:20 PM **Timothy Clark** 20 min / discussion 5 min
Title: **Simulating Electron and Hole Mobility**

4:20 – 4:45 PM **Pablo Docampo** 20 min / discussion 5 min
Title: **Air stable, 10% efficient PEDOT: PSS/perovskite/PCBM solar cells**

4:45 – 5:10 PM **Harald Oberhofer** 20 min / discussion 5 min
Title: **Simulating charge transfer in organic solar cell components**

5:10 – 5:35 PM **Andreas Sperlich** 20 min / discussion 5 min
Title: **Charge Transfer States and Triplet Excitons in Organic Photovoltaic Materials Studied by Spin-Sensitive Methods**

5:35 – 6:00 PM **Anna Köhler** 20 min / discussion 5 min
Title: **Spectroscopic investigation of the disorder-order transition in P3HT**

6:00 PM dinner

Session Chair: Timothy Clark

7:30 – 8:30 PM **Leif Hammarström** 45 min / discussion 15 min
Uppsala University / S
Title: **Mechanisms of Artificial Photosynthesis**

8:30 – 10:00 PM **Poster session I** (odd numbers without numbers: P23, P31, P37, P45)

Monday – April 28, 2014

7:30 AM breakfast

Session Chair: Frank Würthner

- 8:45 – 9:45 AM **Colin Nuckolls** 45 min / discussion 15 min
Columbia University / USA
Title: **Nanobowls, Nanowires, and Nanoribbons as Molecular Components for Solar Energy Conversion**
- 9:45 – 10:10 AM **Milan Kivala** 20 min / discussion 5 min
Title: **π -Conjugated Organic Scaffolds Doped with Heteroatoms**
- 10:10 – 10:35 AM **Jacek Stolarczyk** 20 min / discussion 5 min
Title: **Photocatalytic solar fuel generation on CdS nanorods and TiO₂ nanoparticles**

10:35 AM coffee break

Session Chair: MukundanThelakkat

- 10:55 – 11:20 AM **Peter Müller-Buschbaum** 20 min / discussion 5 min
Title: **Tailoring Titania Nanostructures for Solar Cell Applications**
- 11:20 – 11:45 AM **Gulliaume Grelaud** 20 min / discussion 5 min
Title: **Using Organic Photocatalysis to Evaluate New Iridium Dipyrrinato Complexes as Photosensitizers for the Hydrogen Evolving Reaction**
- 11:45 – 12:10 AM **Richard Hildner** 20 min / discussion 5 min
Title: **Energy transfer and blinking dynamics in singlemultichromophoric assemblies**
- 12:10 – 12:35 AM **Rik R. Tykwinski** 20 min / discussion 5 min
Title: **Functionalized Acenes for Solar Energy Conversion**

12:35 PM lunch

Session Chair: Peter Müller-Buschbaum

- 2:00 – 3:00 PM **J. C. Hummelen** 45 min / discussion 15 min
University of Groningen / NL
Title: **Experiments and modeling towards organic OPV materials with enhanced charge separating properties**
- 3:00 – 3:25 PM **Halina Dunn** 20 min / discussion 5 min
Title: **Mixed metal oxides for light driven water splitting**

3:25 – 3:50 PM **Paolo Lugli** 20 min / discussion 5 min
Title: **Fabrication, characterization and simulation of organic solar cells**

3:50 PM coffee break

Session Chair: Thomas Bein

4:10 – 4:35 PM **Michael Brendel** 20 min / discussion 5 min
Title: **The Effect of Gradual Fluorination on the Properties of F_n ZnPc Thijn Films and F_n ZnPc/C₆₀ Bilayer Photovoltaic Cells**

4:35 – 5:00 PM **Sven Hüttner** 20 min / discussion 5 min
Title: **Hybrid Nanostructures on the Intrinsic LengthScale of Polymer Crystallisation**

5:00 – 5:25 PM **Nicolai Burzlaff** 20 min / discussion 5 min
Title: **Metal derivatization of carbon rich compounds**

5:25 – 5:50 PM **Konrad Schönleber** 20 min / discussion 5 min
Title: **Modified silicon surfaces for the direct, solar driven conversion of CO₂ to fuels**

5:50 PM dinner

Session Chair: Thomas Bein

7:30 – 8:30 PM **Clifford P. Kubiak** 45 min / discussion 15 min
University of California / USA
Title: **Carbon dioxide reduction by earth abundant artificial catalysts in solar fuels applications: Mechanistic insights and challenges.**

8:30 – 10:00 PM **Poster session II** (even numbers and odd numbers: P23, P31, P37, P45)

Tuesday – April 29, 2014

7:30 AM breakfast

Session Chair: Jochen Feldmann

8:45 – 9:45 AM **Ulrich Lemmer** 45 min / discussion 15 min
Karlsruhe Institute of Technology (KIT) / Germany
Title: **Device architectures for solution processed solar cells**

9:45 – 10:10 AM **Bert Nickel** 20 min / discussion 5 min
Title: **Percolation, traps, and crystallinity at the nano scale: zooming in organic heterojunction**

10:10 – 10:35 AM **Elisabeth von Hauff** 20 min / discussion 5 min
University of Amsterdam / NL
Title: **Understanding efficiency and stability in organic**

photovoltaics

10:35 AM coffee break

Session Chair: Christoph Lambert

10:55 – 11:20 AM **Martin Stutzmann** 20 min / discussion 5 min
Title: **Photocatalysis with GaN**

11:20 – 11:45 AM **Cristina Consani** 20 min / discussion 5 min
Title: **Coherent two-dimensional spectroscopy of donor materials for photovoltaics: MEH-PPV in the low-temperature phase**

11:45 – 12:10 AM **Peter Strohrriegel** 20 min / discussion 5 min
Title: **Crosslinked low bandgap polymers for organic solar cells**

12:10 – 12:35 AM **Mark Gruber** 20 min / discussion 5 min
Title: **Photocurrent enhancement in molecular organic photovoltaics based on diindenoperylene and fullerene**

12:35 AM lunch

2:00 – 6:00 PM excursion

6:00 PM dinner

Session Chair: Hans-Werner Schmidt

7:30 – 8:30 PM **Tomás Torres** 45 min / discussion 15 min
Autonoma University of Madrid (UAM) / ES
Title: **Phthalocyanines and Subphthalocyanines as components of photovoltaic and artificial photosynthetic systems**

8:30 – 10:00 PM executive meeting 2 with plenary speakers

Wednesday – April 30, 2014

7:30 AM breakfast

Session Chair: Dirk M. Guldi

8:45 – 9:45 AM **Anders Hagfeldt** 45 min / discussion 15 min
Uppsala University / S

Title: **Mesoscopic solar cell and solar fuel devices**

9:45 – 10:10 AM **Carlos Härtel** 20 min / discussion 5 min

GE Global Research

Title: **Think Local, Act Global – managing research and innovation at GE**

10:10 – 10:35 AM **Dana Medina** 20 min / discussion 5 min

Title: **Oriented Thin Films of Thiophene-Based Covalent Organic Frameworks**

10:35 AM coffee break

Session Chair: Dirk M. Guldi

10:55 – 11:20 AM **Thomas Fässler** 20 min / discussion 5 min

Title: **Non-oxide macroporous films for hybrid inorganic-polymer solar cells**

11:20 – 11:45 AM **Frank Würthner** 20 min / discussion 5 min

Title: **Perylene dye aggregates for organic photovoltaics**

11:45 – 12:45 AM **Michael R. Wasielewski** 45 min / discussion 15 min

Nordwestern University / USA

Title: **Singlet Exciton Fission in Molecular Solids: A Possible Route to Improving the Efficiency of Organic Photovoltaics**

12:45 AM lunch

2:00 PM **Departure**

