

Scientific Program

Sunday, April 10, 2011

- 2.00 pm **Registration**
– 4.00 pm
- 4.00 pm **Opening**
- 4.30 pm **Thomas Moore**
Optimizing Light Absorption and Controlling Energy Flow in Artificial and Natural Photosynthesis
- 5.15 pm **Sebastian Mackowski**
Plasmon – Enhanced Light Harvesting
- 5.40 pm **Marc Brecht**
Coupling to Nanoparticles Affects the Function of PSI
- 6.05 pm **Christian von Borczyskowski**
Geometric Constraints of FRET and NON-FRET Processes in Selforganized Nanoassemblies with Building Blocks from Semiconductor Quantum Dots and Dye Molecules
- 6.30 pm **Nicolas Borys**
Particle Morphology and Interfacial Energy Transfer in Light harvesting CdSe/CdS Nanocrystals
- 7.15 pm **- Dinner-**

Monday, April 11, 2011

- 9.00 am **Rienk van Grondelle**
Excitation Energy Transfer and the Mechanism of Non-Photochemical Quenching in the Major Plant Light-Harvesting Complex LHClI
- 9.45 am **Richard Hildner**
Femtosecond Dynamics of Single Molecules and Single Molecular Aggregates at Room Temperature

- 10.10 am **Larry Luer**
Energy Backtransfer in Photosynthetic Membranes from Rhodospseudomonas Palustris Grown Under High and Low Light Conditions
- 10.35 am **- Coffee break -**
- 10.55 am **Katia Duquesne**
Properties of a High 800 LH2 Complex
- 11.20 am **Valter Zazubovits**
Light-induced Spectral Diffusion in Light-harvesting Complexes Studied with Spectral Hole Burning
- 11.45 am **Anjali Pandit**
Pigment and Protein Electronic Structures of Photosynthetic Light-Harvesting Antennae Studied By Solid-State NMR
- 12.10 am **Leonas Valkunas**
Excitation Migration, Quenching and Regulation of Photosynthetic Light Harvesting in Photosystem II
- 12.35 am **- Lunch -**
- 2.00 pm **Jean-Luc Bredas**
Organic Solar Cells: Electronic Structure of Organic/Inorganic and Organic/Organic Interfaces
- 2.45 pm **Thorsten Koslowski**
Conductivity Problems in Light-Harvesting Systems and Devices: A Theoretical Perspective
- 3.10 pm **Wichard J.D. Beenken**
Charge Separation in Organic Semiconductors – A Quantum Chemist's Point of View
- 3.35 pm **- Coffee break -**
- 3.35 pm **- Postersession -**
- 5.30 pm

6.00 pm

Kloster Banz - Concert

7.15 pm

- Dinner -

Tuesday, April 12, 2011

9.00 am

René A.J. Janssen

Polymer Solar Cells: New Materials and Tandem Devices

9.45 am

Giulia Grancini

*Nano-Imaging of Interfacial Charge Transfer State in Crystalline P3HT: PCBM
Polymer Blend*

10.10 am

Daniel Herrmann

*Charge Generation and Recombination in Hybrid Thin Film Solar Cells Probed by
Broadband Ultrafast Spectroscopy*

10.35 am

- Coffee break -

10.55 am

Robert Blankenship

*Architecture and Energy Transfer Pathway of a Photosynthetic Membrane
System*

11.40 am

Hugo Scheer

Light-harvesting and Photosensing of Biliproteins: a Case of Molecular Ecology

12.05 am

Peter Adams

*Investigating Photosynthetic Membranes from Genetically Engineered PufX
Mutants of Rhodobacter sphaeroides using Atomic Force and Electron
Microscopy*

12.30 am

- Lunch -

1.30 pm

- Excursion -

4.15 pm

Hideki Hashimoto

*Energy-transfer Dynamics Between Carotenoid and Bacteriochlorophyll in the
Light-Harvesting System of Purple Photosynthetic Bacteria as Visualized by Sub-
Picosecond Pump-And-Probe and Sub-20 fs Four-Wave Mixing Spectroscopies*

- 5.00 pm **Tomas Polivka**
Carotenoid Charge-Transfer States in Energy Transfer
- 5.25 pm **Margerita Maiuri**
Internal Conversion and Energy Transfer Processes in the LH2 Complex of Purple Bacteria Probed with 10-fs Resolution
- 5.50 pm **Bruno Robert**
Molecular Aspects of Light-Harvesting Regulation in Photosynthetic Eukaryotes
- 7.15 pm **- Dinner -**

Wednesday, April 13, 2011

- 9.00 am **Gregory Scholes**
Do Algae Really use Quantum Mechanics to Harvest Light for Photosynthesis
- 9.45 am **Ulrich Kleinekathöfer**
From Atomistic Modeling to Exciton Dynamics and Two-Dimensional Spectra of Light-Harvesting Complexes
- 10.10 am **Robert Silbey**
Mechanisms of Efficient Energy Transfer in LH Complexes
- 10.35 am **- Coffee break -**
- 10.55 am **Florian P. Diehl**
Transition between Weak and Strong Electronic Coupling in a Homologous Series of oligo(p-Phenylene) Bridged Perylenediimide Dimers
- 11.20 am **Dörthe M. Eisele**
Exciton Transitions in Highly Uniform Double-Walled Nanotubular Dye J-Aggregates
- 11.45 am **Ivan Scheblykin**
Single Molecule Spectroscopy for Characterization of Individual Antennas
- 12.10 am **Martti Pääs**
External Control of Excitation-Energy Transfer in an Organic Triad
- 12.35 am **- Lunch -**

- 2.00 pm **Frederik C. Krebs**
Polymer Solar Cells: Manufacture and Application
- 2.45 pm **Rodrigo Albuquerque**
Structure-property Relations of Self-Assembled Supramolecular Columns of Benzene Trisamide Derivatives
- 3.10 pm **Anton Kiri**
Surface-initiated Polycondensation: A New Tool for the Preparation of Complex Architectures of Conjugated Polymers for Photovoltaics
- 3.35 pm **- Coffee break -**
- 3.55 pm **Alastair Gardiner**
New Insights into the Structure of the Reaction Centre from Blastochloris viridis: Evolution in the Laboratory
- 4.20 pm **Burkhard Fückel**
Photochemical Upconversion for Improved Light-Harvesting
- 4.45 pm **Jan Roden**
Energy Transfer in Light-Harvesting Systems: Influence of Non-Markovian Environment
- 5.10 pm **- Postersession -**
- 6.30 pm
- 7.15 pm **- Dinner spezial -**

Thursday, April 14, 2011

- 9.00 am **Jenny Nelson**
Modelling Optoelectronic Processes in Organic Photovoltaic Materials
- 9.45 am **Pavel Chabera**
Photoinduced Charge Carrier Dynamics of Zn-Porphyrin-TiO₂ Electrodes: The Key Role of Charge Recombination for Solar Cell Performance
- 10.10 am **Felix Deschler**
Enhanced Exciton Dissociation in Doped Organic Semiconductors

10.35 am

- Coffee break -

10.55 am

Richard Friend

Charge Generation from Excitons in Molecular Semiconductors

11.40 am

Closing remarks

12.00 am

- Lunch -