

Scientific Program

Sunday, April 07, 2013

2.00 pm **Registration**
– 4.00 pm

3.15 pm **Come Together**

4.00 pm **Opening**

4.10 pm **Tobias Brixner**
Multidimensional Spectroscopy

4.55 pm **Jakub Dostal**
*Coherent Two-Dimensional Spectroscopy of Chlorosomes from
Chlorobaculum tepidum*

5.20 pm **Jana. B. Nieder**
Coherent Control of Individual Light-Harvesting Complexes

5.45 pm **D. Palecek**
*Coherent Dynamics in Bacterial Reaction Center Investigated by
Polarization Resolved Coherent 2D Spectroscopy*

7.00 pm **- Dinner-**

Monday, April 08, 2013

9.00 am **Masahiro Irie**
Photochromism of Diarylethene Molecules and Crystals: An Approach to Molecular Machinery

9.45 am **Iain McCulloch**
Semiconducting Polymers for Organic Transistors and Solar Cells

10.30 am **- Coffee break -**

10.55 am **Alexandra Olaya-Castro**
Implications of Exciton-Vibrational Quasiresonances in Photosynthetic Energy Transfer

11.40 am **Joris J. Snellenburg**
Towards a Model for the Photosynthetic Membrane

12.05 am **Alexander Ruban**
Making of the Light Harvesting Membrane in Vivo

12.30 am **Jouko Korppi-Tommola**
Excitation Transfer in the PSUs of Filamentous Anoxygenic Phototroph and Green Sulphur Bacteria

1.00 pm **- Lunch -**

- 2.30 pm **Jakub Pšenčík**
The Nature of Interactions Between Carotenoids and Bacteriochlorophylls in a Protein-free Interior of the Chlorosome
- 2.55 pm **Stefan Kirstein**
Organic/Inorganic Hybrid Structures for Artificial Light Harvesting Based on Tubular J-Aggregates
- 3.20 pm **Frank Müh**
Assigning the Terminal Emitter Domain in the CP29 Antenna of Photosystem II
- 3.45 pm **Ryszard Jankowiak**
Spectroscopic Study of the Light-Harvesting CP29 Antenna Complex of Photosystem II: Hole-Burning and Modeling Study
- 4.10 pm **- Coffee break -**
- 4.45 pm **Departure by busses to an
Organ-recital in the Basilica *Vierzehnheiligen*
with Dr. Markus Blomenhofer**
- 7.15 pm **- Dinner -**

Tuesday, April 09, 2013

- 9.00 am **Villy Sundström**
Light-Harvesting and Energy Conversion in Novel Solar Cell Materials and Artificial Photosynthesis
- 9.45 am **Pavel Chábera**
Ultrafast Electron Transfer of a Ru-Co Photocatalysis Model System
- 10.10 am **M. Werwie**
Hybrid Structures from Light-Harvesting Chlorophyll a/b Complex and Type-II Quantum Dots for Charge Separation Applications
- 10.35 am **- Coffee break -**
- 10.55 am **Arvi Freiberg**
Excitons in Intact Cells of Photosynthetic Bacteria
- 11.20 am **Takehisa Dewa**
The Influence of the Phospholipid Composition on the Self-Assembly and the Energy-Transfer Efficiency in Networks of Light-Harvesting 2 Complexes
- 11.45 am **Jörg Pieper**
Low-energy level structure of light-harvesting complex II revisited
- 12:10 am **Olga Rancova**
Spectral Features of LH2 and LH3 Antenna Complexes from Structure-Based Modeling
- 12.35 am **- Lunch -**

- 2.00 pm **Mikhel Pajusalu**
Studying Distribution of LH2 Complexes by Comparing Ensemble Studies and Single Molecule Spectra
- 2:25 pm **Václav Slouf**
Activation of Carotenoid Intramolecular Charge-Transfer State in LH1 Complexes of Various Purple Bacteria
- 2:50 pm **Roman Yu. Pishchalnikov**
On possible mechanism of the femtosecond kinetics modulation in the reaction centers of purple bacteria
- 3.15 pm **Ivan G. Scheblykin**
Mapping exciton localization and energy transfer in individual LH2 complexes by two dimensional polarization single molecule imaging
- 3.40 pm **- Coffee break -**
- 4.00 pm **David Beljonne**
Light harvesting and charge photogeneration in organics semiconductors: A microscopic picture
- 4.45 pm **A. Eisfeld**
Using QM/MM Methods to Obtain Optical and Transfer Properties of Light Harvesting Systems
- 5.10 pm **Roberto Mulet**
Quantum Transport is enhanced by centro-symmetric Hamiltonians: Insights from the FMO
- 5.35 pm **Thomas Renger**
How the Protein Dissipates the Excess Energy of Excitons: Insights from a Normal Mode Analysis of the Spectral Density
- 6.00 pm **- Postersession -**
- 7.15 pm **- Dinner -**

Wednesday, April 10, 2013

- 9.00 am **Dirk M. Guldi**
Interfacing nanocarbons with light harvester for the realization of solar energy conversion schemes
- 9.45 am **Margherita Maiuri**
Ultrafast Hot Exciton Dissociation at Organic Interfaces
- 10.10 am **S. Mackowski**
Energy Transfer in Hybrid Assemblies Involving Natural Photosynthetic Complexes
- 10.35 am **- Coffee break -**
- 10.55 am **Alfred A. Holzwarth**
Do non-photochemical quenching in antennae and charge separation in reaction centers have something in common?
- 11.20 am **Leonas Valkunas**
Switching Ability and Adaptation to Different External Conditions of Photosynthetic Proteins
- 11.45 am **Dario Polli**
Identification of a Zeaxanthin-Dependent Regulation of Antenna Size in Higher Plants PhotoSystem I
- 12.10 am **Bruno Robert**
Macrocomplexes tune LHCII structure and function
- 12.35 am **- Lunch -**

- 2.00 pm **Maxwell J. Crossley**
Porphyrim Arrays for Light Harvesting
- 2.45 pm **Michael Jones**
Purple bacterial complexes as a photovoltaic material for direct and alternating photocurrents
- 3.10 pm **M. Olejnik**
Fluorescence Enhancement in Photosynthetic Complexes Bioconjugated with Silver Nanowires
- 3.35 pm **- Coffee break -**
- 3.55 pm **Markus Lippitz**
Ultrafast Spectroscopy of a Single CdSe Nanowire Using a Plasmonic Nanoantenna
- 4.20 pm **Heiko Lokstein**
Non-Linear Spectroscopy to Probe Pigment-Pigment Interactions in Light-Harvesting Complexes
- 4.45 pm **Rafael Camacho**
Two Dimensional Polarization as a New Contrast for Fluorescence Imaging of Bulk Samples
- 5.10 pm **- Postersession-**
- 7.15 pm **- Dinner special -**

Thursday, April 11, 2013

- 9.00 am **Donald A. Bryant**
Synthesis and Assembly of Bacteriochlorophylls c, d, e and f in Green Bacteria
- 9.45 am **Anna Stradomska**
Exciton Dynamics in Self-Assembled Porphyrin Nanotubes. Theoretical Modeling
- 10.10 am **Florian Steiner**
Single Giant Dynamically Conjugated Macrocycles Mimic Light-Harvesting Complexes
- 10.35 am **- Coffee break -**
- 11.00 am **Abey Issac**
Spectroscopy of Single Perylene Bisimide Trimers: How to Identify the Number of Emissive States?
- 11.25 am **Thomas Basché**
Electronic Coupling in a Homologous Series of Molecular Dimers
- 11.50 am **- Closing remarks -**
- 12.00 am **- Lunch -**