

Scientific Program

Tuesday, March 10, 2009

- 2.00 pm **Registration**
- 4.30 pm
- 4.30 pm **Come together**
- 5.20 pm **Opening**
- 5.30 pm **A. Holzwarth**
Harnessing solar energy for the production of clean fuel
- 6.15 pm **K. Müllen**
Light Emitting Nanoparticles
- 7.15 pm **- Dinner-**

Wednesday March 11, 2009

- 9.00 am **S. Scheuring**
High-resolution AFM of the bacterial photosynthetic apparatus
- 9.45 am **R. Gosh**
Have we understood the structure of the photosynthetic unit?
- 10.10 am **A. Freiberg**
Stability of integral membrane proteins under high hydrostatic pressure: The antenna and reaction centre pigment-protein complexes from photosynthetic purple bacteria
- 10.35 am **- Coffee break -**
- 11.00 am **K. Schulten**
Form-follows-function architecture of purple bacterial light-harvesting systems
- 11.45 am **J. Sturgis**
Evidence for mixed antennae complexes in purple bacteria
- 12.10 am **R. Blankenship**
The orientation in the photosystem and high-resolution structure of the FMO protein from green sulfur bacteria

12.35 am **- Lunch -**

2.00 pm **E. Da Como**
Charge transfer excitons in conjugated polymer-fullerene blends

2.25 pm **F.A. Feist**
Fluorescence Excitation and Emission Spectroscopy of Single Conjugated Polymer Chains at 1.2K

2.50 pm **H. Lin**
Bright and Dim Single MEH-PPV Molecules

3.15 pm **R. Hildner**
Electron-Phonon Coupling and Spectral Diffusion in Conjugated Polymers

3.40 pm **Postersession with Coffee, Beer and Pretzel**
- 5.40 pm

6.00 pm **Kloster Banz:**
Chamber concert with Jana und Nina Scheidmantel

7.15 pm **- Dinner -**

Thursday, March 12, 2009

9.00 am **T. Aida**
Light-Harvesting Processes in Dendritic and Tubular Objects

9.45 am **D. Eisele**
Controlled Oxidation of Tubular Double-Walled J-Aggregates

10.10 am **D.A. Vanden Bout**
Polarization Resolved Emission of Single Nanotubular J-Aggregates

10.35 am **- Coffee break -**

11.00 am **J. Psencik**
Organization of bacteriochlorophyll aggregates in chlorosomes of green photosynthetic bacteria

11.25 am **H.J.M. de Groot**
The structure and structure function relation of chlorosome Light-Harvesting Antennae

- 11.50 am **T.S. Balaban**
Self-assembling Chromophores as Mimics of the Chlorosomal Bacteriochlorophylls
- 12.15 am **D. Noy**
De novo designed protein-bacteriochlorophyll complexes: new models for studying photosynthetic light-harvesting processes
- 12.40 am **- Lunch -**
- 2.00 pm Excursion to Church „Vierzehnheiligen“
- 4.00 pm **H. Hashimoto**
Spectrally-Resolved Transient Grating Signal of β -Carotene
- 4.25 pm **P.J. Walla**
Two-Photon excitation for unravelling the carotenoids function in photosynthetic light-harvesting and regulation
- 4.50 pm **T. Polivka**
*Time resolved carotenoid to retinal energy transfer in xanthorhodopsin, a proton pump from cell membrane of *Salinibacter ruber**
- 5.15 pm **- Coffee break -**
- 5.40 pm **Y. Koyama**
The Optically-Forbidden $1B_u^-$ and $3A_g$ -States of All-Trans Carotenoids in Antenna Complexes from Purple Photosynthetic Bacteria: Possible Roles in the Light-Harvesting Function
- 6.05 pm **J. Wachtveitl**
*Energy transfer in the fucoxanthin-chlorophyll protein of *Cyclotella meneghiniana* studied by polarized transient absorption spectroscopy*
- 6.30 pm **A.V. Ruban**
Spectral time-resolved fluorescence studies of the nonphotochemical fluorescence quenching in intact chloroplasts and isolated light-harvesting complexes
- 7.15 pm **- Dinner -**

4.00 pm **S. Mackowski**
Metal - enhanced fluorescence of chlorophylls in single light-harvesting complexes

4.25 pm **A. Govorov**
Theoretical studies of coupled photosynthetic molecules and nanoparticles

4.50 pm **M. Chen**
Antenna systems in Chl d- containing organisms

5.15 pm **Postersession with Coffee, Beer and Pretzel**

7.15 pm **- Dinner Special -**

Saturday, March 14, 2009

9.00 am **U. Woggon**
Quantum dots in energy transfer processes

9.45 am **C. v. Borczykowski**
Surface Reorganization of Colloidal Quantum Dots: Discrimination between FRET and NON-FRET Processes

10.10. am **X.-F. Wang**
Significant enhancement in the power conversion efficiency of chlorophyll co-sensitized solar cells by mimicking the principles in natural photosynthetic light-harvesting complexes

10.35 am **- Coffee break -**

11.00 am **L. Peter**
Characterization and Modelling of Dye-sensitized Solar Cells

11.45 am **Closing remarks**

12.00 am **- Lunch -**