

## 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  $\beta$ -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 -**