

SFB
1078



Protonation Dynamics
in Protein Function

➤ Colloquium

Mon, June 2, 2014 · 16:15 – 18:30 · Lecture Hall B of the Physics Dept.
at Freie Universität Berlin (Arnimallee 14, 14195 Berlin-Dahlem)

16:15 Prof. Alfred Holzwarth,

Max Planck Institute for Chemical Energy Conversion, Mülheim a.d.Ruhr

***Light-harvesting, antenna quenching, and ultrafast charge separation
in reaction centers: A unified view***

Prof. Holzwarth is going to present the principles of light harvesting in photosynthetic antenna complexes, non-photochemical energy quenching, and ultrafast charge separation in reaction centers on the basis of a novel and consistent theoretical approach.

17:30 Dr. Stefan Kubick,

Fraunhofer Institute for Biomedical Engineering (IBMT), Potsdam

***Eukaryotic Cell-free Systems: Novel Strategies for the Synthesis of
Membrane Proteins***

Cell-free protein expression systems, in particular those of eukaryotic origin, have recently been developed as promising tools for the rapid and efficient production of a wide variety of membrane proteins. A large number of these proteins, however, require posttranslational modifications for optimum function. Based on the versatile properties of cultured cell lines, Dr. Kubick and co-workers have developed a technique for the standardized production of translationally active eukaryotic lysates from insect cells. In his talk, Dr. Kubick is presenting the development of this novel eukaryotic *in vitro* translation system, which expands the possibilities of cell-free protein synthesis. (Full abstract is available online.)

Coffee and tea are ready at 16:00 and during the break.

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