

Harnessing Solar Energy for the production of clean fuel is one of the major options for a sustainable fuel source that will allow a switch to a carbon neutral energy economy. In the context of ethical and economical discussion regarding the use of arable land masses and crop plants for biofuel production, an increased focus is currently set on photosynthetic microorganisms such as green microalgae, cyanobacteria and purple bacteria as alternatives in industrial biofuel production systems. The advantages of using microorganisms are high photon conversion efficiencies and production rates, low water requirement and multiple uses in bio-refinery concepts.

This conference will focus its attention on new developments in bio-engineering approaches of different phototrophic microorganisms, advances in the development of cultivation in bioreactors, the conversion of microorganism biomass into fuels of the second generation and the integration of phototrophic biofuel production processes in bio-refinery concepts.

The conference will be followed by an **International Summer School** for early career researchers on 'Techniques and Analyses of Microbial Biofuel Production from Sunlight' (21-24 September 2011, Center for Biotechnology, Bielefeld University).

## RESEARCH CONFERENCES

ESF-BU-CeBiTec Conference

# Microorganisms for Bio-fuel Production from Sunlight

Center for Interdisciplinary Research (ZIF), Bielefeld, Germany  
18-21 September 2011



**Chair: Olaf Kruse** - Bielefeld University, CeBiTec, DE

### Invited Speakers will include:

**Shota Atsumi** - University of California, US; **Yusuf Chisti** - Massey University, US; **James Golden** - University of San Diego, US; **Arthur Grossman** - The Carnegie Institution, US; **Ben Hankamer** - The University of Queensland/ St. Lucia, AU; **Patrik R. Jones** - University of Turku, FI; **Pia Lindberg** - Uppsala University, SE; **Ladislav Nedbal** - Academy of Sciences of the Czech Republic, CZ; **Peter Nixon**, Imperial College London, UK; **Steven Mayfield** - San Diego Center for Algae Biotechnology, US; **Clemens Posten** - Karlsruher Institut für Technologie (KIT), DE; **Jean-David Rochaix** - Université de Genève, CH; **Matthias Roegner** - Lehrstuhl fuer Biochemie der Pflanzen, DE; **Yumiko Sakuragi** - University of Copenhagen, DE; **Louis Sherman** - Purdue University, US; **Alison Smith** - University of Cambridge, UK; **Wim Vermaas** - Arizona State University, US; **Rene H. Wijffels** - Wageningen University, NL; **Annegret Wilde** - Justus-Liebig-Universität Giessen, DE

**Application form & programme** available from

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**Closing date for applications: 31 May 2011**

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