

## General information

### Advisory board

K. J. Dietz  
E. Flaschel  
J. Heberle  
A. Pühler  
N. Sewald  
B. Weisshaar

### Information

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### Registration

For details regarding registration please see  
<http://www.cebitec.uni-bielefeld.de/cebitec/symposium/sbf2008.html>

### Location

Center for Interdisciplinary Research (ZiF),  
Wellenberg 1, 33615 Bielefeld  
(<http://www.uni-bielefeld.de/ZiF>)

### Arrival

**By car:** you can take the A 2 Dortmund - Hanover, exit at "Bielefeld-Zentrum", follow the street signs towards the center ("Zentrum"), and from there follow the signs to "Werther". From the "Wertherstrasse", the ZiF is on the left side on the slope of the hill. The entrance is signposted.

**By train:** Bielefeld can be reached from any major town by trains running on an hourly schedule (Eurocity train system: marked EC, IC, or ICE on the train schedule). From Bielefeld's main station you can either take a taxi to the ZiF (approx. EUR 10,-) or take the underground tram line 4

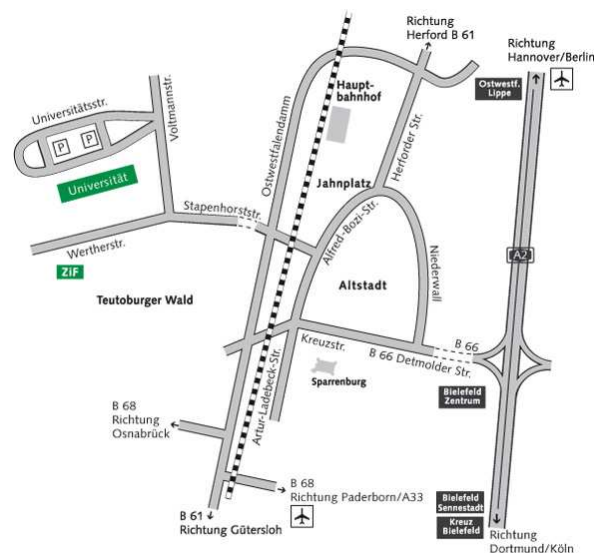
(destination "Universität" or "Lohmannshof"). From the tram stop "Universität" you can reach the ZiF by walking up the hill behind the main building of Bielefeld University (the way is signposted).

**By plane: European flights:** Düsseldorf airport is the most convenient airport to reach Bielefeld and has direct ICE train connections (usually more than one connection per hour, travel time ~1.5 hours).

**Intercontinental flights:** Frankfurt airport is the appropriate destination for intercontinental flights and has direct ICE train connection to Bielefeld (usually more than one connection per hour, travel time ~3 hours).

### From the hotels ("Tulip Inn" or "Mövenpick") to the venue (ZiF):

Both hotels are located close to a tram station. Take tram line 4, destination "Universität" or "Lohmannshof". From the tram stop "Universität" you can reach the ZiF by walking up the hill behind the main building of Bielefeld University (the way is signposted).



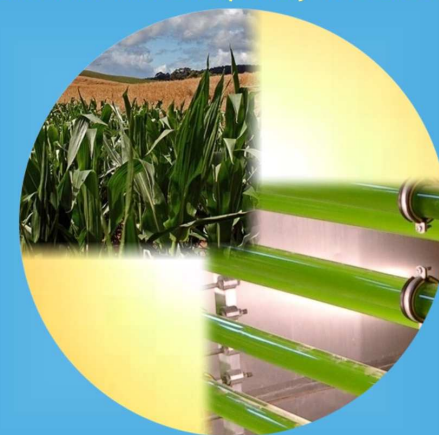
3rd CeBiTec Symposium



# Solar Bio-Fuels

August 12<sup>th</sup> to 14<sup>th</sup>, 2008

Bielefeld University/Germany  
Center for Interdisciplinary Research (ZiF)



»General aspects of bioenergy«

»Alternative biomass«

»Bio-Hydrogen«

»Bio-Methane«

### Organization

O. Kruse, J. Mussnug, ZiF

### Advisory board

K.J. Dietz, E. Flaschel, J. Heberle, A. Pühler  
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### Sponsors

Stadtwerke Bielefeld, Biogas Nord AG

<http://www.cebitec.uni-bielefeld.de>

## Invitation

The Center for Biotechnology (CeBiTec) of Bielefeld University together with the "Solar Bio-Fuels Consortium" cordially invites you to attend the international symposium "Solar Bio-Fuels 2008" which will be held at the Center for Interdisciplinary Research (ZiF) of Bielefeld University from August 12<sup>th</sup> to 14<sup>th</sup>, 2008.

The major topics to be addressed are:

- **General bioenergy aspects**
- **Biomass for bioenergy**
- **Sun light to storable fuels:**
  - Biomethane
  - Biohydrogen

Looking forward to welcome you in Bielefeld to an exciting meeting!

O. Kruse (Chair of the Scientific Committee)

### Tuesday, August 12<sup>th</sup>, 2008

**N. Armaroli** – ISOF-CNR, Bologna, IT  
Energy for the 21<sup>st</sup> century: data, challenges and perspectives

**R. Madlener** – RWTH Aachen, DE  
Socio-economic aspects of bioenergy use: Research needs and Insights

**B. Wolf** – CHOREN Industries GmbH, Freiberg, DE  
Der Kohlenstoffkreisprozess – Regelgröße des Klimawandels

**W. Weindorf** – Ludwig-Bölkow-Systemtechnik GmbH, Ottobrunn, DE  
Overview and well-to-wheel analysis of biomass derived transportation

**I. Kröpke** – Stadtwerke Bielefeld, DE  
Biogas as a completion of the energy portfolio of a public utility

### Wednesday, August 13<sup>th</sup> 2008

**K. Slenzka** – OHB Technology AG, Bremen, DE  
Biosolar Energy and Space Exploration – A Challenge

**C. Dismukes** – Princeton University, US  
Aquatic phototrophs: efficient alternatives to land-based crops for biofuels and biohydrogen

**M. Posewitz** – National Renewable Energy Laboratories, Colorado, US

**O. Kruse** – CeBiTec, Bielefeld University, DE  
Microalgae as a source for biological H<sub>2</sub> production

**J. Heberle** – CeBiTec, Bielefeld University, DE  
Biomimetic H<sub>2</sub> production

**T. Amon** – Institut für Landtechnik, Vienna, AT  
Biogas production: potentials for optimisation along the whole production chain

**M. Klocke** – Leibniz Institut für Agrartechnik, Potsdam, DE  
Diversity and abundance of methanogenic Archaea in biogas reactors

**A. Schlüter** – CeBiTec, Bielefeld University, DE  
The metagenome of a biogas-producing microbial community of a production-scale biogas plant fermenter analysed by the 454-pyrosequencing technology

**K. Niehaus** – CeBiTec, Bielefeld University, DE  
Metabolomic characterisation of the biogas fermentation process

**F. Warnecke** – DOE Joint Genome Institute, Walnut Creek, US  
Metagenomic and functional analysis of the hindgut bacteria of higher termites

**G. Deerberg** – Fraunhofer Institut UMSICHT, Oberhausen, DE  
Coupled production in Biorefineries – Combined use of biomass as a source of energy, fuels and materials

**M. Hannes** – Biogas Nord AG, Bielefeld, DE  
Biogas – optimized energy with future

**C. Posten** – TH Karlsruhe, DE  
Closed Photo-Bioreactors as Tools for Bio-Fuel Production

### Thursday, August 14<sup>th</sup> 2008

**K. J. Hellingwerf** – University of Amsterdam, NL  
The photanol approach. Light-driven CO<sub>2</sub> reduction by a photofermentative chimera

**B. Hankamer** – Institute for Molecular Bioscience, Brisbane, AU  
Economic feasibility studies on 2<sup>nd</sup> generation micro algal biofuel systems

**J. B. Holm-Nielsen** – Aalborg University, DK  
Sustainable Terrestrial Biomass Resources - fruitful competition food-feeds-fuels: Fast bioenergy recovery utilizing photosynthesis C-sources and fermentation biorefinery technologies

**R. Meilan** – Purdue University, West Lafayette, US  
Manipulating Lignin Biosynthesis to Maximize Ethanol Production from *Populus* Feedstocks

**D. Stelling** – Euro Grass Breeding, Lippstadt, DE  
Grasses and Forage Legumes – reasonable biomass sources for production of bioenergy

**Z. Zhou** – Shanghai Institutes for Biological Sciences, CN

**A. Voss** – Syngenta Seeds AB, Landskrona, SE  
Sugar beet for biogas - a preferred feedstock of Syngenta's x-crop Biofuel strategy