



Einladung

# Highlights der Bioenergieforschung

## Nationale und internationale Ergebnisse zu den IEA Schwerpunkten

30. und 31. März 2011  
Fachhochschule Wieselburg

# Programm Tag 2: 31. März 2011

## Transportation Biofuels Research in Austria 2011

### 8:30 Lignocellulosic Biomass and Biofuels

Chair Manfred Wörgetter, FJ-BLT

Availability of forest biomass: regional energy concepts and consumer acceptance

▷ *Josef Walch, FH Wiener Neustadt, Standort Wieselburg*

Logistic chains for wood chips from short rotation forestry

▷ *Franz Handler, FJ-BLT*

Investigation of hydrolytic microorganisms and enzymes for depolymerisation of recalcitrant biomass

▷ *Georg Gübitz, Stefan Weiß, TU-Graz - Umweltbiotechnologie*

Is second generation bioethanol commercialized yet?

▷ *Markus Lehr, VOGELBUSCH Biocommodities*

Assessment of ligno-cellulosic bioethanol concepts in Austria – technical, economic and environmental aspects

▷ *Kurt Könighofer, Joanneum Research - Resources*

The current situation of lignocellulosic bioethanol – with regard to straw in Austria

▷ *Heike Kahr, Alexander Jäger, FH Oberösterreich, Campus Wels*

New avenues for fungal strain improvement towards enzymatic degradation of cellulosic biomass for biofuel production

▷ *Verena Seidl-Seiboth, Christian P. Kubicek, TU Wien - VT*

### 10:15 Coffee Break

### 10:45 Innovative Technologies

Chair Dina Bacovsky, BIOENERGY 2020+

Advanced biofuels by gasification - Status of R&D work in Güssing

▷ *Reinhard Rauch, TU Wien - VT; BIOENERGY 2020+*

New Ways to Aviation Biofuels

▷ *Alfred Ecker, JKU Linz, CEFL*

Direct use of biomass in FCC-plants

▷ *Alexander Reichhold, TU Wien - VT*

Status and prospects for microalgae as raw material for third generation biofuels

▷ *Martin Mohr, ecoduna*

Algae for energy – Identification of the most promising algal-based pathways in Austria

▷ *Maria Hingsamer, Joanneum Research - Resources*

HYVOLUTION – Biological production of hydrogen from biomasses: process balances and process integration

▷ *Walter Wukovits, Domenico Foglia, Anton Friedl, TU Wien - VT*

**12:45 Lunch Break****13:45 Developments for Pure Plant Oil, Biodiesel and Biogas**

Chair Kurt Pollak, New Energies and Strategies

Status and prospects for pure plant oil as transport fuel

▷ *Josef Rathbauer, FJ-BLT*

Biomethane for CNG and Grid Injection using Membrane Processes: New Developments and Technology Rollout

▷ *Michael Harasek, TU Wien - VT*

Environmental assessment of biomethane injected into the gas grid

▷ *Johanna Pucker, Joanneum Research - Resources*

Emissions in the engine combustion of biofuels and fuel mixtures

▷ *Jürgen Blassnegger, TU Graz - VKMB*

Impact of oxygenates in diesel fuel blends on engine emissions and combustion properties

▷ *Philipp Teiner, TU Wien - IFA*

**15:30 Coffee Break****16:00 Biofuels and Sustainability**

Chair Kurt Könighofer, Joanneum Research - Resources

Experiences and lessons learned of applying the GHG-methodology of the European Directive to Austrian biofuel plants

▷ *Gerfried Jungmeier, Joanneum Research - Resources*

BioGrace – Harmonising calculations of biofuel GHG emissions

▷ *Nikolaus Ludwiczek, BIOENERGY 2020+*

Biofuel production in African countries – case studies

▷ *Katharina Zwiauer*

Developing countries – Programs and lessons learned

▷ *Hannes Bauer, Austrian Development Agency*

**17:20 Summary of Day**

▷ *Theodor Zillner, BMVIT, III/I 3*