



EUROPEAN CONFERENCE ON
**BIOREFINERY
RESEARCH**



PROGRAMME

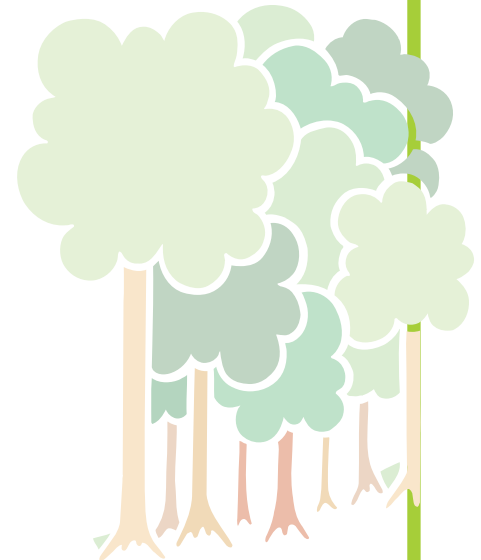
Helsinki, Finland
19-20 October 2006

09:00**Opening :****Policy and strategy supporting the development of a bio-based economy***Chairperson: Christian Patermann, European Commission, DG Research*

- **Growing resources for green future – opportunities for rural areas**
Juha Korkeaoja, Finnish Minister of Agriculture and Forestry
- **European strategy on biomass for energy and biofuels – policy objectives and instruments**
Hilkka Summa, European Commission, DG Agriculture and Rural Development
- **Biomass and agriculture: Sustainability, markets and policies**
Wilfrid Legg, OECD
- **Science-based strategy for bioenergy research**
Antoinette Betschart, US Department of Agriculture

10:45**Coffee break****11:15****European Technology Platforms***Chairperson: Christine Hagström-Näsi, TEKES*

- **European Biofuel Technology Platform**
Luis Cabra, REPSOL
- **Technology Platform – Plants for the future**
Marc Zabeau, European Plant Science Organization
- **Technology Platform on Sustainable chemistry**
Michael Droescher, Degussa
- **Forest-based sector Technology Platform**
Claes-Göran Beckeman, FTP



- 12:30** **Working lunch and visit to the side events**
Posters presenting centres and activities in the field
- 14:00** **Breakout sessions. Biorefinery research and technological development.**
- 15:30** **Coffee break**
- 17:00** **Visit side events**
- 18:30** **Reception – Helsinki City Hall**



Breakout session 1 – Biomass Feedstock and Production

*Chairpersons: Piero Venturi, European Commission, DG Research
Markku Järvenpää, Ministry of Agriculture and Forestry*

Rapporteur: Calliope Panoutsou, Imperial College London

- **The concept of biorefinery for oil crops**
Giovanni Riva, CTI
- **Plant science underpinning the biorefinery – an insight into the EPOBIO project**
Dianna Bowles, CNAP, University of York
- **Selection and breeding of Willows for Biomass Production**
Davorin Kajba, Faculty of forestry, University of Zagreb
- **Agricultural resources: co-products, by-products, wastes and dedicated energy crops**
Ghislain Gosse, INRA
- **Biomass potential assessment and land-use change**
Magdalena Rogulska, ECBREC

Breakout session 2 – Advances in biochemical conversion

*Chairpersons: Ciaran Mangan, European Commission, DG Research
Niklas von Weymarn, Finnish Bioindustries*

Rapporteur: Jim Coombs, CPL

- **Artificial Pathways**
Sven Panke, ETH Zurich
- **Success factors and differences between petrochemical refineries and biorefineries**
Wim Soetaert, Ghent University
- **New thermophilic enzyme systems for biorefineries**
Liisa Viikari, VTT Biotechnology
- **Biodegradable polymers production by mixed cultures from renewable**
Luisa Serafim, University of Lisbon
- **Pentose utilizing yeast in biorefineries**
Bärbel Hahn-Hägerdal, Lund University
- **Biogas from energy crops and biowastes**
Charles Banks, University of Southampton

Breakout session 3 – Advances on thermochemical conversion

5

*Chairpersons: Maria Fernandez, European Commission, DG Research
Timo Nyrönen, Vapo Ltd*

Rapporteur: Kai Sipilä, VTT Processes

- **Co-processing of upgraded bio-oils in standard refinery units**
Yrjö Solantausta, VTT Processes
- **Advances in black liquor gasification**
Ingvar Landälv, Chemrec
- **Fluidised bed gasification and synthetic biofuels, the Güssing plant**
Reinhard Rauch, TU Wien
- **Biomass conversion replacing petrochemicals**
Anthony A.G. Tomlinson, CNR
- **Foams from bio-based resources – Future perspectives**
Jozef Sleenckx, DOW Benelux

Breakout session 4 – Techno-economic and environmental analysis

*Chairpersons: Jeroen Schuppers, European Commission, DG Research
Petri Vasara, Pöyry Ltd*

Rapporteur: Finn Rexen

- **Biorefinery – the bridge between agriculture and chemistry**
Johan Sanders, Wageningen University and Research Centre
- **Biorefinery – A quality investment opportunity**
Christian Kjoeller, Bioraf Contractors
- **Greenhouse gas emissions of bioenergy systems**
Josef Spitzer, Joanneum Research
- **Forest energy in eastern and central Europe**
Mr Janos Horvath, Geo-Montan
- **Material change – the world is looking for new materials: industrial crops**
Christian Gahle, Nova Institute GmbH

09:00**Biorefinery political outlook**

- **Growing resources for green future – investing in science and technology**
Mauri Pekkarinen, Finnish Minister of Trade and Industry
- **Biomass for energy and bioproducts in the European Union**
Janez Potočnik, Commissioner for Research and Science

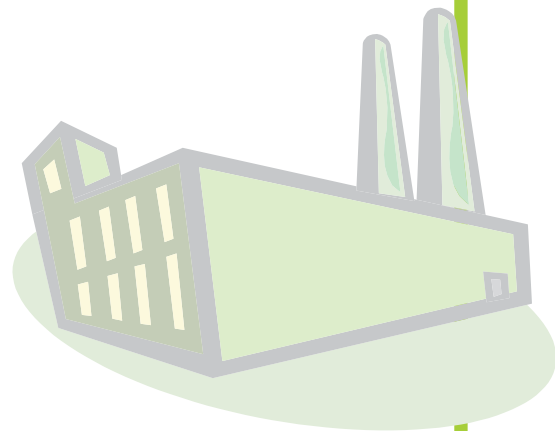
09:40**Building biorefineries. Industrial views and perspectives**

*Chairpersons: Raffaele Liberali, European Commission, DG Research
Anne Brunila, Finnish Forest Industries Federation*

- **The Integrated Forest Biorefinery**
Markku Karlsson, UPM KYMMENE
- **Biomass integration into a petroleum refinery**
Colin Schaverien, Shell Global Solutions
- **Developing biotechnological optimised crop plants,**
Ralf-Michael Schmidt, BASF Plant Science

10:40**Coffee break**

- **White biotechnology: Europe on the move**
Colja Laane, DSM
- **Oils and fats for food, fuels and products**
Luca Amatruda, NOVAOL
- **From bioethanol plant to biorefinery**
Javier Salgado, Abengoa Bioenergy
- **The cereals-based biorefinery: today and tomorrow**
Christophe Rupp-Dahlem, Roquette



12:30 **Working lunch and visit to the side events**

14:00 **Plenary Round Table: The way forward – Conference Conclusions**

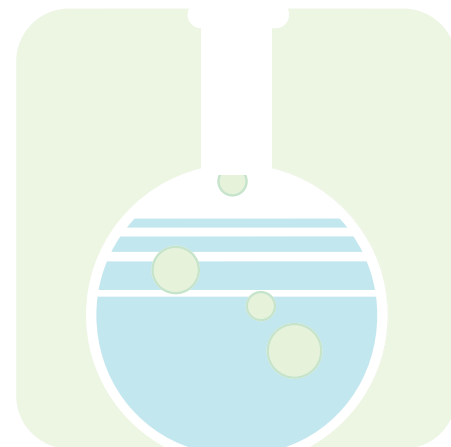
Chairperson: Melvyn Askew, CSL

- **Rapporteurs of the 4 breakout sessions**
- **European Investment Bank**
Pedro Ochoa
- **WWF**
Jean-Philippe Denruyter
- **Copa-Cogeca**
Bruno Sander Nielsen

15:30 **Closing: European 7th Framework Programme for Research**

- **Food, agriculture and biotechnology**
Alfredo Aguilar Romanillos, European Commission, DG Research
- **Energy**
Wiktor Raldow, European Commission, DG Research

16:15 **End of the conference**



BACKGROUND AND OBJECTIVES

Biorefineries use renewable raw materials to produce energy together with a wide range of everyday commodities in an economic manner. Decreasing our dependency on fossil fuels reserves and boosting rural development, biorefineries are seen as a very promising route to meeting our aims for sustained prosperity and preserving the environment.

The conference aims to present the industrial perspectives of current and future biorefineries and to identify opportunities for and synergies among the European stakeholders. The existing European technology platforms on biofuels, forest-based sector, plants for the future and white biotechnology will be presented.

The conference will provide a forum for a technical review of the state of the art for biomass fractionation and conversion technologies. RTD success stories will be described and analysed.

A particular emphasis will be placed on the EU and national policies contributing to the use of renewable raw materials. The potential of the various biorefinery concepts will be put in the context of market conditions and the possible financing mechanisms will be discussed.

PRACTICAL INFORMATION

Dates

From Thursday 19 October 2006 to Friday 20 October 2006

Conference venue

Marina Congress Center
Katajanokanlaituri 6
FI-00160 HELSINKI
Finland

Welcome desk

The welcome desk, where you will receive your badge and conference kit, will be open from 8:00 on 19 October until the end of the conference.

Poster session and stands

A poster session will display complementary information on centres of excellence and activities currently under way. Two stands, Finnish and European Commission DG Research, will present comprehensive information on corresponding activities related to biomass and research.

Thematic visit

A thematic visit to Neste Oil refinery at Porvoo is organised for 18th October. It will include presentations of the NExBTL biofuel technology and their current biorefinery R&D. A visit to the NExBTL plant under construction is also foreseen. The group will leave the Scandic Grand Marina Hotel at 15:30 hours.

Fees

There are no registration fees for this conference

Lunches and cocktail

The conference participants are invited to lunches on 19 and 20 October 2006. A conference reception hosted by the City of Helsinki will take place on the evening of the 19th of October in the Helsinki City Hall starting at 18:30.

Interpretation

No interpretation will be provided.
English will be the speaking language of the conference

Conference outcome

To learn more about the outcome of the conference please consult the "Event" chapter in our website:
<http://europa.eu.int/comm/research/energy>