



**Program of the 2<sup>nd</sup> Nordic Wood Biorefinery Conference  
Finlandia Hall, Helsinki, Finland, September 2–4, 2009**

[www.kcl.fi/nwbc-2009](http://www.kcl.fi/nwbc-2009)

**Wednesday, September 2, 2009**

8.30 Registration opens

**10.00-12.15 Opening Session, Chairman Antti Jääskeläinen, Stora Enso**

- 10.00-10.15 Opening address (Anne Brunila, The Finnish Forest Industries Federation)
- 10.15-10.45 Actions toward European public and private partnership of biorefineries (Kimmo Kalela, Forest-based Sector Technology Platform, FTP)
- 10.45-11.15 Availability of woody biomass for biorefining in Europe (Antti Asikainen, Finnish Forest Research Institute, Metla)
- 11.15-11.45 EU policy on promoting biofuels (speaker to be confirmed)
- 11.45-12.15 What I have to know about REACH? (Birgit Aurela and Marja Pitkänen, KCL)
- 12.15-13.15 Lunch break

**13.15-14.55 Market trends, Session Chairman Antti Jääskeläinen, Stora Enso**

- 13.15-13.40 Biorefinery concepts for low cost chemicals (Burkhard Ernst, BASF)
- 13.40-14.05 Bio-plastics in liquid food packaging (Thorbjörn Andersson, Tetra Pak)
- 14.05-14.30 Green chemicals in mechanical wood products industry (speaker to be confirmed)
- 14.30-14.55 Current status and outlook for biofuels in transport (Nils-Olof Nylund, VTT)
- 14.55-15.25 Coffee break

**15.25-17.10 Biorefinery programs and projects, Session Chairperson Christine Hagström-Näsi, Forestcluster Ltd**

- 15.25-15.40 The BioRefine programme in Finland (Tuula Mäkinen, VTT)
- 15.40-15.55 FuBio, Future Biorefinery program by Finnish Forest Cluster (Niklas von Weymarn, VTT)
- 15.55-16.20 Pulp mill biorefinery concepts at Innventia (Peter Axegård, Innventia)
- 16.20-16.45 Austrian Wood COMET program 2008-2015 (Moritz Leschinsky, Kompetenzzentrum Holz GmbH)
- 16.45-17.10 Dutch paper and board industry: biorefinery by cooperation and symbiosis (Annita Westenbroek, KCPK)

**19.00 Reception at the City Hall by courtesy of the City of Helsinki**

**Thursday, September 3, 2009**

**8.30-12.00 *Biorefinery processes and concepts, Session Chairman Peter Axegård, Innventia***

- 8.30-8.50 Forest bioproducts research in Maine: Biorefinery technology demonstration at a pulp mill (Hemant Pendse, University of Maine)
- 8.50-9.10 New generation of kraft processes (Herbert Sixta, Helsinki University of Technology)
- 9.10-9.30 Biorefineries in a kraft pulp mill: from bioethanol to cellulose nanocrystals (Christine Chirat, Dominique Lachenal and Alain Dufresne, Grenoble INP-Pagora)
- 9.30-9.50 New forest biorefinery concepts (Markku Hurme, Helsinki University of Technology)
- 9.50-10.20 Coffee break
- 10.20-10.40 Pretreatment strategies in the wood based biorefinery (Karin Øyaas, PFI)
- 10.40-11.00 Ionic liquids in wood biorefining - possibilities and challenges (Ilkka Kilpeläinen, University of Helsinki)
- 11.00-11.20 CIMV biorefining process (Bouchra Benjelloun-Mlayah, CIMV)
- 11.20-11.40 Biorefining opportunities for mechanical pulp industry (Bjarne Holmbom, Åbo Akademi)
- 11.40-12.00 Process integration for biorefinery implementation – results from case studies (Thore Berntsson, Chalmers University of Technology)
- 12.00-13.00 Lunch break

**13.10-17.10 *Biofuels, Session Chairman Markku Karlsson, UPM-Kymmene***

- 13.10-13.40 Development of wood hydrolysis industry in the Soviet Union and Russia (Mikhail Rabinovich, Bach Institute of Biochemistry, Russian Academy of Sciences)
- 13.40-14.00 Ethanol from cellulose – challenges and opportunities (Sune Wännström, SEKAB E-technology)
- 14.00-14.20 Second generation ethanol through alkaline delignification of biomass (Niklas Berglin, Innventia)
- 14.20-14.40 Norske Skog biodiesel project (speaker to be confirmed, Xynergo)

**14.40-15.40 *Coffee break and poster session***

**15.40-17.10 *Bio-oils (Biocoup EU project), Session Chairman Markku Karlsson, UPM-Kymmene***

- 15.40-16.00 BIOCOUP: renewable energy from forest industry to conventional refineries (Yrjö Solantausta, VTT)
- 16.00-16.20 Production of bio-oil from forest residues (VTT)
- 16.20-16.35 Upgrading of bio-oil to a refinery feed (Kees Hogendoorn, University of Twente)
- 16.35-16.50 Bio-oils in refinery operations (Claude Mirodatos, CNRS)
- 16.50-17.10 Chemicals from the forest bio-oil chain (Eindhoven University of Technology)

**19.30 *Dinner at restaurant Walhalla, Suomenlinna/Sveaborg***

**Friday, September 4, 2009**

**8.30-11.40 Chemicals and materials, Session Chairman Niklas von Weymarn, VTT**

- 8.30-8.50 Fermentative upgrading of xylose (Urika Rova and Chris Berlund, Luleå University of Technology)
- 8.50-9.10 Rare sugars from wood hemicelluloses (Katja Häkkä, Danisco)
- 9.10-9.30 A library of alkyl-functionalized forestry-derived hydrogels (Ann-Christine Albertsson, Royal Institute of Technology)
- 9.30-9.50 New functional cellulosic fibres – the smartcel process (Ralf-Uwe Bauer, smartfiber AG)
- 9.50-10.20 Coffee break
- 10.20-10.40 Potential lignin applications beyond energy (Karin Lindgren, Innventia)
- 10.40-11.00 Separation of lignin and hemicelluloses from alkaline process liquors, Fredrik Lundqvist, Innventia)
- 11.00-11.20 LignoBoost process (Per Tomani, Innventia)
- 11.20-11.40 Application of innovative lignin composites (Lars Ziegler, Helmut Nägele and Jürgen Pfitzer, Tecnaro; Johanna Lampinen, VTT)
- 11.40-12.40 Lunch break

**12.40-14.40 Selection of EU projects, Session Chairperson Annita Westenbroek, KCPK**

Presentations on a number of ongoing or recently started or approved EU projects.

**14.40-15.00 Closing session**