

COST-ESF High-level Research Conference on The Future Role of Bio-energy from Tree Biomass in Europe

PROGRAMME

Monday 7 November

- 9:00-10:00 Registration at the ESF desk
- 10:00-11:15 Transfer Hotel Europahaus to Monastery of Klosterneuburg
- 11:15-11:30 Abtprimas **Bernhard Backovsky** - Stift Klosterneuburg, AT
Stefan Schmuckenschlager - Mayor of Klosterneuburg, AT
Monica Dietl – Director COST Office, BE
Words of welcome

Opening session

Chaired by: **Peter Mayer** - Federal Research and Training Centre for Forests, Natural Hazards and Landscape (BFW), AT

- 11:30-12:30 **Tattersall Smith** - University of Toronto, CA
Forests as a source of bioenergy - ecological sustainability and soil productivity (EN)
Franz Stefan Hautzinger - President of the Chamber of Agriculture of Burgenland, AT
Wood biomass as a safe supplier of energy from our forests (DE)*
Niels Elers Koch - President - IUFRO, DK
Forests as a source of bioenergy - operational and economic challenges (EN)
Stephan Pernkopf - Provincial Counselor for Agriculture of Lower Austria, AT
Lower Austria's energy roadmap – The potential of biomass (DE)*
Niki Berlakovich - Minister of Agriculture and Forestry, AT
*Austria on the road to energy autarchy: Which role do forests play? (DE)**
- 12:30-14:00 Lunch break - *Invitation by the Austrian Minister of Agriculture and Forestry*
- 14:00-14:20 **Paul Rübiger** European Parliament, INT
*The European Union's climate protection and energy policy (DE)**
**simultaneous translation will be provided*

Guided Tour

- 14:20-18:00 **Hubert Fladl** - Monastery of Klosterneuburg, AT
Visit of the heating power plant and the monastery of Klosterneuburg (DE&EN)
- 18:00-20:00 Wine tasting & Finger food buffet
- 20:00 Transfer Monastery of Klosterneuburg to Europahaus

Tuesday 8 November

- 9:00-9:10 **Peter Mayer** - Federal Research and Training Centre for Forests, Natural Hazards and Landscape (BWF), AT
Words of welcome
- 9:10-9:25 **Monica Dietl** - Director COST Office
Introducing COST
- 9:25-9:45 **Sjur Baardsen** - Norwegian University of Life Sciences, NO & Chair of the COST Domain Committee "Forests, their Products and Services (FPS)"
Introducing the COST Domain on Forests, their Products and Services (FPS)
- 9:45-10:00 **Malgorzata Tkatchenko** - Commissariat à l'Energie Atomique (CEA) & ESF Rapporteur
Introducing the European Science Foundation

Session 1: Availability of biomass

Chaired by: **Robert Jandl** - Federal Research and Training Centre for Forests, Natural Hazards and Landscape (BWF), AT

- 10:00-10:30 **Markus Lindner** - European Forest Institute (EFI), FI
Forest energy potential – Results from the EU Wood Project
- 10:30-11:00 **Gerhard Mannsberger** – Federal Ministry of Agriculture, Forestry Environment and Water Management, AT
Implementing a national strategy on biomass mobilization
- 11:00-11:30 Coffee break
- 11:30-11:50 **Antti Asikainen** – Finnish Forest Research Institute (METLA), FI
Impact of annual felling, CO² prices, national subsidies on forest fuel availability in Finland
- 11:50-12:10 **Toru Terada** - University of Tokyo, JP
Wood Energy from Satoyama Woodlands
- 12:10-12:30 **Klemens Schadauer** - Federal Research and Training Centre for Forests, Natural Hazards and Landscape (BWF), AT
How much biomass can be mobilized for energetic use - Central Europe
- 12:30-13:00 Discussion
- 13:00-14:30 Lunch break

Session 2: Biodiversity, landscape ecology and soil water quality

Chaired by: **Tattersall Smith** - University of Toronto, CA

- 14:30-15:00 **Inge Stupak Møller** - University of Copenhagen, DK
Forest energy and soil sustainability
- 15:00-15:30 **Hillevi Eriksson** - Swedish Forestry Agency, SE
Sustainability criteria in practice
- 15:30-15:50 **Berthold Heinze** - Federal Research and Training Centre for Forests, Natural Hazards and Landscape (BWF), AT
Dealing with genetic variability of willows and poplars in short-rotation plantations
- 15:50-16:20 Coffee break
- 16:20-16:40 **Hans Langeveld** - Bioresearch, NL
Land use questions / sustainability
- 16:40-17:00 **Hannes Böttcher**
IIASA, AT
Projection of the EU27 forest carbon sink and effects of recent bioenergy policies using two advanced forestry models
- 17:00-17:20 **Paul Schmidt-Walter** - University of Goettingen, DE
Groundwater recharge and nitrate leaching rates of short rotation coppices from poplar and willow

- 17:20-17:40 **Karin Eklöf** - Swedish University of Agricultural Sciences, SE
Does logging, stump harvesting and site preparation lead to leakage of mercury?
- 17:40-18:30 Poster Session - *For accepted posters, please refer to the list of posters*
- 19:00 Dinner

Wednesday 9 November

Session 3: Supply chain and system evaluation

Chaired by: **Rolf Björheden** - Skogforsk Uppsala, SE & IUFRO Task Force "Forest Bioenergy", INT

- 9:00-9:30 **Raffaele Spinelli** - Trees and Timber Institute IVALSÀ, IT & Vice Chair FPS COST Action FP0902
Technical and economic evaluation of supply systems
- 9:30-10:00 **Hans Heinemann** - ETH Zurich, CH (*Participation sponsored by IUFRO*)
Environmental performance assessment of biofuel supply chains - state and perspectives
- 10:00-10:20 **Karl Stampfer** - University of Natural Resources and Applied Life Sciences Vienna, AT & MC
Member FPS COST Action FP0902
Regional wood chip supply networks for the Alps
- 10:20-10:40 **Paula Jylhä** - Finnish Forest Research Institute (METLA), FI
Whole-tree harvesting of small-diameter Scots pine for integrated pulp and energy production in a kraft pulp mill
- 10:40-11:10 Coffee break
- 11:10-11:30 **Rolf Björheden** - Skogforsk Uppsala, SE & IUFRO Task Force "Forest Bioenergy", INT
Critical factors for forest fuel supply chains
- 11:30-11:50 **Antti Asikainen** - The Finnish Forest Research Institute (METLA), FI
Simulations vs Empirical studies as forest fuel systems analysis tools
- 11:50-12:10 **Walter Warkotsch** - Technische Universität München, DE (*Participation sponsored by IUFRO*)
Contribution of precision forestry to improve supply chains
- 12:10-12:30 **Victoria Lerma** - AIDIMA, ES
Prediction system for availability of biomass
- 12:30-12:50 **Mohammad Ghaffariyan** - University of Tasmania, AU
Optimising chipping of pine residues in Victoria (Australia)
- 12:50-13:10 Discussion
- 13:10-14:30 Lunch break
- 14:30-14:50 **Erhan Caliskan** - Karadeniz Technical University, TR
Optimising forest biomass transports
- 14:50-15:10 **Mika Yoshida** - University of Tokyo, JP
Relation between chipping site and transportation cost
- 15:10-15:30 **Peter Rauch** - University of Natural Resources and Life Sciences Vienna, AT
Evaluating procurement risks of the biomass feedstock in Austria
- 15:30-16:00 Coffee break
- 16:00-17:00 Poster Session - *For accepted posters, please refer to the list of posters*
- 17:00-17:20 **Inge Stupak Møller** - University of Copenhagen, DK
Dominik Röser – Finnish Forest Research Institute (METLA), FI & Chair of FPS COST Action FP0902
Presentation of multidisciplinary COST Action proposal
- 17:20-18:00 Discussion
- 19:00 Dinner

Thursday 10 November

Session 4: Forest biomass as feedstock for the energy and biorefinery sector

Chaired by: **Elspeth MacRae** - Scion, NZ & IUFRO Task Force "Forest Bioenergy", INT

- 9:00-9:30 **Elspeth MacRae** - Scion, NZ & IUFRO Task Force "Forest Bioenergy", INT
Biorefinery processes and products using trees
- 9:30-09:50 **Birgitta Strömberg** - Thermal Engineering Research Association, SE
Forest biomass as a feedstock for thermal conversion
- 09:50-10:10 **Suzanne Wetzel** - Canadian Wood Fibre Centre/Canadian Forest Service, CA
Heterogeneity of forest harvest residue from Eastern Ontario Biomass Harvests
- 10:10-10:30 **Daniel-Calin Ola** - Transylvania University, RO
Energy or insulation from fibre plants
- 10:30-11:00 Coffee break
- 11:00-11:20 **Carmen Guedes** - University Londrina, BR
Lignocellulosic derived bio-oil for petroleum blends
- 11:20-11:40 **Patricia Bubner** - University of Technology Graz, AT
Cellulases dig deep
- 11:40-12:10 **Anna Suurnakki** - VTT Technical Research Centre, FI
The green biorefinery
- 12:10-12:30 Discussion
- 12:30-13:30 Lunch break

Session 5: Summary and Research Strategy

Chaired by: **Johannes Schima** – Federal Ministry of Agriculture, Forestry Environment and Water Management, AT

- 13:30-14:00 **Tattersall Smith** - University of Toronto, CA
Research Priorities for Mobilizing Sustainable Supply Chains
- 14:00-14:30 **Dominik Röser** - Finnish Forest Research Institute (METLA), FI & Chair of FPS COST Action FP0902
Raffaele Spinelli – Trees and Timber Institute IVALSIA, IT & Vice Chair of FPS COST Action FP0902
The Importance of International Research Collaboration
- 14:30-15:00 **Rolf Björheden** - Skogforsk Uppsala, SE & IUFRO Task Force "Forest Bioenergy", INT
Visionary documents on Forest Energy cases and Outlook on the role of bioenergy 2050 and 2100

Forward Look Session

Chaired by: **Rolf Björheden** - Skogforsk, SE

- 15:00-15:30 Discussion about future developments in the field
- 15:30-16:00 Coffee break
- 16:00-18:30 **Susanne Schidler**, AT
Interactive session for early researchers on Sustainable Biomass-Use
- 20:00 Conference dinner