

NJF seminar 405

Production and Utilization of Crops for Energy

Vilnius, Lithuania, 25-26 September 2007

Programme

25 September

- 09:00-10:00 **Registration**
Hotel Conti, Vilnius
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- 10:00-10:15 **Opening**
Prof. Kestutis Navickas, Lithuanian University of Agriculture; Department of Agroenergetics, Lithuania.
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- 10:15-14:00 **Session 1: Choices of crops for energy production**
- 10:15-11:00 **Keynote: Potential biomass production for the European energy sector. How big share from sustainable biomass production? A critical review including environmental concerns and considerations between food, feed and fuel supply.**
Head of Bioenergy Department Jens Bo Holm-Nielsen, Aalborg University of Southern Denmark, Denmark.
- 11:00-11:20 **Opportunities for Norwegian production of biofuels from agricultural crops**
Ragnar Eltun, Bioforsk Arable Crop Division, Norway
- 11:20-11:40 **Grassland biomass for energy: possibilities and expectations**
Zydre Kadziuliene and Aldona Kryzeviciene, Plant Nutrition and Agroecology Department, Lithuanian Institute of Agriculture, Lithuania
- 11:40-12:00 **The role of legumes in bioenergy production**
Fred Stoddard, Department of Applied Biology, University of Helsinki, Finland
- 12:00-13:00 **Lunch and poster viewing**
- 13:00-14:00 **Session 1 continues:**
- 13:00-13:20 **Potential of Galega orientalis as energy crop**
Rein Lillak, Estonia,
- 13:20-13:40 **Potential of grassland in the EU to renewable resources**
A. Prochnow, M. Plöchl, M. Heiermann, C. Idler and H. Jacobs, Technology Assessment and Substance Cycles, Leibniz Institute for Agricultural Engineering Bornim, Germany
- 13:40-14:00 **Introduction to posters in session 1 and discussion**
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- 14:00-14:30 **Coffee break**
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- 14:30-17:00 **Session 2: Various ways to utilize crops for fuel and energy**
- 14:30-15:15 **Keynote: Biogas from energy crops - Techno-scientific evaluation of the**

	fast growing biogas market in Germany <i>Prof. Peter Weiland, Federal Agricultural Research Centre, Institute of Technology and Biosystems Engineering, Germany,</i>
15:15-15:35	Some experience of using cereals for heat production <i>Ina Belicka and Janis Mucenieks, State Stende Cereal Breeding Institute. Latvia</i>
15:35-15:55	Biogas in Norwegian agriculture - potential, technology, and environment <i>John Morken , Norwegian University of Life Sciences, Norway</i>
15:55-16:15	Production and utilization of reed canary grass briquettes: Case of Kuortane <i>Risto Lauhanen and Jussi Laurila, Seinäjoki University of Applied Sciences, School of Agriculture and Forestry, Finland</i>
16:15-16:35	Herbaceous plants utilization for bioenergy production <i>M. Noormets, H. Raave, R. Viraalt, M. Alaru, T. Köster and L. Talgre , Estonian University of Life Sciences, Institute of Agricultural and Environmental Sciences, Estonia</i>
16:35-17:00	Introduction to posters in session 2, and discussion
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17:30-18:30	One-hour introductory walk or bus tour to down-town Vilnius
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19:30-22:00	Seminar Dinner
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08:30-10:15	Session 3: Cultivation, harvesting and management of crops for energy
08:30-09:00	Invited paper: Reed canary grass cultivation for large-scale energy production <i>Principal Research Scientist Katri Pahkala, MTT Agrifood Research Finland, Plant Production Research</i>
09:00-09:20	Energy crop rotation with urban bio fertilizers <i>Jan Erik Mattsson, Sven-Erik Svensson, Charlott Gissen and Thomas Prade, Faculty of landscape planning, horticulture and agricultural science, Swedish University of Agricultural Sciences, Sweden</i>
09:20-09:40	Digested slurry as a fertilizer for biogas ley <i>Petri Kapuinen, Paula Perälä and Kristiina Regina, MTT Agrifood Research Finland, Plant Production Research, Finland</i>
09:40-10:00	Harvest losses in reed canary grass production <i>Timo Lötjönen, MTT Agrifood Research Finland, Plant Production Research, Finland</i>
10:00-10:15	Introduction to posters in session 3 and discussion
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10:15-10:45	Coffee break
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10:45-12:30	Session 4: Energy balance and CO2 balance in energy production from field crops
10:45-11:15	Invited paper: Why diversify annual biomass production for energy - exemplified by green house gas emissions from the Danish IBUS bioethanol production concept <i>Henrik Hauggaard-Nielsen, Risø National Laboratory, The Technical University of Denmark, Denmark</i>

11:15-11:35	Energy balance of barley for ethanol production <i>Hannu Mikkola, University of Helsinki, Department of Agrotechnology , Finland</i>
11:35-11:55	A method how to include machine manufacturing energy in energy balance analysis <i>Jukka Ahokas, University of Helsinki, Department of Agrotechnology, Finland</i>
11:55-12:30	Introduction to posters in session 4 and discussion.
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12:30-13:30	Lunch Restaurant
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13:30-16:30	Session 5: Economical feasibility and implications for agricultural production
13:30-14:15	Keynote: Various measures to achieve the EU goal set for use of bioenergy with focus on field energy. Challenges for agricultural policy. <i>Senior Adviser Birgitta Vainio-Mattila, Ministry of Agriculture and Forestry, Department of Agriculture, Finland,</i>
14:15-14:45	Invited paper: Situation in Lithuania and in the other Baltic countries in bioenergy production and utilization. <i>Director Jonas Simenas and Prof. Kestutis Navickas, Lithuanian Association of Biofuel Producers and Suppliers; Lithuanian University of Agriculture ,</i>
14:45-15:05	Economical aspects of energy crops for the Swedish market <i>Thomas Prade, Swedish University of Agricultural Sciences, Alnarp, Sweden</i>
15:05-15:25	Impact of global ethanol market on EU: Testing for cointegration and causality among EU, USA and Brazil. <i>Xing Liu, MTT Agrifood Research Finland, Economy Research, Finland</i>
15:25-15:45	Potential and plans for bioenergy in Iceland <i>Holmgeir Björnsson, Agricultural University of Iceland, Iceland</i>
15:45-16:00	Introduction to posters in session 5, and discussion.
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16:00-16:15	General dicussion and Closing the seminar
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17:00-17:00	List of accepted posters and unallocated papers: submitting posters is open until 31.8.2008. Abstracts has to be submitted by 31.8.2007.
00:00-00:00	Reed canary grass as a bioenergy crop in Norway <i>Lars Nesheim and Mikkel Bakkegard, Norway,</i>
00:00-00:00	Improved frost tolerance of winter oilseeds for more efficient oilseed and biodiesel production in Norway <i>Wendy Waalen, Norway,</i>
00:00-00:00	Straw biomass - potential raw material for ethanol production <i>Markku Kontturi and Katri Pahkala, Finland,</i>
00:00-00:00	Undersown catch crops as a source of biomass for energy <i>Oiva Niemeläinen, Markku Kontturi, Oiva Nissinen and Lauri Jauhiainen, Finland,</i>
00:00-00:00	Sustainable biofuel production and validation of crop species - a qualitative approach <i>Steffen Blume, Denmark,</i>
00:00-00:00	Potential of Galega orientalis as energy crop <i>Rein Lillak, Estonia,</i>
00:00-00:00	Cereals as source material for bioethanol in Latvia <i>Livija Zarina, Latvia</i>

- 00:00-00:00 ***The abandoned agricultural land resource for bioenergy production: a case study of Estonia***
L. Kukk, A. Astover, H. Roostalu and M. Noormets, Estonia
- 00:00-00:00 ***Fodder galega-grass biomass for renewable energy***
Alexandrs Adamovics, Latvia,
- 00:00-00:00 ***Corn and perennial herbs for high yielding energy crops***
Antti Laine, Finland
- 00:00-00:00 ***Influence of climate change on growth and carbon sequestration potential of bioenergy crops***
Susanne Eich-Greatorex, Norway
- 00:00-00:00 ***Advancement of reed canary grass cultivation in Kainuu area for bioenergy***
Elina Virkkunen, Finland
- 00:00-00:00 ***Field crops as a global bioenergy source***
Katri Pahkala, Kaija Hakala, Markku Kontturi and Oiva Niemeläinen, Finland
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27 September

- 00:00-00:00 **Note: The tentatively planned general excursion on 27.9.2007 is cancelled. Those who wish to visit bioenergy sites on 27.9.2007 should contact Prof. Kestutis Navickas about your interest and an excursion will be arranged if feasible.**