

13th - 15th March 2012
Papenburg/Germany

PROGRAM

Session: energy crops

- 09:00 **Sugar beet for biogas – new techniques and practical results**
Claus Pommerehne, Nordzucker AG, Germany
- 09:20 **Energy crops production – current results 2010 / 2011**
Andreas von Felde, KWS AG Einbeck, Germany
- 09:40 **Use of cereals: grain, straw, GPS – new aspects of breeding and potential**
Joachim Moeser, Saaten Union, Germany
- 10:00 **Breeding for better Bioenergy grasses and practice**
Erik Sacks, University of Illinois, USA

Session: new technologies

- 09:00 **Quality and material specification of biochar from different biomass feedstocks**
Saran Sohi, UK Biochar Research Centre, Edinburgh, UK
- 09:20 **Catalytic hydrothermal methanisation of wet biomass in supercritical water**
Martin Lemann, Hydromethan AG, Switzerland
- 09:40 **Biochar: Haliburton Forest (Canada) – experience and results using life cycle assessment**
Julian Cleary, University Ontario, Canada
- 10:00 **Bioextrusion – extraction of cellulose-based biomass and biogenic residual materials**
Thilo Lehmann, Lehmann Maschinenbau GmbH, Pöhl, Germany

- 10:20 **Discussion**
- 10:30 **Coffee break**

Plenary session: environmental aspects

- 11:00 **Renewable Energy Technologies – IPCC and beyond**
André P.C. Faaij, Copernicus Institute, University Utrecht, The Netherlands
- 11:30 **Sustainable Supply Chain Management in Bioenergy**
Knud Tybirk, Agro Business Park A/S, Tjele, Denmark
- 12:00 **Short rotation as compensation measure**
Frank Wagener, Institute for applied Material Flow Management Fachhochschule Trier /Umwelt-Campus Birkenfeld, Germany
- 12:30 **Environmental life cycle assessment of Best Practise biogasplants in Lower Saxony**
Jutta Geldermann, Maike Schmehl, University of Göttingen, Germany
- Final discussion**
- Conclusion**
- 13:00 **Lunch**
- from 14:00 bis 17:00 **Excursions: 1. Energy-villages: Lathen & Börger 2. New technical methods – The Netherlands**



You reach Papenburg by motorway A 31 or federal highway B 70.
By train you reach Papenburg with InterCity. From the station to the hotel is only 200 m.
Airports: Bremen, Münster, Groningen

Once inside Papenburg, please keep to the exits and streets marked on the plan. When you reach the new town ring road, take directions towards destination 4. Remember that Papenburg stretches over a length of 18 km.

Registration:
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SPECIAL EVENT:
EFC2012 Matchmaking Event

Biomass to Business Talks
»Through more contacts - bigger success for your enterprise«
Lectures on the 14th of March 2012 offer »bilaterale B2B meetings« and the possibility for »Biomass Business Talks«. Book your dates for individual debates with experts and enterprises and discuss about:

- business cooperation & contacts
- new technologies
- innovative developments
- research- and Know-how-transfer
- many other topics

Register online and specify your company profile. Indicate what kind of technology-product-expertise you can offer, what kind of collaboration you are looking for and which ideas you would like to discuss with potential partners.



All profiles will be available online and can be accessed for booking by all Business Talks participants. In this way, it will be clear before the event who you will be meeting, when you will meet them, and who would like to speak to you.

Why take part in the Biomass Business Talks?

- Present, discuss and develop new project ideas
- Meet potential partners for your company
- Discover new export opportunities
- Develop national and international contacts
- Obtain an overview of technological trends and market perspectives

Layout: Margit-Camille

Renewable energies – particularly bioenergy – play a central role in our future energy supplies and in the achievement of climate protection objectives. Under the motto »New concepts in raw materials and efficient utilisation strategies at local, national and global levels«, the 4th International Energy Farming Congress will take place in Papenburg.

THE MAIN THEMES

- Markets and potentials for sustainably produced biomass
- New types of culture and cultivation methods
- Innovative technologies
- Efficient bioenergy use concepts
- Enterprises and researchers provide information about the latest findings and products, practitioners present successful examples from home and abroad

You can discuss these topics with experts from the USA, Canada, Sweden, Finland, Italy, Austria, Bulgaria, Poland, the Netherlands, Switzerland, Hungary, France, Denmark, Ireland, Great Britain and Germany.

Target group:

The Energy Farming Congress is intended as an information and communication platform for scientists, plant breeders, plant cultivation advisors, installation suppliers and planners, energy companies, landowners and other interested groups from energy-crop production wishing to find out more about the use of energy crops for electricity, heat, biogas and fuel production.

Congress languages:

German and English, with simultaneous translation

Costs:

13th March - 15th March: 300,- Euro
1 day only: 150,- Euro
Students: 150,- Euro

Poster presentation:

free: (1 participant per institution)

Presentation throughout the conference.

The organiser reserves the right to change the conference program as well as to postpone or cancel the conference if unforeseen circumstances force this.

Venue:

Hotel »Alte Werft«, Ölmühlenweg 1, 26871 Papenburg

Registration:

Online: www.3-n.info or per fax. Upon entry of your registration you will receive an invoice.
This is also known as Certificate of Attendance.

Cancellation:

Cancelling (in writing) before 1st March 2012 is free.
No refunds are made after this date.

Hotel and accomodation:

3N-Centre of Excellence can help you find a hotel. Early reservation will ensure that you stay in the hotel which hosts the conference, the »Alte Werft«.

12:00 **Poster presentation and registration**

Plenary session

13:00 **Opening**

Arendt Meyer zu Wehdel, *President of the Chamber of Agriculture Lower Saxony, Germany*

13:20 **Greetings**

Reinhard Winter, *Chief Administrative of the Rural District Emsland, Germany*

Andreas Schütte, *Fachagentur Nachwachsende Rohstoffe, Germany*

Introduction

Tanja Klip-Martin, *Executive Member of the Province Drenthe, The Netherlands*

14:00 **Climate change and agriculture - the international challenge**

Gordian Raacke, *Executive Director Renewable Energy Long Island and Global Warming Messenger of the Al Gore team, USA*

14:45 **Coffee break**

15:15 **The European objectives and agreements on biomass and bioenergy with respect to the achievement of EU climate protection goals and the reorganisation of support for agriculture**

Andreas Pilzecker, *Directorate General for Agriculture and Rural Development of the European Commission*

16:00 **Biobased Economy - opportunities for a regional economy**

Roel Bol, *Program Director »Biobased Economy«, Dutch Ministry of Economic Affairs, Agriculture and Innovation, The Netherlands*

16:30 **The Mureck energy concept**

Karl Totter, *SEEG Mureck reg. Gen.m.b.H. Mureck, Austria*

17:00 **Toward sustainability: from government to governance**

Jacqueline Cramer, *Director of the Utrecht Sustainability Institute (USI) and professor in sustainable innovation at Utrecht University, The Netherlands*

17:30 **Global Biomass Potentials**

Round table discussion with the Experts

18:00 **Come together**

19:00 **Dinner speech – Bioenergy in Lower Saxony**

Gert Lindemann, *Minister for Food, Agriculture, Consumer Protection and Regional Development, Germany*

Dinner

Session: New crops

09:00 **SZARVASI - 1st ENERGYGRASS**
Ferenc Fodor, *Eötvös University, Hungary*

09:20 **Sida hermaphrodita – first production experience**
Tobias Klenke, *Visscher Holland, The Netherlands*

09:40 **Virginia fanpetals – an ideal energy crop**
Roman Molas, *University of Life Sciences Lublin and USida, Poland*

10:00 **Actual Results of Cultivating Cup Plant and seeding methods**
Ferdinand Scheidhauer, *N.L. Chrestensen, Germany*

10:20 **Discussion**

10:30 **Coffee break**

Session: Technique

11:00 **Corn spindle – harvest raw material with a future**
Alfred Kindler, *Chamber of Agriculture Styria, Austria*

11:20 **New Combined harvesting methods for biomass**
Johann Rumpler, *Lfl Bernburg, Germany*

11:40 **Biomass Harvest technologies and logistic concepts**
Heinrich Wingels, *Maschinenfabrik Bernard Krone GmbH, Germany*

12:00 **Agri MoDEM: »Next generation fermentation process«**
Paul Harkema, *RED International (Joint Venture between Lely Holding & GET), The Netherlands*

12:20 **Discussion**

13:00 **Lunch**

Session: Practice

14:30 **Fermentation: horse manure, landscape maintenance material**
Walter Danner, *Ruhstorf/Simbach, Germany*

14:50 **Energy production from marine biomass**
Lars Nikolaisen, *Danish Technological Institute, Denmark*

15:10 **Biogas and Algae, a good combination**
Arnold van Diem, *Algae Food & Fuel, The Netherlands*

15:30 **Successful operation management of biogas plants, – experience from practice and prospects for the future**
Dirk Merker, *AUDIT GmbH, Gilserberg-Moischeid, Germany*

15:50 **Coffee break**

Plenary session: Biomass markets

16:30 **Biogas market development for the sustainable vehicle fuel – the case in Sweden**
N.N., *Sweden*

17:00 **Wind meets Biogas** N.N.

17:30 **Biogas concepts in Italy – current situation and perspectives**
Marco Mezzadri, *AIEL - Associazione Italiana Energie AgroForestali Legnaro, Italy*

18:00 **Discussion**

19:30 **Dinner**

Session: biorafinery

09:00 **Breeding Miscanthus and maize for biorefinery**
Luisa Trindade, *Wageningen UR Plant Breeding, The Netherlands*

09:20 **The potential for Grass Biomethane**
Jerry D. Murphy, *Sustainable Energy University College Cork, Ireland*

09:40 **Biorefinery beet leaf**
Klaas Wijnholds, *Wageningen UR*
Paul à Campo, *ACConsult, The Netherlands*

10:00 **Grassa 2.0 – biorefinery of grass and agricultural waste biomass: protein, fibers, juice**
Gjalt de Haan, *De Haan, Contracting firm, The Netherlands*

Session: Biomass from the landscape

11:00 **Bioenergy crops and invasive species**
Jacob Barney, *Virginia Tech, Blacksburg, VA, USA*

11:20 **Harvesting valley meadow grows for biogas**
Søren Ugilt Larsen, *AgroTech A/S, Aarhus, Denmark*

11:40 **Concepts for using reed biomass as local bioenergy and building material**
Anne Hemmi, *COFREEN project Turku University of Applied Sciences, Turku, Finland*

12:00 **Flotsam on the Lower Saxon coast - opportunities for the sustainable exploitation of climate-neutral use**
Finn Ahrens, *3N Göttingen, Germany*

Session: Regional concepts

14:30 **Use of woody landscape material as solid fuel – in Bavaria**
Christian Letalik, *C.A.R.M.E.N. e.V. Straubing, Germany*

15:00 **Carbon tax – experiences from Sweden**
Kjell Andersson, *Swedish Bioenergy Association, Stockholm, Sweden*

15:30 **»Smart Grids« with biogas storage in the Eifel region**
Wilhelm Rose, *RWE Westfalen-Weser-Ems Netzservice, Dortmund, Germany*

The event is organised by the 3N Centre of Experts Lower Saxony, Network of Renewable Resources e.V. and the Chamber of Agriculture Lower Saxony within the framework of the IEE project AGRI FOR ENERGY II and in cooperation with the Dienst Landelijk Gebied from the Netherlands

Organisers and supporters

