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4th BTLtec

GRAZ, AUSTRIA

24 - 25 September

BIOMASS TO LIQUIDS 2009

Hotel Novapark Graz

Austrian Fed Ministry for Transport,
Innovation & Tech
European Commission
BTG Bioliquids BV
Norske Skog/Xynergo
UPM- Kymmene
Purdue University
Idaho National Laboratory
Utah State University - Energy Institute
Bioenergy 2020+ GmbH
Agnion Technologies GmbH
Vienna University of Technology
Joanneum Research
Velocys
Volkswagen
Haldor Topsoe
Southern Research Institute

(with optional site visit to Biomass CHP Güssing & BTL project)

promotion partners



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Day 1 - Thursday, 24 September

- 08:00 Registration & Morning Coffee
- 09:00 Chairman's Introduction & Opening Remarks
Kari Salo, CEO, Carbona Inc
- 09:15 **R&D Policies Update on Pyrolysis & Gasification Technologies**
*Martina Ammer, Mag.(FH) Division for Energy and Environmental Technologies
Austrian Federal Ministry for Transport, Innovation and Technology*
- 09:30 **Overview on Wide Spread Implementation of 2nd Gen Biofuel Demonstration Plants in the World**
*Dina Bacovsky, Senior Researcher
Bioenergy 2020+ GmbH*
- 10:00 Discussion followed by Coffee
- 10:30 **Largest Pyrolysis Oil Producing Plant in Europe using Waste Wood as Feedstock**
*Gerhard Muggen, General Manager
BTG Bioliquids BV*
- 11:00 **Pyrolysis Oil - A Possible Bridge to Large-Scale BTL Diesel Production**
Dr Manfred Kessler, Senior Specialist Process Chemistry & Biofuels, Norske Skog/Xynergo
- 11:30 **UPM-Kymmene's BTL Concept Development**
• integration, gasification test runs and the status of our commercial plant
*Pekka Jokela, Manager, Bioenergy/Biofuels
UPM-Kymmene*
- 12:30 Discussion followed by Lunch
Luncheon sponsored by



- 14:00 Chairman - Afternoon Session
Dr Manfred Kessler, Senior Specialist Process Chemistry & Biofuels, Norske Skog/Xynergo
- 14:05 **Bio-Syntrolysis - Developing Highly Carbon-Efficient BTL Process Combining High Temperature Steam Electrolysis and Biomass Gasification**
• sustainability of recyclable biomass
• can increase of hydrogen improve the yield for biomass conversion ?
*Grant Hawkes, Research Engineer
Idaho National Laboratory*
- 14:30 **Technical, Economic and Environmental Feasibility of Flexible Carbon to Liquid Process**
Prof Fu Zhao, Asst Professor of Mechanical Engineering, Purdue University
- 15:00 Discussion followed by Tea
- 15:30 **Syngas for Second Generation Fuel from Biomass - the Agnion Heatpipe Reformer**
• state-of-the-art for the production and conditioning of Syngas from biomass for the synthesis of BTL and other second generation fuels
*Prof Dr. Ing Jurgen Karl, Founder
Agnion Technologies GmbH*
- 16:00 **Microchannel Technology for Distributed Fischer-Tropsch**
*Dr David Kilanowski
Senior Research Scientist, Velocys*
- 16:30 **Market Perspectives of Biorefinery Products**
*Dr Boyan Kavalov
Directorate-Generale Joint Research Center
European Commission*
- 17:00 Discussion followed by End of Day 1

Day 2 - Friday, 25 September

- 09:00 Chairman's Introduction
*Dr.-Ing Reinhard Rauch, Project Assistant
Vienna University of Technology*
- 09:10 **Status of BioSNG Production and FT Fuels from Biomass Steam Gasification**
*Dr.-Ing Reinhard Rauch, Project Assistant
Vienna University of Technology*
- 09:20 **Styrian Activities Towards Demonstration of Liquid Fuels from Wood**
*Gerfried Jungmeier, Area Manager
Joanneum Research*
- 09:40 **BTL Fuels in Current & Future Engine Technologies**
• economic aspects and potential of reducing energy and greenhouse emissions from all parts of the BTL production process
Dr Frank Seyfried, Head of Group Research Fuels & Oils, Volkswagen
- 10:00 Discussion followed by Coffee
- 10:45 **Efficient Production of Gasoline and Power Using the Topsoe TIGAS Process and Biomass Gasification**
*Poul Erik Højilund Nielsen, Project Director
Haldor Topsoe*
- 11:15 **Exploring Algae as a Potential Feedstock for Liquid Fuels**
*Jeff Muhs, Executive Director
Utah State University Energy Institute*
- 12:00 Final Discussion followed by Closing Lunch
- 13:15 Close of Conference

Site Visit (Optional - Euro 75/per person)
Biomass CHP Gussing Plant & BioSNG

13:45 Depart for
Biomass CHP Gussing Plant & BioSNG

15:00 Arrive Site - Tour for 2 hours

17:00 Leave Site

18:30 Arrive hotel

Biomass CHP Gussing Plant is currently operated on commercial basis for about 7000 hours per year. Due to the high quality of the produced gas, several research projects are going on, using slip streams of the gas from the biomass CHP. The most important are:

- Demonstration of BioSNG (synthetic natural gas)
- Lab scale Fischer Tropsch synthesis
- High temperature fuel cell

Why Graz ?

*Graz is the closest airport situated to the site visit - **Biomass CHP Gussing Plant and BTL project**. It is only an hour by car. Graz is also the second-largest city in Austria after Vienna and the capital of the federal state of Styria. Graz's "Old Town" is one of the best-preserved city centres in Central Europe. In 1999, it was added to the UNESCO list of World Cultural Heritage Sites. Being situated in a cultural borderland between Central Europe, Italy and the Balkan States, Graz absorbed various influences from the neighbouring regions and thus received its exceptional townscape.*

YOU WILL NETWORK WITH

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Cost Effective Solutions from Transporting Feedstock to Conversion Technologies

Interest in thermochemical conversion of biomass into synthesis gas is gaining ground.

Syngas is the building block to create all chemicals in the petrochemical industry, but the most ultimate and demanding application is its use as a precursor of liquid fuels, in this case BTL fuels.

Biomass-to-liquid (BTL) fuels will in future play a significant role for a sustainable transport strategy and for improved security of fuel supply. R&D efforts and interest shown with regard to BTL fuels is already resulting in a multitude of activities and projects demonstrated in Europe & the US.

The industry continues to face major challenges as many developers race to find cost effective technologies from cleaning the syngas to converting the clean syngas into liquid products thru the FT line. Another major challenge is the cost of transporting enough biomass to allow plants to take advantage of economies of scale.

Currently most BTL projects announced in Europe are partnerships and co-located near pulp & paper mills. The newly commissioned Choren Beta plant which utilizes forest residue and waste wood is said to take in 68,000 tons of biomass per year and will produce 18 million liters of diesel and 45 MW of power.

Is this plant large enough to be profitable ? Is waste wood and forest residue the only cheap feedstock available ? Has the industry explored feasibility of algae as a potential feedstock, or municipal solid wastes ?

CMT's 4th **BTLtec** has lined up key experts who will share with you on

- Developments / Updates on UPM Kymmene & Xynergo's BTL project
- R & D efforts on pyrolysis & gasification technologies
- Flexible Carbon-to-Liquid process and feasibility studies
- Syngas cleaning for biorefinery integration and scale up efforts
- Exploring algae as the key pathway towards creating BTL fuels
- BTL fuels for future engine technologies
- Microchannel technology for distributed FT process

and many more

Including a half day optional site visit to the **Biomass CHP Gussing Plant & BioSNG** demonstration plant. Places are limited and on a first come first serve basis. Sign up at cynthia@cmtsp.com.sg to reserve your seats.

Feedback from 3rd BTLtec Gothenburg

"Interesting presentations, a lot of new information" Application Engineer, Metso

"Good learning experience in all fields related to BTL and nice networking" Biz Analyst, Sasol Tech

"Very good conference with great networking opportunities" Consultant, VVBGC

"Informative window into the BTL world" R&D Engineer, Vattenfall

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AIRMAIL

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By Email: cynthia@cmtsp.com.sg
By Fax: 65-6345 5928
By Tel: 65-6346 9132

FEES

The full Registration Fee includes cost of all sessions, luncheon, coffee/tea & documentation.

Conference Fee for 1 Person	Conference Fee for 3 or more* (from the same company)
EUR1195	EUR995 (MIN SAVINGS OF EUR600)
<input type="checkbox"/> Site Visit ~ EUR75 (please tick for site visit)	

* Terms and conditions apply.

Cancellations, Refunds & Transfers: A full refund will be promptly made for all written cancellations 3 weeks before the meeting. Thereafter, cancellations are not refundable. A substitute may be made at any time.

PAYMENT

By Telegraphic Transfer

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TT must include additional EUR18 for Beneficiary's Bank charges. Delegates must bear all bank charges and local taxes (if applicable). Fees must be NETT of ALL charges.

CONFERENCE VENUE

CMT has arranged special discounted room rate at EUR 69 (Single) per person per night inclusive of 1 Breakfast (subject to room and rate availability) for delegates at **Hotel Novapark Graz**. Please reserve your room with the hotel directly quoting "CMT", providing full credit card number and expiry date to:

Birgit Münzer, Reservations
Hotel Novapark Graz
Fischeraustraße 22
A-8051 Graz
Austria

Tel: +43 316 682010 ext 640
Fax: +43 316 682010-55
Email: reservierung@novapark.at
Cut off Date for Room Booking: 23 August 2009

Photocopy Registration Form to Preserve Brochure Copy, Sept 2009

CMT'S 2009 EVENTS

7th WORLD SugarTrade

SINGAPORE, 29 - 30 September

"Will Sugar Fundamentals Remain Bullish?"
"Sourcing for finance in current liquidity crunch"

2ND ALGAE WORLD ASIA N

KUALA LUMPUR, 20 - 21 October

"Maximising the Potential of Algae"

2nd JATROPHA WORLD Africa

BRUSSELS, 14 - 15 October

"Optimising the Efficiency and Economics of Jatropha"

Biomass & WtE

SHANGHAI, 28 - 29 October

"Regional Bio-power & Energy Recovery with Regulatory and Financial Stimulus"

CUSTOMISED SPONSORSHIP PACKAGES AVAILABLE - This event is an excellent platform to promote your organisation to influential players and investors in the industry. Sponsorship opportunities available include Corporate, Exclusive Luncheon, Cocktail & Documentation sponsor. Exhibition / catalogue display can be arranged upon request. Contact cynthia@cmtsp.com.sg or (65) 6346 9132.