With Thanks to Our Sponsors:

LIGNOFUELS 2017
1st - 2nd February, Helsinki, Finland
Advanced Biofuels & Materials

KEY TOPICS:
- Advanced Biofuels & Materials: European Market Overview
- Latest Developments in Modern Biorefineries
- Advancing Pre-Treatment Processes
- Renewable Aviation Fuel - Production of Jet Fuels from Biomass Feedstocks
- Supporting Innovation in Advanced Biofuels Industry
- EU Bioenergy Policy & Sustainability Analysis
- Advancing Efficiency and Optimising the Forest Biomass Supply Chain
- Current Certification Schemes for Lignocellulosic Biofuels
- Biochemicals from Lignin and the Commercial Markets for Those Products
- Finance Session: Why Invest in Advanced Generation Fuels?

CONFIRMED SPEAKERS INCLUDE:

Kyriakos Maniatis  
Principal Administrator  
EUROPEAN COMMISSION DG ENERGY

Sari Mannonen  
Vice President  
UPM BIOFUELS

Markku Patajoki  
R&D Manager, Biotechnology  
NESTE

Gerhard Muggen  
Managing Director  
BTG BIOLIQUIDS

Patrick Pitkänen  
Head of Sales and Business Development  
ST1 BIOFUELS

EXCLUSIVE SITE VISIT TO UPM BIOFUELS Lappeenranta Biorefinery:

On Tuesday, 31st of January 2017, a limited number of Lignofuels 2017 Conference delegates will have a unique opportunity to visit the world’s first commercial scale wood-based biorefinery in Lappeenranta, Finland. There is no extra charge to sign up, but spaces are allocated on a first-come, first-served basis.

Please indicate your interest in the site visit (currently on a waiting list) upon conference registration.

Sponsorship & Exhibition Opportunities: Sam Cormack +44(0)203 141 0626 or samc@acieu.net
More Information & Registration: Dimitri Pavlyk +44(0)203 141 0627 or dpavlyk@acieu.net
KEY AREAS OF FOCUS

• Advanced Biofuels & Materials: European Market Overview
• Latest Developments In Modern Biorefineries
• Advancing Pre-Treatment Processes
• Renewable Aviation Fuel- Production of Jet Fuels from Biomass Feedstocks
• Supporting Innovation In Advanced Biofuels Industry

WHO WILL YOU MEET AT THIS EVENT?
Technical, strategic and business development executives from advanced generation biofuels producers, oil refiners, process technology providers, enzyme developers, engineering firms and agribusiness as well as traders & brokers, automotive & aviation industries, financiers, investors, consultants and chemical companies.

PREVIOUS ATTENDEES INCLUDE:

* Abengoa Bioenergy * Accelergy Corporation * Acpcoz * ADEME * Adewunmi Oil * Advanced BioFuels Corp. * Aicgroup * Alfalaval Nordic * Ambiensys
* Southern Research Institute * SQ Consult * Statoil ASA * Stites & Associates * Sterne, Kessler, Goldstein & Fox * Sulzer Pumps Finland Oy * Sumitomo Chemical Europe * Sunoco * S.A./N.V. * Svanholm.com * Synthos Group * TM Industrial Supply * TNO * Tommy Larsen ApS * University of Applied Sciences Upper Austria, Wels * UPM Biofuels * UPM-Kymmene * VALAGRO Association * VIB & KULeuven * VITO NV * Volkswagen AG * Weyland and many more...

REGISTRATION IS SIMPLE:

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**Lignofuels 2017**

**Advanced Biofuels and Materials Conference**

**Helsinki, Finland**

**DAY 1**

**Wednesday 1st of February 2017**

07:45  **REGISTRATION & WELCOME COFFEE**

08:40  **ORGANISERS’ WELCOME MESSAGE**

08:45  **CHAIRMAN’S OPENING REMARKS**

[Image of Erik C. Womslev, Director Innovation, NIRAS]

09:00  **KEYNOTE PRESENTATION**

**Finnish Energy and Climate Strategy – Boost to Biofuels**
- New National Energy & Climate roadmap towards 2030
- The role of wood-based energy and the role of biofuels

[Image of Riku Huttunen, Director General, Energy Department, Ministry of Economic Affairs and Employment, Finland]

09:30  **KEYNOTE PRESENTATION**

**Wood-based biorefineries pave the way to successful bioeconomy**
- UPM biorefinery case study
- The drivers of the advanced biofuels development

[Image of Sari Mannonen, Vice President, UPM Biofuels]

10:00  **CONFERENCE PRESENTATION**

**Advanced Biofuels & Materials: European Market Overview**
- Key developments in Nordic countries with the focus on Finland - the power house of advanced biofuels industry
- EU production capacity and renewable energy framework
- The changing energy landscape & low oil price implications
- Challenges and opportunities for commercial scale advanced biofuel production progress
- Creating the market place and demand for 2G and 3G biofuels and forming industry partnerships

[Image of Marko Jahnunen, Vice President, Stakeholder Relations, UPM Biorefining]

11:00  **CONFERENCE PRESENTATION**

**MORNING REFRESHMENTS & NETWORKING**

**SESSION ONE**

**EU Bioenergy Policy & Sustainability Analysis - The Role of Advanced Biofuels in Decarbonising Transport**
- Session moderated by Marko Jahnunen, Vice President, Stakeholder Relations, UPM Biorefining

**How to Release the Full Potential of Biorefining and Advanced Biofuels?**
- Key implications of the Paris Agreement, the EU burden sharing agreement and proposed Renewable Energy Directive on the advanced biofuels industry?
- EU policy vs. Member State policies: what is the most efficient way to make investments materialize?
- How can the advanced biofuels industry ensure sustainability under all circumstances? How to communicate the sustainability benefits of advanced biofuels?

[Image of Kyriakos Maniatis, Principal Administrator, European Commission, DG ENERGY]
Current Status Of Swedish Biofuels Development And Government Policy
- Development of biofuels in Sweden with analysis 1990-2016
- Current technology status of research and development in biofuels from lignin
- Market trends and future of biofuels and electro mobility
- Overview of government environmental goals for 2030 and biofuel policy
- Proposal for a new long-term steering instrument for biofuels

Iomas Ekboom
Biofuels Expert And Program Manager
For BioDriv Svebio – Swedish Bioenergy Association

Panel Q&A

NETWORKING LUNCH

SESSION TWO
The Modular Fabrication Concept of Small Scale Commercial Plants

Thomas Ladrak
Sales Manager
Zeton BV

Advancing Pre-Treatment Processes
- Recent innovative development in pre treatment processes
- Flexible solutions for different feedstocks
- Enzymatic biomass pre treatment

Markku Patajoki
R&D Manager, Rintechnology
Neste

Conversion Of Biomass To Pyrolysis Oil. An Update On The 5 ton / hour Empyro Pyrolysis Plant After 2 Years of Operation
- Operational results and challenges after 2 years of operation at Empyro
- Delivery of turnkey pyrolysis plants all over the world
- Co-feeding pyrolysis oil to refineries

Gerhard Muggen
Director
BTG-BTL

15:30
AFTERNOON REFRESHMENTS & NETWORKING

16:00
CONFERENCE PRESENTATION
Renewable Aviation Fuel- Production of Jet Fuels from Biomass Feedstocks
- Economically viable alternative jet fuels at commercial scale
- Discussion on future jetfuel markets, biofuels and the changing aviation sector
- State of the art of renewable energy and aviation, analysis of modern technologies revealing opportunities for sustainable fuels an aviation sector
- Scandinavian study outlining sustainable aviation fuels

Erik C. Wormslev
Director Innovation
NIRAS

16:30
CONFERENCE PRESENTATION
Bio-TCat TM Thermal Catalytic Biomass Conversion for Chemicals and Fuels

David Sudolsky
President & CFO
Anellotech

16:50
JOINT CONFERENCE PRESENTATION
Commercial View On The Cellunolix And Advanced Ethanol Market
- Construction, operational, maintenance and upscaling costs
- Design costs & standards

Timo Huhtisaari
Sustainability And Biofuels Expert
North European Oil Trade Oy

- Kajaani plant update

Patrick Pitkänen
Head Of Sales And Business Development
ST1 Biofuels Oy

17:35
CLOSE OF DAY ONE & DRINK RECEPTION

DAY 2
Thursday 2nd of February 2017

08:30
REGISTRATION & WELCOME COFFEE

09:00
SESSION FOUR
Lignofuels 2017
Advanced Biofuels and Materials Conference
Helsinki, Finland

Advanced Biotechnology
Characterization And Upgrading Of Catalytic Flash Pyrolysis Oils From Pine Tree
- A pilot plant study was carried out to determine how hydrotreating of a catalytic pyrolysis oil could be integrated into a refinery
- Haldor Topsoe’s HydroFlex™ technology
- Production of biocrudes from wood using catalytic flash pyrolysis (CLF)

Dr. Jostein Gabrielsen
Principal Research Engineer, Refinery R&D
Haldor Topsoe

10:00 MEMORANDUM & NETWORKING

CONFERENCE PRESENTATION
Renewable Diesel: a Shortcut To Decarbonised Bus Services
- Fleet and decarbonisation strategy of Helsinki Region Transport (HSL)
- Performance of new buses and drop-in type fuels
- From testing to implementation, HSL’s “BioOne Hundred” project

Nils-Olof Nylund
Research Professor, D.Tech.
VTT Technical Research Centre of Finland Ltd

11:35 MEMORANDUM & NETWORKING

CONFERENCE PRESENTATION
Innovative New energy Crop Dedicated For Pulp&Paper, Biorefinery & Bioenergy

Ivo Fouto
CEO
CENERBIO

12:00 MEMORANDUM & NETWORKING

CONFERENCE SESSION FIVE
Status And Development Of Biogas In Scania
- The southern region of Skåne in Sweden has been an early adopter of biogas production and use with around 90% biogas in the public transport sector at the moment
- What are these “right conditions” that has given this development?
- Which local challenges hinder a continuing development in the form of new production and reaching new markets?
- What does the future hold for biogas development in the region?

Desirée Grahn
Director
Biogas Syd

12:20 MEMORANDUM & NETWORKING

Sustainability Certification Of Advanced Bifuels And Materials
- ISCC solutions for sustainable supply chains of advanced biofuels
- Tool for avoiding land use change in lignofuels production

Norbert Schmitz
Managing Director
ISCC
# Lignofuels 2017
## Advanced Biofuels and Materials Conference
### Helsinki, Finland

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<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speakers</th>
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<tr>
<td>12:40</td>
<td>Panel Q&amp;A</td>
<td>Anders Weber, CEO, Biogasol</td>
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<td></td>
<td>CONFERENCE PRESENTATION</td>
<td>Efficiency in Lignocellulosic Conversion</td>
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<td>13:10</td>
<td>NETWORKING LUNCH</td>
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<td>14:00</td>
<td>CONFERENCE SESSION SIX</td>
<td>Examining Lignin Potential</td>
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<td>Issues of greatly expanding biomass supply to meet targets for biofuels and biochemicals to 2030 and beyond</td>
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<td>- The scales of lignocellulosic biomass supply needed for meeting even short-term biofuel and biochemicals targets</td>
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<td>- Identification of regions able to provide significant supply in densified forms - pyrolysis oil and 'black' pellets</td>
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<td>- Critical importance of major effective reforestation programs, and of stringent monitoring of sustainability of sourcing</td>
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<td>14:30</td>
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<td>Andrew Lang, Vice President, World Bioenergy Association</td>
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<td>Biomass Value Proposition: Lignin Bio-Based Products As Key Drivers For Advanced Biofuels Success</td>
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<td>- Energetic market still claims for a real commercialization of advanced biofuels under a competitive framework</td>
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<td>- In this context, lignin produced from non-fermentable material is introduced as a key player in the business model balance</td>
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<td>- Different conversion routes of stillage (non-fermentable fraction), rich in lignin, will be presented as challenging but real opportunities to secure biomass origin advanced biofuels success</td>
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<td>14:50</td>
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<td>Maria Diaz Munuaga, Strategy &amp; Business Development Manager, CENER</td>
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<td>Lignin As A Green Alternative For Bitumen</td>
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<td>- Understand the possibility to partially replace bitumen with a sustainable natural polymers called lignin and investigate new opportunities for lignin</td>
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<td>15:10</td>
<td>Diversifying Lignin Applications</td>
<td>Terd Slegher, Senior Scientist, TNO</td>
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<td>15:30</td>
<td>Panel Q&amp;A</td>
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<td>15:45</td>
<td>AFTERNOON REFRESHMENTS</td>
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<td>16:15</td>
<td>CONFERENCE SESSION SEVEN</td>
<td>Future Insights &amp; Latest R&amp;D Work</td>
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<td>The Born Global Challenge</td>
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<td>- It’s all titled “Stored Solar”</td>
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<td>- Capergy Background</td>
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<td>- Where do you fit in?</td>
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<td>- The rationale</td>
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<td>16:35</td>
<td>Simple Lignin Conversion to Marine Diesel</td>
<td>Magnus Torp, Director Renewables, Capergy SAS</td>
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<td>- A simplified approach to lignin valorization</td>
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<td>- Biorefinery lignin is an ideal feedstock for conversion to a low sulfur diesel which may satisfy marine fuel standards</td>
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<td>- Technical proof of concept was demonstrated in batch autoclave by “cooking” real biorefinery lignin in ethanol</td>
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<td>Joachim Bachmann Nielsen, Department Of Chemical And Biochemical Engineering, Technical University Of Denmark</td>
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16:55

Advance Pretreatment Process of Rice Straw for Bioethanol Production
- Novel two step pretreatment process for rice straw developed at pilot scale of 250 kg/day at Indian Oil R&D
- Rice straw feedstock chosen due to burning problem which release Greenhouse gases
- Improved enzymatic saccharification at low dosage of enzymes or high ethanol titre achieved

Ravi Prakash Gupta
Chief Research Manager
Indian Oil Corporation

17:15
Panel Q&A

17:30

CHAIRMAN’S CLOSING REMARKS

Erik C. Wormslev
Director Innovation
NIRAS

17:35

END OF CONFERENCE

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DOCUMENTATION PACKET
You can purchase the Lignofuels 2017 papers at just £395 (+£25 P&P).

Simply tick the box on the booking form, send it with payment and your copy will be on its way to you after the meeting.

This important manual will be a source of invaluable reference for the future.

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