LIGNOFUELS 2019

ACHIEVING ECONOMIC & TECHNICAL GOALS TO FOSTER INVESTMENT IN COMMERCIAL-SCALE PRODUCTION

KEY TOPICS

- ADVANCED BIOFUELS MARKET OVERVIEW: KEY DEVELOPMENTS & LEGISLATIVE UPDATES
- FEEDSTOCK SUPPLY & FLEXIBLE SOLUTIONS FOR DIFFERENT TYPES OF FEEDSTOCKS
- LATEST TECHNOLOGICAL INNOVATIONS
- ADVANCING THE INDUSTRY
- CELLULOSIC ETHANOL PRODUCTION:
- DEMONSTRATION PLANT CASE STUDIES
- PRETREATMENT OF LIGNOCELLULOSIC BIOMASS: DESIGN CONSIDERATIONS VS OPERATIONAL CHALLENGES
- BIOFUELS & BEYOND: HOW CAN INDUSTRIES WORK TOGETHER?
- LATEST DEVELOPMENTS WITH BIOFUELS FOR THE MARINE INDUSTRY
- LIFE CYCLE ANALYSIS & SUSTAINABLE CERTIFICATION OF FEEDSTOCK & PRODUCTS
- TRANSPORT FUELS DERIVED FROM LIGNOCELLULOSIC FEEDSTOCK: LAND SEA & AIR
- LARGE SCALE PRODUCTION: KEY PARAMETERS TO SCALING UP & COMMERCIALISATION

EXCLUSIVE SITE VISIT
BORREGAARD’S BIOREFINERY

DURING THE AFTERNOON OF 12 FEBRUARY 2019, A LIMITED NUMBER OF CONFERENCE DELEGATES WILL RECEIVE A UNIQUE OPPORTUNITY TO VISIT BORREGAARD’S SECOND GENERATION BIOETHANOL REFINERY IN SARPSBORG.

THERE IS NO EXTRA CHARGE TO JOIN THE SITE VISIT. IT IS CURRENTLY ON A WAITING LIST AND PLACES ARE LIMITED AND ALLOCATED TO THE CONFERENCE DELEGATES ON FIRST COME FIRST SERVED BASIS. RESERVE YOUR SPACE TODAY TO AVOID DISAPPOINTMENT!

CONFIRMED SPEAKERS INCLUDE SENIOR REPRESENTATIVES FROM:

UPM BIOFUELS, SHELL - NEW FUELS, CRI CATALYST COMPANY, STI BIOFUELS OY, SÜDRA INNOVATION & NEW BUSINESS, GOODFUELS, NEUT, BORREGAARD, PÖYRY, NIRAS, SEKAB, AVINOR, STEEPER ENERGY, ECO-1 BIOENERGY AS, SCA ENERGY AB, ROUNDBALL ON SUSTAINABLE BIOMATERIALS (RSB), PREEM AB, RENFUEL, EUROPEAN COMMISSION DG ENERGY, STATKRAFT, AVIATION INITIATIVE FOR RENEWABLE ENERGY IN GERMANY (AIREG), INTERNATIONAL ENERGY AGENCY (IEA) AND MANY MORE...

More Information & Registration:
Dimitri Pavlyk - dpavlyk@acieu.net or +44 203 141 0627

WITH THANKS TO OUR SPONSORS:

Sponsorship & Exhibition Opportunities:
Sam Cormack - Samc@acieu.net or +44 203 141 0626
LEADERS IN CONFERENCE
PLANNING & PRODUCTION

www.wplgroup.com/aci

ACFs 11th Annual Lignofuels Conference will be taking place in Oslo, Norway on the 13th-14th February 2019. The two day conference will bring together key industry stakeholders to discuss policy frameworks & innovative commercial technologies in the production of second and advanced generation biofuels.

KEY AREAS OF FOCUS
• Advanced Biofuels: European Market Overview
• Latest Developments In Modern Biorefineries
• Advancing Pre-Treatment Processes
• Renewable Aviation and Marine biofuels
• Fuel Production Biomass Feedstocks
• Supporting Innovation In Advanced Biofuels Industry

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

SAMPLE LIST OF CONFIRMED ATTENDEES:

EXCLUSIVE SITE VISIT - Tuesday, 12th February

Borregaard’s production facility ‘The world’s most advanced Biorefinery’: A day prior to the conference, a limited number of conference delegates will have a unique opportunity to join an exclusive site visit to Borregaard’s Biorefinery in Sarpsborg, Norway.

There is no extra charge to join a site visit, although places are limited and allocated to conference delegates on first come first served basis.

Therefore, we would strongly suggest to book your place early to avoid disappointment.

SPEAKING OPPORTUNITIES:
If you would like to be considered as a speaker for the event with a 30-45 minute presentation, please submit an abstract to Daniel Laverty

Tel: +44 (0)20 3141 0612 Email: dlaverty@aci.eu

OPPORTUNITIES TO MEET YOUR TARGET AUDIENCE:
Showcase your technologies to the advanced biofuels industry, with opportunities to demonstrate the capabilities of your latest products and services. Companies can gain direct access to our senior level audience and have an increased level of visibility and exposure through branding and networking at the conference.

For information on available sponsorship and exhibition opportunities, please contact Sam Cormack

Tel: +44 (0)20 3141 0626 Email: samc@aci.eu

REGISTRATION IS SIMPLE:
If you would like to register for this event or wish to find out more information, please contact Dimitri Pavlyk

Tel: +44 (0)20 3141 0627 Email: dpavlyk@aci.eu
DAY 1
Wednesday 13th February 2019

08:00  REGISTRATION & COFFEE

09:00  CHAIRMAN’S OPENING REMARKS

Erik C. Wormslev
Director Innovation
NIRAS

SESSION ONE

09:20  Advanced Biofuels Market Overview: Key Developments & Legislative Updates

- Key development projections for 2019 & beyond
- Challenges & opportunities for growth
- Market trends & business drivers
- Implementing RED II’s targets & forecasting its impact on the industry

Timo Hermonen
Sales Director, Poyry - Industry Business Group
Poyry

09:45  Beyond Fossils – The Limitless Opportunities of Bioeconomy

- RED2 concluded – how is the advanced biofuels industry moving forward? How should RED2 be implemented in Member States from industry’s point of view?
- New Era for renewables? How to explore the limitless opportunities of bioeconomy?
- UPM is studying major investment opportunities in both biochemicals and biofuels. How does the market opportunity look like?

Sari Mannonen
Vice President
UPM The Biofore Company

Marko Janhunen
Director, Public Affairs UPM & Chair, Leaders Of Sustainable Biofuel, LSB
UPM The Biofore Company


- Global overview of biofuels markets
- Current status of novel advanced biofuel markets
- Focus on aviation biofuels
- The relative market penetration of biofuels and renewable electricity
- The IEA’s long term outlook for transport sector decarbonisation

Pharoah Le Feuvre
Renewable Energy Division
International Energy Agency

10:40  Advanced Biofuels Under the RED II

- What RED II means for advanced biofuels
- The role of innovation under SET Plan Action 8 on bioenergy
- Other alternative and renewable transport fuels
- Are the efforts adequate to meet the Paris targets?

Kyriakos Maniatis
Directorate General for Energy
European Commission DG ENERGY

11:05  Panel Q&A

11:25  MORNING REFRESHMENTS
SPONSORED BY:

12:00  IHP® Technology: Direct Biomass Conversion to Fuels

- IHP technology is a feedstock-flexible continuous catalytic thermochemical process that uses existing refining/petrochemical hardware to economically convert forestry, agricultural and sorted urban wastes into clean-burning ‘drop-in’ renewable hydrocarbon transportation fuels with up to 72% bio-energy recovery and 92% GHG reduction.
- The IHP technology was invented by the Gas Technology Institute (GTI) of Des Plaines, IL, USA, and has been further refined through joint development with CRI Catalyst Company (CRI) of Houston, TX, USA, which owns the exclusive rights for worldwide licensing and deployment.
- Overview of the process, including updates on the latest developments in fuel qualification and the status of the Demonstration Plant

Laszlo Domokos
Global Account Manager
CRI Catalyst Company

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12:25 Industrial Demonstration of the Conversion of Softwood Residues into High Performance Gasoline & Jetfuel, Paving the Ground to a Renewable Energy Transition in Europe – The REWOFUEL Project (RESidual Soft WOOD Conversion to High Characteristics Drop-In bioFUELS)

- Developing new value chains from low value renewable feedstocks towards bio-isobutene, advanced biofuels and valorization of all co-products by combining the technologies and know-how of 11 project partners from 8 EU-member States
- Demonstrate the increasingly important role of using forest materials in the European renewable energy transition
- The project will set the foundations of a first-of-a-kind biorefinery converting residual wood to high performances drop-in renewable gasoline & jetfuel
- With an estimated forestry residues potential of about 1.45Mt/year, the European Union has the potential to support the deployment of hundreds of such biorefineries without the need to access virgin raw material

12:50 How is Steeper Energy Translating Technology Development Success into Commercial Reality?

- The Development phase or “how did we get here?” Steeper Energy overcame significant hurdles to fully develop its Hydrofaction® technology platform during a time of poor interest from investors, industrialists or oil refiners — now it faces new challenges in its quest to bring the solution to market
- The Commercialization phase: the challenges of “here and now”? The current demonstration project in Norway and the quest to iron-out the remaining scale-up risks allowing the promise of Hydrofaction®’s proliferation
- Commercially viable? Really! ... yes, really we are! Steeper Energy’s near-term plans to ensure early adoption and wide deployment of Hydrofaction® to ensure we enter the “Optimization” phase

13:00 Network Lunch

13:35 Session Three

Cellulosic Ethanol Production: Demonstration Plant: Case Studies

14:35 Cellulosic Ethanol & more from Sawdust – St1 Cellulonolix Biorefinery

- Kajaani demonstration plant update – highlights, lessons & learnings
- Product & process development with customers – how to get real added value for side products?
- Open co-operation in process development – can we join forces and get the industry to fly?

15:05 Lignin first: The Borregaard BALI Approach to Lignocellulosic Sugars & Bioethanol

- Feedstock agnostic process
- Marketable products from lignin
- High purity sugars or ethanol? The market decides
- Lessons learnt from 6 years of continuous demo-plant operations

15:35 Biorefinery Projects at SCA

- How the forest industry (or SCA) can contribute to future production of advanced biofuels
- Renewable hydrocarbons (naphtha/gasoline, diesel, biojet) based on black liquor/lignin from pulp mills

16:00 Panel Q&A

16:20 Afternoon Refreshments
CONFERENCE PRESENTATION
How to Produce Renewable Jet Fuel & Diesel with Haldor Topsoe’s HydroFlex™ Technology
- The nature of the renewable feedstocks & the desired products governs the process design & catalyst selection
- The challenges of deactivation and pressure drop in commercial operating units & how to overcome them
- Feedstock characterization is crucial & difficult especially for contaminants & oxygenates

Mikala Grubb
Senior Business Development Manager, Refinery
Haldor Topsoe A/S

CONFERENCE PRESENTATION
Improved Filtration for Biofuels Production
- Technical innovations in pressure filtration
- Improved capacity and processing
- Maximum sugar recovery through superb cake washing

Oskar Siekling
Business Manager Filters
Oototec

DAY 2
Thursday 14th February 2019

09:35 The Time is Now: How Cutting Edge Sustainability is Unlocking New Markets
- What do we mean by ‘real’ sustainability?
- How can we measure and manage sustainability risks – with a focus on lignocellulosic-specific challenges and opportunities
- Understanding the role of markets, consumers and regulators in driving the demand for sustainable fuels
- Beyond fuels – looking at bioproducts
- An overview of RSB

Ralf Hognæn
Executive Director
RSB

10:05 Panel Q&A

10:20 PANEL DISCUSSION
Biofuels & Beyond: How can Industries Work Together?
- Lignin valorisation: Looking at the whole value chain, using a beginning “beginning-to-end” approach
- Beyond 2020: The broader perspective
- Stimulating the circular economy

Timo Huhtisaari
Director of Sustainability
North European Oil Trade Oy

Jessica Nordin
Climate & Land Use Strategist
Sveaskog

Anne Marit Post-Melbye
Head of Industry
ZERO

Rune Gjessing
CEO
Silva Green Fuel

08:30 REGISTRATION & COFFEE

09:00 CHAIRMAN’S OPENING REMARKS

Erik C. Womslev
Director Innovation
NIRAS

SESSION FIVE
Meeting Sustainability Criteria for Biofuel Production

09:05 Bridging the Gap – Facilitating Sustainable Biofuels
- The battle of the feedstocks – moving from “public relations oneliners” to much needed facts and science to solve the climate challenge
- Facilitating biofuels to the easy adaption sectors where price, logistics match the best
- Planning for the future – as a 100% biofuel distributor – politics, production

Geir H Ingeborgrud
CEO
Eco-1 Bioenergi AS

11:05 MORNING REFRESHMENTS & NETWORKING BREAK
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SESSION SIX
Transport Fuels Derived from Lignocellulosic Feedstock: Land Sea & Air

Avinor: Facing the Challenge for Advanced Biofuels
- Aviation & carbon emissions and the reasons why Avinor have been looking into sustainable aviation fuels for the last decade
- Avinor’s activities thus far
- Current aviation biofuel projects in Norway
- A brief introduction to the aviation dropping in

Olav Mosvold Larsen
Senior Advisor, Strategy & Development
Avinor

11:35

Outlook for Sustainable Aviation Fuels
- What is aircar?
- Why does the aviation sector need sustainable aviation fuels?
- Renewable feedstock: Ligno-cellulose & other sustainable sources

Misha Valk
Head of Business Development
SkyNRG

12:00

Flying on Forest
- Aviation counts for 2% of world CO2-emissions and will rise if we continue as today - Do we have to stop flying or are there other alternatives?
- Now we see partnerships between airlines and biofuel producers - Green wash or a technical breakthrough?
- Norway implementing a mandatory blending system for aviation - Is it possible to fulfill?
- When can we fly not just above the forest but also on forests?

Henrik Brodin
Strategic Business Development Manager
Sodra

12:25

The Goodfuels Approach to Marine Biofuels
- Reducing CO2 emissions in the Marine sector
- The opportunity of Marine Biofuels
- The Goodfuels approach
- New fuel developments & future outlook

Bert Hellings
Head of Innovation
Goodfuels

12:50

SESSION SEVEN
Large Scale Production: Key Parameters to Scaling up & Commercialisation

Refining with a Sustainable Vision: New Possibilities for a Refiner in a Rapidly Charging Market
- How wind power, solar PVs and European legal decisions are changing a European refiners future
- Implementing lessons learned in pilot/demo to large scale production
- Preems historical and future investments in renewable production, like:
  - New renewable residue feedstocks from the forestry sector
  - Increased hydrogen production capacity
  - New units including co processing in existing units & production of renewable aircraft fuel

Sören Eriksson
Head Of Product Development
Preem A3

14:35

From Organic Chemistry Science in Lab to Commercial Scale Bio-Oil Production in Ten Years
- Comparing IT sector with biofuel & paper industry
- Challenges in development step from academic research, via verification, to pilot, & finally commercial full scale production
- RenFuel, a biofuel research and developed company with influences from IT sector regarding development risk handling & business focus

Sven Lüchen
CEO
RenFuel

15:00

Panel Q&A

15:25

CHAIRMAN’S CLOSING REMARKS

Erik C. Wormslev
Director Innovation
NIRAS

15:40

END OF CONFERENCE & AFTERNOON REFRESHMENTS

15:50

13:00

13:15 Panel Q&A

13:35 NETWORKING LUNCH

ACI
Active Communications International

Lignofuels 2019
Oslo, Norway

13th – 14th February 2019
REGISTRATION IS SIMPLE

If you would like to register for this event or wish to find out more information, you can contact Dimitri Pavlyk using any of the following methods:

+44 (0) 20 3141 0627
dpavlyk@aciue.net
http://www.acius.net

Postal Address: ACI Europe, 10 Gough Square, London, EC4A 3DE, UK

| Conference Pass (Includes Access to All Documentation) | £1,695.00 (ex.Vat) |
| Documentation Packet Only | £470.00 |

Please Note:
Members and customers of all supporting organizations are entitled to a discount on their conference package.

For more information please call Dimitri on +44 (0) 20 3141 0627.

DOCUMENTATION PACKET

You can purchase the Lignofuels 2019 papers at just £445 (+£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.

ABOUT ACI:

ACI, a UK owned company, has been running successful conferences in the USA since 1999. Headquartered in Chicago with offices all around the States, ACI opened its European head office at the end of 2005 and has expanded rapidly, launching a series of events in key industries including maritime, energy, oil & gas, cosmetics, chemicals & media.

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Payment
Payment must be received within five business days of returning the signed contract. After receiving payment a VAT receipt will be issued. If you do not receive a letter outlining details two weeks prior to the event, please contact the Conference Coordinator at ACI Europe Ltd.

Discounts are available for multiple/group bookings. Please call Dimitri Pavlyk on +44 (0) 20 3141 0627 for more information.

Cancellations
Substitutions are welcome up to 24 hours prior to the event. Cancellations must be received in writing no less than 3 weeks prior to the start of the conference; a full credit voucher towards a future ACI conference will be issued. Any cancellation received less than 3 weeks prior to the start of the event shall be deemed to be a breach of this contract by client, and accordingly, no credits will be given. Cancellations must be received in writing by mail or fax three weeks before the conference. Thereafter the full conference fee is payable. If for any reason ACI Europe Ltd decides to amend, cancel or postpone this conference, the conference fee will not be refunded. Furthermore, ACI Europe Ltd will not be responsible for covering airfare, hotel or other costs incurred by registrants. In the event that ACI Europe Ltd cancel or postpone the event, ACI Europe Ltd reserves the right to transfer this booking to another conference to be held in the following twelve months, or to provide a credit of an equivalent amount to another conference within the following twelve months. The construction, validity and performance of this agreement shall be governed in all respects by the laws of England to the exclusive jurisdiction of whose courts the Parties hereby agree to submit.

Accommodation
The cost of accommodation is not included in the event fee. Preferential rates will be arranged with or near the event venue, and all confirmed delegates will be given details of how to book accommodation at this rate in due course.

CONFERENCE VENUE:

Scandic Holmenkollen Park

Kongeveien 26, 0787 - Oslo, Norway