International VDI Conference

Biomass for Industrial Applications

September 26–27, 2018, Amsterdam, The Netherlands

- Exclusive technological Innovations, Operators Experience and international Use Cases
- New Business Areas: Biofuels for Aviation and Marine Applications
- Get to know the Framework: Circular Economy, Legislation, strategic Perspectives, regulatory Developments
- Detailed Insights into Conversion Technologies for different Materials and material Use of Biomass
- Discuss the Challenges and Opportunities of Sustainability
- Outlook into the Role of Solid Biofuels in the future Energy World and ILUC impacts of Biofuels

Meet international experts from:

An event organized by VDI Wissensforum GmbH
www.vdi-international.com/biomass
About us

The Association of German Engineers (VDI) is one of the largest technical-scientific associations in Europe. Throughout the years, the VDI has successfully expanded its activities nationally and internationally to foster and impart knowledge about technology-related issues. As a financially independent, politically unaffiliated and non-profit organization the VDI is recognized as the key representative of engineers both within the profession and in public.

Expected Participants according to Functions

- Head of Biomass: 20%
- Head of Fuels: 20%
- Managing Director: 20%
- Project Manager Biomass: 10%
- Head of Advanced Development: 10%
- Head of Biomass Trading: 10%
- Renewable Energy Officer: 10%
- Head of Fuels: 20%
- Managing Director: 20%

Expected Participants according to Industries

- District Heating Operators
- Recycling Companies
- Plant Engineering
- Research & Development
- Producers of Biomass and Biofuels
II. Potential Feedstocks, their Markets and Availabilities

14:00  Short Rotation Coppice as a sustainable long term Feedstock Hedge
• What is a short rotation coppice (SRC)
• Operational experience in cultivating SRC
• Environmental impact and sustainability
• Concepts for avoiding land grabbing from an European perspective
Jan Grundmann, Managing Director, Energy Crops Gmbh, Germany

14:30  Torrefied Straw Pellets: Product Potential, Process Optimization and Product Competitiveness
• Potential of straw as fuel
• Product quality improvement by torrefaction process
• Challenges of torrefied straw pellet production
• Optimized integrated production process
• Fuel cost and competitiveness
Dr. Javier Gil, Director Biomass Department, CENER, Spain

15:00  The Rise of advanced Marine Biofuels
• The opportunity of marine biofuels
• Different qualities, different feedstocks
• What is needed to scale this up?
Bart Hellings M. Sc., Head of Innovation, GoodFuels, The Netherlands

III. Latest Developments in Conversion Technologies for Material Use

16:00  Lignocellulosic Residues as a versatile Feedstock for industrial Use
• Synthesis gas production from biomass
• The KIT bioliq process
• New syngas applications
• Logistic and economic considerations
Prof. Nicolaus Dahmen, Leading Scientist, Karlsruhe Institute of Technology (KIT), Germany

16:30  From Idea to commercial Implementation of cellulosic Ethanol
• Technology solution for the conversion of agricultural residues to lignocellulosic ethanol
• Clariant sun liquid technology readiness and greenfield plant
• The construction of 250,000 ethanol plants - Best practice: Slovakia and Romania
Ing. Paolo Corvo, Head of Sales & Marketing, Clariant, Germany
17:00 Advanced Biofuels for Aviation – Techno economic and ecologic Assessment
- Limited 1st generation biofuels will not succeed to decarbonize the future aviation
- Production of 2nd generation biofuels
- Three main process routes including power-to-liquid, biomass-to-liquid and its combination power & biomass-to-liquid
- The techno economic evaluation of the three process routes
- The ecologic evaluation: CO2 abatement costs for each individual option
Dr.-Ing. Ralph-Uwe Dietrich, Research Area Manager Alternative Fuels, co-authors: Friedemann Georg Albrecht, Sandra Adelung, all: German Aerospace Center (DLR), Germany

17:30 From Biomass to biodegradable Plastics
- Characteristics of biodegradable plastics
- Integrated Biorefinery
- Production of 2nd generation sugars
- Lignocellulosic biomass
Robin Kazemieh, M. Sc., CFO, Green Sugar AG, Germany

18:00 End of conference day one

Get-together
At the end of the first conference day we kindly invite you to use the relaxed and informal atmosphere for in-depth conversations with other participants and speakers.

Thursday, September 27, 2018 2nd day

IV. Latest Developments in Conversion Technologies for Energy Use

09:00 78 MWth Wood Chips Grate fired Boiler with Reheat
- Boiler and plant design
- Typical fuel characteristics
- Grate design and performance
- High efficiency

09:30 The first straw-fired combined Heat and Power Plant in Germany – Concept and Experience from Planning and Operation
- Plant concept
- Straw as energy source
- Straw combustion for combined heat and power production
- Operational data of a straw- fired power plant
Dipl.-Ing. (FH) Matthias Pieper, Power Plant Manager, BEKW Bioenergiekraftwerk Emsland GmbH & Co. KG, Germany

10:00 Networking & coffee break

V. Practical Insights and Experiences

10:30 Lessons learned from the Gobigas Project
- Historical review of the project and status-quo of GoBiGas
- Technical aspects of the demonstration – Learnings
- Economic data from the demonstration and their relevance for future design
Martin Seemann, PhD, Associate Professor, co-authors: Professor Henrik Thunman, both: Chalmers Tekniska Högskola and Anton Larsson, Göteborg Energi, all: Sweden

VI. Supply Chain Management and Sustainability

11:00 Liquid and gaseous Biofuels – What next?
- Latest developments in novel biofuel technologies
- The policy framework
- End-uses across transport sectors
- Potential ramp up in supply to 2030 and contribution to targets
- Challenges and requirements
Dr. Ausilio Bauen, Director, E4Tech, United Kingdom

11:30 Biomass Sustainability: Challenges & Opportunities
- NGO’s and scientific views on sustainability of biomass
- Different angles and scope on biomass sustainability
- Biomass sustainability certification
- Challenges and opportunities ahead
Maarten Gnoth M. Sc., Manager Business Development Biomass Upstream, ENGIE, Belgium

12:00 Lunch

13:00 Indirect Land Use Change (ILUC), Carbon Debt and other Sustainability Concerns
- Definition: Indirect Land Use Change (ILUC)
- GHG emissions forest biomass
- Sustainability: Recent developments and perspectives
Dipl. Phys. Uwe R. Fritsche, Scientific Director, IINAS – International Institute for Sustainability Analysis and Strategy, Germany
13:30 Operators Experience: Straw Pelleting Plant
- Plant design and pit falls
- Working with drax to develop the process
- Short video of the plant
- Plant costs
- Experience with chlorine corrosion
Steve Arnold, Managing Director, Biomass Projects UK Ltd, United Kingdom

VII. Role of Biomass and Biofuels in the future Energy World

14:00 Global Development of Bioenergy – Data, Markets and Policy
- Latest data on global bioenergy development
- New markets for biomass technologies
- Need for right policies for bioenergy development
Bharadwaj Kummamuru, Executive Director, World Bioenergy Association, Sweden

14:30 Conference chair’s closing remarks

14:45 End of conference

Don’t miss out on our upcoming conferences:

Energy and Materials from Waste & Sewage Sludge Treatment

Date and venue:
April, 2019, Calendar Week 15
Location tba
International VDI Workshop

Digital Strategies in Small Scale Plant Operations

Workshop Chair:
Kauko Väinämö, CEO, GASEK ltd, Finland

Date and venue:
September 25, 2018
Amsterdam, The Netherlands

Time:
10:00 – 16:00

CONTENT

“Uber, the world’s largest taxi company, owns no vehicles. Facebook, the world’s most popular media owner, creates no content. Alibaba, the most valuable retailer, has no inventory.” Ford sells 20 times more cars than Tesla, but is considered a less valuable company. Something is happening. We see most of these developments coming from B2C markets and slowly fading into B2B. While the energy industry hasn’t seen a lot of digitalization activities yet, there are signs that this is about to change.

In this workshop we’ll have introduction to lean and basic AI technologies which we then develop further with team works in the context of energy business sector. The workshop is a hands-on course for evaluating new business development ideas with modern digitalization technologies and possibilities.

- Development strategies for heating plant profitability improvement
- Digitalization in Biomass logistics
- AI based development opportunities in plant efficiency monitoring
- Teamworks and Summary
Exhibition / Sponsoring

If you want to meet with and reach out to the first-rate experts attending this VDI conference and to powerfully present your products and services to the well-informed community of conference participants, please contact:

Isabella Busch
Project Consultant
Exhibitions & Sponsoring
Phone: +49 211 6214-597
Fax: +49 211 6214-97597
Email: busch_I@vdi.de

Terms and Conditions

Registrations: Registrations for conference attendance must be made in writing. Confirmation of your registration and the associated invoice will be mailed to you. Please do not pay your conference attendance fee until you have received our invoice and its invoice number to be stated for transfer. Dutch VAT directives apply. Please state your VAT-ID with your registration.

Conference venue
Radisson Blue Hotel Amsterdam Airport
Boeing Avenue 2
1119 PB Schiphol-Rijk
Phone: +31 20 655 31 31
Email: Reservations.Amsterdam.Airport@Radissonblu.com
Website: https://www.radissonblu.com/

Hotel room reservation: A limited number of rooms has been reserved for the benefit of the conference participants at the Radisson Blue Hotel Amsterdam Airport. Please refer to “VDI Conference”. For more hotels: www.vdi-wissensforum.de/hrs

VDI Wissensforum service package: The conference package includes the conference documents (online), beverages during breaks, lunch and the get together on September 26, 2018.

Conference attendance conditions and terms: By way of your registration you accept the conference attendance conditions and terms of VDI Wissensforum GmbH as binding. Any cancellation of your registration must be made in writing. We will charge you only an administrative fee of € 50.00 plus Dutch VAT if you cancel your registration earlier than 14 days ahead of the conference date. Any cancellation that reaches us after this deadline will entail the conference attendance fee as stated in our invoice to be charged in full. The date of the post office stamp of your written cancellation will be the decisive criterion. In that case, we will gladly mail you the conference documents on request. Subject to agreement, you may name a substitute participant. Individual parts and sections of conferences and seminars cannot be booked. You will be informed without delay if an event has to be cancelled for unforeseeable reasons. In that instance, you will be entitled only to a refund of your conference attendance fee if already paid. We reserve the right to exchange speakers and/or change the program sequence in exceptional cases. In any case, the liability of VDI Wissensforum GmbH is restricted exclusively to the conference attendance fee.

Data protection: VDI Wissensforum GmbH captures and processes the address data of conference participants for their own corporate advertising purposes, enabling renowned companies and institutes to reach out to participants by way of information and offers within their own marketing activities. We have outsourced in part the technical implementation of data processing to external service providers. If you do not want to receive any information and offers in the future, you may contradict the use of your personal data by us or any third parties for advertising purposes. In that case, kindly notify us of your contradiction by using the email wissensforum@vdi.de or any other of the contact options mentioned.

Registration

Conference by VDI Wissensforum GmbH | www.vdi-international.com/biomass | Phone +49 211 6214-201 | Fax +49 211 6214-154

Biomass for Industrial Applications
International VDI Conference
Biomass for Industrial Applications

Yes, I will participate as follows:

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<th>Participation Fee + VAT</th>
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<td>conference and workshop € 2,190</td>
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I am interested in sponsoring and/or exhibition

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Participants with an invoice address outside of Austria, Germany and Switzerland are kindly requested to pay by credit card:

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