

ONE WEEK. THREE EVENTS. INSIGHTS, NETWORKING, NEW BUSINESS.

CONFERENCE PROGRAMME



STOCKHOLM INTERNATIONAL FAIRS
24–26 MAY 2016 iwbweek.com

iwb
International Wood Biorefining
week

INTERNATIONAL
**PULP &
PAPER
WEEK**

BIOECONOMY
**INNOVATION
FORUM**

 **WORLD
BIOENERGY**

IWB Week hosts a versatile conference program covering the entire biorefining industry. Several parallel conference tracks focusing on bioenergy and wood-based products and innovations. Among the speakers there are specialists from the forest industry as well as other manufacturing industries with an interest in biobased products.

The cost for participating is SEK 2000 for one day and SEK 3500 for the entire event (vat not included).

The opening ceremony is free of charge. An updated program is always available at iwbweek.com

09.00 REGISTRATION - STOCKHOLM INTERNATIONAL FAIRS (STOCKHOLMSMÄSSAN)

10.00 OPENING CEREMONY Chairperson: Karin Medin, Söderenergi, Sweden

PREMISES: K1

WELCOME TO IWB WEEK AND SWEDEN Sven-Erik Bucht, Minister for Rural Affairs, Ministry of Enterprise and Innovation, Sweden

GLOBAL BIOMASS RESOURCES IN A CLIMATE AND ENERGY PERSPECTIVE Gustav Melin, European Biomass Association, AEBIOM, Sweden

ACTIVE FORESTRY FOR CLIMATE AND BIOINNOVATION Lena Ek, Södra, Sweden

ON THE FOREST AND FOREST – RESOURCE CONTRIBUTION TO CLIMATE CHANGE MITIGATION David Ellison, SLU, Switzerland

BORREGAARD – THE WORLD'S MOST ADVANCED WOODBASED BIOREFINERY – A PEEK INTO OUR SECRETS Gudbrand Rødsrud, Borregaard AS, Norway

TOWARDS BIOECONOMY AND 50% RENEWABLE ENERGY IN 2020S – PROSPECTS IN FINLAND Harri Laurikka, Bioenergia Ry, Finland

SUSTAINABLE AND INTELLIGENT BIO-ECONOMY Nella Baerents, Arizona Chemical, The Netherlands

12.00 LUNCH AND NETWORKING BREAK

13.15 BIOMASS MARKETS Chairperson: Gustav Melin, Swedish Bioenergy Association, Svebio, Sweden

PREMISES: K1

MALAYSIA'S BIOMASS STRATEGY Timothy Ong, National Innovation Agency, Prime Minister's Department, Malaysia

WOOD PELLET SOURCING AND USE AT DRAX, UK'S LARGEST POWER PRODUCTION UNIT Matthew Rivers, Drax Biomass Inc, UK

QUÉBEC 2030 ENERGY STRATEGY: A DRIVER FOR RENEWABLES AND WOOD BIOENERGY

Jean-Francois Samray, Association québécoise de la production d'énergie renouvelable, Canada

UNDERSTANDING FUTURE NEEDS BETTER THAN COMPETITION Jon Haag, Billerud Korsnäs, Sweden

14.30 COFFEE AND NETWORKING BREAK

15.00 SUSTAINABLE AND INTELLIGENT BIO-ECONOMY Chairperson: Lena Nordgren, SEKAB, Sweden

PREMISES: K1

THE FOREST RESOURCE FOR THE BIOECONOMY Lena Bruce, Sveaskog, Sweden

DEVELOPING THE GLOBAL BIOECONOMY – TECHNICAL, MARKET, AND ENVIRONMENTAL LESSONS FROM BIOENERGY. Patrick Lamers, Idaho National Laboratory, USA

CASCADING OF WOODY BIOMASS – PRINCIPLES, POLICIES AND EFFECTS ON MARKET AND TRADE Olle Olsson, Stockholm Environment Institute, Sweden

THE BIOREFINERY PULP MILL Peter Axegård, Innventia, Sweden

16.30 AFTER WORK

PREMISES: BIOECONOMY INNOVATION FORUM

RELEASE: INNVENTIA GLOBAL OUTLOOK REPORT "A CELLULOSE-BASED SOCIETY"

With the invitation extended to all participants of the IWB Week event, exhibitors, visitors and conference delegates alike, the After Work session will provide a relaxed atmosphere giving the opportunity to network, mingle and enjoy good food and drink after a day at work. The gathering will be concentrated to the Bioeconomy Innovation Forum area with live music, but also to several exhibitor stands which will have gatherings and entertainment of their own. During this afterwork event, Innventia will release their third Global Outlook Report called "A Cellulose-Based Society".

Food tickets and drinks can be purchased onsite. Entrance is free of charge for all.



Advanced Biofuels

Power & heat from forest



09.15 PARALLEL CONFERENCE SESSIONS

EMERGING TECHNOLOGIES FOR LIGNIN BASED TRANSPORTATION FUELS

Premises: K12

Chairperson: Markus Norström, SP

Lignin as raw materials for advanced biofuels

Richard Gosselink, Wageningen, The Netherlands

Pros and cons of lignin depolymerization technologies for the stepwise conversion of lignin to hydrocarbons – A process chemists perspective

Martin Hedberg, SP Process Development, Sweden

SunCarbon – From lignin to third generation renewable fuels

Christian Hulteberg, SunCarbon, Sweden

Strategic choices in the upscaling of the lignol process by RenFuel

Christopher Carrick, RenFuel, Sweden

BIOPOWER AND HEAT FROM FOREST BIOMASS

Premises: K13

Chairperson: Sofia Backéus, Svebio

Energy ashes – A problem or resource?

Monica Lövström, Svenska EnergiAskor, Sweden

The Northern Ontario bioeconomy strategy & off-grid biomass projects

Dawn Lambe, Biomass North Development Centre, Canada

The development of the first Canadian forest residues based biorefinery in a Quebec regional context

Patrice Mangin, University of Quebec Trois-Rivières, Canada

Sustainable bioenergy supply

Per Ytterberg, Fortum, Sweden

CARBON FIBRE

Premises: K11

Chairperson: Mikael Lindström, Innventia

Carbon fiber has been the optimal material for high strength and low weight for some time now. It is good, but it is expensive and not sustainable. Carbon fiber produced from wood could start a revolution for the use of this light material, including the use of this sustainable and light material in vehicles. A win-win situation for environment and industry. How close are we to this revolution?

Demonstration of lignin-based carbon fibres for composites & batteries

Anders Uhlin, Innventia, Sweden

Birgitha Nyström, Swerea SICOMP, Sweden

Per Tomani, Innventia, Sweden

Building value in carbon fiber – Discussion

Mikael Lindström and speakers

SMART PACKAGING, PART 1

Premises: K16

Chairperson: To be confirmed

Digital transformation and trillion sensors in paper business

Antti Kemppainen, VTT, Finland

Smart and intelligent packaging

Tommy Höglund, Acreo, Sweden

Surfaces for printed functionality

Peter Rättö, Innventia, Sweden

10.30 COFFEE NETWORKING BREAK

11.00 PARALLEL CONFERENCE SESSIONS

ADVANCED BIOFUELS FROM FOREST & AGRICULTURE

Premises: K12

Chairperson: Lena Nordgren, SEKAB

Operating experiences of Beta Renewables cellulosic ethanol plant, Crescentino, Italy

Raffaella Serra, Beta Renewables, Italy

Waste gasification to ethanol and methanol in commercial production

Alex Miles, Enerkem, Canada

Future of forest-based biofuels

Magnus Edin, SunPine, Sweden

From forest residues to transportation fuels via pyrolysis process

Gerhard Muggen, BTG-BTL, The Netherlands

WHITE PELLETS, PRODUCTION & TRADE

Premises: K13

Chairperson: Johan Granath, Ekman Group

Denmark – From coal to biomass

Fredrik Andrén-Sandberg, DONG Bioenerg and Thermal Power, Denmark

A strengthened case for growth of biomass energy

Ben Moxham, Enviva, UK

Pellet market development in Sweden

Henrik Arfwidsson, Agroenergi Neova Pellets, Sweden

Pellet market development in central and southern Europe

Christian Rakos, ProPellets, Austria

BIOBASED MATERIALS & THE CAR INDUSTRY

Premises: K11

Chairperson: Mikael Lindström, Innventia

Car designers and carbon fiber

Oliver Schmidt, Scania CV AB, Sweden

UPM and new bioinnovations

Juuso Konttinen, UPM, Finland

Making lignin carbon fiber a hit

Mikael Lindström, Innventia, Sweden

SMART PACKAGING, PART 2

Premises: K16

Chairperson: To be confirmed

Cutting down food waste by utilizing smart packaging and IoT

Tomi Kankainen, LINK Design and Development Oy, Finland

Creating value with IoT

Robert Wendelin, TeliaSonera, Finland

Smedpack – Secure and sustainable medical packaging

Sandra Pousette, Innventia, Sweden

Smart packaging and your personal data

Leonardo Martucci, Karlstad University, Sweden

12.30 LUNCH AND NETWORKING BREAK

Cont. WEDNESDAY 25 MAY

13.30 PARALLEL CONFERENCE SESSIONS

LEARNED EXPERIENCES AND RECENT DEVELOPMENT IN BIOFUELS	BIOENERGY AS A PART OF THE FOREST INDUSTRY	NANOCELLULOSE	BIO-PLASTICS
Premises: K12	Premises: K13	Premises: K11	Premises: K16
<p>Chairperson: Jan Lindstedt, SEKAB</p> <p>ED95 – From idea to commercial product Lena Nordgren, SEKAB, Sweden</p> <p>Biomethane in the transport sector – Experiences, policies, and future developments Zoltan Elek, Landwärme, Germany</p> <p>From forest to fuels with pyrolysis technology Jussi Mäntyniemi, Valmet, Finland</p> <p>Strategy perspectives of Kaidi to invest 1 billion EUR in a 200 000 tonnes biorefinery in Kemi Pekka Koponen, Kaidi, Finland</p>	<p>Chairperson: Sofia Backéus, Svebio</p> <p>Sustainability and standards for bioenergy and biobased products Maria Gustafsson, SIS Swedish Standards Institute, Sweden</p> <p>Canadian forestry and P&P landscape, new technology and innovation Jean Hamel, FP Innovations, Canada</p> <p>Global and regional overview of bioenergy – Key findings from the WBA Global Bioenergy Statistics 2016 Bharadwaj Kummamuru Venkata, World Bioenergy Association, WBA, India</p> <p>Resource efficiency impacts of future EU bioenergy demand Nicklas Forsell, IIASA, Austria</p>	<p>Chairperson: Mikael Lindström, Innventia</p> <p>Prepared properly, nanocellulose can be stronger and stiffer than Kevlar. Putting nanocellulose into composite materials may result in products with extremely high strength and low weight. In addition, the cost of nanocellulose is much lower than alternative materials. Learn more about the potential of this rapidly evolving material.</p> <p>Nanocellulose for new products Lars Wågberg, KTH, Sweden</p> <p>Micro fibrillated cellulose in packaging applications Mikael Ankerfors, BillerudKorsnäs, Sweden</p> <p>Chemical modification of nano-cellulose – Challenges and opportunities Ulrica Edlund, KTH, Sweden</p>	<p>Chairperson: Jonas Joelsson, R&D Manager, SP Processum AB</p> <p>In the session we will meet representatives from different parts of the emerging forest-based value chains to learn about their drivers and challenges. Expect to increase your understanding of the opportunities and pitfalls of the unfolding bioeconomy and to learn about the results and experiences gained from the Forest Chemistry projects and its spin-off projects.</p> <p>From green forest to green plastics Jonas Joelsson, SP Processum AB, Sweden</p> <p>Locally grown plastics Ylwa Alwarsdotter, SEKAB, Sweden</p> <p>Value generation from sustainable forests Martin Jonsson, Sveaskog, Sweden</p> <p>The same plastic – but from a sustainable raw material Carina Lööf, Trioplast Industrier, Sweden</p>

15.00 COFFEE AND NETWORKING BREAK

15.30 PARALLEL CONFERENCE SESSIONS

NOVEL MARKETS FOR BIOFUELS WITH NEW APPLICATIONS	BIO POWER FROM FOREST BIOMASS – BLACK PELLETS AND TORREFACTION	NANOCELLULOSE	BIO-PLASTICS
Premises: K12	Premises: K13	Premises: K11	Premises: K16
<p>Chairperson: Tomas Ekblom, Svebio</p> <p>The potential of Gasoline-Ethanol-Methanol (GEM) fuels as an option for the Swedish E85 market James Turner, Bath University, UK</p> <p>Flying on renewable jet fuels – The Värmland perspective with technology pathways and what is needed for commercialization Alina Hagelqvist, COWI / Maria Fiskerud, Fly Green Fund, Sweden</p> <p>Winter experiences from biodiesel for non-electrified railway Peter Ekholm, Inlandsbanan / Karin Varverud, Energifabriken, Sweden</p>	<p>Chairperson: Alan Sherrard, Bioenergy International</p> <p>The black future for pellets Lars-Åke Svensson, Bioendev, Sweden</p> <p>Climate positive heat production with biochar Mattias Gustafsson, Stockholm Vatten, Sweden</p> <p>Change the horizon, Advanced Wood Pellet Pär Westborg, Arbaflame AS, Sweden</p>	<p>Chairperson: Mikael Lindström, Innventia</p> <p>Nanocellulose for sustainable isolation Peter Mannberg, Swerea Sicomp, Sweden</p> <p>Nanotechnology from academia to market Åsa Ek, Cellutech, Sweden</p>	<p>Chairperson: Jonas Joelsson, R&D Manager, SP Processum AB</p> <p>Bioplastics – What is happening, what is not, and why? Nils Hannerz, IKEM, Sweden</p> <p>With a little help from our friends – Upscaling Forest Methanol Jörg Brücher, Holmen AB, Sweden</p> <p>PAPTIC - Rethinking bioplastics with next generation of paper Tuomas Mustonen, Paptic Ltd, Finland</p>

16.45 END OF DAY 2

19.00 IWB WEEK BBQ AT HOTEL HASSELBACKEN, DJURGÅRDEN

IWB Week BBQ will take place at Hotel Hasselbacken located at beautiful Djurgården just 10 min from the city center. The IWB Week BBQ is open for all participants of the IWB Week event, exhibitors, visitors and conference delegates alike. The event is a perfect opportunity to network, mingle and enjoy good food and drinks! Registration required.

WHERE: Scandic Hotel Hasselbacken, Hazeliusbacken 20 Stockholm





Advanced Biofuels

Power & heat from forest



09.15 PARALLEL CONFERENCE SESSIONS

FUTURE LARGE-SCALE BIO-REFINERIES: TECHNOLOGICAL CHOICE AND VALUE CHAINS

Premises: K12

Chairperson: Robert Lundmark, Luleå University of Technology, LTU

Next-generation biofuel production integrated with Swedish forest industry – technology and location choices

Elisabeth Wetterlund, Luleå University of Technology, Energy Science, Sweden

A European overview of the woody biomass feedstock availability and its applications

Sylvain Leduc, International Institute for Applied Systems Analysis (IIASA), Austria

A geographically explicit approach for price determination of forest feedstocks under different next-generation biofuel production scenarios – The case of Sweden

Ismail Ouraich, Luleå University of Technology, Economics, Sweden

Challenges and barriers for large scale biorefinery investments

Markku Karlsson, VTT Processes, Finland

BIOMASS IN INDUSTRY PROCESSES

Premises: K13

Chairperson: Kjell Andersson, Svebio

Biomass in challenging industrial energy applications

Johanna Lindén, PetroBio, Sweden

Pellet solutions for industry processes

Robert Ingvarsson, Janfire, Sweden

Biomass in industry processes

Kari Liukko, Renewa, Finland

Differentiate yourself – Paper packaging for household pellets

Verena Schnedl, Mondi Coatings, Austria

BUILDING THE FUTURE IN WOOD

Premises: K16

Chairperson: Nils Lindstrand, NTT and woodnet.se

Building in wood today and in the future is not at all what we all think we know from history. Wood is the material for building in the 21st century, and most of materials and technologies are new. CLT, Glulam and other forms of engineered wood makes highrise wood building better, safer and faster to build. Economy, customer satisfaction and sustainability are among the benefits. Learn how to be a part of this future!

New wood technology build the future

Anders Josephsson, Träbyggnadskansliet, Sweden

Wood makes homes safe and sound

Joakim Norén, SP, Technical Research Institute of Sweden, Sweden

FROM WOOD TO FOOD

Premises: K11

Chairperson: Robin Kalmendal, SP

To produce food from forest biomass can be a resource-efficient way to feed a growing population. But what is needed to be an option? Should we go via animal feed, maybe the forest might help to feed humanity directly? Should we invest in growing forest for food or just take care of the residual streams.

Perspectives on wood in food production

Robin Kalmendal, SP, Technical Research Institute of Sweden, Sweden

Sami use of Scots Pine inner-bark

Lars Östlund, SLU Swedish University of Agricultural Sciences, Sweden

Wood polymers as multi-functional food ingredients

Anna-Stina Jääskeläinen, VTT, Finland

10.30 COFFEE NETWORKING BREAK

11.00 PARALLEL CONFERENCE SESSIONS

BIOFUELS IN AVIATION AND FOR MARINE APPLICATIONS

Premises: K12

Chairperson: Anna von Schenck, NiNa Innovation

Regional biofuel production in Scandinavia

Magnus Torp, SynSel Scandinavia, Norway

Swedavia's journey towards zero fossil carbon dioxide emissions and fossil free domestic flights by 2030

Christina Sares, Swedavia, Sweden

Challenges and opportunities for biofuels in the maritime transport sector

Thomas Stenhede, Swedish Maritime Technology Forum, Sweden

Green alternative marine fuels

Päivi Aakko-Saksa, VTT Technical Research Centre of Finland

FROM FOSSIL TO BIOENERGY IN LARGE SCALE INDUSTRY

Premises: K13

Chairperson: Karin Vestlund-Ekerby, Federation of Swedish Farmers, Forestry division

Growing a biobased economy – Farming and forestry toward a fossil free future

Elina Matsdotter, Federation for Swedish Farmers, Sweden

From Fossil to Bioenergy in Large Scale through Gasification

Juhani Isaksson, Valmet, Finland

Bioenergy projects funded under the NER 300 programme – current state of development and knowledge gained

Andreas Uihlein, European Commission - JRC, The Netherlands

The pulpmill as a bioenergy producer

Niklas von Weymarn, Metsä Group's Bioproduct Mill, Finland

BUILDING THE FUTURE IN WOOD

Premises: K16

Chairperson: Nils Lindstrand, NTT and woodnet.se

CLT is the sustainable wall for the future

Mathieu Robert, StoraEnso, France

Challenging the force of habit!

Johan Åhlén, Moelven Töreboda, Sweden

"TreeD print your house"

Mikael Lindström, Innventia, Sweden

FROM WOOD TO FOOD

Premises: K11

Chairperson: Robin Kalmendal, SP

Extraction of high-value compounds in a biorefinery

Anna Ekman Nilsson, SP, Technical Research Institute of Sweden, Sweden

Fish feed from wood

Björn Alriksson, SP Processum, Sweden

Nanocellulose as an additive in food

Camilla Öhgren, SP Food and Bioscience, Sweden

12.30 LUNCH AND NETWORKING BREAK

THE PROGRAM CONTINUOUS »

13.30 CONFERENCE CLOSING SESSIONS

BIOINNOVATION – THE FUTURE FOR THE INDUSTRY

Premises: K16

Chairperson: Jan Erola, Associate Director, Kreab

In this closing session we gather industry leaders responsible for research and development for bioinnovation and bioenergy to discuss how bioinnovation will lead the industry in to the future.

Speakers:

Nella Baerents, Arizona Chemical, The Netherlands

Arno van der Ven, Senior Vice President Innovation Biomaterials Division, StoraEnso

Raffaella Serra, Business Development Manager, Beta Renewables, Italy

Niklas von Weymarn, VP, Research, Metsä group

Axel Kraft, Head of department - Biorefinery and Biofuels, Fraunhofer institute

Jean Hamel, Vice-President, Pulp, Paper and BioProducts, FP Innovations, Canada

CELLULOSIC TEXTILE - FROM WOOD TO LOOM

Premises: K12

Chairperson: Bengt Hagström, Professor Chalmers and Senior Scientist fiber development at Swerea

Fabric made of wood – A sustainable option or not?

Elin Larsson, Filippa K, Sweden

Dissolving cellulose: production and applications

Hans Grundberg, Aditya Birla, Sweden

Novel cellulose based fibre and fibril yarns

Ali Harlin, VTT, Finland

Designing cellulose for the future technology leaps, business seeds and a new biomaterial-focused ecosystem by multidisciplinary collaboration with design driven approach

Pirjo Kääriäinen, Aalto University, Finland

Establishing locally grown textiles in Sweden

Paul Krochak, Innventia, Sweden

15.00 - 15.30 COFFEE AND NETWORKING BREAK

16.00- 18.30 COMPANY VISITS TO NORRENERGI AND INNVENTIA

There will be two interesting company visits. You can choose between visiting Norrenergi, a district heating company just north of the city center or Innventia, a world-leading research institute working with innovations based on forest raw materials.

The cost for the tour is only SEK 200 (including the bus return ticket, VAT included). Registration required.

Register at iwbweek.com

NORRENERGI

Norrenergi AB is a district heating and district cooling company located in Solna just north of the Stockholm city center. They are consuming 50 000- 70 000 metric tonnes of wood pellets annually (as well as other biofuels) in order to produce district heating labelled "Good Environmental Choice" ("Bra Miljöval" in Swedish)".

INNVENTIA

Did you know that there is a paper machine in the heart of Stockholm? Join the visit to Innventia to hear about the demonstration economy and see how novel forest based materials as nanocellulose, carbon fibre and sustainable textiles are demonstrated in pilot scale. Innventia is a world-leading research institute that works with innovations based on forest raw materials. We apply the knowledge bank and process technology of the forest industry, develop it further and look for new opportunities for our customers and partners.

For both destinations, the bus leaves from Stockholmsmässan at 16.00.

The company visits will approximately be between 17.00-18.30.

After the company visits, the buss will take you back to the city center of Stockholm.





Conference tickets for IWB Week

The admission to the exhibitions during the IWB Week is free but pre-registration is required.

Conference ticket

The conference ticket cost 2000 SEK per day and person (excluding VAT). The conference ticket gives the visitor full access to the conference program for the chosen day plus free coffee during the breaks.

3 day conference ticket

There is also a three-day conference ticket available for only 3500 SEK per person (excluding VAT) that gives full access to the entire IWB Week conference program. The three-day ticket includes free coffee during the breaks during the whole fair.

The conferences are organized in direct connection to the exhibition area.

The exhibition

Take the opportunity to meet more than 170 exhibitors including equipment and service suppliers as well as forest industry performers. Among the exhibitors there will also be several local industry clusters as well as national pavilions from different countries. A detailed exhibitor list is available at iwbweek.com

Why visit IWB Week?

1. Meet 170 + exhibiting companies
2. Inspiring conference covering the biorefining industries
3. Excellent opportunities for networking and matchmaking
4. The only event focusing on wood-based biorefining including pulp, paper, bioenergy and innovations
5. Meet decision makers and suppliers from the entire wood-based biorefining industry
6. Visitors from various sectors such as the forest industry, the energy sector, the process industries and other manufacturing industries.
7. Company visits, matchmaking, social activities and more.
8. Free entrance for visitors to the exhibition.

Getting to the Venue

VENUE: Stockholm International Fairs (Stockholmsmässan), Mässvägen 1, Stockholm

COMMUTER TRAINS: From Stockholm Central Station to Älvsjö.

The journey takes 9 minutes and departs 8–12 times per hours.

AIRPORT TRAINS: There is a direct train from Arlanda Airport to Älvsjö departing from Sky City at Arlanda Airport. Alternatively you can take Arlanda Express to Stockholm Central Station and change to the Commuter Train to Älvsjö Station.

TAXI: The major taxi operators have fixed rates between Stockholmsmässan and the airport.

Please visit iwbweek.com for information about travel and stay.

Join us!
Register at
iwbweek.com

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Nordisk Papperstidning Bioenergi Bioenergy International