

Conference Programme & Tradeshow  
Konferenzprogramm & Messe

# European Pellet Conference

## Europäische Pelletskonferenz 2017

1 - 2 March 2017

1. - 2. März 2017

WELS, AUSTRIA

*The largest annual  
pellet event worldwide!*

**Die weltweit größte jährliche  
Pelletsveranstaltung!**



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# European Pellet Conference 2017 Europäische Pelletskonferenz 2017



With more than 600 participants every year, the European Pellet Conference held in Wels has become the largest annual pellet event in the world.

## Programme

### Plenary sessions

Presentations on policies, technologies, markets, innovation, financing, fuels

### World Pellet Business & Technology Forum

Market place for product and service innovation, business models, financing and pricing

### Pellet Market News Worldwide

Updates and outlook on European and global markets

### Pellet Business Cooperation Platform

Finding new business partners in bilateral meetings

### Technical Site Visits: Pellets & Wood Chips

One-day trip with visits about fuels, equipment, exemplary installations

### Poster Presentation

Opportunity to present biomass projects and initiatives (e.g. EU projects)

### Young Researchers Conference: Biomass

A conference presenting the work and achievements of young researchers, award "Best Young Researcher: Biomass"

### Energiesparmesse - the "pellet tradeshow"

Leading tradeshow on renewable energy and energy efficiency with 100,000 visitors and more than 100 pellet-related exhibitors annually



Mit jeweils mehr als 600 Teilnehmer/innen ist die Europäische Pelletskonferenz in Wels die weltweit größte jährliche Pelletsveranstaltung.

## Programm

### Plenum-Sessions

Präsentationen zu Strategien, Technologien, Märkten, Innovationen, Finanzierung, Brennstoffen

### World Pellet Business & Technology Forum

Marktplatz für Produkt- und Service-Innovationen, Geschäftsmodelle, Finanzierung, Preisgestaltung

### Pellet Market News Worldwide

Updates zu europäischen und weltweiten Märkten

### Pellet Business Cooperation Platform

Neue Geschäftspartner/innen in bilateralen Meetings finden

### Fachexkursion Pellets & Hackschnitzel

Tagesexkursion (Brennstoffe, Kessel, Vorzeiganlagen)

### Poster-Präsentation

Möglichkeit zur Präsentation von Pelletsprojekten und -initiativen (z.B. EU-Projekte)

### Young Researchers Conference: Biomass

Eine Konferenz zur Präsentation von Arbeiten und Leistungen junger Forscher/innen, Award "Best Young Researcher: Biomass"

### Energiesparmesse - die "Pellets-Messe"

Führende Messe mit 100.000 Besucher/innen, mehr als 100 Aussteller im Bereich Pellets

## Timetable / Zeitplan

	Tuesday, 28 Feb. Dienstag, 28. Feb.	Wednesday, 1 March Mittwoch, 1. März	Thursday, 2 March Donnerstag, 2. März	Friday, 3 March Freitag, 3. März
Technical Site Visits: Pellets and Wood Chips Fachexkursion Pellets & Hackschnitzel				
European Pellet Conference Europäische Pelletskonferenz				
European Energy Efficiency Conference Europäische Energieeffizienz Konferenz				
European Research Conference: Buildings Europäische Forschungskonferenz: Gebäude				
Cooperation Platform Kooperationsplattform				
Young Researchers Conference: Energy Efficiency				
European Nearly Zero Energy Buildings Conference Europäische Niedrigstenergie-Gebäude Konferenz				
Young Researchers Conference: Biomass				
Energy Efficiency Services and Business Conference Konferenz "Energieeffizienz-Dienstleistungen"				
E-Mobility & Smart Buildings Conference Konferenz "E-Mobilität & smarte Gebäude"				
Energy Efficiency Watch Conference Konferenz "Energy Efficiency Watch"				
Technical Site Visits: Nearly Zero Energy Buildings Fachexkursion Niedrigstenergie-Gebäude				
Tradeshow Energiesparmesse				

# European Pellet Conference 2017 Europäische Pelletskonferenz 2017



1 March

09.00 Pellet policies and markets

## Opening & welcome

- Michael Strugl, Regional Minister for Energy, Upper Austria
- Gerhard Dell, OÖ Energiesparverband, Austria

## Bioenergy in the EU "Clean Energy Package"

- Giulio Volpi, European Commission, DG Energy

## The European pellet market – status quo and outlook

- Gilles Gauthier, AEBIOM

## Effective policy mechanisms for pellets in Europe

- Calliope Panoutsou, Imperial College Centre for Energy Policy & Technology, UK

## Smart bioenergy – the role of pellets in the new energy system

- Volker Lenz, DBFZ (German Biomass Research Centre), Germany

## Pellets for smart buildings

- Christiane Egger, OÖ Energiesparverband, Austria

## The competitive position of biomass

- Ben Moxham, Enviva, USA

## Communicating pellets through social media

- Linda Saulite, Vizeum, Latvia

Lunch break



1. März

09.00 Pelletsstrategien und -märkte

## Eröffnung & Begrüßung

- LR Dr. Michael Strugl, Energielandesrat Oberösterreich
- Dr. Gerhard Dell, OÖ Energiesparverband, Österreich

## Bioenergie im EU "Clean Energy Package"

- Giulio Volpi, MA, Europäische Kommission, GD Energie

## Der europäische Pelletsmarkt – Status quo und Ausblick

- Gilles Gauthier, MSc, AEBIOM

## Wirksame Strategien für Pellets in Europa

- Dr. Calliope Panoutsou, Imperial College Centre for Energy Policy & Technology, Großbritannien

## Smart Bioenergy – die Rolle von Pellets im neuen Energiesystem

- Dr.-Ing. Volker Lenz, DBFZ (Deutsches Biomasseforschungszentrum), Deutschland

## Smart Buildings & Pellets

- Mag. Christiane Egger, OÖ Energiesparverband, Österreich

## Die Positionierung von Biomasse im Wettbewerb

- Ben Moxham, BA, Enviva, USA

## Social Media Kommunikation zu Pellets

- Linda Saulite, MSc, MBA, Vizeum, Lettland

Mittagspause



# European Pellet Conference 2017 Europäische Pelletskonferenz 2017



1 March

## 14.00 Biomass CHP – innovation from Upper Austria

- Ernst Höftberger, bioenergy2020+
- Stefan Ortner, ÖkoFEN
- Anton Hofer, Hargassner
- Wolfgang Aichinger, Fröling
- Hans-Jürgen Brandt, Frauscher Thermal Motors

## World Pellet Business & Technology Forum

### Challenges in pelletising different raw materials

- Werner Sitzmann, Amandus Kahl, Germany

### Material changes during steam explosion of bark

- Peter Björklund, Valmet AB, Sweden

### The range of the pellet quality class A1 – worldwide

- Hans Martin Behr, Deutsches Pelletinstitut, Germany

### Pellets from scrubs

- Pablo Rodero Masdemont, Avebiom, Spain

### Successful bioheat projects in educational and commercial buildings

- Mark Froling, Froling Energy, USA

### Cost-benefit analysis of technologies to reduce fine dust

- Hubert Röder, Wissenschaftszentrum Straubing, Germany

### The gamut of bioenergy: from first nations to the oil industry

- Jamie Stephen, TorchLight Bioresources, Canada

## Pellet Business Cooperation Platform

19.00 Evening programme



1. März

## 14.00 Biomasse KWK – Innovationen aus Oberösterreich

- DI Dr. Ernst Höftberger, bioenergy2020+
- DI (FH) Stefan Ortner, ÖkoFEN
- Ing. Anton Hofer, Hargassner
- Prok. Ing. Wolfgang Aichinger, Fröling
- DI Hans-Jürgen Brandt, Frauscher Thermal Motors

## World Pellet Business & Technology Forum

### Herausforderungen bei der Pelletierung verschiedener Rohmaterialien

- Prof. Dr.-Ing. Werner Sitzmann, Amandus Kahl, Deutschland

### Materialveränderungen von Rinde durch das Dampfexplosionsverfahren

- DI Peter Björklund, Valmet AB, Schweden

### Die Bandbreite der A1 Pelletsqualität – weltweit

- Hans Martin Behr, Deutsches Pelletinstitut, Deutschland

### Pellets aus Unterholz

- Pablo Rodero Masdemont, BSc, Avebiom, Spanien

### Erfolgreiche Biomasse-Projekte in Ausbildungs- und Betriebsgebäuden

- Mark Froling, BA, Froling Energy, USA

### Technologien zur Feinstaubreduktion: Kosten-Nutzen-Analyse

- Prof. Dr. Hubert Röder, Wissenschaftszentrum Straubing, Deutschland

### Bioenergieprojekte – von den First Nations bis zur Ölindustrie

- Dr. Jamie Stephen, TorchLight Bioresources, Kanada

## Pellet Business Cooperation Platform

19.00 Abendveranstaltung





## 2 March

### **09.30 New micro- and small-scale biomass CHP technologies** (in English only)

#### **Introduction ERA-NET project "Small-scale biomass based CHP"**

- Ingwald Obernberger, BIOS Bioenergiesysteme, Austria

#### **New micro-CHP technology for pellet stoves with a thermoelectric generator**

- Gerhard Weiß, BIOS Bioenergiesysteme, Austria

#### **New micro-CHP technology for small-scale pellet boilers with an Organic Rankine Cycle**

- Paul Roßmann, Technologie- und Förderzentrum, Germany / Jürgen Fernengel, Orca Energy, Germany

### **Small-scale CHP system based on a micro-gas turbine**

#### **Overall concept**

- Sven Hermansson, SP Technical Research Institute of Sweden

#### **Numerical modelling and experimental investigation of a high-temperature heat exchanger**

- Pawel Bocian, Institute of Power Engineering, Thermal Processes Department, Poland

#### **Ash related issues in indirectly-fired gas turbines with biomass fuels**

- Marcus Öhman, Luleå University of Technology, Sweden

#### **Discussion, conclusions and outlook**

- Ingwald Obernberger, BIOS Bioenergiesysteme, Austria

This session is organised as part of the ERA-NET project: "Small-scale BM based CHP" in cooperation with BIOS: [www.minibiochp.eu](http://www.minibiochp.eu)

**12.30 End of the session**

### **09.30 Pellet Market News Worldwide** Updates and outlook on European and global markets (in English only)

#### **Austria: initiatives to develop non-domestic use of pellets**

- Christian Rakos, proPellets Austria

#### **Germany: the energy transition in the heat market**

- Martin Bentele, DEPV

#### **UK: opportunities and threats**

- Mark Lebus, LC Energy

#### **Baltic countries: update on Baltic pellet production**

- Didzis Palejs, Latvian Biomass Association

#### **Norway: challenges of a small pellet market**

- Martin Kristensen, Norsk Bioenergiforening

#### **Canada: home market and export trends**

- Gordon Murray, Wood Pellet Association of Canada

#### **South Korea: outlook on price and demand**

- Alan Seung-rok Lee, SY ENERGY Group

#### **Japan: the dilemma of feed-in tariffs and heat markets**

- Kenichiro Kojima, Pellet Club

#### **Chile: markets and technologies**

- Laura Azócar Ulloa, Universidad de La Frontera

#### **Tasmania & Australia: challenges and experiences**

- Mervyn Jones, Wood Pellets Tasmania

#### **Chairperson:**

Gordon Murray, Wood Pellet Association of Canada

**13.00 End of the session**



# Young Researchers Conference: Biomass



A conference to present the work of young researchers in the field of biomass (in English only)

## 2 March

### 14.00 Opening and welcome

- Gerhard Dell / Christiane Egger, OÖ Energiesparverband

**Retrofit of gas-fuelled boilers and engines with biomass gasifiers** ■ Federica Carnicelli, European Institute for Energy Research, Germany

**Technical potential of biomass-derived synthetic natural gas production in Ireland** ■ Alessandro Singlitico / Jamie Goggins / Rory F.D. Monaghan, National University of Ireland Galway, Ireland

**Investigation of real life operation of biomass room heating appliances** ■ Marius Wöhler, University of Applied Forest Sciences Rottenburg, Germany

**Design operability and retrofit analysis framework for biomass energy systems** ■ Viknesh Andiappan Muragappan, Taylor's University Malaysia

**Assessing the sustainability of agricultural biomass flows for bioenergy** ■ Oludunsin Tunrayo Arodudu, Leibniz Centre for Agricultural Landscape Research, Germany

**Design and installation of a household anaerobic digester** ■ Omer Salim, Sudan University of Science & Technology, Sudan

**Repeatability in particulate and gaseous emissions from pellet stoves** ■ Rebecca Trojanowski, Brookhaven National Laboratory, USA

**Reproduction of Fe/MgO and Co/Fe catalysts for the production of light alkenes** ■ Jens Schneider, Deutsches Biomasseforschungszentrum, Germany

**Catalytic activity and selectivity of noble metals for HDO of eugenol** ■ Ana Bjelic, National Institute of Chemistry, Slovenia

**Microalgae as a feedstock for bioenergy and carotenoids: a biorefinery approach**

- Nadia Berrejebe / Issam Smaali, National Institute of Applied Sciences and Technology, Carthage University, Tunisia

**Two strategies for sustainable biomass valorisation with ionic liquids**

- Andre M. da Costa Lopes / Rafal Lukasik, National Laboratory for Energy and Geology, Portugal

**Using heavy metal contaminated wastewater in bioethanol production**

- Alica Bartošová / Lenka Blinová, Slovak University of Technology in Bratislava, Slovakia

**Dynamic modelling of the thermal behaviour of a combined biomass-solar system**

- Mohamed Krarouch, Cadi Ayad University, Morocco

**Nutrient removal in willow biomass harvested in Northern New York**

- Daniel De Souza, College of Environmental Sciences and Forestry, State University of New York, USA

**Wood pellet export from Russia to its six main importing countries** ■ Svetlana Proskurina, Lappeenranta University of Technology, Finland

**Comparative analysis of biomass promotion measures of the EU and the Russian Federation**

- Yana Palkina / Irina Malaykina / Anastasiya Kupriyanova, Saint-Petersburg State Economic University, Russia

**A systems perspective on the shift to modern wood heating** ■ Laura Edling, University of Vermont, USA

**Chairperson:** Walter Haslinger, bioenergy2020+, Austria





## Poster Presentations

### **Removal of inorganics from lignocellulosic biomass to obtain ash-free fuel (BiAR process)**

■ Miha Grilc, Department of Catalysis and Chemical Reaction Engineering, National Institute of Chemistry, Slovenia

**The effect of carboxymethyl cellulose binder on the quality of biomass pellets** ■ Iman Nazari Haghighi, University of Tabriz, Iran; Milad Vaezi, Islamic Azad University, Iran

### **Methods for measuring unburnt carbon in biomass ashes**

■ Josef Farták, University of Chemical Technology Prague, Czech Republic

### **Pre-treatment analysis in ethanol and xylitol production from sugarcane bagasse**

■ Yessica Chacón Pérez / Carlos Ariel Cardona Alzate, Campus Manizales, Universidad Nacional de Colombia

### **The importance of anaerobic digestion of microalgae biomass**

■ Laura Vargas, Instituto de Energías Renovables, Mexico

### **Assessment of the power generation potential of bioenergy from sewage treatment plants**

■ Guilherme Medeiros, Universidad de Sao Paulo, Brazil

**Analysis of criteria for the sustainable development of bio-energy** ■ Oleksandra Tryboi, Institute of Engineering Thermophysics of the National Academy of Sciences of Ukraine

**Using synthesis gas from oil palm rachis gasification for bioethanol production** ■ Juan Camilo Solarte Toro / Carlos Ariel Cardona Alzate, Manizales Campus, Universidad Nacional de Colombia

**Cellulosic biomass for bioethanol production** ■ Tanmay Kotasthane, Jawaharlal Nehru Technology University, India

**Carbon sequestration potential of biochar from biomass pyrolysis** ■ Oluwatosin Oginni / Kaushlendra Singh, West Virginia University, USA

**Obtaining bio-oil from solid biomass through ablative fast pyrolysis** ■ Vitalii Zubenko / Alex Epik, Scientific Engineering Centre "Biomass", Ukraine

### **Assessment of ligno-cellulosic residues as fuels for energy recovery**

■ Yarima Torreiro Villarino, CIEMAT, Spain

**Producing deoxygenated aviation fuels from biomass in arid regions** ■ Prosper Dzidzienyo / Juan-Rodrigo Bastidas-Oyanedela / Jens Schmidt, Masdar Institute, United Arab Emirates

**Isolation and identification of extractives from spruce bark** ■ Petra Stržincová / Aleš Ház / Veronika Majová, Faculty of Chemical and Food Technology, Slovak University of Technology, Slovakia

**Delignification of wheat straw with deep eutectic solvents** ■ Veronika Majová / Petra Stržincová / Michal Jablonský / Andrea Škulcová, Slovak University of Technology in Bratislava, Slovakia; Ana Malvis Romero, Universidad Pablo de Olavide, Spain

### **Ionic liquids as potential green solvents of the future**

■ Magaret Sívapragasam / Mohammad Moniruzzaman / Cecilia Wilfred, Universiti Teknologi Petronas, Malaysia

**Analysis of the use of cocoyam in a small-scale biorefinery** ■ Sebastián Serna Loaiza / Carlos Ariel Cardona Alzate, Campus Manizales, Universidad Nacional de Colombia

**Using terrestrial laser scanning to estimate urban tree biomass for bioenergy production** ■ Magdalena Sajdak, Wood Technology Institute, Poland; Giuseppe Colangelo, University of Bari Aldo Moro, Italy

**Implementation of biomass boilers in district heating systems in Ukraine** ■ Viacheslav Antonenko, Institute of Engineering Thermophysics of the National Academy of Sciences of the Ukraine

### **Application of air curtain burners**

■ Eunjai Lee, Humboldt State University, USA

**Challenges and realities for the establishment of bioenergy villages in Ukraine** ■ Ievgeniia Morozova, Institute of Bioenergy Crops and Sugar Beet of Ukraine



# European Pellet Conference

## Europäische Pelletskonferenz 2017

Date 1 - 2 March 2017

Venue Stadthalle Wels, Pollheimerstrasse 1, 4600 Wels, Austria

Conference languages  
English, German

### Conference fees

- 205 € for the Pellet Conference (1 - 2 March)
  - 300 € for the Pellet Conference and Site Visits (28 February - 2 March)
  - 330 € for all WSED conferences (1 - 3 March)
  - 410 € for all WSED conferences and Site Visits (28 February - 3 March)
  - for student fees see [www.wsed.at](http://www.wsed.at)
- All fees plus 10 % VAT

### Organisation and conference office

OÖ Energiesparverband  
Landstrasse 45, 4020 Linz, Austria  
Tel. +43/732/7720-14386  
[office@esv.or.at](mailto:office@esv.or.at), [www.esv-en.at](http://www.esv-en.at),  
[www.wsed.at](http://www.wsed.at)  
ZVR171568947, ATU 39283707

### Registration

Please register online at  
[www.wsed.at](http://www.wsed.at)

### How to reach Wels?

- by railway: direct connections from Vienna, Linz, Salzburg, Munich, Paris, Brussels, etc.
- by road: A1 and A25 motorways
- by air: airports in Linz (17 km from Wels), Vienna (222 km), Salzburg (110 km), Munich (247 km)

Datum 1. - 2. März 2017

Ort Stadthalle Wels, Pollheimerstraße 1, 4600 Wels, Österreich

Sprachen  
Deutsch, Englisch

### Konferenzbeiträge

- 205 € für die Pelletskonferenz (1. - 2. März)
  - 300 € für Pelletskonferenz und Fachexkursion (28. Februar - 2. März)
  - 330 € für alle WSED Konferenzen (1. - 3. März)
  - 410 € für alle WSED Konferenzen und die Fachexkursionen (28. Februar - 3. März)
  - Tagungsbeiträge für Studierende unter: [www.wsed.at/dt](http://www.wsed.at/dt)
- Alle Beiträge zzgl. 10 % MWSt.

### Organisation und Tagungsbüro

OÖ Energiesparverband  
Landstraße 45, 4020 Linz, Österreich,  
Tel. +43/732/7720-14386  
[office@esv.or.at](mailto:office@esv.or.at), [www.esv.or.at](http://www.esv.or.at),  
[www.wsed.at/dt](http://www.wsed.at/dt)  
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### Anmeldung

Bitte verwenden Sie die Online-Anmeldung auf: [www.wsed.at/dt](http://www.wsed.at/dt)

### Wie kommen Sie nach Wels?

- Bahn: direkt von Wien, Linz, Salzburg, München, Berlin, Brüssel etc.
- PKW: Autobahnen A1 & A25
- Flugzeug: Flughäfen Linz (17 km von Wels), Wien (222 km), Salzburg (110 km), München (247 km)



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