

6. Biowerkstoff-Kongress



www.bio-based.eu/conference

6th Int. Conference 2013 on Industrial Biotechnology and Bio-based Plastics & Composites

10 – 12 April 2013, Maternushaus, Cologne, Germany

KBBPPS Project – 1st Advisory Workshop, 9 April 2013

Highlights from the worldwide leading Countries in Bio-based Economy: USA & Germany



Pictures: BASF, PolyOne, J. Rettenmaier & Söhne GmbH

Organiser



www.nova-institute.eu

In Cooperation with

The Biological Materials Group



www.hs-bremen.de

Sponsor of the Conference



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Sponsor Innovation Award



www.coperion.com



Additional Sponsors for the Conference are very welcome!



1st KBBPPS Advisory Workshop

KBBPPS - Knowledge Based Bio-based Products' Pre-Standardization

What is the project about?

The aim of the European Union's FP7 project is to execute pre- and co-normative research, which will be used directly in the CEN standardization process on the same topic. This will provide the European and global market with horizontal standards on biocarbon and biomass content as well as biodegradability that have been assessed on a first set of selected bio-based products, such as solvents, plastics and lubricants.

For more information about the project, please visit www.kbbpps.eu

What is the workshop about?

This workshop, which will be organized in conjunction with the main conference, is the first of overall three advisory workshops that will be held within the KBBPPS project. In this first workshop the project's objectives and scope as well as the first steps that have already been taken will be presented. Then an interactive discussion will take place, in which relevant stakeholders and experts from science, industry, policy, certification bodies and consumer organisations are invited to share their views and expertise on standardization of bio-based products.

Don't miss this opportunity to receive first-hand information on the recent standardization research in the EU!

You will find more information about the 1st Advisory Workshop at www.bio-based.eu/kbbpps

This project is funded by the European Commission's Seventh Framework Programme for Research and Technological Development.



9 April 2013

From 10:30h – 17:30h, Maternushaus, Cologne, Germany

- 10:30 **The Netherlands Standardization Institute (NEN), Ortwin Costenoble**
Welcome to the KBBPPS 1st Advisory Workshop
Goal of the workshop
- 10:40 **The Netherlands Standardization Institute (NEN), Ortwin Costenoble**
Project overview – Scope and Milestones
- 11:00 **Michigan State University Prof. Dr. Narayan Ramani**
Carbon14, what is and how is it measured?
- 11:20 **The Energy research Centre of the Netherlands (ECN), Frits Bakker**
Bio-based carbon content – Plan, Intentions and Latest Activities, especially regarding the overview of current relevant standards on global level
Questions and feedback
- 11:55 **University of York, Tom Farmer**
Biomass content – Plan, Intentions and Latest Activities, especially regarding sampling and fractionation
Questions and feedback
- 12:30 **Lunch break**
- 13:30 **EuropaBio, Antoine Peeters**
What does industry expect from the KBBPPS project?
- 14:00 **nova-Institut GmbH, Lena Scholz, Adriana Sanz Mirabal**
Identification of the bio-based products to investigate – Plan, Intentions and Latest Activities
Questions and feedback
- 14:35 **Organic Waste Systems (OWS), Bruno De Wilde**
Biodegradability – Plan, Intentions and Latest Activities, including an overview of existing standards
Questions and feedback
- 15:05 **Tea Break**
- 15:45 **The Netherlands Standardization Institute (NEN), Ortwin Costenoble**
How can we manage international outreach? – Discussion with the workshop participants
- 16:30 **Open Discussion – KBBPPS Guidelines and Strategy within the project's boundaries**

DISCOUNT OFFER FOR WORKSHOP PARTICIPANTS:
10% discount on the Conference
on 10–12 April 2013

Entrance Fee

Workshop incl.
Catering **€ 75**
plus 19 % VAT.

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Programme

1st Day, 10 April 2013

09:30 Registration and welcome coffee

10:00 Conference Opening, nova-Institut GmbH, Germany,
Michael Carus

POLICY & STRATEGY FOR A BIO-BASED ECONOMY

10:15 U.S. Department of Agriculture (USDA), USA,
Ron Buckhalt
Bio-based Product Opportunities and Federal Support

10:45 Bioeconomy Council
(of the Federal Government of Germany), Germany,
Prof. Dr. Christine Lang
Bio-based Economy in Germany: Status and Outlook

11:15 BIO, USA, Dr. Rina Singh
Bio-based Strategy and Political Framework in the USA

11:45 CLIB 2021, Germany, Dr. Manfred Kircher
Feedstock Flexibility in Bioeconomy

12:15 Lunch Break

13:30 European Bioplastics e.V., Germany,
Kristy-Barbara Lange
Environmental communications for bioplastics

13:50 The German Association of Biotechnology Industries,
Germany, Dr. Ricardo Gent
The Innovative field of Biotechnology: Expectations,
Perspectives and Activities of the German Association
of Biotechnology Industries

14:10 Beta Analytic Ltd., USA, Alexander Shroff
Carbon 14, what is it and how is it measured?

14:30 DIN CERTCO, Germany, Dr. Oliver Ehlert
Certification scheme for Bio-based Products

14:50 Coffee Break

BIO-BASED BUILDING BLOCKS

15:20 Myriant Technologies, USA, Dr. Michael Mang
Commercializing Bio-based Chemicals Applications

15:40 Clariant Produkte (Deutschland) GmbH, Germany,
Dr. Clemens Heikaus
Biotech Renewable Center: Germany's largest
cellulose Ethanol Plant

16:00 BASF SE, Germany, Prof. Dr. Andreas Künkel
Symbiosis of Chemistry and Biology:
BASF's Biodegradable and Renewable Polymers

16:20 N.N. USA



Innovation Award ceremony 2011. From left to right:
Peter von Hoffmann (Coperion GmbH), Michael Carus
(nova-Institut GmbH), Richard Hurding (OMODO GmbH),
Christine Schmidt (nova-Institut GmbH).

Innovation Award "Bio-based Material of the year 2013"

For the sixth year running an innovation award will be awarded to the young, innovative bio-based chemicals and materials industry, along with suitable applications and markets for bio-based products exclusively coming from USA and Germany this time round. The focus of the award is on new developments within these areas, which have had a market launch in 2012 and 2013.

Sponsor of the Innovation Award is Coperion GmbH, worldwide market and technology leader in compounding & extrusion, materials handling and service:

www.coperion.com



INNOVATION AWARD: HIGHLIGHTS FROM USA & GERMANY

16:40 Coperion GmbH, Germany, Uta Kühnen
Compounding of bio-based Polymers. Basics and Trend

17:00 Presentation of the 6 nominated and election of
the innovation award winner
For more details please visit the conference website
www.bio-based.eu/conference

20:30 Dinner Buffet and Innovation Award

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2nd Day, 11 April 2013

BIO-BASED PLASTICS & POLYMERS: PAST AND FUTURE

- 09:00 **Institut für Kunststofftechnik (IKT), Germany, Prof. Dr.-Ing. Christian Bonten**
History and Future of Bio-based Plastics
- 09:20 **nova-Institut GmbH, Germany, Michael Carus**
Market Study on Bio-based Polymers in the World
- 09:40 **WWF, USA, Erin Simon**
Conservation and the Bio Economy
- 10:00 **Coffee Break**

BIO-BASED POLYMERS ON THE RISE

- 10:30 **DuPont, USA, Dr. Karlheinz Hausmann**
DuPont Bio-based Polymer Platform
- 11:00 **Bayer MaterialScience, Germany, Dr. Niklas Meine**
Bio-based Polyurethanes on the rise
- 11:30 **NatureWorks LLC, USA, Erwin Vink**
Ingeo™ Biopolymers: one of the building Blocks in a more Sustainable Bio-Economy
- 12:00 **Evonik Industries AG, Germany, Dr. Jasmin Nitsche**
Bio-based high-performance Polyamides
- 12:30 **Lunch Break**

BIO-BASED COMPOSITES FOR AUTOMOTIVE APPLICATIONS

- 14:00 **Johann Borgers GmbH & Co. KG, Germany, Dipl. Ing. Michael Kalweit**
Bio-Composites in automotive and other applications – Latest Trends and Developments
- 14:30 **FlexForm Technologies LLC, USA, Gregg Baumbaugh**
Putting Natural Fiber to Work
- 15:00 **Coffee Break**

PARALLEL SESSIONS PROGRAMME

LEADING BIO-BASED PLASTICS SMES

- 15:30 **Tecnaro GmbH, Germany, Dr. Lars Ziegler**
Thermoplastic Polymers from Renewable Resources
- 16:00 **FKuR Kunststoff GmbH, Germany, Carmen Michels**
Plastics made by Nature
- 16:30 **Biotec GmbH & Co. KG, Germany, Dr. Christoph Heß**
Biotec's range of Bioplastic Resins
- 17:00 **N.N. USA**

BIOMIMETICS – LEARNING FROM NATURE

- 15:30 **University of Applied Sciences Bremen, Germany, Prof. Dr. Jörg Müssig**
Natural Fibres: Function in Nature
- 16:00 **University of California, Berkeley, USA, Prof. Dr. Robert O. Ritchie**
Nature-inspired structural Materials
- 16:30 **Research Campus Golm, Germany, Prof. Dr. Peter Fratzl**
Biomimetic Materials Research: Inspiration from nature's structural materials
- 17:00 **University of Bayreuth, Germany, Prof. Dr. Thomas Scheibel**
Spider Silk Proteins for Applications in Biomaterials

PANEL DISCUSSION

- 18:00 **Challenges and Future of Bio-based Economy**

- 19:00 **Coming together**

Exhibition Bio-based Plastics and Composites

Use the extraordinary chance to present your company and your products at the conference with an exhibition stand! Prices starting at 800€. We would be glad to provide you with a nonbinding offer, please contact: Dominik Vogt, dominik.vogt@nova-institut.de

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NEW! SCIENCE & TECHNOLOGY

3rd Day, 12 April 2013

BIO-BASED PLASTICS: TRENDS AND ENVIRONMENTAL EVALUATION

09:00 **University of Applied Science Hanover, Germany,**
Prof. Dr. Hans-Josef Endres
Bioplastics-Opportunities, Bottlenecks and Perspectives

09:30 **Michigan State University, USA,**
Prof. Dr. Narayan Ramani
Understanding and reading LCAs

10:00 **Coffee Break**

NATURAL FIBRES & BIO-BASED COMPOSITES

10:30 **Cornell University, USA, Prof. Dr. Anil Netravali**
Green Composites

11:00 **Fraunhofer Institute for Applied Polymer Research IAP, Germany, Dr. Gunnar Engelmann**
Lignin – more than a simple filler for thermoplastics?

11:30 **University of Texas, USA, Prof. Dr. Jonathan Y. Chen**
Functional Fiber, Film, and Composite from Raw Cellulose

12:00 **Light Light Solutions, LLC., USA, Prof. Dr. Danny Akin**
Linen most useful – The Versality of the Flax Plant

12:30 **Lunch Break**

INDUSTRIAL BIOTECHNOLOGY

13:30 **WSU Institute for Biological Chemistry, USA,**
Prof. Dr. Norman G. Lewis
Plant Biotechnology: New Routes to Polymer Building Blocks and Specialty Chemicals

14:00 **Research Institut Biopos, Germany,**
Prof. Dr. Birgit Kamm
Biorefinery Processes for Production of Intermediates and Bio-based Polymers

14:30 **Institute for Interfacial Engineering, University of Stuttgart – Fraunhofer Institute for Interfacial Engineering and Biotechnology, Germany,**
Prof. Dr. Thomas Hirth
The Leuna Biorefinery Project – Integration of biotechnological and chemical Processes

15:00 **N.N., USA**

15:30 **Coffee & Snacks**



Special collaboration between the nova-Institute and CLIB2021!

Two special events will take place in cooperation: The 6th International Conference on Industrial Biotechnology and Bio-based Plastics and the CLIB International Conference 2013 (CIC 2013) on 17–18 April 2013 at the Radisson Blu Scandinavia Hotel in Düsseldorf. Persons who would like to attend both these events that lie so closely together in time and venue, receive a discount of 10%. Especially for international participants this provides a chance to visit two congresses with one journey, which complement each other and offer a complete overview of the status-quo of industrial biotechnology.

Participants of the 6th International Conference on Industrial Biotechnology and Bio-based Plastics can get the 10% Discount for CIC 2013 by choosing the corresponding option during the online registration:

www.clib2021.de/en/events/clib-conference



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www.bio-based.eu/conference

You can find all conferences and information of the nova-Institute at: www.bio-based.eu

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Highlights from the worldwide leading countries in Bio-based Economy: USA & Germany

To what extent has the bio-based economy really taken root in practice? What strategies are there for the years to come?

Germany and the USA are world leaders in the chemical and plastics industries. Both countries have comprehensive funding schemes in place for research and development in the fields of bio-based chemicals and plastics, but investment and market presence are also showing double-figure growth.

This conference aims to provide major players from the US and German bio-based chemicals and plastics industries with an opportunity to present and discuss their latest developments and strategies. Representatives of political bodies and associations will also have their say alongside leading companies. For the very first time, the conference will count with a third day especially dedicated to the latest research activities in the field of industrial biotechnology & bio-based plastics. More than 250 participants mainly from industry are expected!

Partner



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www.iar-pole.com



www.soyandgraintrade.com



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www.kunststoffland-nrw.de



www.bio-pro.de



www.cib-frankfurt.de



www.umsicht.fraunhofer.de

Venue

Maternushaus Cologne
Kardinal-Frings-Str. 1-3
50668 Cologne, Germany
Phone: +49 (0) 221 16 310
E-Mail: info@maternushaus.de

The venue is 10 minutes walking distance from the central station and 30 minutes distance by train from Cologne/Bonn airport.

Entrance Fee

Conference incl. Catering, plus 19 % VAT

KBBPPS Workshop 9 April 2013	1 st Day Conference 10 April 2013	2 nd Day Conference 11 April 2013	3 rd Day Conference 12 April 2013
75 €	450 €	400 €	350 € *
	750 €		
		700 €	
	900 €		
For Workshop participants: 10% Discount on all Conference Fees			

*Inclusive parallel session on 11 April 2013