



# 8<sup>th</sup> International Conference on Bio-based Materials

13–15 April 2015, Maternushaus, Cologne, Germany

**Special Topics:** Bio-based 3D Printing ++ Bio-based Plastics and Environment ++ Start-Ups

Organiser



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## HIGHLIGHTS FROM EUROPE AND ASIA:

### Bio-based Plastics and Composites – Biorefineries and Industrial Biotechnology

**1<sup>st</sup> Day, 13 April 2015**

**Policy and Industry**

**2<sup>nd</sup> Day, 14 April 2015**

**Industry**

**3<sup>rd</sup> Day, 15 April 2015**

**Start-Ups and Funding**



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13–15 April 2015, Maternushaus, Cologne, Germany



[www.bio-based.eu/conference](http://www.bio-based.eu/conference)

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## HIGHLIGHTS FROM EUROPE AND ASIA:

### Bio-based Plastics and Composites – Biorefineries and Industrial Biotechnology

This conference aims at providing major players from the European and Asian bio-based chemicals, plastics and composite industries with an opportunity to present and discuss their latest developments and strategies. The event with the attendant exhibition will bring together experts from leading companies and newcomers. Representatives of political bodies and associations will also have their say alongside leading companies. Due to the great success and for a second time the conference will count with a third day especially dedicated to start-ups with groundbreaking innovations.

The 8<sup>th</sup> International Conference on Bio-based Materials (“Biowerkstoff-Kongress”) builds on successful previous conferences: 250 participants and 30 exhibitors from more than 20 countries, mainly from industry, are expected!

### Innovation Award “Bio-based Material of the Year 2015”

For the eighth year running, the Innovation Award “Bio-based Material of the Year” will be awarded to the young, innovative bio-based chemicals and materials industry, finding suitable applications and markets for bio-based products. The competition focuses on new developments in these areas, which have had (or will have) a market launch in 2014 and 2015, exclusively coming from Europe and US this time round.

[www.biowerkstoff-kongress.de/award](http://www.biowerkstoff-kongress.de/award)





## Programme

1<sup>st</sup> Day, 13 April 2015

### POLICY AND INDUSTRY

09:00 REGISTRATION AND WELCOME COFFEE

09:30 MICHAEL CARUS, NOVA-INSTITUTE:  
CONFERENCE OPENING

#### POLICY & MARKETS


09:30 **Director (ret.) EU-Commission, Advisor and Member of the 1<sup>st</sup> German Bioeconomy Council** 



**Dr. Dr. h.c. Christian Patermann**

Moderation

Ten years bio-based economy: looking back – lessons learnt

09:45 **European Commission, DG Research and Innovation, Biobased Products and Processes Unit** 



**Dr. Barend Verachtert**

Bio-based economy – strategy of the new Commission


10:15 **European Bioplastics** 



**Kristy-Barbara Lange**

Bioplastics in the EU – status and lobbying in Brussels, a field report

#### 10:45 COFFEE BREAK

11:15 **Honorary Member and Former Chairman of the Biorenewable Business Platform** 



**Ton Runneboom**

Opportunities for the fermentation-based chemical industry: an analysis of the market potential and competitiveness of North-West Europe

11:45 **BASF SE** 



**Dr. Christine Stiehl**

The use of renewable feedstock in chemical production

#### 12:15 LUNCH BREAK

13:30 **nova-Institut GmbH** 



**Michael Carus**

Worldwide production capacities for bio-based building blocks and polymers, today and 2020

14:00 **Roundtable on Sustainable Biomaterials (RSB)** 




**Dr. Melanie Williams**

Ensuring that bio-based chemicals are sustainable

14:30 PANEL DISCUSSION AND PRESS  
CONFERENCE WITH THE SPEAKERS FROM THE  
MORNING SESSION

#### COMMERCIAL BIOREFINERIES

**MODERATION: PROF. DR. LUDO DIELS, FLEMISCH  
INSTITUTE FOR TECHNOLOGICAL RESEARCH  
(VITO)** 

15:00 **Wageningen University** 



**Prof. Dr. Johan P.M. Sanders**

Small scales for biorefineries and bio-based chemical production

15:30 **PRECISE Corporation** 



**Dr. Wolfgang Baltus**

Biorefineries in Asia

16:00 **BioEconomy Clustermanagement GmbH** 



**Dr. Rainer Busch**

The LCF-Biorefinery in Leuna as the cornerstone for the cascading use of woody biomass

#### 16:30 COFFEE BREAK

17:00 **Stora Enso Biomaterials** 



**Axel Wizemann**

Bio-based chemicals and materials: differentiation and diversification based on non-food competing biomass

#### INNOVATION AWARD “BIO-BASED MATERIAL OF THE YEAR 2015”

The “Top 6” candidates will present their innovative bio-based products

**nova-Institut GmbH** 



**Michael Carus &  
Florence Aeschelmann**

Moderation



17:30 **Gold Sponsor: Coperion GmbH** 



**Peter von Hoffmann**

Coperion and compounding of bio-based materials

17:45 Six presentations of the Innovation Award candidates and voting by the participants – further information at the end of the programme

#### 19:00 VOTING

20:00 – 22:00 DINNER BUFFET & INNOVATION  
AWARD CEREMONY

22:00 – 01:00 GET TOGETHER IN THE PARTY ROOM  
BENEATH MATERNUSHAUS

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**2<sup>nd</sup> Day, 14 April 2015**

## INDUSTRY

### BIO-BASED BUILDING BLOCKS, POLYMERS & COMPOSITES

**MODERATION: CHRISTIAAN BOLCK, WAGENINGEN UNIVERSITY**

**09:00** **Flemisch Institute for Technological Research (VITO)**



**Heleen De Wever**

Highly functionalised lignin molecules: how to manage them and to turn them into innovative molecules and materials

**09:30** **Korea Institute of Industrial Technology (KITECH)**



**Dr. Sangyong Kim**

Diacids and diols as sources of precursor materials for bio-based aromatics

**10:00** **Corbion**



**Hugo Vuurens**

Progress in lactic acid and PLA

### 10:30 COFFEE BREAK



**Biotechnology Industry Organization (BIO)**

**Dr. Rina Singh**

Moderation

**11:00** **Jan Ravenstijn Consulting**



**Jan Ravenstijn**

New (bio)polymers: lessons learnt

**11:30** **Bridgestone Technical Center Europe**



**Dr. Barbara M. Secchi**

Bridgestone actions towards use of sustainable materials

**12:00** **Coca-Cola Europe**



**Dr. Klaus Stadler**

Coca-Cola – leader in new bio-based polymers: the bio-PET and PEF story

**12:30** **Toyota Boshoku Europe N.V.**



**Munich Branch**

**Tayfun Buzkan / Motoki Maekawa**

Sustainable lightweight material in automotive industry: simultaneous back injection molding of natural fiber composites



### 13:00 LUNCH BREAK

### BIO-BASED 3D PRINTING

**MODERATION: JAN RAVENSTIJN, JAN RAVENSTIJN CONSULTING**

**14:00** **Institut für Kunststofftechnik (IKT) – Universität Stuttgart**



**Univ.-Prof. Dr.-Ing. Christian Bonten**

3D printing of bio-based plastics

**14:30** **FKuR** / **Helian Polymers BV**



**Carmen Michels**

Bio-based compounds for 3D printing: wood and bamboo with PLA

### BIO-BASED PLASTICS & ENVIRONMENT



**Sustainability Consult**

**Kathryn Sheridan**

Moderation

**15:00** **nova-Institut GmbH**



**Roland Essel**

Microplastics in the environment: scientific background, sources and volumes

**15:30** **Ghent University**



**Lisbeth Van Cauwenberghe**

Microplastics in marine environment and impacts on human consumption

### 16:00 COFFEE BREAK

**16:30** **Institut für Kunststofftechnik (IKT) – Universität Stuttgart**



**Univ.-Prof. Dr.-Ing. Christian Bonten**

Degradation of plastics: risks and chances

**17:00** **Kaneka Corporation**



**Kenichiro Nishiza / Takahiko Sugaya**

Market Development of environmental friendly Kaneka Biopolymer Aonilex®



**17:30** **Pharmafilter B.V.**



**Eduardo van den Berg / Peter Kelly (photo)**

Pharmafilter, a bio-based curricular bio economy solution for hospitals

### 18:00 PANEL DISCUSSION

**19:00 – 00:00 COLOGNE BUFFET WITH LOCAL SPECIALTIES IN THE PARTY ROOM & BOWLING ALLEY BENEATH MATERNUSHAUS**

## 3<sup>rd</sup> Day, 15 April 2015

### START-UPS AND FUNDING

**MODERATION: DR. ASTA EDER, NOVA-INSTITUT GMBH**

**09:00 Sofinnova Partners**



**Josko Bobanovic**

Building start-ups in renewable chemistry

**09:20 Sinvestec LLC**



**Dr. John Williams**

Why invest in bio-based materials?

**09:40 BCNP Consultants**



**Tobias Kirchhoff**

Biotech & chemistry start-ups: status quo and trends

**10:00 InfraServ GmbH & Co. Knapsack KG**



**Gordana Hofmann-Jovic**

Accelerating start-ups

#### 10:20 COFFEE BREAK

#### START-UPS SELECTED BY NOVA-INSTITUTE

**MODERATION: TOBIAS KIRCHHOFF, BCNP CONSULTANTS**

**10:50 EggPlant**



**Dr. Paolo Stufano**

EggPlant. Not wasting life.

**11:10 ZAZA bottles**



**Zuzana Cabejšková**

Refillable water bottles: combining sustainability and beauty

**11:30 GFBiochemicals Europe**



**Marcel van Berkel**

GFBiochemicals – making Levulinic Acid happen

#### START-UPS FROM MINISTRIES OF EDUCATION AND RESEARCH & ECONOMICS AND ENERGY

**MODERATION: DR. EVA P. WALDVOGEL, PROJEKTTRÄGER JÜLICH**

**11:50 dextrinova (Friedrich Schiller University Jena)**



**Dr. Tim Liebert**

Starch esters – an innovative hot melt

**12:10 JeNaCell GmbH**



**Christin Staffel**

Products based on biotechnologically produced nanocellulose

#### 12:30 LUNCH BREAK

**13:50 ANiMOX GmbH**



**Thomas Grimm**

Development and production of proteins for chemistry and biotechnology

**14:10 Polymer Service GmbH Merseburg**



**Dr.-Ing. Ralf Lach**

Mechanical performance of biomaterial modified polymers

#### START-UPS FROM CLIB2021

**MODERATION: DR. THOMAS SCHWARZ, CLIB2021**

**14:30 SenseUp**



**Dr. Georg Schaumann**

Microbial strain and production process development in Ultra-High-Throughput

**14:50 Medical Adhesive Revolution GmbH**



**Steve Gotzen**

Revolutionizing wound care with biodegradable surgical adhesives

**15:10 Technische Universität München**



**Dr. Wolfgang H. Schwarz**

Novel enzyme complexes for the effective hydrolysis of plant biomass

#### 15:30 COFFEE BREAK

#### START-UPS FROM IAR

**MODERATION: JOHAN DE CONINCK, IAR**

**16:00 Syngulon**



**Guy Helin**

Microbial fermentation technologies for bio-based products

**16:20 Oméga Cat System**



**Frédéric Caijo**

Olefin metathesis

#### 16:40 NETWORKING SNACK



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## Innovation Award Candidates

**17:40 Bayer MaterialScience AG**



**Dr. Berta Vega Sánchez**

DESMODUR® eco N – First bio-based polyurethane crosslinker in the market for high performance automotive coatings: Polyisocyanate based on Pentamethylene Diisocyanate (PDI)

**17:50 EcoTechnilin Ltd**



**William Anthony**

FibriRock 100% bio-sourced composite for aircraft applications comprising flax non-woven, basalt yarns and a sugar-based bioresin. Co-developed with TFC

**18:00 Evonik Industries AG**



**Ralf Meier**

100% bio-based high performance polyamide 12 based on palm kernel oil

**18:10 HIB Trim Part Solutions GmbH**



**Uwe Schnabel**

Nature 50 – Natural fibre reinforced plastic (Hemp – PP) including a long fibre ratio > 50% for injection molding

**18:20 INVISTA S.a.r.l.**



**Arnaud Tandonnet**

LYCRA® T 162R Fibre - Spandex yarn made using renewable butanediol as raw material with a lower CO<sub>2</sub> and fossil fuel emissions footprint

**18:30 twoBEars GbR**



**Benno Besler**

bioFila – High performance PLA blends with outstanding optic and haptic properties for 3D printing

**19:00 VOTING**



Nominated for the "Bio-based Material of the Year 2015"

**Side Event on Tuesday Afternoon**

## Open-Bio Workshop on Instruments for Public Procurement of Bio-based Products



**14 April 2015**

**14:00 – 15:30**

This business stakeholder workshop presents measures that are being developed in the European research projects Open-Bio and InnProBio to promote public procurement of bio-based products.

**John Vos, BTG:**

InnProBio – A Forum for Bio-Based Innovation in Public Procurement

**Martin Behrens, FNR:**

A Product Database Concept for Public Procurement of Bio-Based Products

**Jan Peuckert, TU Berlin:**

Discussion of the Product Database Concept



**Participation is limited to 25 persons!**

**Registration at**

**[www.bio-based.eu/open-bio-pp-testing-b2b](http://www.bio-based.eu/open-bio-pp-testing-b2b)**

**You can find all conferences and reports of nova-Institute at:**  
**[www.bio-based.eu](http://www.bio-based.eu)**

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## Exhibition

Use the extraordinary chance to present your company and your products at the conference with an exhibition stand!


Receive a free exhibition booth with a three days conference entrance ticket! 25 booths are already booked and 3 still available. Please contact:

**Florence Aeschelmann**  
florence.aeschelmann@nova-institut.de

## Overview of the Exhibition




**Booth No. 1**  
Toyota Boshoku Europe N.V. Munich Branch  / 

**Booth No. 2**  
SKZ - TeConA GmbH 

**Booth No. 3**  
DIN CERTCO Gesellschaft für Konformitätsbewertung mbH 

**Booth No. 4**  
GFBiochemicals Europe 

**Booth No. 5**  
Fraunhofer UMSICHT 

**Booth No. 6**  
Institut für Kunststofftechnik (IKT) – Universität Stuttgart 

**Booth No. 7**  
Standardization and Communication Research for Bio-based Products: KBBPPS & Open-Bio 

**Booth No. 8**  
Agroisolab GmbH 


**Booth No. 9 & 19**  
Innovation Award “Bio-based Material of the Year 2015”

**Booth No. 10**  
European Industrial Hemp Association (EIHA) 


**Booth No. 11**  
Kompetenzzentrum Holz GmbH 

**Booth No. 12**  
Flemisch Institute for Techn. Research (VITO) & Flanders Investment & Trade 


**Booth No. 13**  
Roundtable on Sustainable Biomaterials 

**Booth No. 14**  
ANiMOX GmbH 


**Booth No. 15**  
Forschungszentrum Jülich GmbH 


**Booth No. 16**  
Ecotradex GmbH 


**Booth No. 17**  
Bio Base Europe Pilot Plant 

**Booth No. 18**  
Sustainability Consult 

**Booth No. 20**  
InfraServ GmbH & Co. Knapsack KG 

**Booth No. 22**  
Zeton BV 

**Booth No. 24**  
NISCluster Ltd. 

**Booth No. 26**  
Invista S.a.r.l. 

**Booth No. 27 & 28**  
Tabletop space for nova-Institute and media partners

**Booths No. 21, 23, 25**  
Unbooked

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## Your Conference Team



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[www.renewablematter.eu](http://www.renewablematter.eu)



[www.sustainabilityconsult.com](http://www.sustainabilityconsult.com)



[www.heise.de/tr/](http://www.heise.de/tr/)

## Partner Events



<http://en.european-bioplastics.org/conference/>



[www.plastonline.org](http://www.plastonline.org)

## Venue & Accomodation

**Maternushaus Cologne**  
Kardinal-Frings-Str. 1–3  
50668 Cologne, Germany  
+49 (0)221 16310  
[info@maternushaus.de](mailto:info@maternushaus.de)

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

## Entrance Fee

Conference incl. Catering, plus 19 % VAT

1 <sup>st</sup> Day Conference 13 April 2015	2 <sup>nd</sup> Day Conference 14 April 2015	3 <sup>rd</sup> Day Conference 15 April 2015
475 €	425 €	400 €
775 €		
		725 €
950 € (+ exhibition booth if desired – limited offer)		