



8th 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



www.nova-institute.eu

Gold Sponsor
Innovation Award



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www.infraserv-knapsack.de

HIGHLIGHTS FROM EUROPE AND ASIA:

Bio-based Plastics and Composites – Biorefineries and Industrial Biotechnology

1st Day, 13 April 2015 Policy and Industry

2nd Day, 14 April 2015 Industry

3rd Day, 15 April 2015 Start-Ups and Funding



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13–15 April 2015, Maternushaus, Cologne, Germany



www.bio-based.eu/conference

Advisory Board



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Christiaan Bolck

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 8th 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



Programme

1st 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 1st 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



2nd Day, 14 April 2015

INDUSTRY

BIO-BASED BUILDING BLOCKS, POLYMERS & COMPOSITES

MODERATION: CHRISTIAAN BOLCK, WAGENINGEN UNIVERSITY

09:00 Flemish 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



Francois de Bie

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 / Ruud Rouleaux

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

3rd 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



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



Dr. Nadine Heßler

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 CO₂ 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

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

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www.bio-based.eu/conference

Exhibition on Bio-based Plastics and Composites

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! 21 booths are already booked and 7 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
Unbooked

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) 


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. 

Booths No. 21, 23, 25 - 28
Unbooked

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Your Conference Team



Michael Carus
CEO
nova-Institut GmbH



Florence Aeschelmann
Innovation Award
+49 (0)561 503580-44
florence.aeschelmann@nova-institut.de



Dominik Vogt
Exhibition, Partners,
Media Partners, Sponsors
+49 (0)2233 4814-49
dominik.vogt@nova-institut.de



Jutta Millich
Partners, Media partners
+49 (0)561 503580-44
jutta.millich@nova-institut.de



Ina Hellge
Contact, Registration,
Organisation
+49 (0)2233 4814-40
ina.hellge@nova-institut.de

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www.european-bioplastics.org



<http://assobiotec.federchimica.it>



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www.macplas.it



www.plasticker.de



www.plastixportal.co.za



www.renewablematter.eu



www.sustainabilityconsult.com



www.heise.de/tr/

Partner Events



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



www.plastonline.org

Venue & Accommodation

Maternushaus Cologne
Kardinal-Frings-Str. 1–3
50668 Cologne, Germany
+49 (0)221 16310
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 st Day Conference 13 April 2015	2 nd Day Conference 14 April 2015	3 rd Day Conference 15 April 2015
475 €	425 €	400 €
775 €		
		725 €
950 € (+ exhibition booth if desired – limited offer)		