8. Biowerkstoff-Kongress





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



HIGHLIGHTS FROM EUROPE AND ASIA:

Bio-based Plastics and Composites – Biorefineries and Industrial Biotechnology

Day, 13 April 2015 Policy and Industry 1 st

Day, 14 April 2015 Industry 2nd

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







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Dr. Wolfgang Baltus



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Prof. Dr. Ludo Diels



Hochschule Bremen Prof. Dr. Jörg Müssig



Jan Ravenstijn Consulting **—** Jan Ravenstijn



Wageningen University 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 succes and for a second time the conference will count with a third day especially dedicated to startups with groundbreaking innovations.

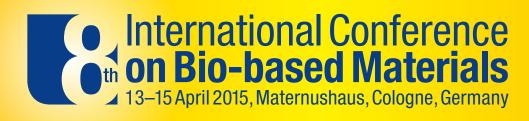
The 8th International Conference on Bio-based Materials ("Biowerkstoff-Kongress") builds on successful previous conferences: 250 participants and 30 exhibitors from more than 20 countries, mainly from industry, are expected!

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

Director (ret.) EU-Comission. 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 Comission, 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

Honorary Member and Former Chairman of the Biorenewable Business Platform

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

11:45

BASF SE



Ton Runneboom

Dr. Christine Stiehl

The use of renewable feedstock in chemical production

12:15 LUNCH BREAK

13:30

nova-Institut GmbH





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

14:00

Roundtable on Sustainable Biomaterials



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



BioEconomy Clustermanagement GmbH

16:00 **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 biobased products



nova-Institut GmbH **Michael Carus &** Florence Aeschelmann Moderation



17:30

Gold Sponsor: Coperion GmbH =



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 Flemisch Institute for Technological Research (VITO)

Heleen De Wever

10:00

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

Corbion = Francois de Bie Progress in lactic acid and PLA

10:30 COFFEE BREAK

Biotechnology Industry Organization (BIO) Dr. Rina Singh Moderation

Jan Ravenstijn Consulting Jan Ravenstijn New (bio)polymers: lessons learnt

Coca-Cola Europe

Bridgestone Technical Center Europe Dr. Barbara M. Secchi

Bridgestone actions towards use of sustainable materials

Dr. Klaus Stadler Coca-Cola - leader in new bio-based polymers: the bio-PET and PEF story

Tovota 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

14:30

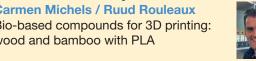
16:30

17:30

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

> FKuR — / Helian Polymers BV = **Carmen Michels / Ruud Rouleaux** Bio-based compounds for 3D printing: wood and bamboo with PLA



BASED PLASTICS & ENVIRONMENT

Sustainability Consult Kathryn Sheridan Moderation

nova-Institut GmbH **Roland Essel** Microplastics in the environment: scientific

15:30 **Ghent University Lisbeth Van Cauwenberghe**

background, sources and volumes

Microplastics in marine environment and impacts on human consumption

16:00 COFFEE BREAK

Institut für Kunststofftechnik (IKT) -Universität Stuttgart Univ.-Prof. Dr.-Ing. Christian Bonten Degradation of plastics: risks and chances

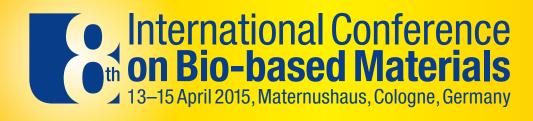
17:00 Kaneka Corporation Kenichiro Nishiza / Takahiko Sugaya Market Development of environmental

friendly Kaneka Biopolymer Aonilex® 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



Sinvestec LLC

Dr. John Williams

Why invest in bio-based materials?



Tobias Kirchhoff
Biotech & chemistry start-ups: status quo and trends



InfraServ GmbH & Co. Knapsack KG
Gordana Hofmann-Jovic
Accelerating start-ups

BCNP Consultants



START-UPS SELECTED BY NOVA-INSTITUTE MODERATION: TOBIAS KIRCHHOFF, BCNP CONSULTANTS



EggPlant ■ ■
Dr. Paolo Stufano
EggPlant. Not wasting life.



Zuzana Cabejšková Refillable water bottles: combining sustainability and beauty



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

GFBiochemicals



dextrinova (Friedrich Schiller University
Jena)

Dr. Tim Liebert
Starch esters – an innovative hot melt

12:10

Dr. Nadine Heßler
Products based on biotechnologically produced nanocellulose

12:30 LUNCH BREAK

13:50 ANIMOX GmbH Thomas Grimm

Thomas Grimm

Development and production of proteins for chemistry and biotechnology



Polymer Service GmbH Merseburg

Dr.-Ing. Ralf Lach

Mechanical performance of biomaterial modified polymers

START-UPS FROM CLIB2021

MODERATION: DR. THOMAS SCHWARZ,
CLIB2021

SenseUp =

JeNaCell GmbH



Dr. Georg SchaumannMicrobial strain and production process development in Ultra-High-Throughput

Medical Adhesive Revolution GmbH



Steve GotzenRevolutionizing wound care with biodegradable surgical adhesives



Technische Universität München
Dr. Wolfgang H. Schwarz
Novel enzyme complexes for the effective hydrolysis of plant biomass

15:30 COFFEE BREAK

MODERATION: JOHAN DE CONINCK, IAR 11
16:00 Syngulon 11



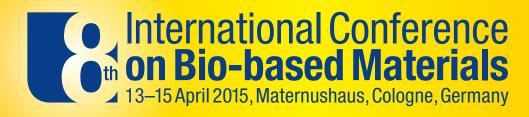
START-UPS FROM IAR

Guy Helin
Microbial fermentation technologies for bio-based products

16:20

Oméga Cat System Frédéric Caijo
Olefin metathesis

16:40 NETWORKING SNACK





Innovation Award Candidates

17:40

Bayer MaterialScience AG







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





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

18:00

Evonik Industries AG







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

18:10

HIB TRIM PART SOLUTIONS GmbH







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

18:20





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

18:30

twoBEars GbR







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

19:00 VOTING



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





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





Your Conference Team



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RSB

Biotechnology Industry



www.carmen-ev.de

http://assobiotec.federchimica.it.

kunststoffland NRW

BCNP Consultants



www.bio.nrw.de

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www.fnr.de





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www.liebertpub.com



www.plastixportal.co.za

plastick∈r





www.sustainabilityconsult.com



www.heise.de/tr/

www.plasticker.de

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)		

Venue & Accomodation

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.