Photo: Markus Scholz for the Leopoldina

Bio meets **Economy**
Science meets **Industry**

7th International Bioeconomy Conference

We are looking forward to welcome you

The bioeconomy offers many approaches to preserving the climate and the environment for future generations with a knowledge-based and sustainable economy. Numerous scientists and entrepreneurs work on sustainable and biobased strategies, methods and products, ranging from plant and food research, to agriculture and forestry, to the chemical, pharmaceutical and energy industries, as well as the field of innovative materials. At the 7th International Bioeconomy Conference, new topics and findings on bio-based developments and economy will be presented and discussed: Bio meets Economy – Science meets Industry.

Scandinavia is the partner region of this year's conference and will be represented with well-known speakers from research and business from Finland, Sweden, Norway and Denmark.

Venue

Leopoldina
National Academy of Sciences
Jägerberg 1
06108 Halle (Saale)
Germany

Registration

The conference is fee-free for students, PhD and press agents.
For all other participants, the conference fee amounts 60 euros and includes participation on both days, snacks and documents (online).
The conference dinner on the evening of June 6th 2018 can be booked additionally for 20 euros.

Sign up now!

Please register until
22th May 2018

www.bioeconomy-conference.de

Funded by:

SACHSEN-ANHALT

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Organisers

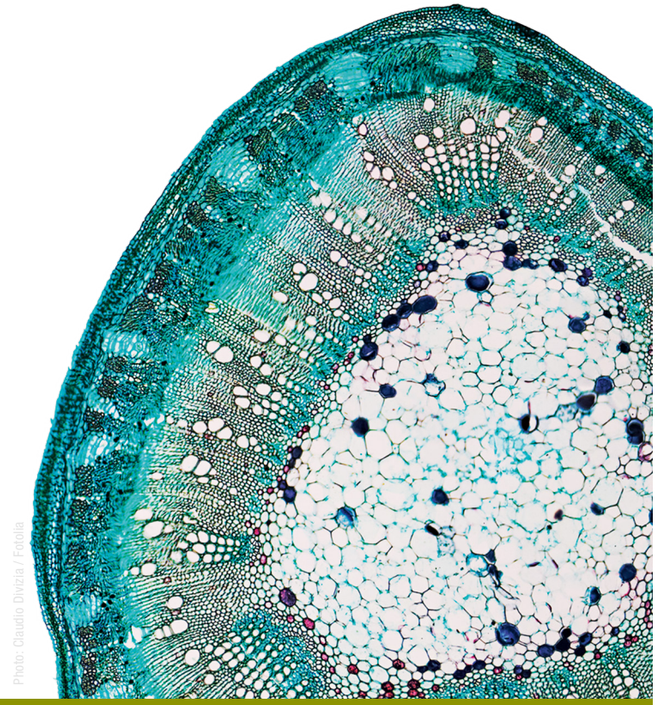
ScienceCampus Plant-Based Bioeconomy Halle

BioEconomy Cluster

From Molecule to Society –
Ways to a Plant-Based Economy
www.sciencecampus-halle.de

Where Wood meets Chemistry
www.bioeconomy.de

www.bioeconomy-conference.de



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Event program

06 | 07 June 2018

Partner Region: Scandinavia

Your advantages

- Access to extensive funding opportunities
- Contact and networking with science, research and industry worldwide
- Exclusive findings from substantiated studies on market potentials and trends
- Extensive knowledge transfer
- Free opportunities to expand your outreach
- Strategic coaching
- Recruitment of qualified employees
- Access to excellent infrastructure

WEDNESDAY | JUNE 6th | 2018

OPENING
Greetings

13:00 – 13:10 **Prof. Dr. Klaus Pillen** (ScienceCampus Halle – Plant-Based Bioeconomy) & **Prof. Dr. Matthias Zscheile** (BioEconomy Cluster)

13:10 – 13:20 **Prof. Dr. Jörg Hacker** (President Leopoldina)

13:20 – 13:30 **Dr. Jürgen Ude** (State Secretary in the Ministry of Economic Affairs, Sciences and Digitalization of the State of Saxony-Anhalt)

13:30 – 14:10 **Dr. Waldemar Kütt** (European Commission, Head of Unit Bioeconomy Strategy) *A European strategy for a sustainable bioeconomy: addressing environmental, social and economic aspects*

1 SESSION – Social-economic issues of the bioeconomy
Prof. Dr. Alfons Balmann, Leibniz Institute for Agricultural Development in Transition Economics / IAMO

★ **14:10 – 14:40** Keynote: **Dr. Teis Hansen** (Lund University, SWE) *Key challenges for commercialisation of forest-based biorefineries*

14:40 – 15:00 **Dr. Antje Klitkou** (Nordic Institute for Studies in Innovation, Research and Education / NIFU, NOR) *New path creation for forest-based value creation in Norway*

15:00 – 15:45 Coffee Break

Photo: Chinnapong / Fotolia

1 SUBSESSION – Model Region Central Germany
Dr. Anne-Laure Tissier, ScienceCampus Halle – Plant-Based Bioeconomy

15:45 – 16:00 **Dr. Frans Hermans** (Leibniz Institute for Agricultural Development in Transition Economics / IAMO) *Bioclusters and transitions: Analysis and implications for sustainable development*

16:00 – 16:15 **Prof. Dr. Daniela Thrän** (Helmholtz Centre for Environmental Research GmbH / UFZ) *Scenarios for a wood-based bioeconomy in Central Germany. Products – Processes – Environmental Effects*

16:15 – 16:30 **Claudia Weinhold** (EU Academic Network Saxony-Anhalt) *Opportunities for research funding in the field of bioeconomy*

2 SESSION – Challenges and chances within the forest based bioeconomy
Gerd Unkelbach, Fraunhofer Center for Chemical-Biotechnological Processes / CBP

★ **16:30 – 17:00** Keynote: **Prof. Dr. Herbert Sixta** (Aalto University, FIN) *High-quality man-made cellulose fibers from textile and paper wastes*

17:00 – 17:20 **Dr. Jonas Joelsson** (RISE Processum AB, SWE) *Forest biorefinery development trends – from the regional initiative to pan-European collaboration*

17:20 – 17:40 **Mika Härkönen** (VTT Technical Research Centre of Finland, FIN) *Piloting and scale-up of new forest based technology concepts – reflections on challenges and opportunities*

2 SUBSESSION – Model Region Central Germany
Dr. Daniela Pufky-Heinrich, Fraunhofer Center for Chemical-Biotechnological Processes / CBP

17:40 – 17:55 **Dr. Christine Roßberg** (Fraunhofer Center for Chemical-Biotechnological Processes / CBP) *Lignin-based agrochemicals*

17:55 – 18:10 **Nicole Eversmann** (Fraunhofer Institute for Microstructure of Materials and Systems / IMWS) *Microwave curing of formed sandwich components from natural raw materials*

! DINNER EVENT
Leopoldina, Jägerberg 1, 06108 Halle (Saale)

19:00 – 22:00 **Dr. Judith Marquardt,** Deputy Mayor of Halle (Saale)

THURSDAY | JUNE 7th | 2018

3 SESSION – Plant productivity for a growing bioeconomy
Prof. Dr. Klaus Pillen, ScienceCampus Halle – Plant-Based Bioeconomy

★ **08:30 – 09:00** Keynote: **Prof. Dr. Thomas Georg Roitsch** (University of Copenhagen, DNK) *Plant phenomics of physiological and morphological traits for climate-smart breeding and agriculture*

09:00 – 09:20 **Prof. Dr. Ulrich Schurr** (Forschungszentrum Jülich and Bioeconomy Science Center, GER) *Integrated bioeconomy and non-invasive plant phenotyping*

09:20 – 09:40 **Dr. Andres Gordillo,** (KWS SAAT SE, GER) *New products and markets in cereals breeding*

3 SUBSESSION – Model Region Central Germany
Dr. Anne-Laure Tissier, ScienceCampus Halle – Plant-Based Bioeconomy

09:40 – 09:55 **Prof. Dr. Thomas Altmann** (Leibniz Institute of Plant Genetics and Crop Plant Research / IPK) *Investigation of genetic and physiological crop performance determinants using high-throughput plant phenotyping*

09:55 – 10:10 **Dr. Jochen Kumlehn** (Leibniz Institute of Plant Genetics and Crop Plant Research / IPK) *Site-directed genome modification in cereal crops: applications and challenges*

10:10 – 10:25 **Prof. Dr. Klaus Pillen** (Martin Luther University Halle-Wittenberg / MLU) *Utilization of biodiversity to improve productivity and cell wall composition in barley*

10:25 – 11:15 Coffee Break

Photo: StockRocket / Fotolia

4 SESSION – The pathway to success with biotech products
Dr. Joachim Schulze, EW Biotech GmbH

★ **11:15 – 11:45** Keynote: **Dr. Andreas Worberg** (The Novo Nordisk Foundation, DNK) *Having the end in mind – Commercialization of bio-based products with a Pre-Pilot-Plant*

11:45 – 12:05 **Ronny Kittler** (German Biomass Research Center / DBFZ, GER) *50 shades of green: the glocalisation of bioeconomy markets*

12:05 – 12:25 **Dr. Mika Aalto** (Ministry of Economic Affairs and Employment, FIN) *Bioeconomy research & innovation activities and latest developments in Finland*

4 SUBSESSION – Model Region Central Germany
Dr. Daniela Pufky-Heinrich, Fraunhofer Center for Chemical-Biotechnological Processes / CBP

12:25 – 12:40 **Dr. Marc Struhalla** (c-LEcta) *Cell-free synthetic biology to produce food ingredients*

12:40 – 12:55 **Dr. Nadine Heßler** (JeNaCell GmbH) *From lab to market – How to succeed?*

12:55 – 13:10 **Dr. Joachim Schulze** (EW Biotech GmbH) *The top trends in bioeconomy – without shortcuts to success*

13:10 – 14:00 Lunch Break

Photo: Sven Döring for Fraunhofer CBP

5 SESSION – Research Highlights funded by BMBF
Dr. Wiebke Müller, Projectmanagement Jülich

14:00 – 14:10 **Alexander Hilgarth** (Julius-Maximilians-University Würzburg) *HONEYCLOUD – Connected smart homes for honeybees*

14:10 – 14:20 **Fabian Bonk** (Helmholtz Centre for Environmental Research GmbH / UFZ) *Efficient recovery of acidified biogas plants*

14:20 – 14:30 **Dr. Thilo C. Fischer** (Technical University of Munich) *Breeding of new pome fruit by ZIN: Apple-Pear Hybrids for Commercialization*

14:30 – 14:40 **Dr. Anne-Katrin Mahlein** (Institute of Sugar Beet Research) *Hyperspectral phenotyping of resistance of crop plants to plant pathogens – New insights and opportunities from the CropSense.net project*

14:40 – 14:50 **Dipl.-Ing. Sven Grasselt-Gille** (TU Dresden) *The one-way-cot – bioeconomical design for sustainable relief*

14:50 – 15:00 **Dr. Matthias Fladung** (Thuenen-Institute of Forest Genetics) *Genetic modifications to increase biomass yield in poplar*

15:00 – 15:10 **Prof. Dr. Peter Nick** (Botanical Garden of the Karlsruhe Institute of Technology) *Playing LEGO with plant metabolism using a microfluidic biofermenter*

15:10 – 15:20 **Dr. Henrike Brundiek** (Enzymicals AG) *Bio-based antimicrobial substances – an opportunity for a new kind of detergent?*

15:20 – 15:30 **Dr.-Ing. Felix Lenk** (TU Dresden) *Sens-o-Spheres – The wireless sensor platform for the new Bioeconomy*

15:30 – 15:40 **Nadja Kreuter** (Justus Liebig University Giessen) *Lipases from edible mushrooms for use in the dairy industry*

15:40 – 15:50 **Prof. Dr. Wulf Amelung** (University of Bonn) *Sustainable adaptation of coastal agro-ecosystems to increased salinity intrusion (DeltAdapt)*

15:50 – 16:00 **Dr. Benjamin Engler** (Rosenheim University of Applied Sciences) *Precision Harvesting of Deciduous Species for the Bioeconomy*

16:00 – 16:15 **Closing Remarks** Prof. Dr. Ludger Wessjohann, Leibniz Institute of Plantchemistry & Prof. Dr. Matthias Zscheile, BioEconomy Cluster