



Bio. Innovationen. Stärken.

BioFactory

How biorefineries and bio-based products are transforming the economy

When: May 25 - 26, 2021
13:00 - 16:00 CEST

Where: Online Seminar

www.technologieland-hessen.de

CREATE.
FUTURE.
NETWORK.

BioFactory

The petroleum age draws to a close. Instead of fossil raw materials, the chemical industry is increasingly relying on biomass. But plants cannot be broken down into their chemical components as easily as oil. Also, product synthesis still largely depends on traditional processes. The establishment of sustainable production methods is therefore becoming increasingly important. Researchers and companies around the world are working on using renewable raw materials for the production of a wide range of products.



In the BioFactory of the future, bio-based raw materials are broken down into their components, converted and refined. In particular, residues from forestry production are a largely untapped resource – as are grass or green waste. New technologies are currently in the pilot phase to utilise the main components lignin and hemicellulose as materials on an industrial scale. Already today, biotechnology is indispensable in the production of medicines, flavourings and a wide variety of materials. Whereas at the same time, the development of new production organisms and enzymes is increasingly expanding the range of applications.

With **Bio. Innovationen. Stärken.** Technologieland Hessen takes a look at current biorefinery projects in Hessen, Europe and around the world that already demonstrate the great potential of industrial biomass utilisation. With the presentation of biological production processes and biobased product examples from science and industry, the second day will show ways from synthesis to a product and clarify the question which new business areas can result from this.

The HTAI team is looking forward to seeing you!



Inform, advise, network: The Technologieland Hessen supports companies in developing forward-looking innovations. We unleash economic potential, make technological excellence visible and thus raise Hessen's profile as a location for technology and innovation. The Technologieland Hessen is implemented by Hessen Trade & Invest GmbH on behalf of the Ministry of Economic Affairs, Energy, Transport and Housing – State of Hessen

The innovation field of Life Sciences & Bioeconomy supports the transition towards a bio-based economy that is both economically and ecologically sustainable.

ORGANIZER

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Hessen Economic Development

on behalf of the Ministry of Economic Affairs,
Energy, Transport and Housing – State of Hessen



Online Registration:
[www.technologieland-hessen.de/
bioinnovationen-veranstaltung](http://www.technologieland-hessen.de/bioinnovationen-veranstaltung)



PROGRAMME

TUESDAY, MAY 25, 2021



12:55 LOGIN VIA ACCESS LINK

13:00 **WELCOME**

**13:05 BIOREFINERY: A GLOBAL VIEW
ON CURRENT DEMO PLANTS**



QUO VADIS, BIOREFINERIES? A TECHNOLOGICAL VIEW ON THE INDUSTRIAL USE OF BIOGENIC RESOURCES

Prof. Kurt Wagemann, DECHEMA, Frankfurt



INDUSTRIAL SCALE CONVERSION: FROM SUSTAINABLE WOOD TO CHEMICAL PRODUCTS

Dr. Michael Duetsch, UPM Biochemicals, Leuna



FROM MEADOWS TO BIOBASED PRODUCTS: A GRASS BIOREFINERY SYSTEM FOR THE CIRCULAR ECONOMY

Asli Hanci, Biowert Industrie, Brensbach/Odenwald

14:15 BREAK (15')



TURNING WOOD INTO SUSTAINABLE RAW MATERIALS - UNIQUE LIGNIN AND HIGH PURITY SUGARS FROM SWEETWOODS FLAGSHIP PLANT

Peep Pitk, Graanul Biotech, Estonia



MODIFIED BIOCHAR: BIOMASS WASTE VALORIZATION FOR THE RECOVERY OF PHOSPHORUS FROM ANIMAL MANURE WASTEWATER

Dr. Tao Zhang, China Agricultural University, China

15:15 **OPEN PANEL**

16:00 END

WEDNESDAY, MAY 26, 2021

held in German



12:55 EINWAHL PER ZUGANGSLINK

13:00 **BEGRÜSSUNG**

**13:05 BIOTRANSFORMATION:
VON DER SYNTHESE ZUM PRODUKT**



BEITRÄGE DER BIOTECHNOLOGIE ZU EINER NACHHALTIGEREN WIRTSCHAFT - CHANCEN UND HERAUSFORDERUNGEN

Prof. Stefan Buchholz, Evonik Nutrition & Care, Essen



BIOTRANSFORMATION VON PFLANZLICHEN NEBENSTRÖMEN ZU NATÜRLICHEN AROMASTOFFEN

Dr. Martin Rühl, LOEWE Schwerpunkt AROMAplus, Justus-Liebig-Universität Gießen



MASSGESCHNEIDERTES LIGNIN FÜR KOSMETIKA UND NEUE MATERIALIEN

Dr. Wienke Reynolds, Lignopure, Hamburg

14:25 PAUSE (15')



MIKROBIELLE ELEKTROSYNTHESE ZUR PRODUKTION VON BASISCHEMIKALIEN

Prof. Dirk Holtmann, Technische Hochschule Mittelhessen, Gießen



ENZYM ENGINEERING ALS SCHLÜSSEL-SCHRITT FÜR DIE ENTWICKLUNG EFFIZIENTER BIOTRANSFORMATIONEN

Dr. Andreas Vogel, c-LEcta, Leipzig

15:30 **VIDEOFÜHRUNG DURCH DIE GRASFABRIK**

16:00 ENDE

Host: Dr. Janin Sameith, Hessen Trade & Invest

