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Regular fee € 920.-Special rate for subscribers of Kunststoffe and Kunststoffe international and members of kunststoffland NRW and AVK: € 828.-University Staff € 395.-Speaker/Poster exhibitor € 250.-(All prices plus German VAT)

#### Conference fee from 11 May 2014 on:

Regular fee € 990.-Special rate for subscribers of Kunststoffe and Kunststoffe international and members of kunststoffland NRW and AVK: € 891.-University Staff € 475.-Speaker/Poster exhibitor € 250.-(All prices plus German VAT)

I agree to the conditions of attendance and hereby register for participation at the 10<sup>th</sup> Congress for Biobased Materials, Natural Fibres and WPC in Fellbach/Stuttgart.

I agree to the conditions of attendance and hereby register as a poster exhibitor for the 10<sup>th</sup> Congress for Biobased Materials, Natural Fibres and WPC in Fellbach/Stuttgart.

□ I would like to register for the **Networking Event** on 24 June 2014 (included in conference fee).

#### **Participant:**

Company address	Private address	
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Industry Sector		
Department	Function	
Street/P.O. Box		
State/ZIP Code/City		
Telephone	Fax	
E-Mail		

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# **biobased materials**

10th Congress for Biobased Materials, Natural Fibres and WPC

24 and 25 June 2014, Stuttgart/Fellbach

### **Congress Coordinators**

- · Prof. Dr. Alexander Bismarck > Universität Wien, Austria
- · Prof. Dr. Andrzej K. Bledzki
- > West Pomeranian University of Technology, Poland
- · Dr. Christoph Burgstaller
- > Transfercenter für Kunststofftechnik GmbH, Austria
- · Prof. Dr. Jörg Müssig > Hochschule Bremen, BIONIK, Germany
- · Dr. Volker E. Sperber > Industrie Consultant, Germany
- · Prof. Dr. Rupert Wimmer > Universität für Bodenkultur Wien, Austria

#### Target audience

The congress is intended for all producers, users and researchers of natural, cellulose fibre-reinforced and plastic composites, bioplastics and WPC. It attracts decision makers, researchers and experts as well as early career scientists.



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### 10th Congress for Biobased Materials, Natural Fibres and WPC

For the 10<sup>th</sup> time, the Congress for Biobased Materials, Natural Fibres and WPC provides the platform for industrial researchers and engineers and academics to exchange and discuss the latest innovations, strategic questions and to present recent results.

Considering the advancements and future trends, the congress has expanded the focus from WPC to biobased composites and bioplastics and to renewable materials. The congress, which was initiated 1998 in Kassel, has helped to drive the expansion of applications of this group of materials. Over the years it has attracted a tremendous number of participants (in the recent years from 40 countries), which makes it one of the leading events in Europe.

This year, the congress will again be focusing on the extensive display of the newest levels of technology and best practices as well as the opportunity for intense cross-national discussions between industry and research.

In addition to oral presentations, there will be interactive poster presentations and industrial exhibitions with table top displays.

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### Topics

- · Biological, biobased materials: bioplastics and biocomposites
- · Natural and cellulose fibre-reinforced and innovative plastic composites
- · Innovative processing and manufacturing methods for said materials and composites
- · Additives and fillers for biobased materials and composites
- · Innovative applications, for instance, in the furniture, construction, packaging, sporting goods, aircraft and automotive industries

### Characteristics of the congress

- It brings together diverse research communities and experts that often meet only regionally: the congress engages the cross-national dialogue between research and industry
- · It identifies challenges and key opportunities for expansion and applications for natural and cellulose fibre-reinforced and plastic composites, bioplastics and WPC
- It covers advancements and future trends

### Exhibition

Apart from oral presentations, there will be an industrial exhibition with table top displays. The exhibition will take place on both days of the conference and is located in the lobby in front of the conference hall where the breaks will take place.

Grab the opportunity to play an active role in this high profile event and showcase your expertise. For further information, assistance and questions, please contact Nadine Völker, +49 89 99830-466, tagungen@hanser.de

### **Poster Session**

On the first day of the conference, the program contains numerous interactive poster presentations, offering an ideal foundation for communication, while fostering direct contacts with the presenters. Latest data and samples can be discussed face-to-face.

Each poster will be presented to the plenum in a two-minute presentation and the best presenter will get a poster-prize.

### **Presented by**



08.00 am	Registration and welcome coffee			
	PLE	NUM		
09.00 am	Welcome and introduction Congress Coordinators			
09.15 am	Symbiosis of chemistry and biology: BASF's biodegradable and renewable polymers Prof. Dr. Andreas Künkel > BASF SE, Germany			
09.45 am	Using natural fibre composites in high performance applications Prof. Kerry Kirwan, WMG > University of Warwick, United Kingdom			
	10.15 AM CC	OFFEE BREA	ιK	
10.45 am	Changing the surface of wood with atmospheric plasma polymerization Prof. Karl Englund > Washington State University, USA			
11.15 am	Nanocellulose materials – opportunities and challenges Prof. Lars Berglund > KTH Wallenberg Wood Sci Ctr, Sweden			
11.45 am	Shaping the future with bioeconomy – raw materials, processes and products Prof. Dr. Thomas Hirth > Stuttgart University and Fraunhofer-Institut für Grenzflächen- und Bioverfahrenstechnik IGB, Germany			
12.15 pm	<b>Poster session</b> Moderation: Dr. Volker Sperber, Industry Consultant, German	ıy		
12.15 pm		-		
	Moderation: Dr. Volker Sperber, Industry Consultant, German	-		
RENEWA	Moderation: Dr. Volker Sperber, Industry Consultant, German O1.00 Pl BLE MATERIALS 1 Biopolymer Alloys for Durable Applications Mathew Crans, Altuglas International	M LUNCH WPC	Preparation of different Biobased Materials for WPC Lars Danzenbächer	
RENEWA 02.20 pm	Moderation: Dr. Volker Sperber, Industry Consultant, German O1.00 Pl BLE MATERIALS 1 Biopolymer Alloys for Durable Applications	WPC 02.20 pm	for WPC	
RENEWA 02.20 pm 02.45 pm	Moderation: Dr. Volker Sperber, Industry Consultant, German O1.00 Pl BLE MATERIALS 1 Biopolymer Alloys for Durable Applications Mathew Crans, Altuglas International > Arkema Group, France InnoREX – Latest results from European project about the metal free polymeri- sation of PLA using alternative energies for reactive extrusion Björn Bergmann > Fraunhofer Institute for Chemical	M LUNCH WPC 02.20 pm 02.45 pm	for WPC Lars Danzenbächer > Pallmann Maschinenfabrik GmbH & Co. KG, Germany Kraft cellulose reinforced PP composites Philipp Dippold	



Take the opportunity to visit the exhibition during the breaks. Enjoy snacks and coffee while discovering the latest products and developemets!

#### RENEWABLE MATERIALS 2

Blanca Lekube

#### 04.30 pm Recycling of Bioplastics: effects of multiple compounding and injection molding processes on the properties of PLA Päivi Lehtiniemi > Transfercenter für Kunststofftechnik GmbH, Austria 04.55 pm Bio-based polymer products – opportunities 04.55 pm Injection moulding simulation of natural and limitations from a disposal and rocu

	<b>cling perspective</b> DrIng. Gunnar Hädrich > Knoten Weimar International Transfer Centre, Germany		logy sim
05.20 pm	New eco-sustainable polyamide based polymers and compounds for multipurpose applications	05.20 pm	Con fibe
	Nicolangelo Peduto  RADICI CHIMICA & RADICI PLASTICS, Italy		
05.45 pm	Edible Bioplastic for Dry Food Products	05.45 pm	Nat

06.10 pm End of first conference day

Dr. Noryawati Mulyono

> Atma Jaya Catholic University, Indonesia

#### NETWORKING EVENT

06.45 pm Compliments to Prof. Dr. Andrzej K. Bledzki and opening of the Networking Event

#### 07.00 pm Dinner Buffet

Enjoy the Dinner Buffet. You will have the opportunity to benefit from the pleasant and relaxed atmosphere and to update your business contacts.

We will also offer the opportunity to watch the Soccer World Championship games in big screen.



#### NATURAL FIBRE COMPOSITES

04.30 pm Fibre orientation and its effect on the mechanical properties of the injection molded natural fibre reinforced PE-HD

> Tampere University of Technology, Finland

fibre reinforced polymers - Fibre morphogy and orientation in experiment and nulation

harina Albrecht > Hochschule Bremen, Germany

mposite reinforcement with hemp ers

Natural Fibers for Biomaterials Prof. Alcides Leao > UNESP-College of Agricultural Sciences, Brazil

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### Wednesday, 25 June 2014

#### PLENUM

#### 08.15 am Presentation of the Poster Award

After a careful screening of all posters the Committee will announce the poster award. The choice of the jury will be based on scientific excellence of the abstract and on the presentation of the scientific information on the poster and during the poster session.

- 08.30 am Biobased Technical Fibers and Composites Trends and Case Studies Prof. Dr. Hans-Peter Fink and Dr. Johannes Ganster > Fraunhofer Institute for Applied Polymer Research (IAP), Germany
- 09.00 am Innovative Natural Fibre Polypropylene for Injection Moulding Balancing cost, weight, performance and sustainability Michael Tranninger > Borealis Polyolefine GmbH, Austria
- 09.30 am Case: UPM Biocomposites from recycling to superior composites Markku Koivisto > UPM ProFi Business Area, Finland

#### **10.00 AM COFFEE BREAK**

#### PROCESSING AND MANUFACTURING

- 10.30 am Energy efficient processing of cellulose fibre reinforced biobased polyamide Markus Brunkau > Zeppelin Systems GmbH, Germany
- 10.55 am Physical foaming of WPC processing and mechanical properties Stefan Schierl > KraussMaffei Technologies GmbH, Germany
- 11.20 am Melt handling and pelletizing specialized equipment and processing conditions for specific material properties Julia Ramge > Automatik Plastics Machinery GmbH, Germany
- 11.45 am Solid decks conquer Europe resulting in high performance extrusion and new challenges for machine manufacturers Sonja Kahr > Battenfeld-Cincinnati Austria GmbH, Austria

#### 12.10 PM LUNCH

#### LIGNIN AND BIOPLASTICS

- 01.30 pm Biobased Plastics offering new opportunities Patrick Zimmermann > FKuR Kunststoff GmbH, Germany
- 01.55 pm Low Cost Co-Production of Hydrophobic Lignin Coated Cellulose Nanofibrils and/ or Cellulose Nanocrystals with Biofuels Dr. Christos Sarigiannidis 
  American Process Inc., USA
- 02.20 pm A comparative study of polyethylene composites containing different lignins Denis Rodrigue > Université Laval, Canada

#### **NEW OPPORTUNITIES**

01.30 pm DIN CERTCO Certification Systems in the environmental fields: Getting Products Certified

LEIGHT-WEIGHT AND STRUCTURAL PRODUCTS

Hendrikus W. G. van Herwijnen > Wood K Plus, Austria

steel structure and recycled PVC-Coffee

sectional WPC-beam with the tribologic

value as sliding rail utilized in an over-

Dr.-Ing. Sven Eichhorn > TU Chemnitz, Germany

(rayon) in biobased matrix materials

Fabián Velandia > Woodpecker SAS, Colombia

11.20 am Component analysis of a fully implemented

11.45 am Endless thread reinforcement using viscose

Manuela Reinhardt > TU Chemnitz, Germany

10.30 am Foamed wood, a novel light weight

10.55 am Temporary constructions made with

husk composite profiles

head conveying system

bio-based material

Dr. Oliver Ehlert > DIN CERTCO Gesellschaft für Konformitätsbewertung mbH, Germany

01.55 pm Quintessence of the EU-BioStruct Project - Materials and Processes for High-Value Applications

> Dr. Jan Diemert > Fraunhofer Institute for Chemical Technology – ICT, Germany

02.20 pm On the road to sustainable bio-based materials: A balancing act on environmental, economic and social factors Professor R. J. Murphy, Centre for Environmental Strategy

> University of Surrey, UK

## 02.45 AM COFFEE BREAK

#### PLENUM

- 03.15 pm Nanocellulose towards applications Dr. Pia Qvintus-Leino > VTT Technical Research Center, Finland
- 03.45 pm Markets in Asia and New developments Takeyasu Kikuchi > WPC Corporation, Japan
- 04.15 pm Concluding remarks Congress Coordinators
- 04.30 pm End of congress



### Details

Contact	Carl Hanser Verlag · Lucia Femerling / Project Manager Tel.: +49 89 99830-674 · Fax: +49 89 99830-157 · tagungen@hanser.de			
Location	Schwabenlandhalle $\cdot$ Tainer Strasse 7 $\cdot$ 70734 Fellbach/Germany $\cdot$ Tel.: $\cdot$			
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Benefits	The conference fee includes proceedings (download area), lunch, all refree potential advised events. You will receive your name plate at the registra is classified as authorization to call upon the mentioned benefits.			
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Exhibition	There will be a supplemental exhibition. Are you interested in becoming Tel.: +49 89 99830-466 or tagungen@hanser.de			
Accomodation	Transfer and overnight-stay are not included in the conference fee. A limit for participants. Please book your accomodation yourself (reference: "H Best Western Plus Hotel Fellbach-Stuttgart (next to Schwabenlandha Tainer Strasse 7-9 · 70734 Fellbach · Germany · Tel.: +49 711 5859-0 23-25 June 2014: Single room € 129 incl. breakfast Hotel ibis Styles Stuttgart (about 6 km away from Schwabenlandhalle Teinacher Strasse 20 · 70372 Stuttgart, Germany · Tel.: +49 711 95400 23-24 June 2014: Single room € 99 incl. breakfast · 24-25 June 2014			
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