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Conference fee until 10 May 2014: Regular fee € 920.-

Special rate for subscribers of Kunststoffe and Kunststoffe international

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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 th Congr	ess 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	th 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	SS
First name		Name
Company		
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.

Organized by





Exhibitors so far







10th Congress for Biobased Materials, Natural Fibres and WPC

For the 10th 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.

Congress Coordinators



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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





































Tuesday, 24 June 2014

08.00 am	Registration and welcome coffee
	PLENUM
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 COFFEE BREAK

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 Poster session**Moderation: Dr. Volker Sperber, Industry Consultant, Germany

01.00 PM LUNCH

RENEWA	BLE MATERIALS 1	WPC	
02.20 pm	Biopolymer Alloys for Durable Applications Mathew Crans, Altuglas International > Arkema Group, France	02.20 pm	Preparation of different Biobased Materials for WPC Lars Danzenbächer > Pallmann Maschinenfabrik GmbH & Co. KG, Germany
02.45 pm	InnoREX – Latest results from European project about the metal free polymerisation of PLA using alternative energies for reactive extrusion Björn Bergmann > Fraunhofer Institute for Chemical Technology – ICT, Germany	02.45 pm	Kraft cellulose reinforced PP composites Philipp Dippold Nompetenzzentrum Holz GmbH, Austria
03.10 pm	Layered cellulose fibre-reinforced poly- lactide composites inspired by natural structures Dr. Nina Graupner > Hochschule Bremen, Germany	03.10 pm	Durability of water-based Coatings on Wood-Polymer Composite (WPC) Sidings Dr. Arne Schirp > Fraunhofer-Institut für Holzforschung > Wilhelm-Klauditz-Institut WKI
03.35 pm	Effect of fibre surface modifications on microbial assimilation of sisal fibre reinforced PLA biocomposites Dr. Emma Strömberg > KTH Royal Institute of Technology, Fibre and Polymer Technology, Sweden	03.35 pm	Focus on durability and sustainability in the WPC industry Ing. Harald Zodl > REHAU Polymer Industrie GmbH, Austria

04.00 PM COFFEE BREAK



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

RENEWA	BLE MATERIALS 2	NATURA	L FIBRE COMPOSITES
04.30 pm	Recycling of Bioplastics: effects of multiple compounding and injection molding processes on the properties of PLA Blanca Lekube > Transfercenter für Kunststofftechnik GmbH, Austria	04.30 pm	Fibre orientation and its effect on the mechanical properties of the injection molded natural fibre reinforced PE-HD Päivi Lehtiniemi > Tampere University of Technology, Finland
04.55 pm	Bio-based polymer products – opportunities and limitations from a disposal and recy- cling perspective DrIng. Gunnar Hädrich > Knoten Weimar International Transfer Centre, Germany	04.55 pm	Injection moulding simulation of natural fibre reinforced polymers – Fibre morpho- logy and orientation in experiment and simulation Katharina Albrecht > Hochschule Bremen, Germany
05.20 pm	New eco-sustainable polyamide based polymers and compounds for multipurpose applications Nicolangelo Peduto > RADICI CHIMICA & RADICI PLASTICS, Italy	05.20 pm	Composite reinforcement with hemp fibers
05.45 pm	Edible Bioplastic for Dry Food Products	05.45 pm	Natural Fibers for Biomaterials
	Dr. Noryawati Mulyono > Atma Jaya Catholic University, Indonesia		Prof. Alcides Leao > UNESP-College of Agricultural Sciences, Brazil

06.10 pm End of first conference day

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.



[PROGRAM] [DETAILS]

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

LEIGHT-WEIGHT AND STRUCTURAL PRODUCTS

10.30 am Foamed wood, a novel light weight bio-based material

DIO-Dased material

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

10.55 am Temporary constructions made with steel structure and recycled PVC-Coffee husk composite profiles

Fabián Velandia > Woodpecker SAS, Colombia

11.20 am Component analysis of a fully implemented sectional WPC-beam with the tribologic value as sliding rail utilized in an over-

head conveying system

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

11.45 am Endless thread reinforcement using viscose (rayon) in biobased matrix materials

Manuela Reinhardt > TU Chemnitz, Germany

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

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 · Tainer Strasse 7 · 70734 Fellbach/Germany · Tel.: +49 711 575610 · www.schwabenlandhalle.de

Conference Fee Registration fee until 10 May 2014: Regular fee € 920.- · Special rate for subscribers of *Kunststoffe*

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Speaker/Poster exhibitor € 250.- (All prices plus German VAT)

Benefits The conference fee includes proceedings (download area), lunch, all refreshments during the conference and

potential advised events. You will receive your name plate at the registration desk. Hereby the name plate

is classified as authorization to call upon the mentioned benefits.

Registration/ Cancellation Your registration is binding once a written confirmation is issued. This also applies to the participation in announced tours. With your signature, our terms and conditions are accepted. Participants with billing address

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Cancellation of your registration must be in writing and, up to two weeks prior to the start of the event, is subject to a processing fee of € 75.– plus the statutory VAT. Individuals whose cancellation is postmarked after the deadline are required to pay the full registration fee. It is, of course, also possible for a colleague to use your registration if you cannot attend personally. Should the conference be canceled, the registration fee will be reimbursed in full. We will inform you immediately and transfer the paid fee back to your account. However, Hanser will not be liable for any other expenses incurred, such as travel, hotel, or others. The program is subject to changes.

Exhibition There will be a supplemental exhibition. Are you interested in becoming an exhibitor? Contact us!

Tel.: +49 89 99830-466 or tagungen@hanser.de

Accomodation Transfer and overnight-stay are not included in the conference fee. A limited number of rooms at a reduced price is available

for participants. Please book your accomodation yourself (reference: "Hanser Verlag").

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