Sixth WPC & NFC Conference
Wood and Natural Fibre Composites
16 – 17 December 2015, Maritim Hotel Cologne, Germany

Conference Journal

This is already the sixth edition of the world’s largest event on Wood-Plastic Composites (WPC), which attracts people from every sector of the industry.

Market opportunities through intersectoral innovation in Wood and Natural Fibre Composites

- The international two-day programme, taking place in English
- The world’s most comprehensive WPC exhibition
- Vote for „The Wood and Natural Fibre Composite Award 2015“
- Gala dinner and other excellent networking opportunities

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Wood and Natural Fibre Composite Award 2015

Aqvacomp Oy & Flaxwood Oy (FI)
HIB TRIM PART SOLUTIONS GmbH (DE)
Bcomp Ltd. (CH)
Millvision BV (NL)
Onora BV (NL)
Plasthill Oy (FI)
Sixth WPC & NFC Conference

Introduction

We are looking forward to welcome you to the world’s largest Conference on Wood and Natural Fibre Composites!

WPC and NFC markets continue to grow, as well as in established markets of construction and automotive as in a new market of consumer goods with totally new market players bringing opportunities to new applications. More and more companies specifically use wood and natural fibre plastic granulates in consumer goods like watchcases, toys, combs or trays – the unique look and feel give the impression of a high-value product and are well received by customers. This trend is proven by our nominees for the “Wood and Natural Fibre Composites Award 2015”.

The conference will provide an up-to-date picture of different technologies, promising applications and especially the WPC and NFC granulate markets and its current trends. For the first time, different providers of granulates with bio-based plastics, such as PLA, will be present offering fully bio-based composites.

The conference is sponsored by Beologic nv (BE), Corbion-Purac BV (NL) and Plasthill Oy (FI) and the “Wood and Natural Fibre Composites Award 2015” is sponsored by Coperion GmbH (DE). We would like to thank all our sponsors for the excellent cooperation.

250 participants from all over the world as well as more than 20 exhibitors are expected, confirming our position as the lead conference of this field. The highlight will be the “Wood and Natural Fibre Composites Award 2015”. The Innovation Award highlights new materials and products that entered the market in 2015 or are just about to be launched. You as audience are welcome to elect the three winners from six nominees at the afternoon of the first day of the conference. The winner will be awarded in the first evening of the conference during the gala dinner.

A range of topics that address the whole scope of biocomposites: Markets for WPC and NFC, WPC in construction, sustainability and recycling, new material development, WPC and NFC in automotive applications, WPC & NFC granulates for injection moulding, extrusion and 3D printing for consumer goods and automotive. These topics will be presented by top speakers from the industry and research.

We wish you a conference full of encouragement, new contacts and ideas for new business opportunities. Enjoy our conference!

Michael Carus, managing director of nova-Institute

Dr. Asta Eder, project leader of the conference and the nova conference team
Programme | 1st Day | 16 Dec. 2015

MARKETS FOR WPC
10:00 nova-Institut GmbH
Dr. Asta Eder
Status and Future Markets for Bio-based Composites in Europe until 2020
11:00 Kompetenzzentrum Holz GmbH (Wood K plus)
Dr. Andreas Haider
Comparison of Commercial European WPC Deckings
10:30 Verband der Deutschen Holzwerkstoffindustrie e.V. (VHI)
Dr. Peter Sauerwein
Situation on the German WPC Market
11:30 Innovationsberatung Holz & Fasern
Dr. Hans Korte
Technical Development of WPC in Germany and Europe

WPC IN CONSTRUCTION
12:00 WPCC (Wood-Plastic Composite Council of China)
Dr. Wayne Song
Interior Wall and Ceiling System of WPC in China
12:30 Lunch Break
13:30 Fraunhofer-Institute for Wood Research (WKI)
Dr. Arne Schirp
Development of Flame-retarded Wood-Plastic Composites (WPC)
14:00 Kompetenzzentrum Holz GmbH (Wood K plus)
Jürgen Leßlhumer
SmartComposite® – A new Composite Generation
Co-author: Jorge Santos (Greenfiber Tech)

SUSTAINABILITY AND RECYCLING
14:30 Thünen Institute of Wood Research
Philipp F. Sommerhuber
Cascading use Potentials of post-consumer Resources for Wood-Plastic Composites
16:00 Fiber Composites, LLC ("Fiberon")
Peter Kotiadis
Closing the Loop: Innovative Recycling Strategies used by leading Building Product Manufacturers
15:00 Coffee Break
15:30 SKZ – Das Kunststoff-Zentrum e.V.
Oliver Stübs
First Environmental Product Declaration for WPC Products

AWARD SESSION
16:30 STAEDTLER Mars GmbH & Co. KG
Andreas Thies
WOPEX – WPC for Pencils and even more
16:50 Coperion GmbH
Peter von Hoffmann
Twin Screws in Wood Plastics Composites
17:00–18:00
Aqvacomp Oy and Flaxwood Oy
Markku Nikkilä
Cellulose Fibre Reinforced Polystyrene for Music Instruments
Bcomp Ltd
Dr. Christian Fischer
Flax Grid Fabric for Reinforcement of Thin-Walled Light Weight Composite Parts

20:00 GALA DINNER & AWARDED CEREMONY
Programme | 2nd Day | 17 Dec. 2015

NEW MATERIAL DEVELOPMENT

09:00 University of Natural Resources and Life Sciences
Eva Sykacek
WPCs based on Engineering Polymers

09:30 U.S. Department of Agriculture, Forest Service
Dr. Nicole M. Stark
Effect of Esterification Reactions with Lignin on the Performance of Lignin/HDPE Composites.

10:00 University of Hamburg
Sylvia Diestel
A Novel Wood-Plastic-Composite based on Thermoplastic Polyurethane

10:30 Coffee Break

WPC AND NFC IN AUTOMOTIVE APPLICATIONS

11:00 nova-Institut GmbH
Michael Carus
Bio-Composites in Automotive Applications – Markets and Environment

11:30 Yanfeng Europe Automotive Interior Systems Limited & Co. KG
Dr. Werner Klusmeier
Natural Fiber Reinforced Components for Vehicle Interior: Status and Next Development

12:00 Corbion Purac BV
François de Bie
Röchling Automotive SE & Co. KG
Francesca Brunori
High Heat PLA 100% Biobased Natural Fiber filled Compounds

12:30 Toyota Boshoku Europe N.V.
Tayfun Buzkan, Motoki Maekawa
Sustainable lightweight Material in Automotive Industry: simultaneous back Injection Moulding of Natural Fiber Composites

13:00 Lunch Break

14:00 Hochschule Bremen (City University of Applied Sciences)
Prof. Dr.-Ing. Jörg Müßig
Natural Fibre-reinforced Polymers – a Sustainable Material for Lightweight Constructions?

WPC & NFC GRANULATES FOR INJECTION MOULDING, EXTRUSION AND 3D PRINTING FOR CONSUMER GOODS AND AUTOMOTIVE

14:30 Hochschule Bremen (City University of Applied Sciences)
Katharina Haag
Direct Extrusion and Injection Moulding of Bast Fibre Pellets without Compounding – Influencing Factors along the Process Chain from Fibre to Composite

Co-authors:
Uwe Schnabel (HIB Trim Part Solutions)
Bernd Frank (BaVe Badische Naturfaser Veredelung)

15:00 FKRo Kunststoff GmbH
Carmen Michels
Design with no Limits: Fibres meet Bio-based Plastics!

14:00 Hochschule Bremen (City University of Applied Sciences)
Prof. Dr.-Ing. Jörg Müßig
Natural Fibre-reinforced Polymers – a Sustainable Material for Lightweight Constructions?

15:30 Coffee Break

15:00 FKRo Kunststoff GmbH
Carmen Michels
Design with no Limits: Fibres meet Bio-based Plastics!

16:00 Beologic N.V.
Marc Thometschek
Long time Experience with customized Beologic Granulates for Injection Moulding and Extrusion

16:30 Tecnaro GmbH
Lena Scholz
ARBOFORM®, ARBOFILL® and ARBOBLEND® – Applications and Processing of Bio-Composites

17:00 PolyOne Global Engineered Materials Ltd.
Marc Mézailles
Sustainable Lightweighting Thermoplastic Solutions for Automotives

15:00 FKRo Kunststoff GmbH
Carmen Michels
Design with no Limits: Fibres meet Bio-based Plastics!

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15:30 Coffee Break

CHAIRMAN
Hochschule Bremen (City University of Applied Sciences)
Prof. Dr.-Ing. Jörg Müßig

CHAIRWOMAN
nova-Institut GmbH
Dr. Asta Eder

CHAIRWOMAN
nova-Institut GmbH
Dr. Asta Eder
Wood and Natural Fibre Composite Award 2015

Six companies are nominated for the „Wood and Natural Fibre Composite Award 2015“: The Composite Award highlights products that entered the market in 2015 or are just about to be launched.

Producers and inventors of innovative, new applications for WPC and NFC were invited to hand in their applications to the “Wood and Natural Fibre Composite Award 2015”. Each of the nominated companies will give a short 10-minute presentation on its new material and product on the first day of the conference. Following the presentations, the audience will elect the three winners.

1. **Aqvacomp Oy and Flaxwood Oy**
   **Jari Haarpanen: Cellulose Fibre reinforced Polystyrene for Music Instruments**
   Easily tailored wood, the composites have the potential to replace the use of a number of rare and threatened species. Several recipes have been developed for different musical instruments with different property profiles, for example is a composite replacing granadilla in a clarinet. The components have excellent thermal and humidity resistance, reducing the typical tuning problems of wooden instruments.

2. **Bcomp Ltd**
   **Dr. Christian Fischer: Flax Grid Fabric for Reinforcement of Thin-walled Lightweight Composite Parts**
   The novel natural fibre composite solution for automotive interior components has a higher price-performance-ratio than composites currently on the market due to its powerRibs technology (patented). The flax grid fabric can be combined with all types of structural materials, such as carbon fibre composites, glass fibre composites or non-woven natural fibre composites.

3. **HIB TRIM PART SOLUTIONS GmbH**
   **Uwe Schnabel: Nature 50 – Long Fiber for Injection Moulding with a Cold-Press Methods**
   These long fibre pellets with more than 50% hemp fibre content, polypropylene and additives are produced with pellet technology. They can be used for injection moulded parts with standard machines and standard tools as a substitution of PC/ABS with 20% glass fibre content. Their fibre structure gives them a unique look and makes them suitable for use outside the automotive industry.
4. **Millvision BV**

**Leon Joore: Biocomposite with Agro Rest Fibers**

The flower pots made from agro rest fibres and bio-based plastics are price competitive and can be used pots for tree nurseries and raising flowers. They are are cold soil biodegradable (within several months) when placed in the ground. This new pot acts as fertilizer, improves plant growth and prevents plastic waste from oil based containers.

5. **ONORA BV**

**Marieke Havermans: Bio-based Coffin in Injection Moulding Technology**

The environmental impact of this fibre-enhanced bio-based plastic is significantly lower than the impact of conventional coffins. The product is injection moulded which allows for more freedom of design and a variety of shape and colour. The bio-based compound makes the coffin biodegradable and is an example for new large-volume applications of biocomposites.

6. **Plasthill Oy**

**Laura Kaasinen: Kareline Natural Fibre Composite and Stainless Steel**

The handle of the new KUPILKA® Knife is made from Kareline® Natural Fibre Composite which gives it a good grip and a smooth-to-the-touch surface, thus ensuring safe handling of the knife. The blade is made from high quality stainless steel. The magnetic locking mechanism of the knife is unique due to its folding two-piece handle that protects the blade.

The winner will be awarded in the first evening of the conference during the gala dinner.
Booth No. 1 & 2: nova-Institut GmbH – As an independent research institute uses and creates expert knowledge along with innovative solutions to develop and advance the use of Renewable Raw Material (RRM) in Green Chemistry, Industrial biotechnology and Bio-based Products.

Booth No. 3: PALLMANN Maschinenfabrik GmbH & Co. KG – The Pallmann Group is one of the world leaders for the production of machines and systems for the size reduction and preparation of plastics and wood.

Booth No. 4: J. Rettenmaier & Söhne GmbH + Co. KG – JRS balances nature and plastics and has been a fixture for fibrous materials in the plastics industry for decades.

Booth No. 5: Hans Weber Maschinenfabrik GmbH – WEBER takes the statement “Made in Germany” a step further and manufactures its extruders and their components (except electronics) in the Upper Franconian city of Kronach.

Booth No. 6: HF MIXING GROUP – All of the significant innovations for the rubber processing industry, such as the invention of the Banbury® Mixer, the development of intermeshing rotor systems with fixed and variable rotor centers (VIC™) and tandem technology, are originated within the companies of HF Mixing Group.

Booth No. 7: J.H. Ziegler GmbH is one of the world’s most pioneering nonwoven manufacturers. Reliable industrial processes and new material combinations are continually increasing the range of uses for technical nonwovens.

Booth No. 8: VTT Technical Research Centre of Finland Ltd is the leading research and technology company in the Nordic countries.
Booth No. 9: Kompetenzzentrum Holz GmbH – WOOD K plus from Austria is the R&D service provider for the wood working-, chemical- and polymer industry, as well as working for other companies on sustainable and ecological solutions based on wood and natural fibres, respectively.

Booth No. 10: WPC Plattform Austria – The primary intention of the WPC Plattform Austria is to make the density of know-how institutions in the area of WPC in Austria internationally visible and develop this issue further.

Booth No. 11: Wöhler Brush Tech GmbH – Based on more than 50 years of experience in the brush industry, Wöhler machines and brushes have been successfully operating in the field of surface structuring and wood grain processing over the last 20 years.

Booth No. 12: Corbion-Purac is the global market leader in lactic acid, lactic acid derivatives and lactides, and a leading company in emulsifiers, functional enzyme blends, minerals and vitamins.

Booth No. 13: EuroTec GmbH – Over its 16-year history, EuroTec GmbH has already become a permanent fixture in the fastening technology sector.

Booth No. 14: Wood and Natural Fibre Composite Award 2015 – please see page 6

Booth No. 15: Harold Scholz & Co. GmbH – As company Harold Scholz & Co. GmbH originated the mere trading of colour pigments – particularly natural and synthetic iron oxides – thus the company offers today a wide range of special products beyond the pigments, which are manufactured in its own production plants.

Booth No. 16: ENTEX Rust & Mitschke GmbH/NOVO-TECH GmbH & Co. KG – ENTEX Rust & Mitschke GmbH – More than 40 years ago the planetary roller extruder system started to conquer the world market and since the eighties, ENTEX has developed and perfected this process. NOVO-TECH GmbH & Co. KG sets itself apart by its expertise which combines the state-of-the-art technology and an innovative product strategy of the Brand megawood®, as the biggest European producer of WPC-decking.

Booth No. 20: AD Majoris – We are more than 7 years especially active in the field of innovative compounds with natural fibres and bio-based polymers and have now a very wide range of products under the trade name “Maj’Eco”.

Booth No. 21: W&R Plastics B.V. – As leader in distribution, W&R Plastics B.V. have specialized in their master batches and set a high standard for product knowledge and friendly efficient service.

Booth No. 22: Fraunhofer WKI & Fraunhofer UMSICHT – Mission of Fraunhofer WKI is the generation and subsequent application of knowledge in the development of new materials and technologies focused on renewable resources and sustainability, improving the quality and safety of products, and increasing the competitiveness of related industries. The know-how of Fraunhofer UMSICHT covers technical innovations in the fields of environmental, material, process and energy technology.

Booth No. 23: Beologic/HakaGerodur – Beologic is one of the leading European suppliers of standard sized, tailor-made, top quality WPC Compounds. The HakaGerodur (CH) manufacture plastic products at three sites in Switzerland and Germany for the areas of heating & sanitary, piping systems, profiles, geothermal systems and medical technology.

Booth No. 24: Gala Kunststoff- und Kautschukmaschinen GmbH – since 1959 the company Gala works for the plastics industry, specializes in underwater pelletizing and centrifugal drying.
Bio-based polymers: Will the positive growth trend continue?

Bio-based polymers: Worldwide production capacity will triple from 5.7 million tonnes in 2014 to nearly 17 million tonnes in 2020. The data show a 10% growth rate from 2012 to 2013 and even 11% from 2013 to 2014. However, growth rate is expected to decrease in 2015. Consequence of the low oil price?

The new third edition of the well-known 500 page-market study and trend reports on “Bio-based Building Blocks and Polymers in the World – Capacities, Production and Applications: Status Quo and Trends Towards 2020” is available by now. It includes consistent data from the year 2012 to the latest data of 2014 and the recently published data from European Bioplastics, the association representing the interests of Europe’s bioplastics industry. Bio-based drop-in PET and the new polymer PHA show the fastest rates of market growth. Europe looses considerable shares in total production to Asia. The bio-based polymer turnover was about €11 billion worldwide in 2014 compared to €10 billion in 2013.

http://bio-based.eu/markets

The nova-Institute carried out this study in collaboration with renowned international experts from the field of bio-based building blocks and polymers. The study investigates every kind of bio-based polymer and, for the second time, several major building blocks produced around the world.

What makes this report unique?

- The 500 page-market study contains over 200 tables and figures, 96 company profiles and 11 exclusive trend reports written by international experts.
- These market data on bio-based building blocks and polymers are the main source of the European Bioplastics market data.
- In addition to market data, the report offers a complete and in-depth overview of the bio-based economy, from policy to standards & norms, from brand strategies to environmental assessment and many more.
- A comprehensive short version (24 pages) is available for free at http://bio-based.eu/markets

To whom is the report addressed?

- The whole polymer value chain: agro-industry, feedstock suppliers, chemical industry (petro-based and bio-based), global consumer industries and brands owners
- Investors
- Associations and decision makers

Content of the full report

This 500 page-report presents the findings of nova-Institute’s market study, which is made up of three parts: “market data”, “trend reports” and “company profiles” and contains over 200 tables and figures.

The “market data” section presents market data about total production capacities and the main application fields for selected bio-based polymers worldwide (status quo in 2011, 2013 and 2014, trends and investments towards 2020). This part not only covers bio-based polymers, but also investigates the current bio-based building block platforms.

The “trend reports” section contains a total of eleven independent articles by leading experts in the field of bio-based polymers. These trend reports cover in detail every important trend in the worldwide bio-based building block and polymer market.

The final “company profiles” section includes 96 company profiles with specific data including locations, bio-based building blocks and polymers, feedstocks and production capacities (actual data for 2011, 2013 and 2014 and forecasts for 2020). The profiles also encompass basic information on the companies (joint ventures, partnerships, technology and bio-based products). A company index by bio-based building blocks and polymers, with list of acronyms, follows.

Order the full report

The full report can be ordered for 3,000 € plus VAT and the short version of the report can be downloaded for free at: www.bio-based.eu/markets

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The nova-Institute carried out this study in collaboration with renowned international experts from the field of bio-based building blocks and polymers. The study investigates every kind of bio-based polymer and, for the second time, several major building blocks produced around the world.
Wood and Natural Fibre Composite Award Sponsor

Coperion GmbH

About Coperion
Coperion is the international market and technology leader in compounding systems, feeding technology, bulk materials handling systems and services. Coperion designs, develops, manufactures and maintains systems, machines and components for the plastics, chemicals, pharmaceuticals, food and minerals industries. Within its four divisions – Compounding & Extrusion, Equipment & Systems, Materials Handling and Service – Coperion has 2,500 employees and nearly 40 sales and service companies worldwide.

Compounding & Extrusion
The Compounding & Extrusion division manufactures and sells Coperion’s leading compounding and extrusion systems. It focuses on the polyolefin industry as well as on engineering plastics like wood composites, long fiber technology and bio-based plastics and special applications like PVC, temperature and shear sensitive plastics, powder coating, toner, general chemicals, reaction technology.

ZSK and STS twin screw extruders
The co-rotating twin screw extruders from Coperion are the world’s most frequently used extrusion and compounding systems for the production of plastics. Whether laboratory extruders, high-performance compounding systems or total solutions from the raw material feeding to the entire downstream equipment, by individual adaptation to our customers’ applications we guarantee maximum throughput rates with greatest possible economy and highest quality for our extruders and compounding plants.

ZSK and STS – three letters suffice as the embodiment of modern processing technology for WPC wood plastic composites. Coperion’s twin screw extruders have proven themselves successfully in the market for the production of WPC wood plastic composites for many years. As a long-standing partner to the wood fiber industry, Coperion is well-known for its extensive process and system know-how with which every process step of the compounding plants is adapted individually to the application: from filling and reinforcement to devolatilization.

Coperion implements solutions for the production of WPC wood plastic composites which are tailor made for your individual application – from the laboratory twin screw extruder to the industrial production plant in modular design.

Typical applications for the processing of wood plastic composite:
- Filling and reinforcement with 40–70 % wood
- Filling and reinforcement with natural fibers such as flax, hemp, cellulose
- Compounding for injection molding applications
- Compounding in inline injection molding
- Compounding in the inline press process
- Profile extrusion with WPC profiles
International Conference of the European Industrial Hemp Association (EIHA)

1–2 June 2016
Rheinforum, Wesseling/near Cologne (Germany)

Conference language: English

++ Cultivation ++ Processing ++ Economy ++ Sustainability ++ Innovation ++

Don’t miss the biggest industrial hemp event in 2016 worldwide – 250 participants from 35 countries expected!

Applications
• Fibres & Shives
• Bio-Composites
• Insulation
• Construction
• Textiles
• Hemp Seeds, Oil and Proteins
• Pharmaceuticals (CBD)

Spectrum of Participants
• Natural Fibre Industry
• Hemp Food and Feed Industry
• Cultivation Consultants
• Engineers
• Traders and Investors
• Research and Development

Call for Papers
You are welcome to present your latest products, technologies or developments. Please bear in mind that all participants are experts and specialists within this field. We are primarily interested in new and sophisticated topics concerning hemp, natural fibres, technologies and their applications. The time for presentations will be 20 minutes plus 10 minutes for discussion. Please send your proposal to

Mr. Dominik Vogt.

Venue
Rheinforum
Kölner Strasse 42
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(near Cologne)

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Bronze Sponsors

Beologic

About biologic
Since founding in 2000 as a strictly technologically focused company, Beologic is solely orientated in Wood Plastic Polymers. Over the years, due to development and our service-focused policy, Beologic faced a significant growth, together with our customers.

Today, we find ourselves as market, but much more as technology leader in supplying advanced WPC compounds. Beologic has now a capacity of 20,000 metric tons a year with the chance to increase the output dramatically in the forthcoming years. 70% of our WPC production is PVC based. The rest splits between PP, PE & others.

Our main aim is to supply standard sized, top quality WPC Compounds. We also supply tailor-made material solutions for our partners. Since 2009 Beologic offers an extensive customer support supplying know-how in R&D, tooing, processing, product development and tool refurbishment.

Corbion

About Corbion
Corbion is the global market leader in lactic acid, lactic acid derivatives and lactides, and a leading company in emulsifiers, functional enzyme blends, minerals and vitamins. The company delivers high performance biobased products made from renewable resources and applied in global markets such as bakery, meat, pharmaceuticals and medical devices, home and personal care, packaging, automotive, coatings and coating resins. For the plastics industry, Corbion offers lactides and PLA resins for general purpose and high performance bioplastics. PLA (Poly Lactic Acid) is a biobased plastic with a low carbon footprint and is used in packaging, disposables, fibers, electronics and automotive markets. Additionally, Corbion is developing 100% biobased FDCA for high performance PEF (Polyethylene Furanoate) resin. PEF can, for example, be used for bottle and film applications due to its excellent barrier properties. Corbion operates 11 production plants, in the USA, the Netherlands, Spain, Brazil and Thailand, and markets its products through a worldwide network of sales offices and distributors.

In 2014, Corbion generated annual sales of € 770.1 million and had a workforce of 1,893 employees. Corbion is listed on NYSE Euronext Amsterdam.

Plasthill Oy / Kareline

About Plasthill/Kareline
Plasthill Ltd began its operation in the fall of 1996, deep in the forests of Pyytivaara, Eastern Finland. From the very beginning, one of the key values in the business has been openness with regard to the adoption of new procedures and materials. “In principle, nothing is impossible …” is the long-standing premise of the company’s customer-oriented approach. For Plasthill, the ideal product can be achieved by the right material choice combined with an aesthetically pleasing and functional product design and ecological production.

One look at the facilities and surroundings of Plasthill can tell you a great deal about the company’s aim to work in unity with nature. As a manufacturer of injection moulded products, the company has a distinct opportunity to affect not only the choice to favour recycled materials, but also the introduction of new biomaterials that represent sustainable development. In this way, Plasthill can act as both a promoter and pioneer of environmental values. Both the injection moulded products and Kareline® materials are manufactured using EKOenergy.
Partners

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Get in contact with our editorial team! Send your press release to news@bio-based.eu

Michael Carus +++ Linda Engel +++ Barbara Dommermuth +++ Marion Kupfer
**HIGHLIGHTS OF THE WORLDWIDE BIOECONOMY:**

- **POLICY AND MARKETS**
- **BIO-BASED BUILDING BLOCKS AND POLYMERS**
- **BIOREFINERIES AND INDUSTRIAL BIOTECHNOLOGY**

This conference aims to provide international major players from the bio-based building blocks, polymers and industrial biotechnology industries with an opportunity to present and discuss their latest developments and strategies. Representatives of political bodies and associations will also have their say alongside leading companies. The 9th International Conference on Bio-based Materials builds on successful previous conferences. 300 participants and 30 exhibitors mainly from industry are expected!