



www.biowerkstoff-kongress.de

5. Biowerkstoff-Kongress 2012

5th International Congress 2012 on Bio-based Plastics and Composites & Industrial Biotechnology

14. – 15. März 2012, Maternushaus, Köln, Deutschland / March 14th – 15th 2012, Maternushaus, Cologne, Germany

Kongress-Journal / Congress-Journal



Pictures: MAS, Gala, Daimler AG, nova-Institute,
Blocher, Blocher & Partner

Fokus auf Produzenten aus
Skandinavien, Italien und
Deutschland

Focus on producers from
Scandinavia, Italy and
Germany

Veranstalter /
Organiser



www.nova-institute.eu

Innovationspreis-Sponsor /
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www.coperion.com

Kongress-Sponsor /
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www.proganic.de

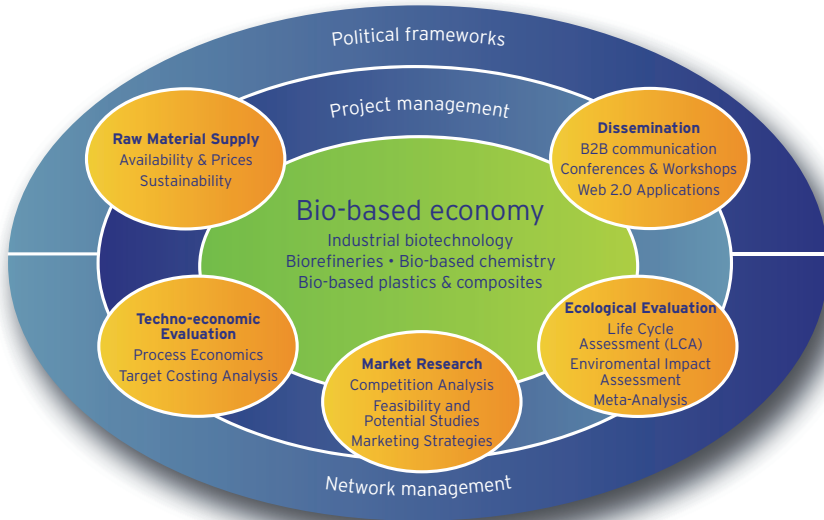


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Kongressvorträge:

Die freigegebenen Vorträge werden ca. drei Wochen nach dem Kongress zum Download zur Verfügung stehen.

Congress Presentations:

All released presentations will be available for download approx. three weeks after the congress.



Innovationspreis / Innovation Award

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Programm, 1. Tag / Programme, 1th Day

Opening

10:00



nova-Institut
Michael Carus

Politik und Umwelt /

Politics and Environment

10:15



Lead Market Initiative for Bio-based Products

Dr. Achim Boenke

Standardisierungsaktivitäten und Verfügbarkeit von Biomasse

Standardisation activities and availability of biomass

10:45



LMC International

Dr. Amandeep Kaur Sandhu

Perspektiven der landwirtschaftlichen Rohstoffversorgung, Nachfrage, Preis und Beziehung zu Rohöl

The outlook for agricultural feedstocks-supply, demand, price& relationship to crude oil

11:15



nova-Institut

Michael Carus

Bioerkekstoffe: Märkte und Umwelt

Bio-based Plastics and Composites: Markets & Environment

Skandinavien /Scandinavia

11:45



Novozymes

Thomas Grotkjær

Herstellung von Bausteinen für Biokunststoffe mittels Biotechnologie

Production of building blocks for bio-based plastics through biotechnology

12:15

Mittagspause / Lunch break

PRESSE KONFERENZ im Kongresssaal / PRESS CONFERENCE in the congress hall

13:30



Innventia

Per Tomani

Carbonfasern und Aromate aus Lignin kurz- und langfristige Kommerzialisierungsmöglichkeiten

Carbon fibres and aromatic from lignin short and long term commercialization opportunities

14:00



Södra

Sverker Albertsson

Pulpefaserverstärkung von PLA - MouldPulp

Pulp fibre reinforcement of PLA - MouldPulp

14:30



VTT

Kirsi Immonen

Neueste Entwicklungen von Biokunststoffen und Bio-Verbundwerkstoffen bei VTT

Latest developments for bio-based plastics and Composites at VTT

15:00



Borregaard

Majvi Brandbu

Borregaards Bioraffinerie-konzept

Borregard's Biorefinery Concept

15:30

Kaffeepause / Coffee break

16:00



Coperion

Miriam Walddörfer & Frank Mack

Compoundieren von Biowerkstoffen

Compounding of bio materials



16:20

-

18:00

Präsentationen der 5 Nominierten und Wahl der Innovationspreis-Gewinner / Presentation of the 5 nominated and election of the Innovation Award winner

Hiendl (Deutschland / Germany)

Hiendl NFC

Referent / Speaker: Helmut Hiendl

Carrying system „Choices“

Livemold (Deutschland / Germany)

Naturegran PV 6930

Referent / Speaker: Martin Vollet

spielstabil bioline

Naporo (Deutschland / Germany)

NAPORO „NATglue“-Technologie

Referent / Speaker: Robert Schwemmer

NAPOROpreg

Resopal (Deutschland / Germany)

Re-Y-Stone

Referent / Speaker: Tanja Schaefer

Bio-based composite plate Re-Y-Stone

Södra Cell (Schweden / Sweden)

DuraPulp

Referent / Speaker: Malin Andersson

DuraPulp Lamp w101

20:00

Abendbuffet und Verleihung des Innovationspreises / Dinner Buffet and Innovation Award

Programm, 2. Tag / Programme, 2nd Day

Deutschland I / Germany I

9:00



Tecnaro + SKZ

Dr. Lars Ziegler & Stéphanie Baumann



Entwicklungen der Tecnaro GmbH und bio-basierte thermoplastische Vulkanisate
Developments of the Tecnaro GmbH and bio-based thermoplastic vulcanizates

9:30



Proganic

Oliver Schmid

Proganic-Fasern für textile Anwendungen

Proganic fibres for textile applications

10:00



Hochschule Bremen

Prof. Dr. Jörg Müssig

Natur- und Regeneratcellulosefaserverstärkte Kunststoffe

Natural & regenerated cellulose fibre-reinforced plastics

10:30



Bayer Material Science

Dr. Gesa Behnken

Nachwachsende Rohstoffe bei Bayer MaterialScience

Renewable Resources at Bayer MaterialScience

11:00

Kaffeepause / Coffee break

Italien / Italy

11:30



API

Carlo Brunetti

Individuelle Lösungen aus Biokunststoff

Bio-Plastic „made-to-measure“ solutions for individual applications

12:00



Novamont

Stefano Facco

Novamont's neueste Entwicklungen im Bereich bio-basierter Kunststoffe

Novamont's latest developments on bio-based plastics

12:30



GreenGran

Martin Snijder

PHB Granulate und Compounds von TGBM - bio-basierte und biologisch abbaubare Materialien für Folien-, Schaum-, Faser-, und Spritzgussanwendungen

PHB resin and compounds from TGBM - bio-based and biodegradable materials for films-, foil-, foam-, fibre- and injection moulding applications

13:00

Mittagspause / Lunch Break

Deutschland II / Germany II

14:00



Evonik

Dr. Benjamin Brehmer

Entwicklungen im Bereich
Naturfaserverstärkung und
Additivierung von (Bio-)
Kunststoffen

*Developments in natural fibre
reinforcement and additives
for (bio)-plastics*

14:30



Henkel

Olaf Mündelein

Macromelt - Neue Bio-
Additive für die Kunststoffver-
arbeitung

*Macromelt - New Bio-
Additives for plastics
processing*

15:00



nova-institut

Roland Essel

Positive Ergebnisse bei erster
Meta-LCA zu PLA und PHA

*Positive outcome of first PLA
and PHA Meta-LCA*

15:30



InfraLeuna

Dr. Ekkehard Küstermann

Perspektiven: Biotechno-
logie und Nachwachsende
Rohstoffe am Chemiestandort
Leuna

*Perspectives: Biotechnology
and renewable resources at
the Leuna Chemical Site*

16:00

Freies Netzwerken mit Imbiss /

17:00

Free networking with snack

Innovationspreis / Innovation Award

Biowerkstoff des Jahres 2012: Nominierte Firmen und Produkte

Das spannende Rennen hat ein Ende: Die Jury aus Sponsoren (Coperion), Experten und Partnern des Biowerkstoff-Kongresses hat aus den zahlreichen Einreichungen sechs Biowerkstoffe für den „Biowerkstoff des Jahres 2012“ nominiert. Am ersten Tag des Biowerkstoff-Kongresses (14. März, Maternushaus in Köln) werden sich die Nominierten dem Publikum präsentieren und zur Wahl stellen. Die Sieger werden noch am selben Abend bekannt gegeben, die Preisverleihung findet vor der Abendveranstaltung statt.



Bio-based Plastics and Composites 2012: Nominated companies and products

The exciting race is over: The jury of sponsors (Coperion), experts and partners of the International Congress on bio-based Plastics and Composites have nominated from among the many applications the six bio-based materials as „Biomaterial of the year 2012“. On the first day of the Congress (March 14th, Maternushaus in Cologne), the nominees will be presented to the participants and for election. The winners will be announced on the same evening, the ceremony will be held before the evening event.

H. Hiendl (Deutschland / Germany)

Referent / Speaker: Helmut Hiendl

Biowerkstoff: Hiendl NFC®, WPC aus 70% Holzfasern und 30% PP

Bio-basiertes Produkt: Flächentragsystem Choices

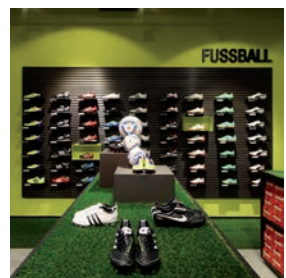
Biomaterial: Hiendl NFC®, WPC with 70% wood fibres and 30% PP

Bio-based product: Carrying system Choices

Das Flächentragsystem Choices wird aus Hiendl NFC®, einem Naturfaser-Verbundwerkstoff aus der eigenen Forschung und Entwicklung gefertigt. Im Vergleich zu Holz überzeugt der Werkstoff durch seine Formbarkeit. Als Flächentragsystem vereint Choices die horizontale und vertikale Nutzung des Systems mit Vorteilen hinsichtlich Raumarchitektur, Merchandising und Nachhaltigkeit.

The carrying system Choices is made of Hiendl NFC®, a natural fibre composite coming from proprietary research and development. In comparison to wood, the material convinces through its mouldability. As a carrying system Choices unites the horizontal and vertical use of the system with advantages in the sense of room architecture, merchandising and sustainability.

www.hiendl.de



Pictures: Blocher, Blocher & Partner

Innovationspreis / Innovation Award

Martin Fuchs Spielwaren - Livemold - Linotech (Deutschland / Germany)

Referent / Speaker: Martin Vollet

Biowerkstoff: Naturegran PV 6930, modifiziertes PLA

Bio-basiertes Produkt: Spielwaren „spielstabil bioline“

Biomaterial: Naturegran PV 6930, modified PLA

Bio-based product: children's toys „spielstabil bioline“

Basis für die neue Spielwarensérie der Firma Martin Fuchs Spielwaren ist das neu entwickelte PLA Compound Naturegran PV 6930, das zu 68% aus nachwachsenden Rohstoffen besteht. Das Spielzeug weist eine sehr hohe Materialfestigkeit bei hoher Schlagzähigkeit auf.

The newly developed PLA Compound Naturegran PV 6930, which stems to 68% from renewable resources, serves as a basis for the new toy series from the company Martin Fuchs Spielwaren. The toys have a very high material strength at high impact strength.

www.linotech.de



NAPORO (Deutschland / Germany)

Referent / Speaker: Robert Schwemmer

Biowerkstoff: NAPOROPrepreg aus Rohrkolben-Schilf

Bio-basiertes Produkt: Faserformteile

Biomaterial: NAPOROPrepreg made from Typha

Bio-based product: Fibre Mouldings

Die Firma Naparo nutzt Rohrkolben-Schilf um daraus Faserformteile von geringer Dichte für unterschiedliche Anwendungen herzustellen. Die Bindung erfolgt über die NAPORO „NATglue“-Technologie: Wachse und Öle der Sumpfpflanze werden als Bindemittel aktiviert.

The company Naparo uses bulrush to make fibre mouldings of a low density for several applications. The binding process works through the NAPORO NATglue-Technology: Waxes and oils of the marsh plant are being activated as binding agent.

www.naporo.com



Resopal (Deutschland / Germany)

Referent / Speaker: Tanja Schaefer

Biowerkstoff: Recyclingpapiere mit Bagasse-Harz

Bio-basiertes Produkt: RE-Y-Stone

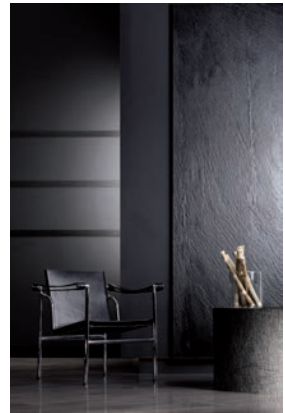
Biomaterial: recycled paper with bagasse

Bio-based product: RE-Y-Stone

Recycelte Kern- und Dekorpapiere werden für „RE-Y-STONE“ mit einem natürlichen Harz aus Abfällen der Zuckerproduktion (Bagasse) gebunden. Das Bioharz besitzt nach dem Aushärten duroplastische Eigenschaften und bildet mit den Papieren eine harte, mechanisch hoch belastbare, dimensionsstabile Platte mit widerstandsfähiger Oberfläche.

Recycled paper from core and surface are bound with a natural resin from residues of sugar production (bagasse) for „RE-Y-STONE“. After curing the bioresin has thermoplastic properties and together with the papers forms a hard, mechanically highly loadable, dimensionally stable sheet with a robust surface.

www.resopal.de



Södra (Schweden / Sweden)

Referent / Speaker: Malin Andersson

Biowerkstoff: DuraPulp, PLA and Cellulose

Bio-basiertes Produkt: Lamp w101

Biomaterial: DuraPulp, PLA and cellulose

Bio-based Product: Lamp w101

DuraPulp ist ein neuer biologisch abbaubarer, erneuerbarer Verbundwerkstoff aus Zellulose und einem erneuerbaren mais-basierten Biopolymer, PLA (Polymilchsäure). Das neue Produkt ist eine biologisch abbaubare DuraPulp Lampe, bekannt als die w101. Sie wurde für die schwedische Leuchtenfirma Wästberg entwickelt und in enger Zusammenarbeit mit CKR gestaltet.

DuraPulp is a new biodegradable, renewable composite made from cellulose and a renewable corn-based biopolymer, PLA (polylactic acid).

The new product is a biodegradable DuraPulp lamp, known as the w101. It was developed for the Swedish lighting company Wästberg and was designed in close collaboration with CKR.

www.sodra.com





Integrated system solutions – unique process engineering know-how – global presence. In Coperion, formerly Werner & Pfleiderer, you have a partner on hand to provide the optimum solution to every compounding task. This ranges from special applications on laboratory scale to industrial-scale production extruders. As pioneers in the development of the closely intermeshing, co-rotating twin screw extruder, we have unique expertise and experience in this field. Since the 1950s, Coperion has continued to set new standards in processing machinery and plant design for compounding technology. We plan and implement compounding systems for the plastics, chemicals and food industries which are designed precisely to our customers' applications. Over 10,000 compounding systems delivered all over the world are proof of our unique system and process competence.



Twin screw extruder ZSK Mc18 with specific torque of 18 Nm/cm³

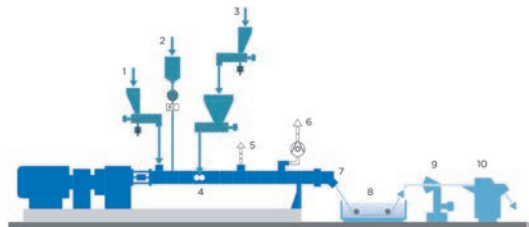
Processing of biobased and biodegradable products. Processing of biobased and biodegradable products makes very high demands on the compounding process because of the variety of possible base polymers and the great differences in the formulation mixtures. Every process step in a processing plant must be adapted exactly to the desired mechanical properties of the end product.

We have built up a comprehensive know-how for the processing of biobased and biodegradable products. Our specialists benefit from our years of experience in the fields of cooking extrusion and plastic compounding which we gathered under our former name Werner & Pfleiderer.

Our twin screw extruders are the heart of the processing plants. The modular structure of the process section enables individual configuration to every application so that optimal product qualities are achieved. Apart from the extruder, we also provide the entire plant periphery from the raw material feeding to pelletizing and drying of the pellets. Alternatively, it is possible to produce biobased and biodegradable products by direct extrusion.



Compounding plant for the production of WPC wood plastic composites



1 Starch / powder premix | 2 Plasticizer / liquid additives | 3 Polymer pellets | 4 Twin screw side-feeder ZS-B | 5 Atmospheric degassing | 6 Vacuum degassing | 7 Die head | 8 Water bath | 9 Airknife | 10 Strand pelletizer

Typical plant structure for the production of biobased and biodegradable products

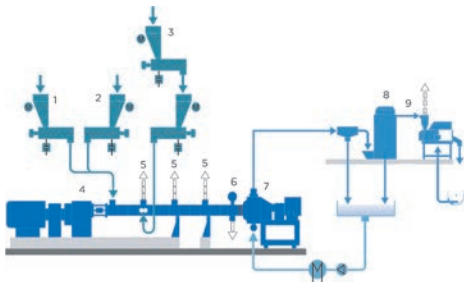
Typical applications for the processing of biodegradable products

- Starch-based loose fill
- Thermoplastic starch
- Polylactide (PLA), PVOH, synthetic copolyester, PBS, PHA, PCL, CA
- Compounds of immiscible polymers / biomaterials
- Pelletizing of PLA, polymerization of PLA

Processing of WPC wood plastic composites. Our twin screw extruders have proven themselves successfully on 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 every process step of the compounding plants adapted individually to the application: from filling and reinforcement to devolatilization. Coperion implements solutions for the production of WPC wood plastic composites which are custom designed 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 composites

- Filling and reinforcement with 40-70 % wood
- Filling and reinforcement with natural fibers such as flax, hemp, cellulose
- Compounding for injection molding applications
- Profile extrusion with WPC profiles



1 Polymer feeder | 2 Additive feeder | 3 Wood fiber feeder | 4 Twin screw extruder ZSK | 5 Degassing | 6 Start-up valve | 7 Pelletizing unit | 8 Dewatering | 9 Pellet drying

Typical plant structure for the production of WPC

Contact

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www.coperion.com



Material

PROGANIC® is made from 100% renewable raw materials and minerals. It is just as durable as plastic but is organic and can be reintroduced into the earth's natural cycle by composting. Choose PROGANIC® wherever you see the PROGANIC® seal of approval for a responsible attitude towards your earth and the environment.

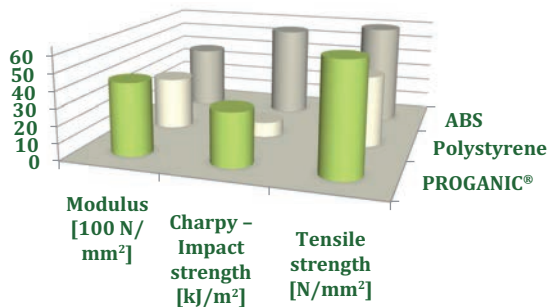
Composition

- PHA (Polyhydroxyalkanoates) – We use the biopolymer PHA, which is made by bacteria. PHA has the same qualities of plastic, but it uses renewable raw materials such as sugar from crops, instead of finite natural resources such as crude oil, natural gas and charcoal.
- PLA (Polylactic acid) – PLA is also produced from renewable raw materials such as sugar from crops.
- PLANT WAX – We use the hardest known natural wax derived from the Carnauba palm leaves. It is harmless to health and fragrance free.
- MINERAL – We use a natural mineral as filler (bulking agent), which has water repellent and sealing properties.
- COLORS – We supply an-organic color pigments to all PROGANIC® customers.



PROGANIC® in comparison to commonly used plastics

PROGANIC® has the same hardwearing and versatile characteristics as conventional plastics. It is an ideal substitute for commonly used plastics. PROGANIC® can be used for all types of consumer articles predestined to come in contact with food and beverages. It is suitable for all types of articles for daily use such as flowerpots, watering cans, containers, trays, as well as for all disposables and food packaging.



Award In 2010 PROGANIC® was awarded the bio material of the year 2010 by the renowned nova-Institute.



Customers Since 2010 brands such as PROPPER, RIVAL and DORAPLAST produce household and gardening products made from PROGANIC®. The range varies from watering cans, flowerpots, adhesive hooks to brushes and kitchen tools. PROGANIC® products are available in stores in Germany as well as major retailers internationally.

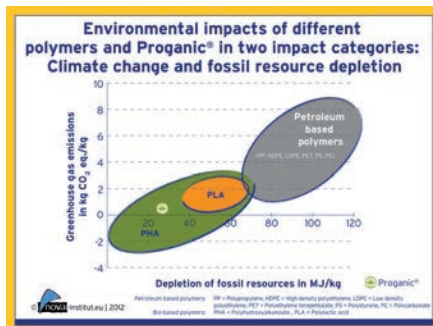
PROGANIC® is a strong brand with a clear marketing strategy. Therefore, we support our manufacturers with



complete advertising packages and communication measures for their point of sale.

PROGANIC® – PRO EARTH

The figure above shows the results of a meta-analysis of life cycle assessments for bio-based polymers in the production of Proganic®. The ellipse on the upper right, which contains data with a use of fossil resources of more than 70 megajoules per kilogram plastics and greenhouse gas emissions of partly clearly more than three kilograms CO₂ equivalents per kilogram plastics, correlates to petrochemical plastics. The other two ellipses illustrate the results of the bio-based plastics PLA and PHA/PHB, the data of which for the use of fossil resources are lower than 70 megajoules per kilogram plastics. At the same time the greenhouse gas emissions of bio-based plastics amount to clearly less than three kilograms CO₂ equivalents per kilogram plastics. Calculating the greenhouse potential of Proganic® yielded an amount of 0.5 kilograms CO₂ equivalents per kilogram of that bio-based material. The use of fossil resources was calculated at 27 megajoule per kilogram Proganic®. That means: If the production of PLA and PHA/PHB, in comparison to the production of petrochemical plastics, leads to lower greenhouse gas emissions and lower use of fossil resources, this is to be expected for Proganic® itself. In the figure above, one can see the respective values marked with the company logo.



Advantages

- Made from 100% renewable raw materials and minerals
- Saving CO₂ emissions and conserving the earth's natural resources
- Fully biodegradable formula
- Food safe
- Water resistant and repellent
- Weather resistant to the sun's UV rays
- Extremely hard wearing and resilient

PROGANIC® and the Future

Our vision is to replace conventional plastic with PROGANIC® as much as possible. We invite other plastic manufacturers to join us and become a PROGANIC® manufacturer. PROGANIC® is 100% natural; our quality seal confirms this on every product. PROGANIC® is our contribution to a sustainable way of life and the preservation of the earth's natural balance.

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Partner & Medienpartner/Partner & Media Partner

Partner



www.arbeit-umwelt.de



www.avk-tv.org



www.iar-pole.com



www.kunststoffland-nrw.de



www.nnfc.co.uk



www.vhi.de



www.netcomposites.org

Medienpartner



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www.euwid.de



www.plastonline.org



www.plastech.biz



www.plasticker.de



www.nachhaltigwirtschaften.net



www.materialsgate.de



www.goingpublic.de



Bio-based News

www.bio-based.eu/news

The portal for bio-based economy, bio-based plastics & composites and industrial biotechnology

Get a comprehensive overview about recent developments in the field of biomaterials and industrial biotechnology: fast – exclusive – solid – relevant

- online portal with daily news articles
- weekly newsletter
- supplier & stakeholder directory (more than 2,000 entries)
- data base with more than 10,000 news
- full text and index search

Your unique source of expert information on bio-based plastics & composites, industrial biotechnology, biorefineries and green chemistry

- new investments
- new product placements
- market data
- policy framework
- Research & Development



One year subscription for only: **495 € plus 19% VAT.**
The search engine as well as all keywords are fully available in English and German. The news articles themselves are 60% in English and 40% in German.



Pictures (top to bottom): Bein, Polyone, Staedler, Propipe, Bolex, Fujitsu, Wierzahl



Naturfaserpellets

für Spritzguss und Extrusion

Ort:

Maternushaus Köln,
Kardinal-Frings-Straße 1-3
50668 Köln
Tel: +49 (0) 221 - 1631 - 0

Programm:

Das aktuelle Programm finden Sie hier:
www.bio-based.eu/faserpellets

Teilnahmegebühr:

50.- Euro

Für die Veranstaltung werden bis zu 100 Teilnehmer erwartet, die sich einen Tag lang dem Thema „Nutzung von Naturfasern als Verstärkung von (Bio-) Kunststoffen in Spritzguss und Extrusion“ widmen. Im Mittelpunkt steht eine neue Generation von Naturfaserpellets, die das Ergebnis eines von der Deutschen Bundesstiftung Umwelt geförderten Projektes ist. Dabei konnten in iterativen Entwicklungsschritten industriegerechte und bedarfsorientierte Naturfaserpellets hergestellt werden. Die Projektakteure stellen ihre Ergebnisse in Vorträgen vor. Handverlesene externe Experten runden das fachliche Spektrum mit ihren Beiträgen ab.



SusPack 2012

conference on sustainable packaging



March 29th – 30th 2012

www.suspack.eu

For the second time at the Anuga FoodTec, the conference

„Sustainable Packaging - SusPack 2012“ is taking place from March 29th - 30th 2012.

At the two-day conference current issues and solutions for sustainability in the (food) packaging industry will be presented and discussed. The focus is on bio-based packaging: Where and in what form have they been able to establish? What benefits do they bring? What has to be considered in the use? And finally, what innovations, trends and potentials are becoming evident?

Programme

First day

Political framework for sustainability and packaging

10:00 nova-Institut | Michael Carus

Overview over market and resource supply of bio-based packaging

10:30 Organic Waste Systems | Bruno de Wilde

End of Life Scenarios: The future of recycling and composting in the EU

11:00 SCA Packaging | Volker Quaas

Extending shelf life with Active Packaging

11:30 Lunch

Market overview foodpackaging from bioplastics

13:00 FKuR | Julian Schmeling

Engineered Sustainability - Bioplastics for advanced Applications

13:30 Huhtamaki | Régis Garoutte

New Films Solution for Biodegradable Products

14:00 Roquette | Léon Mentink

14:30 Coffee Break

15:30 Innovia | Holger Eschenburg

16:00 Braskem | Rodrigo Belloli (requested)

SusPack Award

16:30 SusPack Award: Nominated companies present their Innovations & Election by audience

18:15 SusPack Award: The winners

18:30 Coming together

Second day

Political framework for sustainability and packaging II

9:30 narocon, board member of European Bioplastics | Dr. Harald Kaeb

New trends in bio-packaging

10:00 FPE - Flexible Packaging - Europe | Graham Houlder

THE PERFECT FIT – Flexible solutions for a more sustainable packaging industry

10:30 N. N.

11:00 Coffee Break

Market overview foodpackaging from bioplastics II

12:00 Novamont | Elisabetta Fanesi

12:30 Purac | François de Bie

13:00 Taghleef Industries | Frank Ernst

NATIVIA™, bio-based BoPLA film for packaging and labelling applications

13:30 Coming together

Topics

- Recent developments in biopackaging
- Ecological assessments of food packaging
- Current political discussions regarding sustainability and packaging
- New material options including bioplastics and other biomaterials
- Successful sustainable packaging concepts

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SusPack 2012

conference on sustainable packaging



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Do you have any questions concerning SusPack 2012? We are happy to help you!



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SusPack Award

During this common event with Anuga FoodTec, for the first time nova-Institut GmbH will offer the „SusPack Award“ for the most innovative and sustainable packaging solution which have had a market launch in 2011/2012. Nominated companies and products will be released soon. After pre-selection by a participants jury the winner to be elected by the first conference day and awarded during the evening reception. The election of the winner will be performed by the participants of the Congress at March 29th, 2012 in Cologne, Germany.

About Anuga FoodTec

The international trade fair for food and drink technology

In 2012 more than ever, the Anuga FoodTec will become a compulsory event for experts who do not want to miss out on the packaging trends of the future. From March 27th to 30th, 2012, everything will revolve around the subject of innovations.

Anuga FoodTec 2012 builds upon the success of the Anuga FoodTec 2009 (1210 exhibitors, 34,000 visitors).

At that time, visited among others, nine of the ten world's largest food companies, Anuga FoodTec. Just six months before the event the result of the last fair rent has been surpassed. Now there is an additional hall available to meet the additional space needs of the exhibitors. Be there when the food industry's most important companies worldwide gather in Cologne. Why not order your registration documents today? <http://www.anugafoodtec.de>

Venue

Congress-Centrum Nord Koelnmesse Rheinsaal

Deutz-Mülheimer-Straße 111
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9th International Conference of the European Industrial Hemp Association (EIHA)

www.eiha-conference.org

May 23th–24th 2012

Rheinforum, Wesseling/near Cologne (Germany)

Conference language: English

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



Pictures: Hempro Int., Lotus Cars, Hemp Technology Ltd, NPSP Composites

Don't miss the biggest industrial hemp event in 2012 – world wide!

The congress will focus on the latest developments concerning hemp and other natural fibres as well as hemp nuts, oil and proteins.

Applications

- Fibres & shives
- Bio-Composites
- Insulation
- Construction
- Textiles
- Hemp nuts, oil and proteins

Spectrum of participants

- Natural fibre industry
- Hemp food and feed industry
- Cultivation consultants
- Engineers
- Traders and investors
- Research and Development

Exhibition

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Programme

1st day (May 23rd): 10:00 a.m. - 06:00 p.m.

Session: Country reports

Chairman: Michael Carus (nova-Institut GmbH, Germany)

- 10:00 John Hobson (Hemp Technology Ltd., Great Britain):** European Industrial Hemp Association (EIHA) - status and outlook
- 10:30 Fabrizio Giamberini (The Latin America Hemp Trading, Uruguay):** Developments on hemp in South America and especially in Uruguay
- 11:00 Bernd Frank (Badische Naturfaseraufbereitung GmbH (BaFa), Germany):** Cooperation with Planet Chanvre
- 11:30 Emilie Snauwaert (Inagro vzw, Belgium):** Opportunities of hemp production and tranfo rmation in Belgium - analysis of challenges and bottlenecks by pilot activities
- 12:00 Sylvestre Bertucelli (Interchanvre, France):** French administration
- 12:30-13:30 Lunch break**

Session: Science & Policy

Chairman: John Hobson (Hemp Technology Ltd., Great Britain)

- 14:00 Michael Carus (nova-Institut GmbH, Germany):** Hemp and CAP reform
- 14:30 Dr. Hans-Jörg Gusovius (Leibniz Institute for Agricultural Engineering Potsdam-Bornim, Germany):** Renewable raw materials from agriculture – to produce or to save energy?

Session: Hemp building

Chairman: John Hobson (Hemp Technology Ltd., Great Britain)

- 15:00 Denis Sommain (VICAT SA, France):** Hemp Concrete based natural cement - The VICAT know-how
- 15:30 Coffee break**

Session: Hemp seeds and oil for food and body care

Chairman: N. N.

- 16:00 Daniel Kruse (Hempro International GmbH & Co. KG, Germany):** New data on hemp food market
- 16:30 Gero Leson (drbrunner, USA):** Building a Sustainable and Fair Supply Chain for natural soaps - with Hemp and other renewable resources
- 17:00 Patrick Collins (Azabu University, Japan):** Industrial Hemp-Seed „Okayu“ as an anti-aging dietary addition, and other progress in Japan Hemp as medicine

Session: Hemp as medicine

Chairman: N. N.

- 17:30 Franjo Grotenhermen (nova-Institut GmbH, Germany):** Markets for medical hemp (requested)
- 19:30 Dinner Buffet**



Get the programme online:

Organiser nova-Institute GmbH



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2nd day (May 24th): 09:00 a.m. - 03:00 p.m.

Session: Fibre applications

Chairman: Gero Leson (Dr. Bronner, USA)

- 09:00 Michael Carus (nova-Institut GmbH, Germany):** Hemp fibre pellets for injection moulding
- 09:30 Stefanie Powell (Kunsthochschule Berlin Weißensee, Germany):** Needle-pinch carpets made of hemp fibres
- 10:00 Coffee break**
- 10:30 Martien van den Oever (Wageningen UR - FBR, Niederlande):** Ultrafibre project - plasma and ultra sonic treatment of flax and hemp fibres
- 11:00 Alessio Montarolo (CNR ISMAC Institute for the Study of Macromolecules, Italy):** Hemp fibers surface treatments for the development of biocomposites and composites reinforcing agents
- 11:30 Mark Reinders (HempFlax BV, The Netherlands):** Results of the project: Non-food Crops-to-Industry schemes in EU27
- 12:00 Lunch break**

Session: Shives applications

Chairman: François Desanlis

- 13:00 Francois Boutroux (AGROFIBRE SAS - Groupe EURALIS, France):** Shives applications
- 13:30 Ján Vrtielka & Roman Réh (Technical University Zvolen, Slovak Republic):** Hemp shives for fractional utilization in particleboard

Session: Hemp textiles

Chairman: François Desanlis

- 14:00 Daniel Kruse (Hempro Int, Germany):** Hemp as textile
- 14:30 David Piller (Canada):** Sustainable Living Roadshow - an overview of the Hemp Hut's history

Registration Fee www.eiha-conference.org
400 € plus 19 % VAT for two days including dinner buffet
Members of EIHA: 100 € reduction of membership fee in 2013

Hotel¹⁾ "Hotel am Rhein",
Auf dem Rheinberg 2,
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Venue¹⁾ Rheinform, Kölner Strasse 42,
50389 Wesseling / Germany
(near Cologne)

¹⁾ **Venue & hotel information:** The venue of the conference – the Rheinform – has a capacity of 200 participants and space for a lot of booths. The venue is next to the "Hotel am Rhein", where we have reserved 55 rooms. You can make your arrangements as soon as possible – please use the keyword **nova**. If you will book your hotel later, there is the risk that you have to choose a hotel 10 or 15 minutes away from the venue.

Fünfter Deutscher WPC-Kongress 10.–11. Dezember 2013

Fifth German WPC Congress
December, 10th – 11th 2013

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Pictures: Evonik, Polymertechnik, Rotho, Möller.

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