

## ***Bioplastics: (Reactive) Compounding and Related Industrial Applications***

Technical conference **May 25<sup>th</sup> 2011**  
Best Western Horizon Hotel, Ghislenghien, **Belgium**

The second technical conference dedicated to “**Bioplastics: (reactive) Compounding and related applications**” will take place on May 25<sup>th</sup>, 2011 at Best Western Horizon Hotel in Ghislenghien, Belgium, ideally located between Lille (France) and Brussels (Belgium).

Compounding and processing technologies are currently helping narrowing the gap between bio-based plastics and commodity polymers. Some commercially available bio-based plastics, polymer additives and fillers are now well established as technical alternatives to commodity polymer materials. However, plastics processors and their customers may encounter some hurdles for apprehending the main trends of the bio-based plastic industry.

The event will provide a comprehensive overview of bio-based polymers, from fundamentals to compounds, (nano)composites, additives, and related industrial applications. Particularly, it will provide opportunities to get familiar with some of the most relevant researches currently carried out at **University of Mons** and **Materia Nova** (Belgium). Besides, environmental benefits together with market perspectives will also be addressed.

The conference will aim at underlining the best ways to manufacture bio-based plastic components, with the right additives into cost-effective production.

The main issues that will be considered are the cost, the availability, the environmental aspects and the technical solutions to process the additives going into the compounds. Concerning the machinery, **KraussMaffei Berstorff GmbH** extruder manufacturer will present the scope of their main products.

The main plastic markets will be addressed showing how bio-based plastics meet their specific requirements e.g. physical strength and impact properties in packaging and automotive to fire and weathering resistance in electronic, leisure, sport applications, etc.

In order to help selecting appropriate compounds, the life cycle analysis (LCA) and the carbon footprint of products will be considered while explaining in detail the international certification for bio-based content measurement.

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## **CONFERENCE PROGRAM:**

### **CONFERENCE CONTACT: Vincent Berthé**

Materia Nova - materials research centre  
ZI de Ghislenghien  
rue des Foudriers, 1  
B-7822 GHISLENGHIEN, BELGIUM  
[Vincent.Berthe@materianova.be](mailto:Vincent.Berthe@materianova.be)  
Tel. +32 68 27 47 74, Fax +32 68 27 47 79  
[www.materianova.be](http://www.materianova.be)

### **GOOD REASONS TO ATTEND**

1. Review the potential of bio-based plastics in your business through successful application examples
2. Learn about the wide range of properties available through compounding bio-based plastics
3. Educational programming on current industry issues and second generation bio-based plastics
4. Numerous networking opportunities (business and research professionals)
5. Exhibition of the latest equipment and service offerings in twin-screw extrusion

### **CONFERENCE VENUE**

Easy to access, the Best Western Horizon Hotel, Ghislenghien (Belgium), is located on Brussels-Lille main highway, only a 30 min drive away from Lille (France) and Bruxelles (Belgium). [See directions.](#)

### **ACCOMMODATION**

Delegates are responsible for booking their own hotel accommodation. Materia Nova has negotiated a room rate of 95-105€ for single and twin bedrooms at the Best Western Horizon Hotel, Ghislenghien (Belgium). To book a room please contact the hotel direct and state that you are attending Materia Nova conference for the special room rate. Rooms are limited and will be held on a first-come, first-served basis. The hotel rate is guaranteed for a limited number of rooms so do not delay in making your reservation for a room at the conference location.

Tel: +32 (0)68 445 111

Avenue des Artisans, 1, 7822 Ghislenghien, Belgium.

*8h15 Welcome coffee and registration*

8h50 **Welcome and introduction** Luc Langer, MATERIANOVA

9h00 **Overview:** *“Biobased plastic overview – the drivers, technology status, processing and performance”* Philippe Dubois, MONS UNIVERSITY

09h50 **High tech applications:** *“Bioplastics engineered for high tech applications”* Christoph Lohr, FKUR

10h15 **Innovative bio-composites:** *“Innovative glass fibre based bio-composites with controlled properties during ageing”* Laurent Ferry, ECOLE DES MINES D’ALES

*10h40 – 11h05 Coffee break*

11h05 **Building applications:** *“Biobased composite epoxy resin / flax fibre to replace traditional components in windows profiles”* Michel Maugenet, INNOBAT

11h30 **Standardization:** *“Determining biobased carbon content of materials using C14 method”* Petra Michiels, AIB VINCOTTE

11h55 **Packaging applications:** *“Enhancing biopolymer performance with Sukano masterbatches and compounds”* Daniel Ganz, SUKANO

*12h20 – 13h50 Lunch*

13h50 **Industrial semi-finished products:** *“ECO-GEHR bioplastic applications and obstacles in new markets”* Thomas Stintzing, GEHR

14h15 **Reactive extrusion:** *“Developments of polylactides by reactive extrusion”* Julien Cayuela, MATERIANOVA

*14h40 – 15h05 Coffee break*

15h05 **New production technology and application fields:** *“From renewable materials to commercial PLA”* Eric Maziers, FUTERRO

15h30 **Production and processing:** *“biopolymers and natural fibre reinforced plastics processed with co-rotating twin-screw extruders”* Lars Darnedde, Stephan Mohr, KRAUSSMAFFEI BERSTORFF

15h55 **High performance biocomposites:** *“Development and characterization of biobased flame retardant materials”* Mathilde Casetta, LILLE UNIVERSITY

16h20 **Summary and outlook** Eusebiù Grivei, MATERIANOVA

*16h30 Visit of MateriaNova Materials RD centre*

## ORGANIZED BY MATERIA NOVA

Established by the University of Mons, Belgium, Materia Nova - Materials research and development centre has operated as an autonomous non-profit organisation since 2001. The centre employs 80 multidisciplinary, highly qualified researchers, most of them with a PhD, as well as engineers and technicians specialised in polymer engineering, organic chemistry, surface treatments, biomaterials and white biotechnology.

Specialised in the field of polymer extrusion and reactive interface modifications, Materia Nova - Material R&D Centre plays the bridging role between fundamental research and industrial development. In addition to performing confidential R&D contractual projects, Materia Nova uses its skills to collaborate with universities and EU public organizations, fulfilling their mission by accelerating the emergence of advanced materials technology while targeting industrial applications.

Materia Nova also provides scaling-up and compounding services dedicated to start-ups, SME's and large chemical companies that wish to test new synthesis paths, innovative blends or composites before launching production of those new products.

To find out more about capabilities visit our web site at: <http://www.materianova.be>

## DATE AND LOCATION :

May 25<sup>th</sup>, 2011  
 The Best Western Horizon Hotel, Ghislenghien (Belgium)  
 Avenue des Artisans, 1, 7822 Ghislenghien, Belgium.  
 Tel: +32 (0)68 445 111

## REGISTRATION FEE

The registration fee includes all sessions, conference proceedings, reception, lunch and break refreshments and seminar documents.

Registration fees	150 €
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## SPONSORSHIP

**“Bioplastics: (reactive) Compounding and related applications”** also represents highly targeted opportunities to promote your products and services to an international audience. Different sponsorship opportunities are possible. For further information please contact the conference contact **Vincent Berthé** either by email or phone at [Vincent.Berthe@materianova.be](mailto:Vincent.Berthe@materianova.be) or at +32 68 27 47 74.

## EXHIBITION PACKAGE

This package includes an exhibition space in the conference room where we will be hosting the cocktail reception, coffee breaks and lunch, giving exhibitor's maximum exposure. It also includes 1 free registration place. Exhibitors may either use tables provided by the hotel, or bring their own stand or display. Please note that this service is only available to companies registering at least one delegate to attend the conference. To avoid disappointment please register for this service as soon as possible as only a limited number of exhibit spaces are available. For further information, please contact the conference contact **Vincent Berthé** either by email or phone at [Vincent.Berthe@materianova.be](mailto:Vincent.Berthe@materianova.be) or at +32 68 27 47 74.

## LITERATURE DISPLAY

If your company is unable to attend the conference, you can still make your presence felt. Send your brochures to the conference and we will display them for delegates to collect at their leisure. For further information, please contact the conference contact **Vincent Berthé** either by email or phone at [Vincent.Berthe@materianova.be](mailto:Vincent.Berthe@materianova.be) or at +32 68 27 47 74.

Payment shall be done after receiving invoice (no check accepted)  
**To register, please fill in the form and mail or email it at:**

**Materia Nova**  
 Avenue Nicolas Copernic, 1  
 7000 Mons  
 Tel : +32 65 55 49 02  
 Fax : +32 65 55 49 03  
 Mail : news@materianova.be

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Date: Signature:

Refund deadline: cancel of registration shall be transferred one week before the conference.