

# HIGH PERFORMANCE PLASTICS 2011

Second International Conference

**NEW**  
later start time to allow  
for same day arrival

23-24 February  
Cologne  
Germany

*Creating customised  
materials to meet the  
demands of today and  
be ready for the new  
emerging applications  
of tomorrow*

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# HIGH PERFORMANCE PLASTICS 2011



Plastic materials have come a long way in recent years. Today high performance plastics are required to operate in hostile environments characterised by extreme service temperature ranges and contact with harsh chemicals, oils and fluids. Driven largely by the demands of high tech industry, high performance materials are constantly evolving to meet the needs of end-use applications. Whether it's the proliferation of light weight composite materials in the aerospace and automotive industries, or the need for increased UV durability in photovoltaics, the challenge is to create customised materials to meet the demands of today and to be ready for the new emerging applications of tomorrow.

With this in mind, iSmithers' High Performance Plastics conference returns this February covering everything from resins, to blends, speciality fillers, stabilizers, compatibilisers and other modifiers. As well as learning about the materials themselves, this is the ideal opportunity to hear about industry trends, regulations that affect the future and how globalisation can impact your business. It is also a great place to hear about new developments and forge alliances with suppliers and customers alike.

## CONFERENCE LANGUAGE

Please note that the conference will be conducted in English.

## CONFERENCE VENUE

Cologne Marriott Hotel  
Johannstrasse 76-80  
Cologne  
Nordrhein-Westfalen 50668  
Germany  
Tel: +49 221 942220

Cologne, the international trade fair and media city on the Rhine, has a lot to offer, not only for business travellers. From the cathedral and the historic, atmospheric town centre to the numerous museums, galleries and cultural facilities, Cologne has something for everyone. The Cologne Marriott Hotel is located just a few minutes' walk from the Cologne main train station and the world-famous Cologne cathedral.

## ACCOMMODATION

We are holding a number of rooms at The Cologne Marriott Hotel at a specially negotiated rate. Accommodation booking forms will be sent with your joining instructions on receipt of your completed conference registration form.

For further assistance please contact [conferences@ismithers.net](mailto:conferences@ismithers.net).

## EARLY REGISTRATION OFFERS

Register before 14 January 2011 to take advantage of the special Early Bird Discount registration fee.

### Companies sending one or two delegates

€799 + VAT at 19% per delegate before 14 January 2011  
€1099 + VAT at 19% per delegate after 14 January 2011

### Companies sending three or more delegates

€699 + VAT at 19% per delegate before 14 January 2011  
€999 + VAT at 19% per delegate after 14 January 2011

## SPONSORSHIP & EXHIBITION OPPORTUNITIES

A limited number of cost effective sponsorship opportunities are available to maximise your corporate profile at this important event. For further information please contact [conferences@ismithers.net](mailto:conferences@ismithers.net)

**iSmithers** has been organising world class technical conferences for the polymer and related industries for over 30 years. Drawing authorities from industry and academia, conferences offer the ideal forum to hear original, pioneering technical papers and meet and exchange ideas with like-minded peers from across the world. With topics spanning the latest developments in rubber and plastics technology, legislative changes and market trends, iSmithers conferences

continue to attract over 1,200 senior technical executives and decision makers per year.



iPolyCond is a two-year project funded by the Transfer of Innovation strand of the European Commission's Lifelong Learning Programme. It will develop new training materials on conductive plastic materials for the benefit of plastics converters.

By integrating the available state of the art scientific knowledge and experience of the consortium, iPolyCond will develop, write and test industry-specific training materials and resources on these breakthrough materials.

To find out more and to see how you can benefit from the iPolyCond training resources, register at [www.ipolycond.org](http://www.ipolycond.org).



## Wednesday 23<sup>rd</sup> February 2011

10.00 COFFEE AND REGISTRATION

10.55 Welcome and Introduction to High Performance Plastics 2011

### SESSION 1:

#### Keynote Session: Perspectives from Industry

11.00 Addressing the high performance composite needs of an aircraft manufacturer  
*Dr Jean-Florent Lamethe, AIRBUS Operations SAS, France*

11.35 Requirements of high performance plastics as proppants for oil and gas hydraulic fracturing  
*Dr D V Satya Gupta, H D Brannon & C Stephenson, Baker Hughes IBJ Services Company, USA*

### SESSION 2:

#### Novel Developments in Plastic Materials

12.10 Material selection: using long term design data to prevent failure  
*Dr Andrew Hulme, Smithers Rapra Technology Limited, UK*

12.45 LUNCH

14.00 Not all PEEKs are created equal!  
*Dr Tim Bremner, Teresa Martinez & Barton Scarborough, Hoerbiger Corporation of America, Inc, USA*

14.35 Taking the heat  
*Uwe Kannengießer, Evonik Degussa GmbH, Germany*

15.10 Bridging the gap in the composites market  
*Andreas Kolf, Propex Fabrics GmbH, Germany*

15.45 COFFEE

16.15 Workshop Discussion: Plastics materials, modification and more

- Plastics cost and performance - finding the right balance
- Modification of plastic materials with fillers, impact modifiers and stabilizers
- Myths about plastics - uncovering the truth about testing and properties
- Open discussion - your questions, experiences and needs
- Making contacts - help you to find the right supplier, customer or development partner

*Facilitated by Dr Chris DeArmitt, Phantom Plastics, USA*

17.30 END OF DAY ONE

18.30 EVENING SOCIAL EVENT

## Thursday 24<sup>th</sup> February 2011

08.30 COFFEE AND HOTEL CHECK-OUT

### SESSION 3:

#### Modifiers and Modified Plastics

09.00 The many faces of ETFE fluoropolymer  
*Phil Spencer, AGC Chemicals Europe, Ltd, UK*

09.35 Property modification using the filler hexagonal boron nitride  
*Jon Leist, Momentive Performance Materials, Inc, USA*

10.10 High performance polymer with innovative micronized and submicronized mineral  
*Michael Klinar, Kärntner Montanindustrie GmbH, Austria*

10.45 Improved carbon-based thermally conductive additive for polymers  
*Dr Raffaele Gilardi, D Bonacchi, J-C Rietsch, C Van Bellingen, Timcal Ltd, Switzerland*

11.20 COFFEE

11.50 Electrically conductive nanocomposites developed in EU research projects  
*Dr Daniel Vlasveld, ProMolding BV, The Netherlands*

12.25 New chemically coupled poly (amide-imide) + PTFE compounds and their use in high precision bearings  
*Dr Matthias Edelmann, Dr Dieter Lehmann & Dipl - Ing Herbert Niedermeier, Leibniz Institute of Polymer Research Dresden, Germany*

13.00 LUNCH

### SESSION 4:

#### Applications and Case Studies of High Performance Plastics

14.00 Developing a full-polymer aircraft catering trolley from PPSU  
*Rik Knoppers, ProMolding BV, The Netherlands*

14.35 A novel polymeric support material composition for jetting based additive manufacturing (AM) processes  
*Muhammad Fahad, Professor Marianne Gilbert & Professor Phill Dickens, Loughborough University, UK*

15.10 ECO+ solutions in the field of high performance plastics, suitable for various applications in multiple industries  
*Bert Havenith, DSM, The Netherlands*

15.45 COFFEE AND END OF CONFERENCE

1. Full Name ..... Job Title..... Dr/Prof/Mr/Mrs.....
2. Full Name ..... Job Title..... Dr/Prof/Mr/Mrs.....
3. Full Name ..... Job Title..... Dr/Prof/Mr/Mrs.....
4. Full Name ..... Job Title..... Dr/Prof/Mr/Mrs.....

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**Delegate Registration**

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- Wallet Service:**  
€750 + VAT at 19% (Insertion of one pen or brochure, up to 6 A4 pages, in every delegate conference bag)
- Tabletop Exhibition:**  
From €2,000 + VAT at 19% (includes one delegate place)
- Members Discount:**  
Rapra Members are entitled to a further discount off the standard registration fee.

If you have a Promotional Code please enter it here

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Please indicate in which currency you wish to pay. If no box has been ticked the default currency will be \$US.

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**Cancellation Terms** By completing and returning this form delegates are agreeing to be bound by the cancellation terms and conditions of registration. Substitutions can be made at any time, please inform us in writing prior to the conference. If you wish to cancel your registration please do so in writing. A full refund less 20% administration fee will be applicable 28 days before the conference. Cancellations received after this time will be liable for the full registration fee.

**Return to:**  
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