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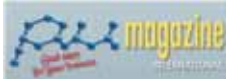
# Blowing Agents and Foaming Processes 2012

Mövenpick Hotel Berlin, Germany  
8-9 May 2012

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# Blowing Agents and Foaming Processes 2012

8-9 May 2012, Mövenpick Hotel Berlin, Germany

iSmithers is pleased to announce the 14<sup>th</sup> International Blowing Agents and Foaming Processes Conference. With oil prices continually increasing, it is time to fight back and take action with foam!

Now in its fourteenth year, this conference has become firmly established in the plastics community as the meeting place for processors, material suppliers, academics and end-users to exchange ideas and keep up-to-date with developments in this fast growing niche of the polymer sector.

Changes in the foam blowing industry have been largely driven by environmental legislation – whether concerns over consumer safety, atmospheric protection or solid waste disposal and recycling. In their primary applications in consumer products, (such as cushioning for furniture and automobiles, thermal insulation for construction and packaging) polymer foams are being continually enhanced to replace dense solid polymers, reducing weight and costs. Indeed, strict energy regulations in most European countries have boosted the use of polymer foams in building and construction, automotive and aerospace sectors where foamed plastics are recognised for their performance and processing advantages as well as the obvious cost and weight savings. Other polymer foams offer functional applications such as sink mark reduction, increased stiffness, insulation properties and a closer natural surface appearance or structure.

This conference is dedicated to the critical role of blowing agents in foamed plastics and rubber and will include, amongst other things, commercial polymeric foams and their applications, their technologies and future industry trends. We look forward to seeing you in Berlin!

This technical briefing has been developed for companies operating in the following sectors or manufacturing the following products:

- Blowing agents
- Gas
- Foam extrusion
- Wood-fibre composite foaming
- Structural foaming companies
- Biofoaming
- PU foam manufacturers
- Chemical blowing agents
- Foam packaging
- TPE foaming
- Thermal and sound insulation
- MuCell™ licensees
- Resin for foam applications
- Foam injection
- Cable foam insulation
- Foaming equipment manufacturing
- PS foam board manufacturers
- Biodegradable polymer resin companies

## Conference Venue

### Mövenpick Hotel Berlin

Schöneberger Strasse 3  
10963 Berlin

Germany

Tel: +49 30 2300 60

Fax: +49 30 2300 6199

Email: [hotel.berlin@moevenpick.com](mailto:hotel.berlin@moevenpick.com)



The surprisingly different Mövenpick Hotel Berlin, located centrally at Potsdamer Platz, is just as individual as Germany's capital city. The unique design of the former Siemens building and perfect service with a personal touch ensure genuine hospitality in a historical setting.

This 4 star plus hotel combines an exceptionally innovative design with a kaleidoscope of colours, shape and materials. The majority of the 243 rooms face the quiet courtyards.

## Accommodation

We are holding a number of rooms at the Mövenpick Hotel Berlin 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 Sharon Garrington, email: [sgarrington@ismithers.net](mailto:sgarrington@ismithers.net).

## Early Registration Offers

Register before **29 February 2012** to take advantage of the special Early Bird Discount registration fee.

### Companies sending one or two delegates

€799 + VAT @ 19% per delegate before 29 February 2012

€1099 + VAT @ 19% per delegate after 29 February 2012

### Companies sending three or more delegates

€699 + VAT @ 19% per delegate before 29 February 2012

€999 + VAT @ 19% per delegate after 29 February 2012

Registration includes a copy of the proceedings, lunches and refreshments during the day. The cost of accommodation is not included in the delegate registration fee.

## Sponsorship & Exhibition

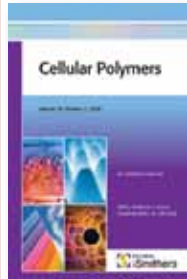
A limited number of cost-effective sponsorship opportunities are available to promote your products and/or services to a highly targeted audience. Starting from as little as €750 for a wallet service this is an ideal opportunity to maximise your company's

profile at one of the industry's leading events. For further information please contact Helen Charlesworth, tel: +44 (0)1939 250383, email: [hcharlesworth@ismithers.net](mailto:hcharlesworth@ismithers.net).



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### Journal of Cellular Polymers



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### About the Organisers

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.

# Conference Agenda

Day One: Tuesday 8 May 2012

Day Two: Wednesday 9 May 2012

08.15 REGISTRATION AND COFFEE

08.45 Welcome and Introduction

## Session 1: Blowing Agents & Foaming Processes 2012

09.00 Forty years formulated endothermics in the foamed plastics world

*Dieter Scholz, Germany*

09.30 Advancements in high performance blowing agents

*Jim M Bowman, Honeywell International, USA*

10.00 Blowing agent blends – the new norm

*John Murphy, Foam Supplies Inc, BMK Corporation, USA*

10.30 COFFEE AND NETWORKING

11.00 Performance update of FEA-1100 – a zero ODP and low GWP foam expansion agent

*Gary Loh, Joseph A Creazzo & Dr Mark L Robin, DuPont Company, USA*

## Session 2: Extrusion Direct Gassing Processes and Applications

11.30 Design of experiments in physical foaming and its relation to developments in foam polyolefins

*John Krist & Emanuel van der Ven, SABIC Technology & Innovation, The Netherlands*

12.00 Twin/single tandem laboratory equipment for basic research in foam extrusion

*Matthias Reimker & Otto Deseke, KraussMaffei Berstorff GmbH, Germany*

12.30 Q & A SESSION

12.45 LUNCH AND NETWORKING

14.00 Foam-extruded high temperature thermoplastics with different nucleating agents for printed circuit boards

*Clemens Keilholz, T Apeldorn, F Wolff-Fabris & V Altstädt, University of Bayreuth, Germany*

14.30 XPS insulation board – new machinery developments

*Nick King, Sunwell Global Ltd, UK*

15.00 Extensional stress-induced foaming behaviours of polystyrene-talc composites

*Anson Wong & Prof Chul B Park, University of Toronto, Canada*

15.30 COFFEE AND NETWORKING

## Session 3: New Aspects, New Foams, Specialities

16.00 Novel polymer foams for sustainable solutions

*Holger Ruckdäschel, Peter Gutmann, Christian Däschlein, Roland Hingmann & Klaus Hahn, BASF SE, Germany*

16.30 Rheological properties of cellulose acetate with respect to its foamability: influence of plasticizer and blowing agent

*Stefan Zepnik<sup>1,2</sup>, T Hildebrand<sup>3</sup>, S Kabasci<sup>1</sup>, H-J Radusch<sup>2</sup>, F van Lück<sup>4</sup>, T Wodke<sup>1</sup>*

<sup>1</sup>Fraunhofer UMSICHT, Germany. <sup>2</sup>Martin Luther University Halle-Wittenberg, Germany. <sup>3</sup>Institute of Plastics Processing (IKV), RWTH Aachen University, Germany. <sup>4</sup>Inde Plastik Betriebsgesellschaft mbH, Germany

17.00 Applications of optimised IR and laser induced foaming

*Rüdiger Wissemborski, Chemische Fabrik Budenheim KG, Germany*

17.30 Q & A SESSION

17.45 DRINKS RECEPTION AND NETWORKING

## Conference Language

Please note that the conference will be conducted in English.

08.00 COFFEE AND HOTEL CHECK-OUT

## Session 3: New Aspects, New Foams, Specialities (continued)

08.30 Innovative low density silicone RT-foams

*Dr Delphine Blanc, Bluestar Silicones, France*

## Session 4: Injection Moulding – New Findings and Efforts

09.00 Dry ice – physical foam injection moulding the easy way

*Daniel Sander & Prof Christian Hopmann, Institute for Plastics Processing (IKV), RWTH Aachen University, Germany*

09.30 Overmoulding of plane structural foamed parts with a second thermoplastic component

*Johannes Müller & V Altstädt, Neue Materialien Bayreuth GmbH, Germany*

10.00 COFFEE AND NETWORKING

10.30 Using mould filling tools for large part, multi-drop parts with the MuCell™ process

*Scott Powers & Levi Kishbaugh Trexel Inc, Wilmington, USA; Uwe Kolshorn & Dr Hartmut Traut, Trexel GmbH, Germany*

11.00 Challenges and possibilities in foaming of semi-crystalline poly(butylene terephthalate)

*Thomas Köppl, B Fischer & V Altstädt, University of Bayreuth, Germany*

11.30 Block copolymer-assisted microcellular supercritical CO<sub>2</sub> foaming of polymers and blends

*Prof Michel Dumon, José Antonio Reglero Ruiz & Eric Cloutet, Université de Bordeaux, France; Javier Pinto Sanz & Miguel Angel Rodriguez Perez, University of Valladolid, Spain; Philippe Viot, Institut de Mécanique et d'Ingénierie de Bordeaux, France*

12.00 Q & A SESSION

12.15 LUNCH AND NETWORKING

## Session 5: Biodegradables and Nanostructures

13.30 Tailored uniform foamability and mechanical properties of injection molded polylactide with high void fraction

*Aboutaleb Ameli, D Jahani, P U Jung & Prof Chul B Park, University of Toronto, Canada*

14.00 Multifunctional nanocomposite foams based on polypropylene with carbon nanofillers

*Dr Marcelo Antunes, Gabriel Gedler, Miguel Mudarra & José Ignacio Velasco, Universitat Politècnica de Catalunya, Spain*

## Session 6: News from Research and Development Activities

14.30 Reinforced particle foams

*Florian Rapp, Dr Axel Kauffmann & Dr Jan Diemert, Fraunhofer Institute for Chemical Technology ICT, Germany*

15.00 COFFEE AND NETWORKING

15.30 Density graded polyethylene foams produced by compression moulding using a chemical blowing agent

*Jiaolian Yao & Denis Rodrigue, Université Laval, Canada*

16.00 Improving XPS insulation boards and new insulation products

*Frank van Lück, AIXtrusion Consulting, Germany*

16.30 High melt strength polypropylene for foaming

*Dr Peng Guo, Prof Mingfu Lv & Prof Dr Shijun Zhang, Beijing Research Institute of Chemical Industry, SINOPEC, China*

17.00 Q & A SESSION

17.15 CLOSE OF PROCEEDINGS

