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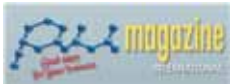
Blowing Agents and Foaming Processes 2012

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 14th 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

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Fax: +49 30 2300 6199

Email: 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.

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.



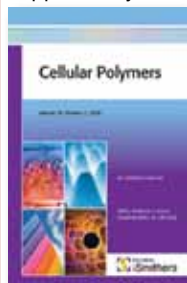
Supported by:

Journal of Cellular Polymers

Edited by Professor V. Kumar
(University of Washington)

This international peer-reviewed journal deals not only with every type of foamed polymer, from elastomeric materials to rigid plastics, but also raw materials, the manufacturing processes and also application technology.

For more information please visit:
www.polymerjournals.com



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^{1,2}, T Hildebrand³, S Kabasci¹, H-J Radusch², F van Lück⁴, T Wodke¹

¹Fraunhofer UMSICHT, Germany. ²Martin Luther University Halle-Wittenberg, Germany. ³Institute of Plastics Processing (IKV), RWTH Aachen University, Germany. ⁴Inde 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 CO₂ 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

