

High Performance Fillers

2007

The Third International Conference
14-15 March 2007, Hamburg, Germany

Technical Programme

Sponsorship & Exhibition,
Early Registration Offers



media sponsors:



organised by:



High Performance Fillers 2007

The Third International Conference
14-15 March 2007, Hamburg, Germany

The Conference

Over recent years there has been an increasing demand for fillers such as fibres, particulates, powders and other matrix reinforcements to provide improved structural properties for plastic composites. While fillers have in many cases been viewed as merely diluents to drive down costs, pressures to improve product quality have brought about a growth in their commercial use as high performance additives. With advances in polymeric nanocomposites, there now exists a radical alternative to conventional-filled polymers and the high performance fillers market is poised for further growth.

Rapra Technology is organising its third international conference on High Performance Fillers taking place in Hamburg from 14-15 March 2007. Building on the success of previous year's events, this conference offers a forum to bring together compounders, moulders, processors, materials specialists, polymer engineers and researchers in polymer science, and end users of polymer materials.

This year's conference features presentations from industry giants such as BASF, GE Advanced Materials, Noveon, Borealis, 3M and Smithers Scientific Services Inc. who will be addressing subjects such as surface treatments, nanocomposites and the latest fillers with functional effects.

This is an excellent opportunity to network with experts in the industry and to keep abreast of all the latest developments.

Early Registration Offers

Register before 14 January 2007 to take advantage of the special Early Bird Discount registration fee.

Registration fee for companies sending one or two delegates

€850 per delegate before 14 January 2007

€1050 per delegate after 14 January 2007

Registration fee for companies sending three or more delegates

€750 per delegate before 14 January 2007

€950 per delegate after 14 January 2007

Registration includes a copy of the proceedings, meals and refreshments during the day.

Register Now

Registration can be carried out in any of the following ways:

- Fax the completed registration details featured on the back page to +44 (0) 1939 252416 or post to Rapra Technology, Shawbury, Shrewsbury, Shropshire SY4 4NR, UK
- Register online through our secure website, www.polymerconferences.com
- Contact the conference department by telephone, Tel: +44 (0) 1939 250383 or email conferences@rapra.net

Please send registration enquiries to Sharon Garrington, Conference Organiser: Email sgarrington@rapra.net
Tel: +44 (0) 1939 250383 / Fax: +44 (0) 1939 252416

Hotel Reservations

Please send reservation enquiries to Sharon Garrington, Conference Organiser, email: conferences@rapra.net. A booking form will be sent with your joining instructions on receipt of your completed registration form.

Conference Location

Germany's second largest city offers a high quality of life and international flair: Hamburg, 1,200 years old, is loved both for its contemporary scene as well as for its cultural offerings. The city's stunning location on the Elbe and Alster Rivers, the colorful activity in the St. Pauli entertainment district, unforgettable musicals, a night at the theatre, Michaelis Church (colloquially "der Michel") or the impressive harbor make a visit to Hamburg a memorable experience.

Tourist information can be found at: <http://www.hamburg-tourism.de>

Conference Venue

Standing tall at 120 metres, the Radison SAS is the highest hotel in Hamburg. Its unique architectural style and height have made it a genuine landmark. The 27 floors of the hotel offer some of the best service in the city and the best views of the city. Located in the heart of Hamburg, next to the botanical gardens and with direct access to the Congress Center Hamburg, the hotel is only a five minute walk to the International fairgrounds, the shopping area at Jungfernstieg, and Alster lake. The Dammtor railway station offers public transport at the doorstep for easy access and the airport is a short 20 minute drive from the hotel. Parking is available next to the hotel.

Sponsorship and Exhibition – Advertise at the conference!

A limited number of high profile cost effective sponsorship opportunities are available to advertise your company at this important event. There will also be a small tabletop exhibition organised to run alongside the conference. To receive further information please contact the conference department, conferences@rapra.net
Tel: +44(0)1939-250383, Fax: +44(0)1939-252416.

- Wallet service costs € 750 to insert a pen or leaflet in delegate packs (up to 6 A4 pages),
- Tabletop exhibition costs €2000 (including one delegate place)
- High profile corporate event sponsorship

Conference Language

Please note that the conference will be conducted in English.

Rapra Technology

Rapra Technology is Europe's leading independent plastics and rubber consultancy. Rapra provides comprehensive consultancy, technology and information services for the polymer industry using plastics and rubber in any component, product or production process. We have been organising meetings for the polymer related industries for over 25 years. These regularly bring together technical presentations from world experts in their given subjects and provide you with the latest developments and advancements in the industry.

Rapra is part of The Smithers Group.

Wednesday 14 March

- 08.30 REGISTRATION AND WELCOME COFFEE
- 09.25 Welcome and Introduction to High Performance Fillers 2007

Session 1. Markets and Trends

- 09.30 The high performance fillers market and the position of precipitated calcium carbonate and silica
Prof Roger Rotheron, Rotheron Consultants, UK
- 10.00 Trends in tyre design and the impact on reinforcing fillers
David Schwarz, Smithers Scientific Services, Inc, USA

Session 2. Filler Interactions and Coupling Agents

- 10.30 Controlling filler polymer interactions
Dr Chris DeArmitt, BASF AG, Germany
- 11.00 COFFEE
- 11.30 Ethanol free mercapto silane coupling agents for high-performance, scorch-free rubber compounding
Edward Sadler, GE Silicones, UK

Session 3. Surface Modification of Fillers

- 12.00 Application specific surface treatments for calcium carbonate type fillers in high performance systems
John Schofield & Pat Sunderland, Noveon Division of Lubrizol, UK
- 12.30 Dispersion analysis and the influence of filler surface coating agents on dispersion
G C Lees, C M Liauw, S Lynch and S L Mills, School of Biology, Chemistry & Health Science, Manchester Metropolitan University, UK
- 13.00 LUNCH

Session 4. Nanofillers

- 14.30 The influence of selective physisorption on the rheology of PP/silica nano-composites
Dr Sachin Jain, Global Polymer Research, BASF, Germany
- 15.00 Low friction polyamide masterbatches via polyhedral oligomeric silsesquioxanes
Joseph D Lichtenhan, Bruce Fu & Paul Wheeler, Hybrid Plastics Inc, USA and Rahul Misra & Sarah E Morgan, Department of Polymer Science, University of Southern Mississippi, USA
- 15.30 COFFEE
- 16.00 Polypropylene based carbon nanotubes composites: structure and properties
Prof Giovanni Camino, Centro di Cultura per l'Ingegneria delle Materie Plastiche, Italy
- 16.30 Enhancing the performance of textile fibres with nano-fillers
Prof P R Hornsby, D C McConnell & A Lew, Queen's University Belfast, Northern Ireland
- 17.00 END OF DAY ONE
- 18.30 EVENING SOCIAL EVENT - to be advised

Thursday 15 March

- 09.00 COFFEE

Session 5. Silicates

- 09.30 Structure and properties of layered silicate pp nanocomposites: expectations and reality
Zita Dominkovics, János Móczó & Béla Pukánszky, Department of Plastics and Rubber Technology, Budapest University of Technology and Economics, Hungary
- 10.00 Interactions in layered silicates: investigation of an alternative modification route and flow micro-calorimetry/FTIR studies
C M Liauw, R Kato, R N Rotheron, N S Allen, G C Lees & A N Wilkinson, Manchester Metropolitan University, UK
- 10.30 Novel high strength glass microspheres for extruded and injection moulded thermoplastics
Karl Hendrikson, 3M Deutschland GmbH, Germany
- 11.00 COFFEE

Session 6. Applications

- 11.30 Filled polypropylene in major appliances
Werner Posch, Borealis AG, Austria
- 12.00 Polymeric effect fillers for water and moisture management
David Normington, Ciba Specialty Chemicals, UK
- 12.30 TBC
Kevin Breese, Electrolux Home Products Italy SpA, Italy
- 13.00 LUNCH
- 14.15 Use of siliceous minerals as process modifiers in polymer production
Julian Danvers, World Minerals, France

Session 7. Conductive Fillers

- 14.45 Electrically conductive polymer blends filled with low melting metal alloys
Prof Dr-Ing, Dr-Ing Eh Walter Michaeli & Dipl-Ing Tobias Pfefferkorn, IKV Institut für Kunststoffverarbeitung, Germany
- 15.15 Mechanical and thermal properties of epoxy polymethyl methacrylate blends synthesised in supercritical carbon dioxide
M G H Zaidi, V P Singh, P L Sah, S Alam & R Singh, G B Pant University of Agriculture & Technology Pantnagar, India

Session 8. Natural Fibre

- 15.45 A preliminary study on the properties of agave cantala natural fibre –polypropylene composites
M Maniruzzaman, S M Hafiz Uddin & M A Gufur, Islamic University, Kushtia, Bangladesh
- 16.15 CLOSE OF CONFERENCE

Please Note: The conference organisers reserve the right to modify or change the above programme.

Registration Form - High Performance Fillers 2007



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

Contact Address

Company

Address.....

Telephone.....

Fax.....

E-mail.....

Invoice Address (if different)

Company

Address.....

Telephone.....

Fax.....

E-mail

Delegate Registration

Companies sending one or two delegates

- €850 before 14 January 2007
- €1050 after 14 January 2007

Companies sending three or more delegates

- €750 before 14 January 2007
- €950 after 14 January 2007

Please note that under new German VAT regulations the responsibility for paying VAT in relation to the delegate registration fee now lies with the delegate and is therefore not collected by Rapra.

Full registration includes lunch and refreshments for both days and a copy of the pre-printed Conference Proceedings.

Wallet Service

- €750 to insert a pen or leaflet in delegate packs (up to 6 A4 pages)

Tabletop Exhibition

- €2000 (including one delegate place).
To receive further information please contact conferences@rapra.net

Sponsorship

- Please send more information on sponsorship

Members Discount

- Rapra members are entitled to a further discount off the delegate registration fee. Please indicate here if you are a member.

Payment Information

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

- € Euro £ Sterling (This will be applicable at the prevailing rate) \$ US (This will be applicable at the prevailing rate)

- Please invoice my company - Purchase Order Number (if required)

- Cheque - Please make cheques payable to Rapra Technology

- Bank Transfer - Please make direct payment to either of the following National Westminster Bank accounts
National Westminster Bank, 8 Mardol Head, Shrewsbury, Shropshire, SY1 1HE, Sort Code 55-50-05, Reference: XHPF07
€ Euro Account No: 58879056 Swift No: NWBKGB2L Iban: GB97NWBK60720158879056
£ Sterling Account No: 55586767 Swift No: NWBKGB2L Iban: GB78NWBK55500555586767
\$ US Dollars Account No: 58879064 Swift No: NWBKGB2L Iban: GB13NWBK60730158879064

Please enter your company VAT no. below:

- Credit Card Payment: MasterCard Visa American Express (please indicate)

Expiry Date: Signature:

Name on Credit Card (in CAPITALS)

Security Number (Visa/Mastercard - last 3 numbers in the signature box on reverse of card. Amex - 4 number code on the front of the card)

Return to:

Sharon Garrington, Conference Dept, Rapra Technology, Shawbury, Shrewsbury, Shropshire, SY4 4NR, United Kingdom. Tel : 44 (0)1939 250383 Fax : 44 (0)1939 252416
e-mail: sgarrington@rapra.net

www.polymerconferences.com

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 one month before the conference. Cancellations received after this time will be liable for the full registration fee.