

High Performance Elastomers & Polymers for Oil & Gas Applications **2012**

17-18 April 2012

Copthorne Hotel Aberdeen, UK

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High Performance Elastomers & Polymers for Oil & Gas Applications 2012

17-18 April 2012, Copthorne Hotel Aberdeen, UK

Smithers is pleased to announce the 6th International conference on High Performance Elastomers and Polymers for Oil & Gas Applications will be held in Aberdeen on 17-18 April 2012.

Over the years, high performance polymeric solutions have evolved to support the hostile conditions and longer life expectations in both upstream and downstream environments. Designed to withstand extreme service temperature ranges and contact with harsh chemicals, oils and fluids, high performance elastomers and polymers can be found in everything from subsea trees, well heads and umbilicals, to piping and chemical processing plants.

Tomorrow's materials will need, however, to withstand temperatures and pressures far higher than previously encountered in oil reserves and for this reason there must be continued research, development and qualification to reduce the need for costly intervention and respond to new challenges.

Smithers' High Performance Elastomers & Polymers for Oil and Gas 2012 conference has been developed for operators, contractors, equipment and component suppliers, material suppliers and research organisations involved with polymers and their use in oil and gas applications to share their experiences in this area. The conference represents an ideal platform to find out about the latest developments and research into high performance polymeric solutions, and provides an industry forum to network with a high-level, international peer group. We look forward to seeing you in Aberdeen!

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

£725 + VAT at 20% per delegate before 29 February 2012

£999 + VAT at 20% per delegate after 29 February 2012

Companies sending three or more delegates

£625 + VAT at 20% per delegate before 29 February 2012

£899 + VAT at 20% 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.

For further information:

Please contact Helen Charlesworth or Sharon Garrington,

Tel: +44 (0)1939 250383

Email: conferences@ismithers.net or visit

www.polymerconferences.com

Conference Venue

Copthorne Hotel Aberdeen

122 Huntly Street,
Aberdeen, AB10 1SU,
United Kingdom

Tel: +44 (0)1224 630404

Fax: +44 (0)1224 640573

Email: reservations.aberdeen@millenniumhotels.co.uk

The Copthorne Hotel Aberdeen is a premier four-star hotel, situated in a prime location of the city centre's quiet west end, within easy walking distance of the sights, shops and nightlife. This Aberdeen hotel's impeccable service, fantastic leisure features and hospitable staff are a must for any guest looking to relax and enjoy the sights and experiences of both the hotel and city.

Behind the granite façade of this Aberdeen hotel's historic building you will find traditional charm combined with modern amenities, a warm and friendly welcome to the Mac's Bar, a sumptuous business or leisure dinner in the famous 122 Steak & Grill Room. The tranquillity of the North East countryside and an array of the finest whisky distilleries and castles are just some of the superb local attractions.

Accommodation

We are holding a number of rooms at the Copthorne Hotel Aberdeen 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 email

sgarrington@ismithers.net.

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 an insert in the delegate packs 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, or Bill Allen, Pira International, tel: +44 (0)1372 802086, email: bill.allen@rapra.net.



Conference Language

Please note that the conference will be conducted in English.

Conference Agenda

Tuesday 17 April

- 08.15 NETWORKING BREAKFAST AND REGISTRATION
09.15 Welcome and Introduction to High Performance Elastomers & Polymers for Oil & Gas Applications 2012

Session 1: Testing

- 09.30 Extrusion resistance of elastomers: a study of factors that affect performance
Peter Warren, Andrew Douglas & Stephen Winterbottom, James Walker & Co Ltd, UK
- 10.00 Kinetic and mechanical properties of swellable polymers under geometrical constraints
Yucun Lou, Agathe Robisson & Sudeep Maheshwari, Schlumberger-Doll Research Center, USA
- 10.30 Observing rapid gas decompression damage: a novel technique
Dr Sabine Munch, MERL Ltd, UK
- 11.00 COFFEE AND NETWORKING
- 11.30 Elastomers in CO₂
Daniel L Hertz III, Seals Eastern Inc, USA
- 12.00 Fluid ageing and rapid gas decompression of HNBR elastomers
Dr Victor Nasreddine, Dr Kevin Kulbaba, Dr Andreas Bischoff & Christian Müller, LANXESS AG, Germany; Larry Chen, Dr David Gerrard & Jim Goodson, Baker Hughes, USA
- 12.30 Q & A SESSION
- 12.45 NETWORKING LUNCH

Session 2: Materials and Polymers

- 14.00 In situ crosslinked synthetic cement for use in cementing and zonal isolation of unconventional wells
Dr Erin B Murphy, Kraton Polymers, USA
- 14.30 Low temperature perfluoroelastomer development
John Kerwin, Precision Polymer Engineering Ltd, UK
- 15.00 Liquid crystal thermosets: a new generation high-performance polymers for oil and gas applications
Prof Theo J Dingemans, Delft University of Technology, The Netherlands
- 15.30 COFFEE AND NETWORKING
- 16.00 Novel high performance elastomers for mining, downsteam and pipeline construction applications
Michael Magerstädt & Gunther Blitz, ROSEN Swiss AG; Holger Schmidt, ROSEN Technology and Research Center GmbH, Germany; Ralf Dopieralla, ROPLAST GmbH, Germany
- 16.30 Perfluoroelastomer parts for demanding oil and gas applications
Jean-Luc Matoux, DuPont International Operations SARL, Switzerland
- 17.00 Q & A SESSION
- 17.15 END OF DAY ONE
- 18.30 EVENING SOCIAL EVENT

Wednesday 18 April

- 08.30 NETWORKING BREAKFAST

Session 3: Sealing

- 09.30 Extreme oil field seal applications
Buc Slay & Steve Streich, Halliburton, USA; Winston Webber, Halliburton, UK
- 10.00 CVD tungsten carbide coating extends life of elastomeric seals and enables high temperature seal design
Dr Yuri N Zhuk, Hardide Plc, UK
- 10.30 COFFEE AND NETWORKING
- 11.00 High performance polyurethanes in the oil & gas industry
Thomas Schwarz, SKF Economos GmbH, Austria
- 11.30 Designing and specifying elastomer materials for plate heat exchanger gaskets in the oil and gas industries
Jon Cutler, Trelleborg Sealing Solutions, UK

Session 4: Materials

- 12.00 Life prediction of polymers for the oil and gas industry
Andrew Hulme & Jenny Cooper, Smithers Rapra Technology Ltd, UK
- 12.30 Q & A SESSION
- 12.45 NETWORKING LUNCH
- 14.00 Lessons learnt from failure analyses and success stories
Dr Karin Jacobson, Swerea KIMAB AB, Sweden
- 14.30 High performance elastomers from naturally occurring modified oils
Jayant Khadilkar & Aditya Khadilkar, Jay Elastomers Pvt Ltd, India
- 15.00 Q & A SESSION
- 15.15 COFFEE AND NETWORKING
- 15.30 CLOSE OF PROCEEDINGS

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.

The conference organisers reserve the right to modify or change the above programme if necessary.

