



# Oilfield Engineering with Polymers 2014

*The 9th international conference on non-metallic materials in oil & gas sector applications*



HEADLINE SPONSOR



**21-23 October 2014**  
*Millennium Gloucester Hotel,  
London, United Kingdom*

\* + 20% UK VAT

**SPECIAL OFFER:** Save €150\*/£125\* if you register before 5th September 2014

Organised by:  
Applied Market Information Ltd.  
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21-23 October 2014, Millennium Gloucester Hotel,  
London, United Kingdom

The 9th international conference Element Oilfield Engineering with Polymers organised with AMI will be held in London at the Millennium Gloucester Hotel from 21-23 October 2014. There is a Welcome Cocktail Reception and exhibition on the first evening followed by a 2-day technical programme.

This well-established event, formerly the MERL conference (the Materials Engineering Research Laboratory is now Element), examines the role of thermoplastics, elastomers and composite materials as components in the demanding oil and gas environment. As wells are worked in increasingly hostile conditions of extreme heat and cold, combined with exposure to chemicals, gases and pressure, the performance of all materials and parts is critically important. The industry needs high quality and high standards, with assessment of life time to maximise reliability, while the R&D divisions of the major operators and their suppliers are constantly looking for the ultimate durable materials for applications ranging from seals and sealing to insulation, flow lines, risers and coatings.

Element Oilfield Engineering with Polymers 2014 provides an international forum for advanced technical discussions and offers unparalleled networking opportunities for oilfield operators, contractors and their suppliers.

#### EARLY BIRD REGISTRATION OFFER

Register before 5th September and pay €950\*/£795\* saving €150\*/£125\* on the full price of €1100\*/£920\*. There are additional discounts for group bookings. The registration fee includes attendance at all conference sessions, the Welcome Cocktail Reception, lunch and refreshment breaks on both days and a set of conference proceedings.

#### SPONSOR THIS EVENT

A variety of sponsorship opportunities are available at this conference to help to promote and enhance your company's products and services to this highly targeted international audience. Contact the conference hotline for further information.

## Save €150\*/£125\*

### Register before 5th September 2014

\*+20% UK VAT

#### CONFERENCE HOTLINE

Contact: Jenny Skinner, Senior Conference Organiser  
Tel: +44 (0) 117 314 8111  
Fax: +44 (0) 117 311 1534  
Email: [js@amiplastics.com](mailto:js@amiplastics.com)

See the latest programme and confirmed speakers at:  
[www.amiconferences.com](http://www.amiconferences.com)

#### Tuesday 21st October 2014

18.30 Registration  
19.00-20.30 Welcome Cocktail Reception  
There are no conference sessions on this day

#### Wednesday 22nd October 2014

08.00 Registration and welcome coffee  
09.00 Opening announcements

#### SESSION 1a - PROTECTIVE COATINGS: THERMAL INSULATION, ANTI-ICE

- 09.10 **Qualification testing for wet thermal insulation coatings used in oil and gas subsea developments**  
Dr. Denis Melot, Polymer Specialist, TOTAL, France
- 09.40 **Testing of anti-ice coatings for oil production in arctic environments**  
PhD. Heléne Vrålstad, Principal Engineer, STATOIL ASA, Norway

#### SESSION 1b - LIFE ESTIMATION: MATERIALS AND COMPONENTS

- 10.10 **Lifetime prediction for critical components: we can do better than this (and need to!)**  
Dr. Tim Bremner, Vice President of Materials Technology, HOERBIGER CORPORATION OF AMERICA, INC., United States
- 10.40-11.10 Morning coffee sponsored by: 
- 11.10 **Investigation of arrhenius life prediction techniques and methodology**  
Mr. Craig Watkinson, Principal Design Engineer (Eriks Sealing Technology UK), EUROPEAN SEALING ASSOCIATION (ESA) ELASTOMERIC AND POLYMERIC SEALS DIVISION TECHNICAL GROUP, United Kingdom
- 11.40 **Solving life predictive o-ring sealing issues in drilling applications with the use of compressive stress relaxation and accelerated aging techniques**  
Mr. Wayne Furlan, Manager Polymers Group, BAKER HUGHES INC., United States
- 12.10 **Fracture mechanics based life extension study of TLP flexelement**  
Dr. Bjørn Melve, Senior Specialist, STATOIL ASA, Norway and  
Dr. Salim Mirza, Manager, Finite Element Analysis, ELEMENT MATERIALS TECHNOLOGY HITCHIN, United Kingdom
- 12.40-14.10 Lunch sponsored by: 

#### SESSION 2a - HIGHLY SOUR FLUIDS: MATERIAL PERFORMANCE

- 14.10 **Behaviour of FKM elastomers in hydrogen sulphide**  
Mr. Peter Warren, Head of Materials Engineering, JAMES WALKER & Co. Ltd., United Kingdom
- 14.40 **Beyond NORSOK M-710: lifetime prediction for high performance polymers**  
Dr. Geoff Small, Market Technology Manager: Energy, VICTREX plc, United Kingdom

15.10-15.40 Afternoon tea sponsored by: 

#### SESSION 2b - PIPE LINING: TECHNOLOGY AND MATERIALS

- 15.40 **The development and implementation of the world's first sub-sea pipeline rehabilitation using a composite kevlar reinforced PVDF liner**  
Mr. Robert Walters, Chairman, IFL HOLDINGS AND APS GROUP OF COMPANIES, Channel Isles
- 16.10 **Polymer lining technology - finally plastic is shaping up to match the original promise of cost effective internal corrosion protection in carbon steel subsea pipelines and risers**  
Mr. Allan Feeney, Research and Development Manager, SWAGELINING LIMITED, United Kingdom

## PROGRAMME

- 16.40 **High performance polyimide and perfluoroelastomers for demanding oil & gas applications in HPHT**  
Mr. Geoff Lewis, Applications Developments Manager Oil & Gas, DUPONT (UK) Ltd., United Kingdom
- 17.10 **New fluoropolymer for offshore application**  
Mr. Shinya Murakami, Chemical Research & Development Center, DAIKIN INDUSTRIES, Ltd., Japan
- 20.00 Conference Dinner

### Thursday 23rd October 2014

- 08.30 Registration and welcome coffee  
09.00 Opening announcements

### SESSION 3 - HIGH PRESSURE FLUIDS: RGD AND IN SITU PERFORMANCE EVALUATION

- 09.10 **Qualification of thermoplastic materials constitutive of flexible pipes pressure sheaths for supercritical CO<sub>2</sub> applications**  
Mr. Thomas Epsztein, R&D Project Manager, TECHNIP – FLEXIFRANCE, France
- 09.40 **Investigating the explosive decompression resistance of a low temperature perfluoroelastomer: effect of temperature, carbon dioxide content and design**  
Mr. Matthew Mitchell, Materials Technologist, PRECISION POLYMER ENGINEERING, United Kingdom
- 10.10 **HP/HT in-situ thermomechanical testing and analysis methods for oilfield polymers and composites**  
Mr. Yusheng Yuan, Staff Engineer, BAKER HUGHES, United States
- 10.40-11.10 Morning coffee

### SESSION 4a - COMPOSITES AND FIBRES: FLEXIBLE PIPES, TETHERS AND REPAIR SYSTEMS

- 11.10 **A novel high pressure composite clamp for pipeline repair**  
Dr. Luke Djukic, Senior Research Engineer, ADVANCED COMPOSITE STRUCTURES AUSTRALIA, Australia
- 11.40 **How UHMWPE fibers improve the service life of ROV tether cables**  
Mr. Marc Eijssen, Sr. Application Manager, DSM DYNEEMA, Netherlands
- 12.10-13.40 Lunch

### SESSION 4b - REAL WORLD EXPERIENCE: COMPONENTS AND TESTING

- 13.40 **High efficiency labyrinth made from PAI – material integrity after 15 years**  
Mr. Jim Hebel, Technical Service & Development Manager, QUADRANT EPP, United States
- 14.10 **Bonded flexible pipe long term field experience**  
Dr. Zalán Kádár, R&D Engineer, CONTITECH RUBBER INDUSTRIAL Ltd., Hungary
- 14.40 **Evaluation of oilfield polymers: fascinating news from the test lab**  
Mr. Glyn Morgan, Sector Manager, Oil & Gas, ELEMENT HITCHIN, United Kingdom
- 15.10 Afternoon tea and conference ends

Conference bag sponsored by:



AMI reserves the right to alter the programme without notice. The latest programme including any new speakers or changes to schedules can be viewed on our website [www.amiconferences.com](http://www.amiconferences.com)

## HEADLINE SPONSOR



Element Materials Technology is the recognised leader in materials testing, product qualification testing and failure analysis services.

Our network of over 1,450 scientists, engineers and technicians across the world provides a single, go-to partner for high quality, on-time materials technology solutions in Aerospace, Oil and Gas, Transportation and Industrials.

We offer a range of specialized tests on metallic and advanced materials across the complete product/project development process, from late R&D through to prototyping and manufacturing. With a proven track-record in accurate materials test results and certificates, we deliver the element of certainty our customers need when developing their products, systems and services.

### ELEMENT OILFIELD ENGINEERING WITH POLYMERS 2014: EXHIBITION SPACE

Make it easy for the delegates to find you at this busy event with your own table top exhibition space. Bring your own display stand, or just use the space to have literature and samples available to ensure that you make an impact. The table top exhibition will run throughout the conference in the Sentosa Suite.

#### Registration includes 1 delegate place!

Space is limited so to avoid disappointment please register for this service as soon as possible.

#### HOTEL ACCOMMODATION

Delegates are responsible for booking their own accommodation. AMI has negotiated a room rate of £140\* for a single room and £150\* for a double (breakfast included) at the Millennium Gloucester Hotel in London for a limited time only. Accommodation may be booked either through the official booking form which can be downloaded on our website or by phoning the hotel's reservations department quoting APPL211014. These special rates will expire on 23rd September 2014.

Tel: +44 (0) 207 331 6195 Fax: +44 (0) 207 835 1854

\* +20% UK VAT

#### FIVE GOOD REASONS WHY YOU SHOULD ATTEND:

1. Assess the latest material developments for oilfield applications
2. Meet top industry specialists
3. Debate current trends in the oilfield industry and the demands for material performance
4. Listen to experts in oilfield engineering talking about the issues
5. Network with other professionals



# REGISTRATION FORM

Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 Country: \_\_\_\_\_  
 Tel: \_\_\_\_\_ Fax: \_\_\_\_\_  
 Email address: \_\_\_\_\_  
 VAT No.: \_\_\_\_\_  
*(Must be completed by all EU Companies)*  
 Company activity: \_\_\_\_\_  
 Purchase Order No. (if applicable): \_\_\_\_\_  
 Invoice address (if different from above): \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

## DELEGATE DETAILS

*(If more than one delegate please photocopy form)*

Title: \_\_\_\_\_ First name: \_\_\_\_\_  
 Surname: \_\_\_\_\_  
 Position: \_\_\_\_\_  
 Special dietary requirements: \_\_\_\_\_  
 Signature: \_\_\_\_\_ Date: \_\_\_\_\_

## PAYMENT DETAILS

**FEES PAID** - please tick box and write amount:

Early bird admission fee: €950 + €190\* = €1140 \_\_\_\_\_  
 Early bird admission fee: £795 + £159\* = £954 \_\_\_\_\_  
*(Until 5th September 2014)*

Admission fee thereafter: €1100 + €220\* = €1320 \_\_\_\_\_  
 Admission fee thereafter: £920 + £184\* = £1104 \_\_\_\_\_

Table top exhibition: €2000 + €400\* = €2400 \_\_\_\_\_  
 Table top exhibition: £1670 + £334\* = £2004 \_\_\_\_\_  
*(Includes one free delegate place)*

Conference Dinner: €85 + €17\* = €102 \_\_\_\_\_  
 Conference Dinner: £75 + £15\* = £90 \_\_\_\_\_

\*UK VAT charged at 20% **Total:** \_\_\_\_\_

### METHOD OF PAYMENT: FROM EUROPE

On receipt of this registration form, your credit card will be debited.

**You will be sent an invoice within 7-14 working days.**

Bank Transfer quoting: 'Applied Market Information Ltd.  
 -Oilfield Engineering with Polymers 2014' to: Commerzbank AG,  
 Filiale Düsseldorf, Breite Straße 25, D-40213 Düsseldorf, Germany  
 Account number: **1024710** Bank No. **300 400 00**  
 IBAN: **DE93 3004 0000 0102 4710 00** SWIFT - **COBADEFFXXX**

Visa / Mastercard / Eurocard / JCB

My card number is:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_

Name of cardholder: \_\_\_\_\_  
 Expiry date: \_\_\_\_\_ 3-digit security code: \_\_\_\_\_  
 Card billing address: \_\_\_\_\_  
 Post / zip code: \_\_\_\_\_  
 Country: \_\_\_\_\_  
 Tel: \_\_\_\_\_ Fax: \_\_\_\_\_  
 Email: \_\_\_\_\_

## ELEMENT OILFIELD ENGINEERING WITH POLYMERS 2014

### CONFERENCE INFORMATION

#### Date and location

21-23 October 2014  
 Millennium Gloucester Hotel  
 London  
 United Kingdom

#### Address

4-18 Harrington Gardens  
 London  
 SW7 4LH  
 Tel: +44 (0) 207 331 6195  
 Fax: +44 (0) 207 835 1854

#### Registration fee

The registration fee includes attendance at all conference sessions, the Welcome Cocktail Reception, lunch and refreshment breaks on both days and a set of conference proceedings.

• **Early bird registration:** Register before 5th September 2014 for only €950\*/£795\*. Thereafter the cost is €1100\*/£920\*.

• **Group rates:** For companies wishing to register two or more delegates, group discounts are available. Please contact Jenny Skinner for more details. (Please note to qualify for the group discount delegates must be booked at the same time, otherwise additional delegates may be charged at full price).

#### Element Oilfield Engineering with Polymers 2014 table top exhibition

A limited number of table top exhibition spaces are available in the Sentosa Suite. The table top exhibition fee is excellent value for money and **includes 1 delegate place**. Exhibitors may either use tables provided by the hotel or bring their own stand or display.

#### Sponsor this event and promote your company

A variety of sponsorship opportunities are available at this event that can help to promote and enhance your company's products and services to this highly targeted international audience. For further information, please contact the Conference Organiser on: +44 (0) 117 314 8111.

#### Social events

The social events organised for Element Oilfield Engineering with Polymers 2014 will provide an ideal setting for delegates and speakers to mix business with pleasure.

##### • Welcome Cocktail Reception

A welcoming cocktail reception will be held on the first evening. All delegates are invited to attend and it will offer an excellent opportunity to meet speakers and other colleagues. The Welcome Cocktail Reception will run approximately from 19:00 to 20:30 and is included in the delegate fee.

##### • Conference Dinner

All delegates are warmly invited to attend the Conference Dinner, which will take place at the hotel on the evening of 22nd October 2014. The additional cost is €85\*/£75\*.

#### Hotel accommodation

Delegates are responsible for booking their own accommodation. AMI has negotiated a room rate of £140\* for a single room and £150\* for a double (breakfast included) at the Millennium Gloucester Hotel in London for a limited time only. Accommodation may be booked either through the official booking form which can be downloaded on our website or by phoning the hotel's reservations department quoting APPL211014. These special rates will expire on 23rd September 2014.

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#### Cancellations

Full refunds, less a cancellation charge of €200/£180 will only be made on cancellations received prior to 19th September 2014. Thereafter we regret that no refunds can be made. Delegates may be substituted at any time. Please note that refunds will not be given on table top bookings or dinner places.

\*+20% UK VAT

### METHOD OF PAYMENT: FROM UK

On receipt of this registration form, your credit card will be debited.

**You will be sent an invoice within 7-14 working days.**

Bank Transfer quoting: 'Applied Market Information Ltd.  
 -Oilfield Engineering with Polymers 2014' to:  
 National Westminster Bank PLC, Thornbury Branch, Bristol, BS99 5HD, UK  
 Account number: **03245756** Bank Sort Code: **55-61-38**  
 IBAN: **GB13 NWBK 5561 3803 2457 56** SWIFT - **NWBKGB2L**

Visa / Mastercard / Eurocard / JCB

### CONFERENCE HOTLINE

**JENNY SKINNER, SENIOR CONFERENCE ORGANISER**

Applied Market Information Ltd.  
 6 Pritchard Street, Bristol BS2 8RH, United Kingdom  
**Tel: +44 (0) 117 314 8111 Fax: +44 (0) 117 311 1534**  
**Email: js@amiplastics.com**

The latest programme, including any new speakers or changes to the schedule can be viewed on our website: **www.amiconferences.com**