

# **MERL** **Oilfield Engineering** **with Polymers 2010**

*The international conference on advanced materials in oilfield applications*



**SPECIAL OFFER:**

**Save €210\*/£185\*  
if you register before  
23rd July 2010**

**20-22 September 2010**

**Millennium Gloucester Hotel, London, U.K**

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**MERL Oilfield Engineering with Polymers 2010**

20-22 September 2010, Millennium Gloucester Hotel,  
London, United Kingdom

AMI and the Materials Engineering Research Laboratory (MERL) are pleased to invite you to attend the 7th international conference **MERL Oilfield Engineering with Polymers**, which will take from 20-22 September 2010 at the Millennium Gloucester Hotel in central London, England.

This event brings together those with interests in polymeric materials from across the Oil and Gas industry, including operating companies, contractors and suppliers of equipment, components and materials from all over the world. The theme of the conference is "meeting operational challenges". This requires co-operative development by the supply chain and is reflected throughout the conference. For example, the session on sealing includes an operator's perspective as well as the latest developments from a seal manufacturer and a materials supplier.

One of the major ongoing operational challenges is the increasing temperature extremes of the service environment and this will be discussed for composites, thermoplastics and elastomers. The need for weight reduction, increased stiffness and corrosion resistance has resulted in increased demand for composite materials with enhanced capabilities. Another challenge for the industry is the qualification of polymeric components for long term operation where the effects of both the mechanical loading and chemical environment need to be accounted for.

Finally, as with all operations involving fluids that include gases at high pressure, there is the ever present need to consider the resistance of polymeric materials to rapid gas decompression damage.

**MERL Oilfield Engineering with Polymers 2010** provides a unique opportunity to network with oilfield operators, contractors, suppliers and materials experts.

**EARLY BIRD REGISTRATION OFFER**

Register before 23rd July 2010 and pay €890\*/£770\* saving €210\*/£185\* on the full price of €1100\*/£955\*. There are additional discounts for group bookings. The registration fee includes attendance at all conference sessions, the Cocktail Reception, lunch and refreshment breaks on both days, and a set of Conference Proceedings.

**CONFERENCE VENUE**

London is a city famous for many attractions including shopping, history, architectural beauty, and also for areas such as the West End and Covent Garden. The event will take place at the Millennium Gloucester Hotel, which is ideally situated on the Piccadilly Underground Line, which provides a direct train to Heathrow Airport. For details of what's on in London see the official city web site: [www.visitlondon.com](http://www.visitlondon.com)

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**CONFERENCE HOTLINE**

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**Monday 20th September 2010**

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

**Tuesday 21st September 2010**

08.00 Registration and welcome coffee  
09.00 Opening announcements

**SESSION 1 – COMPOSITES DEVELOPMENTS**

- 09.10 Application of polymer composite pipes in oilfield in China**  
Dr. Dongtao Qi, Engineer,  
TUBULAR GOODS RESEARCH CENTER, CHINA NATIONAL  
PETROLEUM CORP., China
- 09.40 Advanced composite materials and processing for oilfield applications**  
Mr. Todd Yakimoski, Senior Mechanical Engineer,  
SCHLUMBERGER CANADA Ltd., Canada
- 10.10 Glassfiber reinforced epoxy pipeline for water injection**  
Mr. Jan van Acquoy, Sales Account Manager,  
AMERON B.V., Netherlands

10.40-11.10 Morning coffee

**SESSION 2 – THE FUTURE OF ELASTOMER SEALING**

- 11.10 What do end users really want? - Then and now**  
Dr. Philip Abrams, Sr. Consultant,  
EXXONMOBIL DEVELOPMENT COMPANY, United States
- 11.40 Performance improvements in elastomer components through selective use of materials**  
Mr. Peter Warren, Head of Materials Engineering,  
JAMES WALKER AND Co. Ltd., United Kingdom
- 12.10 New fluoroelastomer with excellent heat resistance**  
Ms. Keiko Washino, Chemical Research & Development  
Center, DAIKIN INDUSTRIES, Ltd., Japan

12.40-14.10 Lunch sponsored by:

**SESSION 3 – LIFE PREDICTION – TIME TO FAILURE**

- 14.10 Engineering with aramid fibers**  
Ir. Matthijs van Leeuwen, Sales Account Manager,  
TEIJIN ARAMID, Netherlands
- 14.40 Creep behaviour of laminated elastomeric parts: new damage understanding and failure prediction**  
Dr. Karine Le Gorju Jago, Physical Characterization Main  
Manager, HUTCHINSON RESEARCH CENTER, France
- 15.10 Aging of polyamides in off-shore application -and how to avoid comparing "apples and oranges"**  
Mr. Ralf Tuellmann, Senior Manager Polymer Testing,  
EVONIK INDUSTRIES GmbH, Germany

15.40 -16.10 Afternoon tea sponsored by:

**SESSION 4 – HIGH TEMPERATURE – THE MATERIALS CHALLENGE**

- 16.10 Properties of PAEK materials and their potential applications in HP/HT sealing environment**  
Dr. Jason (Jiaxiang) Ren, Project Engineer,  
BAKER HUGHES, United States
- 16.40 LHT- a new high temperature plastic platform for oilfield applications**  
Dr. Ronald R. Campbell, Research Manager, Advanced  
Technology Group, GREENE TWEED, United States
- 17.10 Fluoropolymers in oil and gas wire & cable applications**  
Mr. Daniel Favereau, Technical Marketing Manager,  
DUPONT INT. S.A., Switzerland

# PROGRAMME

**17:30 New perfluoroelastomers for challenging oil and gas applications: rapid gas decompression and low temperature sealing**  
Mr. Jean-Luc Matoux, Application Development Engineer, DUPONT PERFORMANCE POLYMERS, Switzerland

**20:00 Conference dinner**

**Wednesday 22nd September 2010**

**08.30 Registration and welcome coffee**  
**08.50 Opening announcements**

## SESSION 5 – PIPE PERFORMANCE - EXPECTATIONS AND EXPERIENCE

**09.00 Crack growth in PVDF pressure barriers of flexible pipes - theory and operational experience**  
Dr. Bjørn Melve, Specialist, STATOIL, Norway

**09.30 The effectiveness of polymer lined pipelines for subsea water injection service**  
Dr. Steven Brogden, Materials Engineer, SWAGELINING Ltd, United Kingdom

**10.00 The use of high performance thermoplastics for pipe liners in corrosive environments**  
Mr. Michael R. Favaloro, Technical Marketing Manager, TICONA, United States

**10.30-11.00 Morning coffee sponsored by:**



## SESSION 6 – PIPE DEVELOPMENTS - EXTENDING THE LIMITS

**11.00 The use of PVDF materials in flexible pipe - development of a new, low plasticized, PVDF for monolayer dynamic applications**  
Mr. Thomas Epsztein, Polymer Materials Engineer, Product Engineering Division (PED), TECHNIP- FLEXI FRANCE, France

**11.30 High performance thermoplastic liners for oilfield tubular goods**  
Dr. Geoff Small, Applications Technology Specialist, VICTREX POLYMER SOLUTIONS, VICTREX plc, United Kingdom

**12.00 Coating bismaleimide based composites**  
Dr. Bernadette Craster, Principal Research Scientist, SCHLUMBERGER NEW VENTURE, Canada

**12.30-14.00 Lunch sponsored by:**



## SESSION 7 - ELASTOMER DEVELOPMENTS FOR DEMANDING ENVIRONMENTS

**14.00 Elastomeric materials based on hydrogenated nitrile rubber for seals in carbon dioxide high pressure service – improving the resistance against explosive decompression**  
Dr. Matthias Soddeman, Head Centre of Excellence, LANXESS DEUTSCHLAND GmbH, Germany

**14.30 Developing new elastomers from compound to downhole tool demonstrator for steam, supercritical CO2 and H2S injection for enhanced oil recovery applications**  
Dr. Morris Roseman, Senior Scientist, MERL LIMITED, United Kingdom

**15.00 New low temperature perfluoroelastomer for sealing in extreme operating environments**  
Mr. Pete Farrow, Sales Manager - Tecnoflon® Fluoroelastomers and Perfluoroelastomers, SOLVAY POLYMERS LIMITED, United Kingdom

**15.30 Closing remarks and conference ends**

*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 web site [www.amiconferences.com](http://www.amiconferences.com)*

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## MERL OILFIELD ENGINEERING WITH POLYMERS 2010: 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 and ensure that you make an impact. The table top exhibition will run throughout the conference.*

**Please note that this service is only available to companies registering at least one delegate to attend the conference.**

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 £145 for a single room and £155 for a double room (breakfast included) at the Millennium Gloucester Hotel in London. For further information and to book, please go to our website on; [www.amiconferences.com](http://www.amiconferences.com), and select the Accommodation section on the Merl Oilfield Engineering with Polymer web pages.

## SPONSOR THIS EVENT

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## 5 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

