



Baker Petrolite



EUROPEAN  
OILFIELD  
SPECIALITY  
CHEMICALS  
ASSOCIATION

# CHEMISTRY IN THE OIL INDUSTRY X

## Oilfield Chemistry: REACHing the Solution

An International Symposium organised by the Royal Society of Chemistry, Speciality Chemicals Sector and the European Oilfield Speciality Chemicals Association

Manchester Conference Centre, UK

5 - 7 November 2007

*Are you concerned about the implications of the REACH Regulations for the continued use of production chemicals?*

*Are recent developments in the Offshore Chemical Notification Scheme causing difficulties?*

*Come and learn how to address these challenges from industry experts and regulatory authorities at **Chemistry in the Oil Industry X**.*



# Programme

## Monday 5 November

17.00 to 20.00 **Registration**

## Tuesday 6 November

08.45 **Welcome by**  
David Karsa, *TensioMetrics Ltd & RSC Speciality Chemicals Sector*

### Session 1: REACH: Regulatory & Legislative Issues

#### Chairmen:

Gordon Graham, *Maersk Oil North Sea UK Ltd*  
Graham Payne, *EOSCA Executive Secretary & Briar Technical Services Ltd*

09.00 **Keynote Lecture:**  
**REACH – The Big Picture**  
*HSE (UK Competent Authority)*

09.40 **REACH – From a Supplier's Perspective**  
*Stuart Longworth, Sankey Safety Consultants Ltd*

10.10 **REACH - An Intelligent Approach to Safety Evaluation and Testing**  
*John Hislop, Safepharm Laboratories Ltd*

10.40 **Q&A**

11.00 **REFRESHMENTS, EXHIBITION, POSTERS & JOB FAIR**

### Session 2: Drilling and Well Service

#### Chairmen:

Paul Reid, *Impact Engineering Solutions of Reading*  
Dick Weare, *Baker Petrolite & RSC Speciality Chemicals Sector*

11.30 **Simultaneous Fracturing and Inhibitor Squeeze Treatments in Gas Reservoirs: A New Approach to Tailor Chemistry to Reservoir Conditions**  
Bernhard Lungwitz, Leonardo Maschio, Marieliz Garcia, Michael Tyndall, Oscar Bustos and Bilu Cherian, *Schlumberger*

11.55 **Improved Chemical Designs for OBM Skin Damage Removal for Production and Injection Wells**  
Dave Marshall, Tom Jones and Lirio Quintero, *Baker Hughes Drilling Fluids*

12.20 **Chemical Treatment Improves Cuttings Re-injection**  
Ahmadi Tehrani and Mary Ann George, *MI-SWACO*

12.45 **LUNCH, EXHIBITION, POSTERS & JOB FAIR**

### Session 3: Separation and Down Stream Operations

#### Chairmen:

Paul Reid, *Impact Engineering Solutions of Reading*  
Dick Weare, *Baker Petrolite & RSC Speciality Chemicals Sector*

14.15 **Rheological Characterization of Water/Crude Oil Interfaces**  
Christine Dalmazzone, Christine Noik, Carlos Quintero and Aurelie Mouret, *IFP*

14.40 **Sources of Crude Oil Quality Variation and its Impact on Refining**  
Lawrence N Kremer, *Baker Petrolite*

15.05 **A Revolutionary New Approach to the Cleaning of Oil Refinery Systems**  
Chris Jones, Marcus Mantysaari, Brian Downward, *Rhodia UK* and Berthold Otzisk, Hermann Kempen, Dirk Huennemann and Kai Stallmann, *Kurita Europe GmbH*

15.30 **REFRESHMENTS, EXHIBITION, POSTERS & JOB FAIR**

### Session 4: Flow Assurance

#### Chairmen:

Jack Dunlop, *JD Horizons Ltd*  
Henry Craddock, *Roemex Limited*

16.00 **Separation and Identification of High Molecular Weight Tetra Acids Responsible for Calcium Naphthenate Deposition**  
Ben E Smith, *Oil Plus Ltd*; Geoffrey Fowler, *BG Group*; Steve J Rowland, *University of Plymouth* and Bjart Lutnaes, Jostien Krane, *Norwegian University of Science and Technology (NTNU)*

16.25 **New Insights into the Chemistry of Soap Formation in Exploration and Production**  
Andrew G Shepherd, Gillian B Thomson, Robin E Westacott and Ken Sorbie, *Heriot Watt University*

16.50 **New Approaches to Low Dose Gas Hydrate Treatment**  
Michael Jurek, Marc Alexandre and Stephen Bell, *International Specialty Products*

17.15 **Close**

19.30 **COCKTAIL RECEPTION AT THE YANG SING RESTAURANT**  
*sponsored by Dow Biocides*

for

20.00 **SYMPOSIUM DINNER AT THE YANG SING RESTAURANT**  
*sponsored by Champion Technologies Ltd*

## Wednesday 7 November

### Session 5: Environmental Issues

#### Chairmen:

Gordon Graham, *Maersk Oil North Sea UK Ltd*  
Graham Payne, *EOSCA Executive Secretary & Briar Technical Services Ltd*

#### 08.30 **Keynote Lecture:**

**Evaluating and Forecasting Trends in Chemical Use and Impacts by the UK Offshore Oil and Gas Industry; Management and Reduction of Use of Those Substances Considered of Greatest Environmental Concern**

Dave Sheahan, Paula Neall, Richard Rycroft, Shirley Thompson, Mike Tolhurst, Laura Weiss, Mark F Kirby and Anthony J Millais, *CEFAS*

#### 09.10 **Keynote Lecture**

**Legalization of Chemical Products in Russian Federation**

Albert T Lebedev, *Moscow State M V Lomonosov University*

#### 09.50 **Bioconcentration: Comparison of Methods for Assessing Potential Hazards of Offshore Chemicals**

Laura Weiss, Richard J Rycroft, Dave Sheahan, Mark F Kirby and Anthony J Millais, *CEFAS*

#### 10.15 **Environmentally Adapted Demulsifiers Containing Weak Links**

Per-Erik Hellberg, *Akzo Nobel Surface Chemistry AB*

#### 10.40 **REFRESHMENTS, EXHIBITION, POSTERS & JOB FAIR**

### Session 6: Integrity

#### Chairmen:

Henry Craddock, *Roemex Ltd*  
Harry Frampton, *BP Exploration & Production*

#### 11.10 **Corrosion Inhibition in PWRI Systems which Use Nitrate Treatment to Control SRB Activity and Reservoir Souring**

Jim F D Stott, Graeme Dicken, Tony Rizk, *CAPCIS Ltd*; Chris Gamble, Simon Saul, *Baker Petrolite* and Tom Granli, Thor Haegh, *Yara International*

#### 11.35 **A High Throughput Evaluation of Biocides for Biofouling Control in Oilfields**

Bei Yin, Jeff Yang, Ute Bertheas and Julie Adams, *Dow Biocides*

#### 12.00 **Production Chemistry Issues in Coal Seam Methane Operations**

Matthew Blunden, *Origin Energy* and Professor Alan Sheehy, *Strategic Microbiology/Strategic Chemistry*

#### 12.25 **LUNCH, EXHIBITION, POSTERS & JOB FAIR**

### Session 7: Scale

#### Chairmen:

Harry Frampton, *BP Exploration & Production*  
Dick Weare, *Baker Petrolite & RSC Speciality Chemicals Sector*

#### 13.55 **Study of BaSO<sub>4</sub> Formation Kinetics and Barite Inhibition by Green Scale Inhibitors**

Eleftheria Mavredaki, Anne Neville, *University of Leeds* and Ken S Sorbie, *Heriot Watt University*

#### 14.20 **The Effects of Three Green Inhibitors on Calcium Carbonate Generated by Electrodeposition**

Aurelie Martinod, Anne Neville, *University of Leeds* and Ken S Sorbie, *Heriot Watt University*

#### 14.45 **Biodegradable Scale Inhibitors. Laboratory and Field Evaluation of a "Green" Carbonate and Sulphate Scale Inhibitor with Deployment Histories in the North Sea**

Myles M Jordan, Neil Feasey, Clare Johnston, David Marlow and Morag Elrick, *Nalco Ltd*

#### 15.10 **Biodegradable Solvents for Barium Sulphate Dissolution in Offshore Oilfields**

Corine A de Wolf, Ingrid C M Huybens, Kees van Ginkel and Roy Geerts, *Akzo Nobel Functional Chemicals*

#### 15.35 **Reprise - The Symposium's Vision of REACHing the Solution**

Jack Dunlop, *JD Horizons Ltd* and Henry Craddock, *Roemex Ltd*

#### 16.00 **Symposium Ends**

#### 16.00 **REFRESHMENTS AVAILABLE**

Environmental issues have become an increasing area of attention over the last few years for anyone involved with the manufacture, supply and application of speciality chemicals in the Oil Industry. The legislative framework governing the use of such materials is continually being updated and re-interpreted. Thus it is crucial to keep abreast of the latest thinking on these matters which is the reason that Chemistry in the Oil Industry X has a strong focus on environmental matters.



In particular, **REACH** is the most significant legislation to impact on the whole chemical supply chain necessitating raw material producers, formulators and end-users to work closely together in the future. Hence, in addition to the many oil field chemical developments presented at this conference, the opening presentations will focus on **REACH** and its implications on this sector.

## Who should attend ?

### From Oil & Gas Producers and Refiners

Production chemists, environmental managers, HS&E personnel, compliance managers, risk & regulatory management, production engineers, chemical treatment specialists and anyone with an interest in environmental management in the oil industry.

### From Speciality Chemical Suppliers

Environmental managers, compliance managers, HS&E personnel, risk and regulatory management, development chemists, account managers and anyone with an interest in environmental management in the oil industry.

### From Regulatory Bodies

Personnel concerned with environmental management in the Oil Industry.

### From Consultancy

Personnel with expertise or interest in environmental management in the Oil Industry.



# CHEMISTRY IN THE OIL INDUSTRY X

Manchester Conference Centre

5 - 7 November 2007

Please return form to: Ruth Lane, Symposium Secretariat, Howell Croft, Cow Lane, Norley, Frodsham, Cheshire WA6 8PW  
UK tel: +44 (0) 1928 788071 fax: +44 (0) 1928 788071 email: ruthlane@fish.co.uk

Last Name:  First Name:

Prof:  Dr:  Mr:  Mrs:  Ms:  Organisation:

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I wish to reserve a place at the symposium for which the fee, including VAT, is:

- |  |                      |   |                                   |
|--|----------------------|---|-----------------------------------|
| <input type="checkbox"/> RSC/EOSCA/BACS Member | £350 + VAT = £411.25 | <input type="checkbox"/> Academics//Retired | £150 + VAT = £176.25              |
| <input type="checkbox"/> Non-members           | £425 + VAT = £499.38 | <input type="checkbox"/> Full time Student  | Free, but must register to attend |

VAT Registration N° 440 2179 81

## PAYMENT

Please tick your chosen method

- By purchase order after receipt of invoice
- By cheque (please enclose with this form) - in £ sterling payable to 'Royal Society of Chemistry Speciality Chemicals Sector'
- By Bank Transfer to NatWest Bank, The Bull Ring, Northwich, Cheshire CW9 5BN UK  
A/C Name: Royal Society of Chemistry Speciality Chemicals Sector - A/C No: 67064256 Sort Code: 60-15-29  
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If you wish to be an exhibitor and/or present a poster at the symposium please put a cross in the appropriate box below.

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Please enclose details of any special diet.

Please tell us how you heard about the symposium by putting a cross in the appropriate box(es) below.

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| <input type="checkbox"/> Insert in SPE Magazine  | <input type="checkbox"/> Word of mouth or email from colleagues |
| <input type="checkbox"/> Advert in NW Chemistry News or RSC Speciality Chemicals Sector Magazine | <input type="checkbox"/> EOSCA web site                         |
| <input type="checkbox"/> Mailshot as attended previous symposium                                 | <input type="checkbox"/> RSC Conferences web site               |
|  | <input type="checkbox"/> Other..... (please give details)       |

The data you supply on this Registration Form will be held on computer by the RSC for the purpose of administering this symposium. A list of participants, which will include email addresses, will be published for distribution at the symposium. If you DO NOT wish to be included in this list, please tick the box .

The RSC or EOSCA may include your address on its records in order that information on any future meetings related to this subject and RSC or EOSCA products and services may be sent to you. If you DO NOT wish to receive details, please tick the box .

## General Information

This is the tenth Chemistry in the Oil Industry symposium in a series organised by the RSC. For the fourth time this symposium is being cosponsored by EOSCA (European Oilfields Speciality Chemicals Association).

The symposium will endeavour to highlight the technological and operational impact of REACH regulations over the next decade and OSPARCOM regulatory structures anticipated to come into effect by 2020. Recognition of technology gaps and how they might be filled is of great relevance. In addition the symposium will cover aspects of chemistry in the upstream and downstream oil industry including flow assurance, integrity management, technologies for sub-sea and deep water operations, separation, corrosion and biological control, scale, drilling fluids, advanced chemical deployment, refinery process applications and novel chemistry.

Those who should attend include personnel from oil companies, service companies, chemical manufacturers, independent research organisations, universities and environmental testing laboratories.

## Location

The symposium will be held in the Manchester Conference Centre, Weston Building, Sackville Street, Manchester which is part of Manchester University. Manchester is convenient for the motorway networks and only 10 miles from Manchester Airport. There is ample public car parking space near the venue.



## Exhibition and Poster Display

An exhibition and poster display will be held on 6 and 7 November and there will be time for delegates to talk with exhibitors and poster presenters between lecture sessions.

Anyone wishing to be an exhibitor or present a poster should contact the Symposium Secretariat directly.

## Job Fair

**A Job Fair will be held throughout the symposium and companies with jobs available in the oil industry should contact the Symposium Secretariat by 15 October to ensure that their vacancies can be displayed.**

## Registration and Fees

Please complete the attached registration form (or a copy) and send it to the Symposium Secretariat. Fees must be paid by 1 November 2007. The registration fee includes attendance at the symposium, the symposium information pack, a CD-ROM and a softback of the Symposium Proceedings and Posters, refreshments and meals as listed below.

## Meals

The registration fee includes a Reception and Banquet Dinner at the popular Yang Sing restaurant in Manchester on the evening of 6 November and lunches and refreshments at the Manchester Conference Centre during the symposium on 6 and 7 November. It is expected that delegates will make their own arrangements for dinner on the registration evening, 5 November.

## Accommodation

Details of accommodation at the Manchester Conference Centre Hotel and other city centre hotels will be sent on registration.

## Publication

The proceedings of the symposium will be published in soft back and as a fully searchable CD-ROM. Delegates will receive these at the symposium.

## Sponsors

Baker Petrolite  
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## Websites to Visit

The EOSCA website: [www.eosca.com](http://www.eosca.com)  
The RSC Speciality Chemicals Sector website: [www.rsc.org/Membership/Networking/InterestGroups/SpecialityChemicals/index.asp](http://www.rsc.org/Membership/Networking/InterestGroups/SpecialityChemicals/index.asp)  
The RSC conferences website: [www.rsc.org/ConferencesAndEvents/index.asp](http://www.rsc.org/ConferencesAndEvents/index.asp)

## Symposium Secretariat:

Dr Ruth M Lane, Howell Croft, Cow Lane, Norley, Frodsham, Cheshire WA6 8PW, UK.  
tel/fax: +44 (0) 1928 788 071  
email: [RuthLane@fish.co.uk](mailto:RuthLane@fish.co.uk)

## Organising Committee

Henry Craddock, *Roemex Ltd*

Jack Dunlop, *JD Horizons Ltd*

Harry Frampton, *BP Exploration & Production*

Gordon C Graham, *Maersk Oil North Sea UK Ltd*

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