

UMBILICAL BLOCKAGES

One - day Workshop

Wednesday 19th January 2005
Britannia Hotel, Bucksburn, Aberdeen

Umbilicals form a critical link in the recovery of hydrocarbons involving subsea production systems. Not only do they provide hydraulic power and electrical signals to operate and control the production centres but they are also used to convey fluids to assist in the recovery process and to maintain the life and operability of the trees and flow lines. These well service fluids are both diverse in nature and formulation and to date many hundreds of such fluids have been considered or utilised by the subsea production industry.

What is noticeable about many of these fluids is that, outside of the fluid manufacturers, little is known about their actual compositions, stability, etc., and what tests are performed to confirm their suitability for transportation through small bore lines over relatively long distances.

At two recent Society evening meetings organised as open forums, one in London and one in Aberdeen to discuss the subject of umbilicals, a common theme was noticeable. This was that blockages in umbilical fluid lines or associated components were a major industry problem. Up to this point, it was believed that blockages were an isolated occurrence; by the end of each meeting it was apparent that blockage occurrences were much higher than originally envisaged. Whilst many theories were put forward as to the causes ranging from incompatibility with the fluid conduit to inappropriate working practice offshore, no single factor emerged as the most likely cause.

It is with this background that the Society has embarked on a combined Seminar/Workshop with the aim of obtaining a better understanding of the issues and to formulate a strategy as to the way forward to minimise the risk of such occurrences. The format of the event will be based on a series of presentations by companies representing a broad spectrum of the industry (fluid manufacturers, operators, service companies, etc.), followed by working groups to review the presentation content and to develop strategies for the way forward. Each group's strategies will then be presented to the other groups and a final strategy produced taking account of the outputs from each working group.

Speakers will not present formal papers but provide keynote presentations. Aberdeen has been chosen for the event as this is where most UK North Sea facilities are managed and, at a venue close to the airport to facilitate easy access for attendees travelling from outside the area.

PROGRAMME

Chairman: Peter Metcalf - Vice President Subsea Solutions, Aker Kvaerner Offshore Partner Ltd.

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| 09.00 | Registration and Coffee |
| 09.30 | Welcome and Introduction by Chairman &
Mr. Patrick Phelan, Managing Director JDR Cable Systems & UMF Representative |
| 09.40 | Umbilical Hydraulic Control Line Blockage - Cause, Prevention & Cure
Tony Globe - General Manager Subsea, Castrol Offshore |
| 10.00 | Don, Chemical Umbilical Failure
Paul W. Eggeling - Subsea Controls Engineer, BP |
| 10.20 | Umbilical Blockages: Investigation and Clearance
Martin Harley Principal Engineer, Corrosion & Welding &
Tony Kirkby, Principal Engineer: Controls & Umbilicals, JP Kenny Caledonia Ltd. |
| 10.40 | Coffee Break |
| 11.00 | The Chemical Aspects of Umbilical Process, Chemical and Hydraulic Core Blockage
Phil Webb - Production Chemist, Shell U.K. Limited |
| 11.20 | Clearing Blocked/Reduced Flow Umbilicals.
Duncan Griffiths - FPS Sales Manager, Norson Services |
| 11.40 | Potential Chemical Blockages from Hydraulic Fluids
Simon McManus - Technical Director, MacDermid Offshore Solutions |
| 12.00 | Lunch |
| 13.30 | Workshop |
| 15.00 | Coffee Break |
| 16.00 | Workshop findings |
| 16.30 | Close |

REGISTRATION

Attendance for this event is by pre-registration only (places are limited)

WWW.SUT.ORG

Please see over for registration form.

Registration Information

To register, simply complete the registration form and send your payment to SUT's Aberdeen Office.
SUT, The Innovation Centre, Exploration Drive, Bridge of Don, Aberdeen, AB23 8GX. Fax: 01224 820236.
E.mail. Joyce.bremner@sut.org Phone: 01224 823637

Registration Fees

SUT Members £55.32 + 9.68 VAT = **£65.00**

Non Members £68.09 + £11.91 VAT = **£80.00**

Inclusive of lunch, tea/coffee

Payment Methods:

Bank Transfer: (exclusive of transfer fees) to Barclays Bank Plc, Pall Mall Business Centre, P.O. Box 15164, London, SW1A 1QE. Account Name - Society for Underwater Technology, Sort Code 20-65-82 Account No. 80849499

Cheque: Sterling only, drawn on a UK Bank Account. An International cheque can be obtained from all major overseas banks. Please ensure any charges are met at source.

Credit Card: Mastercard or Visa ONLY. We cannot accept payment by any other card.

VAT: Our VAT No. is GB 242 3504 95. VAT must be paid on all registration fees, including those from overseas. All EC country organisations must provide their VAT number in accordance with EC VAT regulations. A VAT receipted invoice will be sent in acknowledgement of all pre-paid registrations.

Registration From

Please complete and either e.mail to joyce.bremner@sut.org or print off a copy and fax to 01224 820236

Please tick to indicate your preferred payment method:

Cheque _____ Cash _____ Credit Card _____ (Visa or Mastercard) Invoice (Please supply PO No.) _____

Name _____ SUT Member No. _____

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E .mail address _____

Credit Card No: VISA or MASTER CARD ONLY. No: _____ / _____ / _____ / _____

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Billing Address if not as above _____

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