

Heated Production Pipelines

Wednesday 9 November 2011

Bar Opens: 1730 Lectures Start: 1800 Buffet: 1930

Venue: Hilton Treetops Hotel, Springfield Road, Aberdeen



More challenging subsea field developments need more sophisticated technology to export reservoir fluids back to host processing facilities. This evening meeting looks at recent developments in the active heating of subsea production pipelines. The evening's programme includes two recent pipeline case histories using different types of heating technology, the demand for the technology from the perspective of the process engineer, and a short technology bite on a new and related technology for pipeline cleaning.

Chairman: David Kaye - Engineering Manager, Aquamarine Power

The Industrialisation of Electrically Trace Heated Pipe in Pipe (ETH-PIP)

Rob Fisher - Project Manager, Technip UK Limited

This presentation will cover the industrialisation of Electrically Trace Heated Pipe-in-Pipe, a new pipeline technology which provides the last piece of the jigsaw in the flow assurance puzzle. Rob will discuss qualification, industrialisation and the product's first ever installation as part of Total's Islay field development in the UK North Sea.

Apache Bacchus Project

Mark Richardson - Subsea Projects Manager, Apache North Sea

The Bacchus Project comprises three subsea production wells tied back to the Forties Alpha platform via a 6.8km subsea bundle. The new riser caisson was installed in late 2010 with the bundle being installed in March 2011. The topsides modifications and subsea infrastructure are now mechanically complete and pre-commissioned with drilling the first well being the critical path to first oil.



Flow Assurance, Thermal Management of Subsea Systems

Ratnam Sathananthan - Global Flow Assurance Manager, Subsea7

As subsea oil & gas production extends into ever deeper waters, effective flow assurance can offer greatly enhanced systems with superior availability, deliverability and operability throughout field life. Using the philosophy "Design from the Inside", thermal management within subsea production systems helps to effectively manage wax/hydrates and enhances production. The author foresees a need for systems that can improve economics from deepwater fields.

Techbite Slot

John Burns - Pipeline Cleaning Solutions

A 5-10 minute presentation highlighting a technology capability that has been the subject of an initial investigative project with ITF to prove a new concept for removal of sand and debris from pipes. With wider applications for cleaning tanks, wireline equipment and chemical removal, this project is gaining traction in the industry and is moving to another phase.

*We welcome any offers for short "technology bite" presentations at future evening meetings.
If you are interested in presenting your latest subsea technology then please contact nicola.taylor@sut.org*

NEW MEMBERS ATTEND FREE (please see over)

REGISTRATION FEES: SUT Members **£15.00** Non-Members **£25.00*** SUT Student Members: **£5.00**
Please complete and return to: SUT, Innovation Centre, Exploration Drive, Bridge of Don, Aberdeen, AB23 8GX
e nicola.taylor@sut.org f 01224 820236 t 01224 823637 online www.events.sut.org.uk

I wish to pay by: Cash Cheque Credit Card
(sorry we do not accept AMEX)

We can only invoice for multiple registrations

Name _____

SUT Member No _____

Company _____

Email _____

Address _____

Tel No _____

Credit Card No _____

Expiry _____

Name on Card _____

Security No _____

Billing Address _____

Amount £ _____

(if different to above)

Signature _____

Join the Society for Underwater Technology NOW as a Full Individual Member and you can



Attend this evening meeting **FREE**

The charge for Full Individual Membership is £70 p.a. and payment in full must accompany this application

To become a Full Individual Member of SUT, you must either:

- be aged over 21 years, and
- show a professional interest or experience in the field of underwater technology,
- be a graduate of a recognised university or hold a diploma from a recognised engineering institution or a qualification of comparable status in a relevant branch of science or technology

or:

- have held a post of responsibility in the field of underwater technology for not less than three years

Note: If you are a staff member of an organisation that is a Corporate Member of the Society you can already enjoy all the advertised discounted member rates for meetings and publications.

PLEASE PRINT APPLICATION FORM IN BLOCK CAPITALS OR TYPE

Personal details

First name(s): _____ Surname: _____

Title: Mr Mrs Ms Dr Other _____ Date of birth: / /

Mailing address: _____

Postcode: _____

Tel: _____ Fax: _____ Email: _____

Academic/vocational qualifications: _____

Current employer: _____

Address: _____

Postcode: _____

Tel: _____ Fax: _____ Email: _____

Current position: _____ Date of appointment: / /

Relevant previous employers (with dates and positions held): _____

Interests

- | | | | |
|---|--|--|--|
| <input type="checkbox"/> Diving | <input type="checkbox"/> Underwater vehicles | <input type="checkbox"/> Offshore structures | <input type="checkbox"/> Subsea systems |
| <input type="checkbox"/> Underwater science | <input type="checkbox"/> Underwater robotics | <input type="checkbox"/> Offshore site investigation | <input type="checkbox"/> Environmental forces |
| <input type="checkbox"/> Ocean resources | <input type="checkbox"/> Marine renewable energies | <input type="checkbox"/> Education and training | <input type="checkbox"/> Other (list) Specialising in: |

Payment

- I enclose a cheque £ _____ (allowing for reductions or airmail surcharge) payable to the Society for Underwater Technology
- I wish to pay by Visa/Mastercard/Switch (delete as applicable); please charge to my account

Card number: _____ Issue Number (Switch cards only): _____/_____

Expiry date: / / Start date: / / Security no: _____ Cardholder: _____

Billing address (if not as above): _____

Postcode: _____ Date: / / Signed: _____

Statement

I confirm that, to the best of my knowledge, the details given above are correct. I hereby apply for election to/transfer of membership of the Society for Underwater Technology and agree to abide by the Articles of Association of the Society.

Signed: _____ Date: _____