

SUBSEA PROCESSING

Wednesday 10 June 2009

Bar Opens: 1730 Lecture Start: 1800 Supper: 1930

Hilton Treetops Hotel, Springfield Road, Aberdeen (parking is free)

Some may profess subsea processing has been available for well over a decade ahead of the market drivers; however now the market is here - are we ready to face it!

Chairman: Martin Harley, Pipeline Engineer, Talisman Energy UK Ltd

What are the drivers, challenges and the technology systems readily available

Tony J. A. Laing, General Manager, Framo UK

This presentation shall explore what is subsea processing, explore the drivers and challenges; review how technologies systems have been developed suitable for process fluids in a subsea application. Founded in 1982, Framo Engineering's, indigenous business is subsea processing with 25 systems delivered globally and over 900,000 operating hours; some may suggest this is in its infancy and to some subsea processing is a mature business.

What's going on down there? - The challenges of subsea separation

Graham Barker, Tracerco

For many years accurate level measurement and phase dispersion within multiphase vessels has been a challenge for many Oil & Gas Companies. Viscous crude, inadequate separation and solid deposits all lead to possible errors in level measurement. This discussion talks about the limitation of certain technologies and the reluctance of the oil majors to deploy them sub-sea. It also discusses technology, which for the first time is able to overcome the process challenges and explain how these instruments form an integral part of the sub-sea separation process, allowing enhanced oil recovery.

Subsea Processing and Boosting

Tom-Erik Dahl, Aker Solutions

The presentation will look at the reasons for subsea processing and boosting and an overview of methods and products available today. Then we will look at the main technologies used and under development for subsea water injection and treatment that enable a lot more oil in place to be recovered than would otherwise be possible. Examples of subsea projects will be given for Multiphase pumps and Water injection. Subsea separation and gas compression will also be discussed based on the Ormen Lange Subsea Compression Pilot.

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
Fax: 01224 820236 Email: michele.ross@sut.org Phone: 01224 823637 Online: www.events.sut.org.uk

I will pay by cash cheque credit card We can only invoice for multiple registrations.

Name _____ SUT Member No _____

Company _____

Address _____

Tel No _____ Fax No _____

Email address _____

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

Exp. _____/_____ Security No: _____ Name on the Card _____

Billing Address if not as above _____

Amount to be debited £ _____ 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: / /

