

# Design for Operation - New Developments in Power Cable and Flexible Pipe Technology

Wednesday 10 November 2010

Bar Opens: 1730 Lecture Start: 1800 Supper: 1930

Venue: Hilton Treetops Hotel, Springfield Road, Aberdeen

This evening's event focuses on operational challenges associated with offshore power supply and transmission and transport of sour service fluids using flexible pipes.

A number of recent innovations in design and integrity monitoring will be detailed that meet these operational imperatives.

In addition, this event will provide an opportunity to discuss future power system challenges associated with topical areas such as supply and transmission for renewable energy systems and subsea processing.

**Chairman: Michael O'Sullivan, MCS Kenny**

## The Development of an Anti H<sub>2</sub>S Layer for Flexible Pipe

**Bill D'All, Technip**

Flexible Pipe R&D - development of an Anti-H<sub>2</sub>S layer for use in unbonded flexible pipes.

## Offshore Power Supply and Recovery, Design Challenges for Subsea Cable Systems

**Alan Dobson, DUCO**

A review of the current trend for power supply to serve the needs of subsea pumping and processing as well as the cabling requirements for the expanding offshore renewable energy market, focusing upon parallels between the technology required for deepwater power and typically shallow water renewable energy requirements.

## Integrity Monitoring and Performance Optimisation of Offshore Power Cables

**Donald Thomson, Schlumberger**

An introduction to Distributed Monitoring measurement technologies and their applications for integrity monitoring and optimisation of power transfer in subsea power umbilicals.

## PowerCab JIP: Development of a HV Dynamic Power Cable: Experience and Lessons Learned

**Dr Minoo Patel & Dr Ryan Shields, BPP-TECH**

Powercab JIP: HV dynamic cable engineered for challenging future applications.

### **\*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](http://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.\_\_\_\_\_/\_\_\_\_\_

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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: \_\_\_\_\_

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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:    /    /

