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IT Revolution at the Core of Subsea Networks

Wednesday 18 February 2009

Bar Opens: 1730 Lecture Start: 1800 Supper: 1930

PLEASE NOTE NEW VENUE Hilton Treetops Hotel, Springfield Road, Aberdeen (parking is free)

In recent years there has been a revolution in subsea data systems as technology has developed. The industry now demands more sophisticated instruments, joined up systems and higher bandwidth opening up vast opportunities for the use of common IT system architectures. This session explores how the drilling, subsea and ROV industries have moved away from the limitations of early systems to improve data transmission over wireless, copper and fibre optic networks.

Chairman: Adrian Phillips, VP UK and Global Strategy Controls, Aker Solutions

Developing Advanced Subsea Communications System by Gregor Deans, Subsea Surveillance Business Development Manager, Schlumberger

This presentation will cover a method of providing a dedicated TCP/IP network for subsea control and monitoring systems and the focus on reliability through development and testing of the product. The presentation will detail an alternative solution to subsea monitoring from the traditional 'tree-centric' approach.

IP Centric Subsea Production Control Systems by Richard Carter, R&D Manager, Aker Solutions

The key concept behind the programme is the utilisation of local networks that are inter-connected by optical and/or electrical TCP/IP Routing devices. The local networks, (IEEE 802.3 100/10 Base T(x) Ethernet) provide a fast communications bus that allow a common connection philosophy. Communications redundancy is provided by Standard TCP/IP Routing Technology.

New Generation ROV Control Systems by Donald Faulds, Business Development Manager, Perry Slingsby Systems

ROV control systems use commercial IT but the technology is applied in ways which are unique to the subsea environment. The same principles apply to any subsea remote control applications as seen on Perry Slingsby's latest ICE control system. This is used on new generation ROVs plus some novel new applications in light well intervention, hyperbaric welding pre-heat and platform ballasting.

Techbyte: Wireless Enabled Robotics for Subsea Applications by Brendan Hyland, Chairman, Wireless Fibre Systems

Drilling of subsea wells is highly expensive and even more challenging in deep water or in arctic areas in the search for new un-harvested fields. Through the use of robotics and wireless technologies, innovative Norwegian companies are proposing and developing a completely automated and remotely controlled deep sea drilling rig.

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.

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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*: _____

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Academic/vocational qualifications: _____

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Postcode: _____

Tel: _____

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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: |

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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.

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Date: / /

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