

Advancements in Subsea Control Systems Technology

Wednesday 12th August 2009

Melbourne Hotel (John De Baun Room), Corner of Hay & Milligan Street, Perth

Registration / Bar Opens 5:30pm: Presentations Start at 6:00pm: Drinks and Canapés 7:30pm

Chaired by: **Harry Mackay**, Subsea Systems Engineer, Woodside Energy Ltd.



Advances in Subsea Electronics:



Critical components for next generation subsea fields enable delivery of increased oil recovery

Jian-Paul Nuzzo, Applications Engineer, Production Control Systems, GE Oil & Gas

Modern subsea technology and communications advances offer great improvements in data bandwidth for smart subsea oil & gas applications. This talk will include a full overview of GE Oil & Gas' latest generation subsea electronics module, SemStar5 - an open architecture, fully ruggedized & compatible product building on over 25 years of subsea design heritage and with obsolescence mitigation strategies built in as standard. Key design drivers, features and an overview of the application of SemStar5 will be shared during this talk.

Managing Obsolescence and New Technology Requirements



Tim Stuart, Sales and Marketing Manager, Aker Solutions

Demand for technology improvements in subsea communications together with constant change and advances in electronics and software technology must be balanced with long service life requirements of subsea systems. Akers approach to design of the next generation of subsea control electronics provides a flexible platform for management of obsolescence as well as delivering new technology requirements for current and future systems.

New Subsea Data Networking and Control Solutions



Parallel System for Improved Intelligent Well Control, Monitoring and Reliability

Stuart Mackay & Jon Machin, Schlumberger Subsea Surveillance

Subsea Surveillance

A new approach allows a parallel intelligent-well subsea control system to be tailored specifically for the well completion and monitoring equipment. A subsea electro-hydraulic module provides hydraulic control and monitoring for multiple intelligent-well flow control choke valves and permanent, downhole pressure and temperature gauges in each well. Additionally, a subsea communications and control module allows additional non-production critical sensors such as multiphase flowmeters, sand detectors, optical sensors, etc. to be connected to surface over a subsea TCP/IP network. The parallel system thus reduces the project customization requirements of the tree controls and permits standardization of the production critical system.

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