Operating Subsea Production Systems 29th March 2017

Cliftons — Parmelia House 191 St Georges Tce, Perth



Subsea production is not a new concept; however, advances in subsea technologies continue to enhance the economic development of offshore exploration discoveries in all water depths. Crucial to the economic success of such developments is the need to understand the consequences of one's actions. This one-day course is aimed at creating an awareness of the applications of subsea equipment and plant, how subsea equipment is operated, the vulnerabilities to which it is susceptible, the requirements to continuously inspect, maintain and repair and the consequences of equipment downtime and lost production.

PROGRAMME:

08.30 Registration

08.40 Course starts

08.45 General Introduction to Subsea Production systems

Ross Hendricks, TechnipFMC

Components of subsea systems, the "building blocks". The purpose of each element and how they fit into the overall system.

09.45 Operating Strategies/practices

James Holbeach, Wood Group Kenny

Overall system operation for subsea tie-backs in oil / gas condensate developments. Differences in System operational control schemes (eg. FLNG vs Conventional LNG vs. Domestic Gas). Typical pressure, temperature & compositional operating envelope considerations. Flow rate control and liquid management. Hydrate & Wax mitigation and remediation strategies. Planned and unplanned transient operations (eg. field start-ups/shut downs)

11.00 Coffee/Tea

11.15 Operating Subsea Systems

David Thain, Woodside Energy Ltd.

A short overview of operating a subsea system, from well start up through the operating phase to well shutdown. What information is readily available, how to interpret it, to ensure a safe, smooth and efficient operation.

12.00 Vulnerabilities - What could go wrong?

Kevin Ingram, Chevron Australia

Explanations of the vulnerability of subsea hardware to the following:

Hydrates, waxes & scale, causes & remedies Control Fluid Cleanliness; Incompatible Fluids

Insulation Resistance; Gas Ingress & condensing water

Technology Obsolescence

Reliability, redundancy & flexibility

Dragged & dropped objects - Fishing activity

Corrosion/erosion

Marine environmental influences - temperature, internal water motions, marine growth.

13.00 Lunch

13.30 Managing Subsea Assets

Brian Purvis, Woodside Energy Ltd.

This session discusses the management of subsea operations by describing the following: Operations in the Asset Lifecycle; Subsea Operators Goals; and Key Elements to these Achieve Goals. This includes examples of existing subsea infrastructure, operations and maintenance roles & team structures including indicative costs.

14.30 Inspection, Repair and Maintenance

Norman Mackay, DOF Subsea

The need for IRM and how it is carried out, exploring: Diver intervention; ROV & Survey Capabilities; IRM Vessels; Inspection and survey systems; AUV Systems; Integrity management: Planning and Timing. Procedure development; Case study examples

15.30 Coffee/tea

15.45 Advanced Systems

Paul Farquharson, GE Oil & Gas

Production modelling & Operator Simulators Subsea Separation Subsea Compression Direct Seawater injection

16.45 Certification & Course Conclusion

SUT reserves the right to change/amend the programme as it sees fit.







Pictures courtesy of FMC Technologies Australia

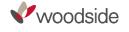












Registration Information

Operating Subsea Production Systems Mar 2017

Should you require further information on this event, please contact Jennifer Maninin on j.maninin@sut.org Tel +61 8 9481 0999

To register please e-mail the information required on the registration form to perthevents@sut.org

To register please e-mail the information required on the registration	on form to perthevents@sut.org
Registration Fees SUT Members Early Bird (register and pay before 1st March) SUT Members (registration after 1st March) Non Members Early Bird (register and pay before 1st March) Non Members (registration after 1st March) Fee includes - All refreshments and an electronic copy of the availa	\$400.00 + GST = \$440.00 \$454.55 + GST = \$500.00 \$472.73 + GST = \$520.00 \$536.36 + GST = \$590.00 ble presentations and videos are provided.
Not included - Hard copy presentations are not provided. Should these be required there is an additional fee of \$60.	
Preferred Payment Methods: Credit Card: Visa, Mastercard or AMEX only *. We cannot accept * Payment by Visa or MasterCard will carry a 1.5% surcharge / AM	
Invoice: Please tick here to be invoiced	
Joining Instructions: Joining instructions will be e-mailed to the registered delegate (as supdates to the programme will be included in the joining instruction	
Transport During the Course: Delegates are responsible for their own travel arrangements at the beginning and end of each day. Cancellations: Refunds will be made on written cancellation received up to ten working days prior to the event, but will be subject to a 15% administration charge. Cancellations received 9—4 working days prior to the event will be charged a 50% cancellation fee. Cancellations received 3—0 working days prior to the event will not be refunded. Delegates may wish to nominate a substitute in their place at no charge.	
Please tick box if you do not wish to receive further SUT information	
Registration Form	
Please e-mail completed form to perthevents@sut.org	
Please tick to indicate your preferred payment method:	SUT Member No
Credit Card (Visa, MasterCard or AMEX only)*	Invoice (PO No.)
Name	Please tick here if personally funding course
Company	
Address	
E-mail address	Tel No
Credit Card No: visa, mastercard or amex only */	
Exp / Security no (3	3 digit number for visa & m/c, 4 digit number for amex)
Name on the card	
Billing Address if not as above	
E-mail address where receipt should be sent for credit card p	ayment
Amount to be charged \$ Signature	