

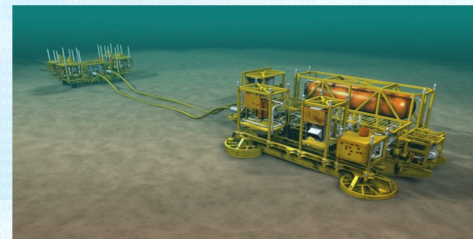
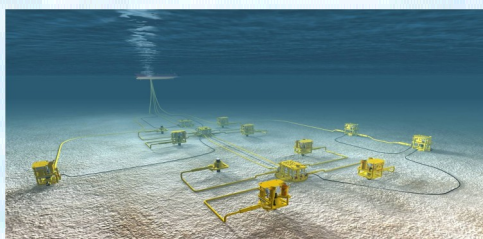
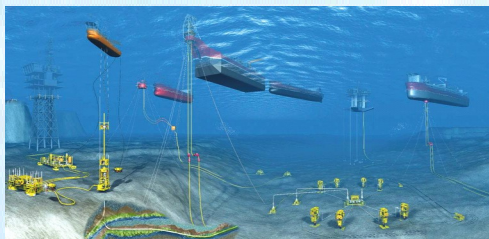
# Operating Subsea Oil & Gas Production Systems



27th April 2016

Cliftons – Parmelia House  
Level 4, 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.



Pictures courtesy of FMC Technologies Australia

## PROGRAMME

### 08.30 Registration

### 08.40 General Introduction to Subsea Production systems

*Guillaume Allegret, Technip Oceania*

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

### 09.30 Managing Subsea Assets

*Brian Purvis Woodside Energy Ltd.*

Examples of existing subsea infrastructure.  
The extent of production from subsea wells  
Indicative subsea maintenance costs  
Examples of engineering, operations and maintenance roles & team structure.

### 10.30 Coffee/Tea

### 10.45 Operating Strategies/practices

*James Holbeach, Wood Group Kenny*

Operation of subsea tie-backs on typical oil & large gas/condensate developments  
Pressure, Temperature & compositional operating developments  
Flow control and liquid management  
Hydrate & Wax mitigation strategies  
Hydrate remediation strategies  
Planned and Unplanned field start-ups/shut downs  
Pigging operations

### 12.00 Lunch

### 12.30 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.

### 13.15 Vulnerabilities - What could go wrong?

*Ewan Rowell, 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.

### 14.15 Coffee/Tea

### 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; Integrity management: Planning, Timing, Permits & Isolations; Platform liaison; Procedure development; Case study examples

### 15.30 Advanced Systems

*Caspar Lewis, GE Oil & Gas*

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

### 16.30 Certification & Course Conclusion

Presenting Companies Include:

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



GE Oil & Gas



WOOD GROUP  
KENNY



woodside

## Registration Information

Operating Subsea Oil & Gas Production Systems Apr 2016

Should you require further information on this event, please contact Jennifer Maninin on [j.maninin@sut.org](mailto: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](mailto:perthevents@sut.org)

### Registration Fees

**SUT Members (register and pay before 30th March) \$400.00 + GST = \$440.00**

SUT Members (registration after 30th March) \$454.55 + GST = \$500.00

**Non Members (register and pay before 30th March) \$472.73 + GST = \$520.00**

Non Members (registration after 30th March) \$536.36 + GST = \$590.00

**Fee includes** - All refreshments and an electronic copy of the available presentations.

**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 any other card.

\* Please note if paying by AMEX there will be a 2.75% surcharge.

**Invoice:** Please tick here to receive an invoice

### Joining Instructions:

Joining instructions will be e-mailed to the registered delegate (as shown on the registration form). All details of presenters and updates to the programme will be included in the joining instructions. Please bring along a laptop to view the presentations.

### Transport During the Course:

Delegates are responsible for their own travel arrangements at the beginning and end of the day.

**Cancellations:** Refunds will be made on written cancellation received up to ten working days in advance of the event, but will be subject to a 15% handling charge. 50% will be deducted up to three working days in advance and 100% thereafter up to the start of the event. No refund will be given for non-attendance. Delegates may wish to nominate a substitute in their place.

**CPD Hours:** CPD hours can be claimed for this course, please keep flyer and receipt for auditing purposes.

Please tick box if you do not wish to receive further SUT information

## Registration Form

Please e-mail completed form to [perthevents@sut.org](mailto:perthevents@sut.org)

Please tick to indicate your preferred payment method: \_\_\_\_\_ SUT Member No. \_\_\_\_\_

Credit Card \_\_\_\_\_ (Visa or MasterCard or AMEX\* ) Invoice (PO No.) \_\_\_\_\_

Name \_\_\_\_\_ Please tick here if personally funding course

Company \_\_\_\_\_

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Credit Card No: Visa, MasterCard or AMEX\* \_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_

Exp. \_\_\_\_\_ / \_\_\_\_\_ Security no \_\_\_\_\_ (last 3 digits on the back of your card)

Name on the card \_\_\_\_\_

Billing Address if not as above \_\_\_\_\_

E-mail address where receipt for credit card payment should be sent \_\_\_\_\_

Amount to be charged \$ \_\_\_\_\_ Signature \_\_\_\_\_