Subsea Controls
Down Under Conference
19th & 20th October 2016
Parmelia Hilton Hotel, 14 Mill Street, Perth, Western Australia

This international conference in the field of Subsea Controls and Umbilicals is aimed at those engaged in remote control and monitoring of subsea systems. This conference provides a unique forum for the supplier and operator of subsea technology to exchange views and experiences.

The aim of this particular conference is to bring together the many diverse disciplines engaged internationally in Subsea Controls and Umbilical technology, to share experiences gained by discussing regional challenges, as well as new advances in global subsea technology. For this conference the theme will be “Enhancing Value for the Future: Lessons Learned and New Technologies”, showcasing ways of bringing new ideas and technology to provide operational cost savings plus understanding from an operator’s viewpoint how we can learn from experiences locally and internationally.

Major Sponsors:
Keynote Presenter: Sean Salter, Vice President Technology – Woodside Energy Ltd

Sean was appointed as Vice President Technology in 2015. He has over 27 years’ experience in the oil & gas industry, 25 as a Subsea & Pipeline engineer.

Sean is responsible for the identification, development and maturation of technology (across the breadth of business) that can provide Woodside with strategic advantage.

Sean joined Woodside in 2004 and has been responsible for the development of Woodside’s Subsea & Pipeline capability. Prior to joining Woodside, Sean worked for Shell International for 15 years in the North Sea, Gulf of Mexico, Brazil and West of Africa.

Session Chairs Include:

- Helena Forsyth, Principal Subsea Operations Engineer, INPEX
- David Keilty, SEV Team Lead, ABU Technical Authority – Subsea Control Systems & Umbilicals, Chevron Australia
- Harry Mackay, Subsea Package Lead, Subsea & Pipelines Function, Woodside Energy Ltd.
- Derek Thomson, Subsea Systems Lead – Prelude FLNG Project, Shell Australia

Ice Breaker Function
Date: Tuesday, 18th October 2016
Time: 6.00 pm - 9.00 pm
Venue: River Cruise (depart Barrack Street)
Cost: as per page 4
Details: Enjoy an evening cruise along the Swan River aboard the MV River Bells.

Conference Drinks
Date: Wednesday, 19th October 2016
Time: 5.10 pm – 6.10 pm
Venue: Parmelia, Hilton
Costs: as per page 4
Details: Enjoy post-conference drinks & canapés at the end of Day 1 of the conference

SEA Suppliers Forum
Date: Thursday, 20th October 2016
Time: 5.15 pm – 7.00 pm
Venue: Parmelia, Hilton
Costs: as per page 4
Details: At the end of Day 2, Subsea Energy Australia will host the 7th Annual Subsea Suppliers Forum. Thursday conference participants are invited to attend to meet and talk with industry in an informal atmosphere as well as celebrate the conference over drinks and canapes.

Conference Organising Committee:

Ross Hendricks
FMC Technologies

Harry Mackay
Woodside Energy Ltd

Julien Levdoux
OneSubsea

Derek Thomson
Shell Australia

Harvey Smith
Woodside Energy Ltd

Paul Upjohn
ATV spa
### DAY ONE, Wednesday, 19 October 2016

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>08:30</td>
<td>Registration and coffee</td>
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<tr>
<td>09:00</td>
<td>Welcome by Julie Morgan, SUT Perth Branch Chair</td>
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#### Session A: Keynote, Big Data 1 & Upgrade / Obsolescence 1
**Chairperson:** Harry Mackay, Woodside Energy Ltd

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>09:05</td>
<td>Keynote: Technology Disruption, Data Science &amp; Subsea</td>
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<tr>
<td>09:30</td>
<td>Effect of Condition Monitoring System on Availability of Subsea Equipment</td>
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<tr>
<td>09:55</td>
<td>Integrated solution for Operational Metering, Surveillance and Condition Based Maintenance</td>
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<tr>
<td>10:20</td>
<td>Morning Tea</td>
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<tr>
<td>10:50</td>
<td>DC/FO, A Lean and Powerful DC Subsea Control Infrastructure</td>
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<tr>
<td>11:15</td>
<td>System Sustainability &amp; Obsolescence Management, the foundation for optimised life of field partnership</td>
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<td>11:40</td>
<td>Power Buoy – Alternative Development Scenario with Minimal Umbilicals</td>
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<td>12:05</td>
<td>Lunch</td>
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#### Session B: All Electric 1 & Measurement 1
**Chairperson:** David Keilty, Chevron Australia

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>13:05</td>
<td>Panel Discussion: David Barker, Woodside Energy; David Keilty, Chevron Australia; Julien Levadoux, OneSubsea &amp; Jesper Marstrand, Shell Australia</td>
</tr>
<tr>
<td>13:35</td>
<td>Understanding Electric Actuation Technology and its Impact on Subsea Projects</td>
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<tr>
<td>14:00</td>
<td>Subsea Electric Systems Enter a New Era</td>
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<tr>
<td>14:25</td>
<td>DigiTRON3 – Providing a Compact Cost Effective Electrical Connector Solution Where You Need It Most</td>
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<tr>
<td>14:50</td>
<td>Afternoon Tea</td>
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<tr>
<td>15:20</td>
<td>Integrating &amp; Operating A New Salinity Measurement System As Part of A Wet Gas Meter – Experiences from an Australian Pilot</td>
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<tr>
<td>15:45</td>
<td>Increased Performance and Safety by Means of Subsea Instrumentation</td>
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<tr>
<td>16:10</td>
<td>Managing Flowl ine Buckling and Walking with Real time Position Monitoring</td>
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<tr>
<td>16:35</td>
<td>Oil / Water / Sand Quality Measurement – The Key Enabler for Subsea Separation Development</td>
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<td>17:00</td>
<td>Discussion and Day Wrap Up</td>
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### DAY TWO, Thursday, 20 October 2016

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<tr>
<td>08:00</td>
<td>Registration and coffee</td>
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<td>08:30</td>
<td>Welcome by Paul Upjohn, ATV spa.</td>
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#### Session C: All Electric 2 & Measurement 2
**Chairperson:** Derek Thomson, Shell Australia

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<tbody>
<tr>
<td>08:35</td>
<td>Subsea All-electric Technology: Now Available for the Future Field Developments</td>
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<tr>
<td>09:00</td>
<td>Increasing Shareholder Value with Subsea Electric Actuation Systems</td>
</tr>
<tr>
<td>09:25</td>
<td>The Subsea Internet of Things</td>
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<tr>
<td>09:50</td>
<td>On Umbilicals’ and Power Umbilicals’ Sensitivity to the Ambient Temperature</td>
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#### Session D: Big Data 2 & Upgrade / Obsolescence 2
**Chairperson:** Helena Forsyth, INPEX

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<tr>
<td>13:00</td>
<td>Panel Discussion: Marc Campbell, INPEX; John Lovas, FMC Technologies; Sylvain Lyonne, Woodside Energy; &amp; Lauchlan Wallace, Woodside Energy</td>
</tr>
<tr>
<td>13:30</td>
<td>Subsea and Topsides Controls Integration: The New MDIS Integration Standard</td>
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<tr>
<td>13:55</td>
<td>Data Analytics – Operational Technology &amp; ‘Big Data’ analytics starts with Machine Knowledge</td>
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<tr>
<td>14:20</td>
<td>V-LIFE: A Technology for the Rejuvenation of Subsea Insulation Resistance Failures</td>
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#### Session Discussion & Closing Remarks
**Chairperson:** Julie Morgan, SUT Perth Branch Chair

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<tr>
<td>16:30</td>
<td>Session Discussion &amp; Closing Remarks, Julie Morgan, SUT Perth Branch Chair</td>
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<tr>
<td>16:50</td>
<td>SEA Forum</td>
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Subsea Controls Down Under
19th & 20th October 2016
Registration Form

Fee includes:
Attendance at technical sessions, USB of conference proceedings, delegate wallet, morning and afternoon tea, lunch and social function/s on the day/s you attend the conference.

Ice Breaker:
Is included with 2 day conference passes. Those purchasing a 1 day conference will be required to purchase a ticket to the Ice Breaker as per cost below. Please note places are limited at this function.

Joining instructions:
Joining instructions will be e-mailed to each registered participant sent prior to the conference.

Conference Proceedings:
PDF Presentations will be compiled on a USB and will be given upon registration onsite.

Venue:
Parmelia Hilton Hotel (Swan Room), Mill Street, Perth, Western Australia, 6000

Accommodation:
Delegates are required to make their own hotel reservations. Further details will be supplied in the joining instructions.

Dress Code:
Smart-casual

Cancellations:
Refunds will be made on written cancellation received up to 20 working days prior to the event but will be subject to a 15% administration charge. Cancellations received 19-5 working days prior to the event will be charged a 50% cancellation fee. Cancellations received 4-0 working days prior to the event will not be refunded. Delegates may wish to nominate a substitute in their place at no charge.

Please select your technical conference type and the social functions you wish to attend:

Technical Conference 2 Day Pass:
☐ Member ($550) ☐ Non-member ($600) ☐ Student ($350)
☐ Presenter ($275) ☐ Co-Presenter ($450)

Select social function/s:
☐ Ice Breaker (n/c) ☐ Conference Drinks (n/c) ☐ SEA Forum (n/c)

Technical Conference 1 Day Pass:
☐ Member ($325) ☐ Non-member ($375) ☐ Student ($195)
☐ Presenter (n/c) ☐ Co-Presenter ($245)

Ice Breaker:
☐ Member/Student/Presenter/Co-Presenter ($77) ☐ Non-member ($99)

Select day / social function:
☐ Wed ☐ Conference Drinks (complimentary if attending Wednesday)
☐ or
☐ Thurs ☐ SEA Forum (complimentary if attending Thursday)

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) *

Name ___________________________________________ Position ______________________________

Company ___________________________________________

Address _____________________________________________________________________________________________________________________________________________________________

Phone no. ______________________ E-mail address ______________________________

Dietary Requirements

Credit Card No: VISA, MASTERCARD or AMEX* __________/__________/__________/__________ Exp. ________/__________

Security no _________ (3 digits for visa & m/c, 4 digits for amex) * Payment by Visa or MasterCard will carry a 1.5% surcharge / AMEX will carry a 2.75% surcharge.

Name on the card ________________________________________________

Billing Address if not as above ________________________________________________________________

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

Amount to be invoiced $________________________ E-mail address where invoice should be sent __________________________

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