Are you new to subsea or unfamiliar with corrosion considerations?

This two-day course has been specifically designed for people new to subsea or unfamiliar with the various corrosion considerations which need to be applied during design, construction and operation of subsea assets. The course will cover the following topics:

- Overview of corrosion issues
- Corrosion & Erosion Modelling
- Chemical Selection, Injection & Inhibition
- Specification, Fabrication & Welding
- Cathodic Protection & Coatings
- Operational Integrity & FFS
- Planning and Implementation of Inspection & Monitoring
- Service Facility Site Visit
- Curtin Corrosion Centre Site Visit

WHY WILL THIS COURSE BENEFIT YOU?

The aim of this course is to provide an overview of the various materials and corrosion issues which are applicable to subsea structures. The choices made which impact one area of corrosion and integrity will often impact the choices in other areas, and also affect the long term inspection and monitoring which may be required to ensure the design life is met.

Having a general overview of the interaction between the various factors and the impact that certain choices make and the equipment used in inspecting and monitoring the structures will provide attendees with a broad knowledge on the interaction which needs to be considered in any installation.

PRESENTERS

The course will be presented by experienced personnel from both the supply and subsea industries. Most of the course will be held in a classroom environment, with the session being interactive, with every opportunity to ask questions and discuss the material presented as well as a couple of site visits to relevant facilities.
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Presenter</th>
<th>Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td>08.30</td>
<td>Registration</td>
<td></td>
<td></td>
</tr>
<tr>
<td>09.00</td>
<td><strong>Introduction &amp; Overview</strong></td>
<td>Grahame Strong, CCE</td>
<td>Overview &amp; setting the scene. Operating conditions for equipment. Basic mechanisms of corrosion. Effects of elevated temperature, CO2, H2S, sand, seabed topography &amp; choice of material.</td>
</tr>
<tr>
<td>09.45</td>
<td><strong>Corrosion &amp; Erosion Modelling</strong></td>
<td>Chris Selman, Wood</td>
<td>Models available to model effects of CO2, H2S &amp; sand production on internals of pipelines. Advantages, disadvantages &amp; limitations of models.</td>
</tr>
<tr>
<td>11.15</td>
<td>Morning Tea</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.30</td>
<td><strong>Chemical Selection, Injection &amp; Inhibition</strong></td>
<td>Nathan Jensen, ChampionX</td>
<td>Types of inhibitors for oil &amp; gas subsea production systems. Selection &amp; qualification of inhibitors. Top of line corrosion management Downstream process impacts.</td>
</tr>
<tr>
<td>13.00</td>
<td>Lunch Break</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13.45</td>
<td><strong>Specification, Fabrication &amp; Welding</strong></td>
<td>Niekie Jooste, The WeldNet</td>
<td>Materials used in subsea &amp; welding related issues Types of welds / Heat treatment / Metallurgy of welds Differences between fabrication for subsea &amp; topsides Limitations imposed on welding offshore pipelines Testing welds</td>
</tr>
<tr>
<td>15.15</td>
<td>Afternoon Break</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15.30</td>
<td><strong>Cathodic Protection &amp; Coatings</strong></td>
<td>John Grapiglia, CCE</td>
<td>Codes &amp; standards in design of CP systems Factors affecting performance of CP systems Issues related to CP &amp; the interaction with coating systems</td>
</tr>
<tr>
<td>17.00</td>
<td>End Day 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>17.30</td>
<td>Course Dinner</td>
<td></td>
<td></td>
</tr>
<tr>
<td>08.30</td>
<td>Operational Integrity &amp; FFS</td>
<td>Colin Radici, Rosen</td>
<td>Pipeline pigging Codes &amp; standards for defect assessment/repair Types of pigs, their benefits Data collection &amp; how it’s processed Limitations affecting intelligent pigging &amp; pipeline design</td>
</tr>
<tr>
<td>10.00</td>
<td>Morning Tea</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10.15</td>
<td>Planning &amp; Implementation of Inspection &amp; Monitoring</td>
<td>Zach McConn, Sonomatic</td>
<td>Issues affecting subsea structures Types of inspection ROV types, inspections &amp; tooling ROV capabilities &amp; regulatory requirements for inspection What data is required to perform thorough inspections? Other forms of inspection (divers etc)</td>
</tr>
<tr>
<td>11.45</td>
<td>Lunch</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.30</td>
<td>Depart for site visit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>17.00</td>
<td>Course Conclusion (time is approximate)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SUT reserve the right to amend the course programme as required.**
REGISTRATION FORM

SUT Membership Number

Full name

Job title

Organisation/company

Address

City

County

Postcode

Telephone

Email

Signature

Course fees: (please tick)

- Early Bird* Member: $1090 AUD
- Early Bird* Non-member: $1300 AUD
- Member: $1360 AUD
- Non-Member: $1620 AUD
- Student Member: $440 AUD

*Early Bird rates apply to all bookings paid by 1 June 2021. All bookings received from 2 June 2021 will be charged at the standard rate. Rates include GST at standard rate.

Terms & Conditions 2021: Refunds will be made on written cancellation received up to 10 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 send a substitute in their place at no charge. Should there be any COVID related shutdowns that impact this course it will be run online instead of in person. Please note, direct competitors of site inspection hosts will be unable to participate in this component of the course.

PAYMENT INFORMATION:

Please invoice (PO NO.) ☐

or

Credit Card ☐

Credit card Mastercard, Visa or AMEX* ONLY.

*Payment by AMEX will carry a 2.75% surcharge, Visa a 1.5% surcharge.

- Amex ☐
- Mastercard ☐
- Visa ☐

Card number

Card holder’s name

Signature

Card holder’s name

Start date

Expiry date

Issue number

Security Code (last 3 digits on the back of your card)

Email address to send receipt

☐ Please tick here if you do not want to receive our weekly newsletter.

Please submit your registration to:

Renae Drew
Tel: +61 (0) 8 9481 0999
Email: perthevents@sut.org

Images courtesy of ChampionX