

Materials & Corrosion

An Awareness Course



Image courtesy of ChampionX

Wednesday 26 - Thursday 27 July 2023

Wood Offices, Perth CBD

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

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.



Thank you to the presenting companies:











/ood

COURSE SCHEDULE

WEDNESDAY 26TH JULY

08.30 Registration

09.00 Introduction & Overview

Grahame Strong, CCE Overview & setting the scene. Operating conditions for equipment. Basic mechanisms of corrosion. Effects of elevated temperature, CO2, H2S, sand, seabed topography & choice of material.

09.45 Corrosion & Erosion Modelling

Chris Selman, Wood

Models available to model effects of CO2, H2S & sand production on internals of pipelines. Advantages, disadvantages & limitations of models.

11.15 Morning Tea

11.30 **Chemical Selection, Injection & Inhibition** Hui Yian Tan, ChampionX Types of inhibitors for oil & gas subsea production systems. Selection & qualification of inhibitors. Top of line corrosion management Downstream process impacts.

13.00 Lunch Break

13.45 Specification, Fabrication & Welding

Matt Lancien, SPEC

Materials used in subsea & welding related issues Types of welds / Heat treatment / Metallurgy of welds Differences between fabrication for subsea & topsides Limitations imposed on welding offshore pipelines Testing welds

15.15 Afternoon Break

15.30 Cathodic Protection & Coatings

ohn Grapiglia, CCI

Codes & standards in design of CP systems Factors affecting performance of CP systems Issues related to CP & the interaction with coating systems

17.00 End Day 1

17:30 Course Networking event, The Terrace Hotel

THURSDAY 27TH JULY

08.30	Operational Integrity & FFS
	Colin Radici, Rosen
	Pipeline pigging
	Codes & standards for defect assessment/repair
	Types of pigs, their benefits
	Data collection & how it's processed
	Limitations affecting intelligent pigging &
	pipeline design

10.00 Morning Tea

10.15 Planning & Implementation of Inspection & Monitoring

Irene Pettigrew, EnerMech

Issues affecting subsea structures Types of inspection ROV types, inspections & tooling ROV capabilities & regulatory requirements for inspection What data is required to perform thorough inspections? Other forms of inspection (divers etc)

11.45 Lunch

12.30 **Course Conclusion (time is approximate)**

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

REGISTRATION FORM

SUT	Membership	Number
-----	------------	--------

Full name

Job title

Organisation/company

Address

County

Telephone

Email

Signature

Course fees: (please tick)

Early Bird* Member			
Early Bird* Non-member			
Vember			
Non-Member			
Student Member			

\$900 AUD \$1072 AUD \$1121.25 AUD \$1335 AUD \$ 360 AUD

City

Postcode

*Early Bird rates apply to all bookings paid by 19 July 2023.

All bookings received from 20 July 2023 will be charged at the standard rate. Rates include GST at standard rate.

Terms & Conditions 2023: 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.

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

Onsite parking available at the venue for \$15/day



