



OSIG Perth Movie Night: From ASSESS to OPERATE

Wednesday 27 September, 2017 – The University of Western
Australia, Indian Ocean Marine Research Centre (IOMRC)
Auditorium, Crawley



Networking over drinks/finger food 5.30 pm – 6.00 pm: Presentations 6.00 pm – 8.00 pm: Networking over drinks 8.00 pm – 9.00 pm

To register for this free event visit www.eventbrite.com.au/OSIGpMovieNight

Chaired by Chris Haykin, Senior Geotechnical Engineer, Woodside Energy

Great Australian Bight Deepwater Marine Program: *Andy Ross (CSIRO)*

Following on from the movie presented last year, this movie will track the research conducted by CSIRO in the Great Australian Bight during the last 12 months. Recent investigations have deployed a range of bespoke tooling in a challenging and remarkable environment to bring back images and samples from a world we are only just beginning to understand.

GWF-2 MODU Pile Installation: *Rick Gillinder (Fugro-TSM)*

In 2016 a set of anchor piles, comprising a combination of drilled and grouted and drive-drill-drive piles, were installed on the NWS at two MODU mooring centres. Follow the journey from design, fabrication and ultimately installation of these piles; the largest drilled and grouted piles installed from a DP vessel in Australia and the only known installation of Dive-Drill-Drive piles from a DP vessel. This video presents the project highlights and challenges including the design of a bespoke drill tower, in-field drilling operations and subsea pile installation.

Prelude FLNG: *Jan Flynn (Shell Australia Pty Ltd)*

The Prelude FLNG facility has just arrived at its location after a journey of nearly 6000 kilometres, the Prelude field, 475km North-North East of Broome. It is 488metres long and 74 metres wide, making it the largest floating facility ever built. It has 260,000 tonnes of steel, around five times the amount of steel used to build the Sydney Harbour Bridge. But first the project team must moor the largest floating facility ever built.

A Journey Along a North West Shelf Pipeline: *Simon Leckie (Arup)*

Pipeline embedment affects pipeline stability, thermal expansion management, flow assurance and pipeline integrity. This movie will present a journey along a pipeline on Australia's North West Shelf, observing the changes in pipeline embedment and spanning that occur over the years as a result of sediment mobility. Spatial and time dependant changes will be explored – along with the forces driving these changes.

Remote Intelligent Geotechnical Seabed Surveys (RIGSS JIP) – The first offshore deployment of shallow penetrometers: *Sam Stanier, Raffaele Ragni & Henning Mohr (UWA)*

In early-2017, UWA joined Fugro and Shell during a pipeline survey in the Browse Basin. Onboard, UWA researchers performed the first offshore shallow penetrometer tests – which are designed to mimic shallowly embedded seabed pipelines – in order to probe the interface friction properties that are required in pipeline design. This video will provide a snapshot of life onboard the vessel from the perspective of the UWA staff and a summary of the challenges faced in successfully taking research grade equipment offshore on a live commercial project.

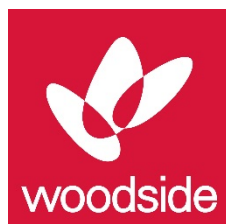
Transformational research for Offshore Floating Facilities: *Andrew Grime, OFFshore ITRH*

The Industrial Transformation Research Hub for Offshore Floating Facilities (OFFshore ITRH), established in April 2016, is a 5-year collaborative multi-disciplinary research initiative that has been set up to tackle the critical engineering challenges for offshore oil and gas projects within five key areas, stretching from seabed to sky. It is jointly funded by both the Australian government and by industry (Shell, Woodside, Bureau Veritas and Lloyds Register). Example videos of the first year of research activity will be presented.

2.0 CPD hours can be claimed for this SUT event.

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