

Thursday, 17th May 2018 – The Basement @ Rigby's, St George's Terrace, Perth

Registration 5:30 PM **Networking over finger foods** 5:30 PM – 6:00 PM and from 8:00 PM; **Presentations** 6.00 PM – 8:00 PM

The Offshore Site Investigation and Geotechnics (OSIG) Group is a special interest group of the Society for Underwater Technology (SUT). We promote technical advancement and knowledge sharing amongst academics and practitioners in the fields of geology, geophysics, geomatics and geotechnical engineering.

Chaired by: Damon Sunderland, Senior Engineering Geologist, Arup

\$30 for SUT members/students & \$50 for non-members.

Please register at www.OSIGpSelections17May2018.eventbrite.com.au

This event features an OSIGp selection of papers by Perth-based presenters from the 2017 OSIG Smarter Solutions for Future Offshore Developments Conference held in London in September 2017

3D exploration seismic data for optimising site investigations – Barossa field case study

D.M. Sunderland, ARUP Perth; A. Lane, NGI Perth

Synopsis: This presentation will describe the interrogation of a regional 3DX seismic volume at the Barossa field to create a preliminary geological model, which enabled significant optimisation of subsequent shallow geophysical and geotechnical surveys. This allowed offshore fieldworks to focus on geological features of particular interest to siting and foundation design from the outset.

Scour and erosion effects in offshore geotechnics

H.J. Luger, G. Hoffmans, T. Raaijmakers, Deltares; A. Borges Rodriguez, NGI Perth; H. Krisdani, B. Spinewine, Fugro; S. Leckie, ARUP, R. Whitehouse, HR Wallingford, P. Watson, S. Draper, University of Western Australia

Synopsis: This presentation will describe the link between the topics of offshore geotechnics and scour and erosion. Insight will be given on commonly occurring erosion mechanisms and how they may be dealt with in offshore structure design. A few examples will be presented to illustrate relevant phenomena can influence design/performance of offshore structures.

Geohazards of the North West Shelf, Australia.

P. Hogan, I. Finnie, Fugro; S. Tyler, Woodside & J. Hengesh, Interface Geoconsulting

Synopsis: This presentation will describe the dominant active geohazard processes on the North West Shelf (NWS) as well as the investigative approaches, analytical techniques, and geohazard interpretations commonly used to assess these hazards. The use of a diagnostic integrated geoscience approach, combined with prognostic modelling and appropriate engineering design, is emphasised.

Installation response of 5.5m diameter anchor piles in carbonate soils – the Ichthys development.

N. Boylan, NGI Perth, A. Roux, J-L, Colliat-Dangus, Total & A. Sato, INPEX Australia

Synopsis: This presentation will provide a review of the installation of 5.5m diameter anchor piles for the Ichthys development. The general design assumption, installation response of the piles and performance of free-fall arrestors used to control the descent of the piles, will be discussed alongside comparisons of the design predictions to the observed installation response.

Hold-back anchor piles with free-fall potential on the Australian North West Shelf

M. Banimahd, F.C. Chow, S. Tyler & M. Senders, Woodside

Synopsis: This presentation presents the design and installation of a set of hold-back anchor piles designed to mitigate pipeline walking on the North West Shelf. The constraints and factors influencing the developed anchor pile solution, which incorporated innovative mudmat 'stoppers' to prevent over-penetration, will be discussed along with a summary of observations made during pile installation.

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(2.0 CPD hours can be claimed for this event.
Please keep flyer and receipt
for auditing purposes.)

Should you have any questions please contact OSIGp on + 61 4 1426 0400 or email sam.stanier@uwa.edu.au

Society for Underwater Technology – Perth Branch

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