

OSIGp Selections of OTC 2016

Report on OSIGp Evening Event

The University of Western Australia, 7 July 2016



By Michael Cocjin, OSIGp Committee Member

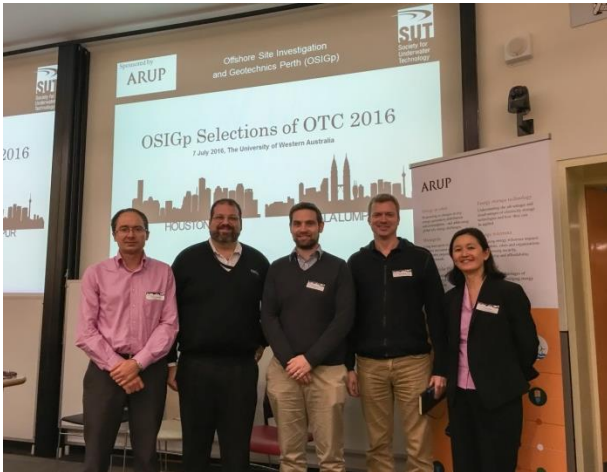


Photo: OSIGp Selections of OTC 2016 presenters: Vincent, Leon, Noel and Dave, with OSIGp Chair, Fiona (left to right).

OSIGp successfully ran its inaugural event “OSIGp Selections of OTC 2016” on 7 July 2016 at the University of Western Australia (UWA). The event was sponsored by Arup and hosted by the Centre for Offshore Foundation Systems, and featured the Committee’s selection of papers by Perth-based presenters from the 2016 Offshore Technology Conference (OTC) in Houston and OTC–Asia in Kuala Lumpur.

A diverse mix of more than 70 industry practitioners, students and academics braved torrential winter rain to network over afternoon tea and snacks. Since it was NAIDOC week, OSIGp Committee Chair Fiona Chow, officially opened the event with an “Acknowledgment of Country” that examined the ancient Aboriginal culture through the perspective of geological history.

Three papers from OTC Houston, and one from OTC Asia were selected by the Committee and were presented for 20 minutes each.

Leon Lorenti from Arup Pty Ltd opened the technical session with the OTC-Houston paper “**Design and Installation of the Malampaya Depletion Compression Platform**”. Leon gave an overview of the geotechnical and structural design of the Malampaya Depletion Compression Platform (DCP), drawing on the innovations

adopted to minimise the seabed preparation and scour protection works for the installation of the platform offshore Philippines.

David White from UWA then gave an outline of the design considerations for chain-soil interaction and interface management described in the OTC-Houston paper “**Chain-soil Interaction In Carbonate Sand**”. Dave showed movies of experiments carried out at UWA’s geotechnical centrifuge involving dragging small-scale chains on seabed sands from Australia’s NWS, the results of which formed the basis of a new method for the analysis of chain-soil interaction in carbonate sands.

Noel Boylan from NGI Perth presented the OTC-Houston paper “**Monotonic and Cyclic p-y Curves for Clay based on Soil Performance Observed in Laboratory Element Tests**”. Noel’s presentation showcased a rational approach to account for cyclic loading in pile design based on soil responses measured directly in laboratory element tests (e.g. direct shear tests). An extension of this work using the cyclic accumulation procedure established at NGI in the last few decades was also presented by Noel.

Vincent Tachoures from Subsea 7 capped off the evening with a presentation of the OTC-Asia paper “**Structures Deepwater Installation Challenges - North West Shelf, Australia**”. Vincent gave pragmatic insights into the challenges encountered and successfully overcame to install 20 subsea structures, some close to 1000Te in weight and in water depths of up to 1650 m for the Chevron-operated Gorgon Project in Western Australia.

All of the presentations were high quality and were well received, with enthusiastic questions from the audience and engaging discussion with the presenters. With the successful turn-out and positive feedback from the participants we look forward to organising a similar event in 2017.