

Wednesday 10th November, 2021

State Library of Western Australia, 25 Francis St., Perth

CPD 1 hrs

Registration + Drinks/Food 5:30 pm; Presentations: 6:00 pm – 7:00 pm; Networking over drinks: 7.00 pm – 8.00 pm

Chaired by: Raffaele Ragni, NGI

GG Tools – An advancement in Geomatics Processing Automation

Steve Duffield, Commercial Director, Guardian Geomatics

Guardian Geomatics since its founding in 2018 has been trying to find different ways of doing more with less. As there have been improvements in data collection, we identified there needed to be improvements in data management and data processing. GG Tools is a suite of software tools Guardian Geomatics has created to manage the large amounts of hydrographic data created offshore.

The Sonne S0257 Expedition, 2017 – “stealth” imaging offshore MTDs using seismic and hydroacoustic data

Myra Keep, Professor, UWA

In 2017 the research vessel Sonne sailed from Darwin to Perth collecting sediment cores for the S0257 expedition Western Australian Climate History from Eastern Indian Ocean Sediment Archives. During the voyage a number of high-resolution shallow seismic lines were shot at strategic locations along the transect, in addition to continuously acquired surface bathymetric and sub-bottom profiling data. These shallow datasets identified a number of previously unknown mass transport deposits at locations around the transect, including both gravity and tectonically-driven events.

Statistical Crushing of Hollow Calcareous Sediments

Danilo Gianni Zeppilli, PhD candidate, Umass Dartmouth

A probabilistic crushing model based on Weibull statistics was developed to study the evolution of void ratio and PSD in hollow grained calcareous sediments during one-dimensional compression. The study suggests that the exchange of intraparticle and extraparticle voids will surprisingly result an increase in skeleton void ratio during crushing.

Rate effects in monotonic and cyclic capacity of plate anchors in sand

Shiaohuey Chow, Senior Lecturer, University of Melbourne

This talk will present a centrifuge study and interpretation framework to quantify the change in plate anchor capacity in sand, when pulled at varying rates under monotonic and cyclic.

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