

# EVENING TECHNICAL MEETING

21 April 2021 5.30pm - 8.30pm  
Parmelia Hilton, Mill Street, Perth 6000

## THE MARINE ENVIRONMENT & RENEWABLE ENERGY



### *On-Bottom Stability of Renewable Energy Power Cables – A State of the Art Review*

*Terry Griffiths – University of Western Australia*

Terry's thesis research themes are: A state-of-the-art review of on-bottom stability, Modelling the lateral resistance of small diameter pipes on rocky seabeds, Investigating the effects of intermittent seabed contact on pipe hydrodynamic forces, Hydrodynamic forces on small diameter pipes on seabeds of various roughness, Effects of marine growth on small pipe hydrodynamics and Effects of geometric irregularities on scour onset under pipes

The thesis outcomes are presently being drafted into a new BSI standard. In parallel he has been assisting the marine renewable energy industry to adopt design solutions which are more cost effective and pragmatic than can be achieved with a 'business as usual' approach to implementing existing oil and gas recommended practices.

### *Harnessing Ocean Wave Energy – Why, How and What Next?*

*Jana Orszaghova – University of Western Australia (Wave Energy Research Centre)*

Ocean waves represent an immense renewable energy source which is dense, consistent, and predictable. In this talk we will first explore the resource, with particular attention to the wave climate along SW coast of Australia which is arguably one of the most suitable for wave energy harnessing.

Wave energy converters (WECs) are devices designed to extract energy from ocean waves to do useful work, which is typically electricity generation. We will discuss the hydrodynamic principles of wave energy capture and give examples of WEC technologies currently being developed. Lastly, we will touch on issues affecting many WEC designs and illustrate how our research is contributing towards progress of the industry.

### *Gold Coast Dive Attraction Matt Allen – Subcon*

A world-class, cost-effective and innovative approach to develop Australia's first purpose-built reef dive attraction is a long-held catalyst project to diversify the City's tourism offering, increase market share and boost tourism jobs. It's being delivered by the City with \$2.5 million in matched funding under the Queensland Government's Growing Tourism Infrastructure Fund.

A primary goal of the Gold Coast Dive Attraction is to deliver an iconic, off-shore reef dive site, eco-engineered to attract bio-diverse marine life. This unique underwater journey will offer a distinct experience aimed at raising the profile of the Gold Coast and Queensland as a premier, unique and innovative nature-based dive destination.

Discover how Public Space Art, cutting edge Marine Biology are being fused with Orcaflex and FPSO mooring technology to deliver on of Australia's most iconic dive sites in years to come!

**REGISTER NOW:** <https://sutetm21april21.eventbrite.com.au>

Registration Cost	Early Bird (ends 14 April)	Regular (from 14 April)	Onsite
Member: Student/Individual/Corporate	\$30	\$40	\$45
Non-Members	\$50	\$60	\$65
5 Ticket Member Pass	\$125	\$200	\$225
5 Ticket Non-Member Pass	\$225	\$300	\$325

