

# Regulation, Research and Renewal – An Environmental Perspective

Wednesday, 14<sup>th</sup> October 2015

Parmelia Hilton Hotel (Swan Room), Mill Street, Perth

**Registration** 5.30 pm: Presentations 6.00 pm – 7.30 pm Networking over drinks and finger food 7.30 pm – 9.00 pm

**Chaired by:** Afton Galbraith, Operations Manager, Subsea Engineering Associates

### Subsea, Environment & Decommissioning: A Regulatory Context

**Carissa Aitken, Environment Specialist - Assessment and Inspection, National Offshore Petroleum Safety & Environmental Management Authority**

Decommissioning like any other stage of the petroleum development lifecycle is subject to compliance with various environmental legislative requirements. While not a new topic, decommissioning of subsea and other infrastructure in Australian offshore waters has been relatively limited. NOPSEMA administers key aspects of the environment legislation for offshore petroleum activities, including decommissioning, and has extended coverage under national environmental legislation. This presentation provides a high level overview of the legislative regime and highlights aspects of the environmental management requirements for decommissioning of offshore petroleum activities in Commonwealth waters.

### Application of Oceanographic Drift Models

**Prof Charitha Pattiaratchi, SEA-SERPENT Project Leader, School of Civil, Environmental and Mining Engineering & UWA Oceans Institute**

The application of oceanographic drift modelling has been highlighted through the search for the missing aircraft MH370 particularly when a flaperon was washed ashore on Reunion Island at the end of July. However, oceanographers have been using such models over long periods of time for different applications such as search and rescue, oil spills, larval connectivity. In this presentation, the physics and modelling aspects associated with drift modelling are explained together with practical applications of the modelling to include: search for MH370; seagrass wrack problems in Port Geographe; food sources for abalone farms; identification of the origin of the human head on Rottneest Island; larval connectivity (e.g. between different offshore rigs with applications for decommissioning); turtle tracks; and, pathways of marine debris.

### Getting Hooked - Offshore Artificial Reefs (OARs)

**Toby Roe - Engineering Manager - Subcon International Pty Ltd**

Ever dreamed of turning a hobby into a job? Toby Roe has lead the team at Subcon to do just that by leveraging oil and gas experience to turn a passion for spear fishing and diving into a major part of their business! Subcon's creative designs in aquaculture and offshore sea ranching has provided them with a platform for innovation in fibre reinforced concrete and hydrodynamics of large concrete structures in shallow water applications. Learn how they took an "oil and gas approach" to reef installation, explore the science behind reef architecture and how a wing tip of the Boeing 737 inspired the hydrodynamics behind the design. Toby will also demonstrate how Subcon's new technology can be applied to reduce costs and increase design life of concrete marine structures.

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For more information contact  
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