

OSIGp

# Movie Night

Thursday, August 1<sup>st</sup>, 2019

17:30 On-site registration State Library Theatre  
17:30 to 18:00 Networking 25 Francis Street  
18:00 to 20:00 Presentations Perth WA 6000

This event features a variety of 5 to 10 minute video presentations from a cross-section of the industry. Presenters will provide narration to the videos.

#### RiverLab

S. Chow, S. Draper (UWA)

This video collage will highlight innovative ocean engineering research being conducted in the Swan River as part of the UWA RiverLab. The RiverLab is a unique collaborative initiative between UWA and Woodside in which researchers and students investigate real world problems by undertaking model scale experiments and field work in the Swan River. Projects span from trailing novel sensors, to investigating new offshore floating concepts, and characterizing the hydrodynamics within the Swan River. To date more than 50 graduate students have worked within RiverLab in collaboration with Woodside and a wider group of offshore operators, consultants and government agencies.

#### From Great Depths

A. Woods (Curtin University)

A 3D short film featuring extraordinary underwater images of the two historic shipwrecks HMAS Sydney (II) and HSK Kormoran. The footage was collected in 2015 when a team led by Curtin University and the Western Australian Museum conducted a detailed survey of the two wrecks and their debris fields.

The dusk encounter between HMAS Sydney (II) and the German raider Kormoran remains Australia's single largest naval disaster and has long been considered one of the world's most significant wartime mysteries.

The film was produced by the Western Australian Museum to form part of an exhibition exploring that story, and skilfully uses innovative 3D techniques developed by Curtin University to illustrate this very significant historical event.

#### Department of Education: Student ROVs

G. Manton (WA Department of Education)

The Re-Engineering Australia Foundation, Australian Department of Defence, and several industry stakeholders have developed the Subs in Schools program focused on engaging student interest in the technology of submersible vehicles and submarines. Subs in Schools is a high-level STEM project where students have the opportunity to learn about complex engineering Systems and build an operational Remotely Operated Vehicles (ROVs) or submarine.

#### Alfred Cove Wavepark – B. McCarthy (URBNSURF)

URBNSURF is Australia's only developer and operator of aquatic sport, recreation and leisure facilities in Australia, and owns the exclusive rights to the world leading Wavegarden wave generating technology for all Australian territories. URBNSURF has announced projects at Melbourne Airport and Sydney Olympic Park and are looking to announce further projects around the country, including Perth. First waves at URBNSURF Melbourne are scheduled for August 2019. Ben will explain some of the challenges and opportunities in the project and this emerging industry.

#### Kangaroo Island 15.3 km Joint-Free Submarine Power Cable Installation – T. Widdicombe (Fugro)

Fugro Marine video presentation on a continuous length combined power and fibre optic cable in Australia, between Kangaroo Island and the Australian mainland, as a replacement for the ageing existing power cable servicing the Island. Highlights covered include coast to coast installation of 620 tonne 130mm diameter cable with a conventional DP construction vessel in ROV assistance mode, together with inshore diving and onshore cable pull support teams.



**\$15 student (limited to 10)**  
**\$30 SUT member**  
**\$50 non-member**

Please register at  
<https://osigpmovienight.eventbrite.com.au>

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2.0 CPD hours can be claimed for this event.

Please keep flyer and receipt for auditing purposes.

#### Contact

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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.

## OceanWorks

Part of the Woodside FutureLab Network