

Advancing Subsea Autonomy with Freedom™ ROV



Lunchtime Technical Meeting
Date : 9th June 2020
Time : 12.00 – 13.00

- 12:00 – Session Starts – House keeping
- 12:05 – Introduction by chair Paul Farquharson, BHGE
- 12:10 – Presentation by **Steffan Lindsø**, Oceaneering
- 12:40 – QA/Panel Discussion Ben Stangoni, DOF Subsea
- 13:00 – Session Ends

Q&A via sli.do event code - #SUTLTM3

Registration : Free for members

<https://09juneltm.eventbrite.com.au>

Outlook Calendar invite will be sent once registered in Eventbrite

Advancing Subsea Autonomy with Freedom™ ROV

Lunchtime Technical Meeting – 9th June 2020, 12:00 to 13:00



The next-generation Freedom ROV is designed to operate in a tether less configuration, supporting autonomous or remotely-controlled missions. Freedom's reliable hardware and software enable increased autonomy, endurance, and dynamic missions. Adopting a plug-and-play philosophy, Freedom provides a low-maintenance, field-configurable solution that is optimized via interchangeable payload packages and sensor suites designed to meet diverse work scopes. Freedom provides a new level of flexibility and efficiency when completing dynamic missions such as infield inspection, long-range survey, and light intervention.

The Freedom ROV's resident capabilities lower the end user's overall carbon footprint by reducing mobilizations. The vehicle's long range allows it to self-mobilize, thereby removing the need for an offshore support vessel. This will lower CO2 emissions for offshore survey and inspection, maintenance, and repair (IMR) work in the future.

Boasting hybrid functionality, the Freedom ROV is compatible with future subsea docking stations, typically installed on the seabed. The docking station enables Freedom to reside subsea and complete continuous operations without maintenance for durations up to six months. Depending on the vehicle configuration, Freedom can travel up to 200km on a single charge and is suitable for use in water depths up to 6000m.

Freedom's supervisory control software is an enabler and a game changer for the future of ROV operations by offering increased control and autonomy. The software and key hardware components can be used on different platforms in the future, including other subsea and surface vehicles, and land-based robotic platforms. This enables sharing of track-record and improvements in advanced autonomy.