

Fugro Blue Volta® Lite: Future of Remote and Autonomous Underwater Vehicle

William Wilkinson - FUGRO

The Fugro Blue Volta® Lite ROV is designed for seamless integration with Fugro uncrewed surface vessels that provides a range of remote inspection and light intervention tasks for offshore projects.

To enable continuous remote work offshore, the ROV is designed to be semi-autonomous, reliable and highly repairable. It is equipped with modular electronics and hardware designs for quick turnaround repairs, high-performing and reliable thrusters, a robust electric manipulator, and on-board monitoring systems. The ROV comes with on-board processing computers to assist pilots controlling it remotely with high latency. Autopilot features such as dynamic positioning enable the ROV to automatically hold position and heading using an onboard suite of highly accurate sensors. Further developments such as pipeline and visual tracking will further improve the remote operability of the vehicle. The use of advanced camera vision technology enables the capture of high-resolution images to improve the inspection scope of a project, while the development of stereo vision provides accurate measurement of objects and generates 3D mapping of required areas.

Freedom to Inspect, Collaborative Robotics on and Under the Water

Tim Stuart - Oceaneering

Autonomous underwater vehicles (AUVs) have revolutionized subsea projects by enabling exploration, inspection, and maintenance of subsea assets. Traditionally, subsea robotic vehicles have been supported using large, crewed vessels; however, new developments are changing this norm with the introduction of remotely piloted and autonomous vehicles that enhance operational efficiencies, reduce overall vessel time on site, and significantly reduce carbon emissions.

Asset Deployed ROVs - Rise of the (Small) Machines

Stuart Barrow - Intervention Engineering

IE has been operating Inspection Class ROVs exclusively since 2006 – during this time we have experienced significant technical and operational change, change that continues to evolve.

This presentation discusses the evolution of IE's corner of the "small" ROV industry, the key enablers and constraints that have, that do and that will continue to shape that space be they technical, commercial or behavioural.

We will take a particular look at the growing area of Asset Based ROVs and its opportunity to reduce project resources, the risks and the benefits that brings.

Finally we'll jump into some case studies where we look at instances where that increased capability of Asset Based ROVs has enabled innovative solution delivery.

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Registration Cost	Earlybird (ends 2 April)	Regular (from 3 April)	Onsite	Online
Single ticket: Members (Individual/Corporate)	\$40	\$50	\$55	TBC
Single ticket: Non-Members	\$60	\$70	\$75	TBC
Students	\$25	\$25	\$25	
Group Booking: 5pax - Corporate Members	\$160	\$230	-	-
Group Booking: 10pax - Corporate Members	\$290	\$440	-	-
Season Pass: 5 tickets - Members		\$175		-
Season Pass: 5 tickets - Non-Members		\$290		-

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