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Western Joint Branch

Technical Lecture

Large Uncrewed Surface Vessel (LUSV) Vision

Presented by Jake Rigby

Date: Monday, 19th of February 2024

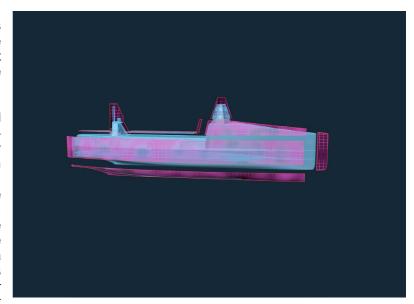
Time: Refreshments at 19:00, lecture starts at 19:25 **Venue:** BRLSI, 16-18 Queen Square, Bath BA1 2HN

Organiser: Western Joint Branch RINA/IMarEST Contact: secretary.wjb@branches.imarest.org

Background: What would happen if future warships didn't have any people onboard? What would a Large Uncrewed Surface Vessel (LUSV) look like and what could it do? Using these driving question BMT have created a vision of LUSV.

Whilst the concept of a large uncrewed surface vessel (LUSV) is not new, many navies needing fleet-upgrades or modernisation have yet to formally consider the use of these types of open ocean high endurance vessels to enhance its surface fleet.

When considered within a mixed fleet approach, the LUSV demonstrates compelling technical feasibility. However, as we chart this course towards the future of naval capabilities, it will be imperative that we further explore the economic viability to ensure a balanced and sustainable naval strategy. This presentation will discuss how LUSVs can be used for anti-submarine warfare (ASW) to provide cost



effective added mass to a future mixed fleet solution. We will start by discussing the characteristics of an LUSV and what makes them such a promising vessel for persistent ASW. When discussing novel technology, it is also important to discuss the barriers to adoption that exist, and the technical challenges still required to be solved. These challenges range from ensuring the reliability of the engineering systems and practicalities and safety of the command and control systems.

Presenter: Jake Rigby is the Global Head of Innovation and Research at BMT, responsible for the portfolio management of internal research projects. He is a chartered engineer and Member of the Royal Institute of Naval Architects originally training as a Naval Architect specialising in ship signatures before his current role in Research and Development. Jake is an Honorary Associate Professor at the University of Exeter.

Registration:

We will be running this as a Hybrid Event - Click Here to Register



CPD Certificates will be sent out on request to the email address used to register.

Next event: Float Off of HMS GLASGOW

Date: 18th March 2024; Time: Refreshments at 19:00, lecture starts at 19:25.

Venue: Lecture Theatre 1N05, Building N, University of the West of England (UWE), BS16 1QY.



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