

Chair
Jake Rigby

Vice Chair
James Williams

Honorary Secretary
Benjamin Scott
secretary.wjb@branches.imarest.org



Western Joint Branch

Technical Lecture

Vessel Optimisation- from Equations to Actions

Presented by: Lebum Shin, Adam Alcantara, Rhys Dickerson from Houlder

Date: Monday, 15th of September 2025

Time: Refreshments at 18:15, lecture starts at 18:45

Venue: BRLSI, 16-18 Queen Square, BA1 2HN, Bath

Organiser: Western Joint Branch RINA/IMarEST

Contact: secretary.wjb@branches.imarest.org

About the Presenters:

This talk will be led by Lebum Shin, Adam Alcantara and Rhys Dickerson from Houlder's Vessel Design and Efficiency team. The presenters have a breadth of experience in assessing the performance of vessels and systems either computationally or through physical model testing. The presenters have been instrumental in the development of Houlder's operational/optimisation-modelling environment.

About the Talk:

The journey towards net-zero shipping is complex, with uncertainty around future fuels and increasing regulatory pressures. During the talk, Houlder will demonstrate how physics-based performance models, grounded in extensive experience in ship design and hydrodynamics, can help shipowners and operators identify efficiency opportunities and make informed decisions.



Image provided by Houlder.

By integrating these models with an operational modelling environment, we can evaluate realistic efficiency improvements tailored to each vessel, accounting for how it operates and the environmental conditions it faces. We will also explore how upcoming regulatory frameworks such as FuelEU and EU ETS impact investment decisions, providing a clear view of the potential return on investment.

Taking a holistic and independent approach to operational modelling gives stakeholders the insight to evaluate vessel modifications and operational strategies confidently, both in the design stage and through life. Which contributes to a successful and sustainable transition to net-zero shipping.

Registration:

We will be running this as a Hybrid Event - [Click Here to Register](#)



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

Next event: Kick-Off Young Members' Design Challenge.

Date: 22th September 2025; Time: Refreshments at 18:15, talk starts at 18:45.

Venue: MV Balmoral, Bristol.



www.imarest.org

International HQ: 1 Birdcage Walk, London SW1H 9JJ • **Tel:** +44 (0) 20 7382 2600

Asia-Pacific Office: #03-01 GSM Building, 141 Middle Road, Singapore, 188976 • **Tel:** +65 6472 0096

Registered Charity No. 212992 • Chief Executive: David Loosley • Founded 1889. Incorporated by Royal Charter 1933 • Licensed body of the Engineering Council (UK) and the Science Council
AMERICAS • EUROPE • MIDDLE EAST & AFRICA • ASIA PACIFIC