

Royal Institution of Naval Architects North West Branch

A Local Branch of the RINA

Chairman: Duncan Swinson

Hon Secretary: Jonathan Happs

Hon Treasurer: Matt Slater



THE ROYAL INSTITUTION
OF NAVAL ARCHITECTS

Date: Thursday 17th November 2022

Time: 6:30pm (Refreshments from 5:45pm)

Venue: Liverpool John Moores University, James Parsons Building, Byrom Street, L3 5AF, Room No. 5.06
and also via **Zoom:** Meeting ID: 849 7326 8963

Passcode: 420416

Organiser: RINA North West Branch

Contact Information: RINA.NWBranch@gmail.com

Ship Design - Considerations for Operational Efficiency and Sustainability

Presented by Keith Hutchinson

**Senior Consultant – Whole Ship Design and Naval Architecture, and
Head of Professional Technical and Engineering Services (PTES), Safinah Group**



The IMO first introduced Energy Efficiency Regulations as part of MARPOL in 2011. In response to the 2015 Paris Agreement, in 2018 IMO adopted an ambitious Initial Strategy (to be updated in 2023) to reduce GHG emissions with the aim of phasing them out as soon as possible.

The presentation will consider how the design of ships and their systems is changing in order to increase their efficiency and also decrease their GHG emissions whilst still resulting in robust, operable and safe solutions for the global shipping industry.

Keith Hutchinson is a Senior Consultant in Whole Ship Design and Naval Architecture and Head of the Professional Technical and Engineering Services sector of Safinah Group, where he undertakes commercial and offshore marine consultancy for clients globally. Over a 35-year career as a ship designer and naval architect, Keith has constantly been at the forefront of the technical development of robust but flexible solutions for a multitude of extremely novel / complex / bespoke merchant ship and complex offshore vessel design problems, both new-build and conversions. Keith has published over 60 technical papers etc. and given numerous public presentations and lectures. He is a member of numerous industrial technical committees developing standards etc., is a Chartered Engineer, Chartered Marine Engineer together with being a Fellow of RINA, IMarEST, SNAME and NEIMME.

The talk is free and open to all those interested

Continued Professional Development	Certificate of Attendance at Technical Meeting by Branch Committee Member
	Name Signed