



SNAME
MAKING WAVES IN THE MARITIME INDUSTRY

The Society of Naval Architects and Marine Engineers
Western Europe Section

2025 Annual Proceedings





PREFACE

Dear Members and Esteemed Colleagues,

It is with great pleasure that we present the 2025 Annual Proceedings of the SNAME Western Europe Section. This publication serves as a testament to our commitment to promote and encourage the exchange and recording of historic information, state of the art and future advancements in the maritime industry.

We extend our gratitude to all contributors who over the past year have shared their expertise and findings with our community.

As we look ahead, we encourage all members to continue engaging with one another, sharing knowledge, and fostering collaboration.

We hope you find this volume informative. Visit the Webinar Library to access all the recordings from the Western Europe Section as well as other SNAME sections worldwide.

<https://www.sname.org/webinar-library>

Thank you for your continued support and participation in SNAME.

The SNAME WES Committee

December 2025



DATE 7 January 2025

TITLE Large Yacht Stability

SPEAKER Mr Andy King
Houlder, UK

KEY WORDS Yacht, Stability, Compliance

Summary

Large motor yachts occupy an unusual space in the Naval Architecture world. Their owners demand a mix of operability, opulence and originality and hence their designs continually push the boundaries and require fresh thinking. The stability of these vessels is particularly interesting because of the goal of large open arrangements, novel design features and openings close to the waterline. 2024 saw the introduction of the new Red Ensign Group Yacht Code and, with it, the implementation of some new stability requirements. This presentation will focus on those changes, how designers can ensure a compliant design and how Masters can understand the stability booklet.

Watch this presentation on the SNAME Webinar Library at the following link:

<https://sname.org/webinar/large-yacht-stability>



DATE	4 February 2025
TITLE	British Battleship Gun Mountings
SPEAKER	Dr Ian Buxton retired Reader Newcastle University, UK

KEY WORDS **Battleship, Mountings, Design**

Summary

Heavy gun mountings dominated the design of battleships, on account of their size, weight, and cost. In the 1890s, British gun mounting industry developed rapidly with new gun technologies and the rise of the two major ordnance companies, Armstrong's and Vickers. These two companies which merged in 1927 produced nearly all the heavy gun mountings for the Royal Navy and for worldwide export. The design, manufacture, economics and performance of gun mountings from 12 inch to 18-inch calibre are discussed and illustrated.

Watch this presentation on the SNAME Webinar Library at the following link:

<https://sname.org/webinar/british-battleship-gun-mountings>



DATE 4 March 2025

TITLE The Rise of Civil Nuclear in Maritime

SPEAKER Mr Mark Tipping
Lloyd's Register of Shipping, UK

KEY WORDS Civil Nuclear, Technology, Regulations

Summary

Two to three years ago the thought of nuclear in civil maritime was confined to left field thinkers and fantasy. Today nuclear is seen as holding huge promise due to its zero carbon emissions, favourable maintenance requirements, periods between refuelling measuring at worst case once every five years and at best full ship life, along with the potential to transit at high speeds whilst other fuels favour low speeds.

How do we get there from a start point of almost no civil nuclear-powered ships, very limited regulation, ports that need to understand and develop requirements and only one western Flag State currently able to accept them? Along with looking at the potential technologies, this presentation will endeavour to address these aspects of nuclear in maritime.

Watch this presentation on the SNAME Webinar Library at the following link:

<https://sname.org/webinar/rise-civil-nuclear-maritime>



DATE	25 March 2025
TITLE	Is the global commercial shipbuilding industry running out of steam?
SPEAKER	Dr Paul Stott Newcastle University, UK

KEY WORDS **Strategy, Market, Labour**

Summary

The prevailing commercial shipbuilding strategy is based on volume, using economy of scale in pursuit of competitiveness. This is the ultimate expression of a strategy that commenced in the emergency shipyards of the United States in World War Two. The strategy is very expensive and, because of market volatility, cannot work without regular Government intervention. It is also now threatened by labour shortage, which may constrain any future market upturn. Is there a better way that responds to market volatility and reduces the dependence on labour?

Watch this presentation on the SNAME Webinar Library at the following link:

<https://sname.org/webinar/global-commercial-shipbuilding-industry-running-out-of-steam>



DATE 14 May 2025

TITLE Intellectual Property (IP) in the Marine Sector

SPEAKER Mr Guy Edwards
Gill Jennings & Every LLP, UK

KEY WORDS Intellectual Property, Commercial, Guidance

Summary

The UK has a rich heritage in the maritime field and our marine community holds a huge wealth of knowledge. However, it can be difficult to convert this knowledge into commercial success or a sustainable competitive advantage.

Intellectual Property (IP) rights offer you an opportunity to leverage and protect your ideas. Patents, trademarks and design rights help you exclude competitors, market your products, and attract investment. Nevertheless, the rules on IP are intricate and many businesses can benefit from professional guidance. This is particularly true in the marine sector, where commercial operations extend across geographic borders and projects often involve large numbers of stakeholders.

In this presentation Guy Edwards, Patent Attorney and ex-Naval Architect, will help demystify Intellectual Property and offer advice specific to companies in the marine sector. You will receive tips on developing an IP strategy that matches your commercial goals, advice on how your company can navigate the IP system, and guidance on the support available for innovative maritime businesses.

The event is suitable for people with any level of experience in IP. It will be of particular benefit to those responsible for making decisions on how their businesses protect and develop their technologies and brands.

Watch this presentation on the SNAME Webinar Library at the following link:

<https://sname.org/webinar/intellectual-property-marine-sector>



DATE **3 June 2025**

TITLE **Navigating to Sustainable Shipping**

SPEAKER **Dr Tamara Topić,
Global Marine, UK**

KEY WORDS **Decarbonisation, Compliance, Technology**

Summary

Shipping is the backbone of global trade, moving around 80% of goods by volume, but it also contributes approximately 3% of global greenhouse gas emissions. As the urgency to decarbonise intensifies, the maritime sector is undergoing a fundamental transformation driven by regulatory, policy, and technological shifts. Recent developments—such as the FuelEU Maritime regulation and the IMO's short-term decarbonisation measures, discussed at MEPC 83 in April 2025—are pushing the industry toward the adoption of renewable and low-carbon fuels. These policies are not only raising the bar for compliance but also driving innovation in emissions reduction technologies, including engine retrofits, alternative fuel systems, and the infrastructure required to support them.

This presentation will explore the tools, strategies, and innovations that can help the industry meet both regulatory obligations and net-zero emissions targets. It will unpack the evolving interplay between policy, operations, and technology, with a spotlight on how new regulations are influencing the development of emissions measurement and abatement systems—particularly in the context of methane slip, a key challenge for LNG-fuelled vessels.

Dr. Tamara Topić will present a comprehensive overview of current practices and cutting-edge advancements in environmentally responsible maritime technologies. Focus areas include the use of digitalisation and Artificial Intelligence (AI) in safety, operations, and emissions management; innovations in hybrid propulsion systems; energy storage and conversion technologies; and the integration of alternative fuels such as hydrogen. Through this lens, the session will highlight how the industry can translate ambition into action on the path to maritime decarbonisation.

Watch this presentation on the SNAME Webinar Library at the following link:

<https://sname.org/webinar/navigating-sustainable-shipping>



DATE **1 October 2025**

TITLE **Naval Architectural aspects of Offshore Wind**

SPEAKER **Dr Neil Morgan**
Lloyd's Register of Shipping, UK

KEY WORDS **Floating, Offshore, Wind**

Summary

The presentation will give an overview of floating offshore wind's status and future projections, configuration of a floating wind farm, and wind turbines (structure, mooring and anchors); the factors that influence the concepts chosen and the design process for Floating Offshore Wind Turbines (FOWTs) including the need to integrate a turbine with a floating support structure. Floating wind will require innovation to be achieved economically and at scale – this lecture discusses how this innovation may take place.

Watch this presentation on the SNAME Webinar Library at the following link:

<https://sname.org/webinar/naval-architectural-aspects-offshore-wind>



DATE	24 October 2025
TITLE	15th Annual SNAME WES Symposium “Shipping and Energy Efficiency”
SPEAKER	Various

KEY WORDS **Symposium, Energy, Efficiency**

Summary

The Western Europe Section held its 15th Annual Symposium at the Little Ship Club on the banks of the River Thames in the City of London. The theme of this year's Symposium was "Shipping and Energy Efficiency".

The Symposium consisted of the following presentations from key members of Industry:

“Energy Saving Devices”

by Mr. Andrew Hurford, Lloyd's Register of Shipping

“ALS in Action: Advancing the Adoption of Energy Efficiency Solutions”

by Mr. Piers Strong, Silverstream

“Shipping’s Second Wind: Energy Transition, Sprint or Marathon?”

by Mr. Gavin Allwright, International Windship Association

“How should we Design Intrinsically Efficient Ships?”

by Mr. Keith W. Hutchinson, Safinah

The Symposium also gave the opportunity for the 2nd Prize winner of the WES Annual Paper contest to present her work. This year, Ms. Theodora Karali from the University of Strathclyde gave a presentation on her paper ***“Comparative Cost and Environmental Analysis: Additive vs Conventional Manufacturing in Shipbuilding”***.

Watch this presentation on the SNAME Webinar Library at the following link:

<https://sname.org/webinar/15th-annual-sname-wes-symposium-shipping-efficiency>



DATE	26 November 2025
TITLE	'Light Across the Water' - the evolution of the lighthouse and the technology behind the Aids to Navigation for the safety of shipping
SPEAKER	Commodore Robert Dorey RFA formerly Trinity House, UK

KEY WORDS **Lighthouse, Navigation, Technology**

Summary

With the vulnerability of satellite-based navigation systems, the need for physical aids to navigation remains as important as ever in providing safety at sea for shipping and the prevention of pollution, which is so essential to our island nation's prosperity and global trade. We have been well served by our predecessors with the wonderful engineering of the Victorian era. However, the drive to innovate and incorporate emerging new technology has ensured that the service provided today is robust, reliable, efficient and enhances the safety of both those who operate and maintain the service and those at sea who depend upon it. The lecture will take a technology journey through the delivery of aids to navigation around our shores.

Watch this presentation on the SNAME Webinar Library at the following link:

<https://sname.org/webinar/light-across-water-evolution-lighthouse-and-technology-behind-aids-navigation-safety>