



Wind Propulsion

16-17 February 2021, London, UK

Call for Papers

In Association with:



Following our successful 2019 edition, the Royal Institution of Naval Architects in association with the International Windship Association brings you Wind Propulsion Conference 2021. A forum where designers, technology providers, operators and other stakeholders will discuss new technologies and procedures that are shaping the fascinating world of wind assisted ships.

The current use of alternative fuels and renewable energy sources within the shipping industry is still relatively scarce. Growing environmental legislation and concerns are driving the need to develop and apply innovative alternative power and propulsion technology for ships.

Now, industry players are increasingly putting a modern spin on one of the oldest concepts in shipping: harnessing the power of wind for ship propulsion.



RINA and International Windship Association (IWSA) invites papers from designers, class societies, operators, researchers, and builders on all related topics, including:

Market level assessment

- Future trends in the wind propulsion market - effects of policy, regulation, price and the market - barriers and drivers.
- Developing world markets - challenges, opportunities and designs for wind propulsion solutions.
- How does wind propulsion perform in the small vessel market, fishing, inter-island ferry, workboats etc.
- Lessons from the past - how does the long history of wind propulsion solutions inform the systems and solutions of today and tomorrow.

Concept level assessment

- Meeting the challenge of technical barriers to the deployment of wind propulsion rigs - stability, navigation, air draft etc.
- The use of weather routing software to maximise wind propulsion systems.
- How to optimise a retrofit installation on existing vessels - integrating retrofit wind into existing power management systems
- Standardising fuel saving assessment for wind propulsion & wind technology performance assessment
- Wind propulsion and classification - pathways to a standardised approach
- Zero emissions/Carbon Neutral pathways - how does wind fit in and how can wind propulsion help facilitate the adoption of other low carbon systems and fuels.
- Assessment of the use of multiple different systems (e.g. sails and kites on the same vessel) and a series of the same rigs.
- Wind propulsion & autonomous shipping.

Technology level assessment

- How would maximising wind propulsion benefits impact the way we operate shipping and the ships themselves.
- The human element - perceptions, experiences to date, training and safety.
- Ports & logistics - how compatible are wind vessels with the existing infrastructure. What systems are being developed on board to mitigate this and what needs to happen in ports to adapt.
- Big data + Big wind - synergies, complementary approaches, impact and future developments.
- Materials and manufacturing - new developments/materials/systems for rigs and sails.
- Assessment of the technology transfer from the competitive and leisure sailing world



www.rina.org.uk/Wind_Propulsion_2021

Please submit your abstract by 2nd November 2020