

Full Scale Performance

24-25 October 2018, London, UK



Call for Papers

In general there is a growing need in the maritime world for ship performance analysis on full scale. This has several reasons related to either cost saving, legislation and environmental concerns.

The appearance of accurate and comprehensive measurements of in-service performance data at full scale can now provide an accurate picture of ship behaviour throughout a voyage and also the effects of it; fouling, wind and waves and the benefits of performance improving technologies such as new anti-fouling paints and new hull form and propulsion design, including retro-fit technologies.

The introduction of the IMO Energy Efficiency Design Index (EEDI) the need for ship full scale performance measurement and verifications has grown in importance. There are now new ISO standards for initial ship trials to verify the EEDI calculations. ISO 19030 standard consolidates the latest academic and industry knowledge regarding a standardised method to measure the performance of a vessel through the water. IMO and EU require vessels to monitor their efficiency in terms of fuel consumption and distance travelled (EU MRV starts 1st January and the IMO system 1st January 2019). It is expected that the data collected will help inform future EEDI regulations.

There are increasing economic and environmental incentives for ship owners and operators to develop tools to optimise operational decisions, particularly with the aim of reducing fuel consumption and/or maximising profit. Examples include real time operational optimisation, maintenance triggers and evaluating technological interventions. Performance monitoring is also relevant to fault analysis, charter party analysis, vessel benchmarking and to better inform policy decisions.

Topic to be included might be:

- Case studies of actual full scale measurements
- Analysis of full scale measurements
- Performance modelling
- Calibration of performance models
- Accurate measurement of shaft power and speed through water
- Monitoring and correcting for environmental conditions
- Measurement technology and sensors
- Accuracy/noise and errors bands

Selected papers may be published in the Transactions of the Royal Institution of Naval Architects



www.rina.org.uk/full_scale_performance

- ☐ I would like to offer a paper and attach a synopsis of no more than 250 words

Please submit your abstract before 18th June 2018

- ☐ I wish to receive details on exhibition space and sponsorship opportunities
- ☐ I would like to receive a full programme brochure and registration form

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Please return to: Conference Department, RINA, 8-9 Northumberland Street, London, WC2N 5DA
by fax on +44 (0)20 7259 5912 or by email: conference@rina.org.uk