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Western Joint Branch

Technical Lecture

Safe shipping in the Arctic

Presented by Prof Giles Thomas and Dr Luofeng Huang

Date: 21st March 2022
Time: Webinar begins at 19:00
Venue: This lecture will be delivered through Zoom

Summary:

Recent years have seen a rapid increase in shipping operations in Arctic regions, as ice cover has reduced due to global warming. While this offers the potential to save significantly on voyage times, the harsh environment poses new challenges to seafarers and vessels. This talk will outline some key findings from a recently completed EU-funded project on safe shipping in the Arctic, including innovations in bridge design using augmented reality, new anti-icing coatings, risk-based design process. Focus will be given to a high-fidelity computational model for predicting ship performance in floating ice floes. This model was used to derive empirical ice resistance equations and enabled the development of a new Arctic Voyage Planning Tool.



Speakers:

Giles Thomas is professor of maritime engineering at University College London. He was technical lead for the EU-funded project: SEDNA: Safe maritime operations under extreme conditions; the Arctic case.

Dr Luofeng Huang is a lecturer at Cranfield University. Previously he completed his MSc, PhD and Postdoc studies at University College London. His research interests are renewable energy systems, marine structures, ships, ocean waves, sea ice and their interactions.

To register please [click here](#) and follow the registration instructions



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

Next event: In person Lecture - Weld Defects

Date: Mon 25/04/2022 **Time:** 18:30 **Venue:** Bath Royal Literary and Scientific Institution



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