

All aboard to the Arctic!

Current Policy and Operational Issues in Arctic Shipping Safety and Environmental Protection

Date: 20 March 2018

Time: 8:45 – 16:30

Place: Thon Hotel EU, Rue de la Loi 75, B-1040 Brussels, Belgium

With Arctic waters becoming more accessible for shipping due to global warming, ship traffic in the Arctic regions is increasing. Given the sensitivity of and the increasing pressures on the Arctic ecosystem, there is a need for policies, technologies, and operational practices ensuring the safety of navigation while minimizing environmental impacts. This half-day seminar brings together policy makers, industry, and academia, to discuss current issues in Arctic maritime shipping policy and operations. Keynote speeches by leading experts are followed by a moderated discussion. After the seminar, a poster session is organized where researchers from academia and experts from industry showcase their work. The seminar is organized by Aalto University and Northern Dimension Institute.

Preliminary programme:

8:45 Registration and coffee

9:30 Opening remarks

Prof. r **Pentti Kujala**, Aalto University, Marine Technology Unit

9:45 **Current Policy Issues in Arctic Shipping and Environmental Protection**

Speakers:

Ms. **Sirpa Pietikäinen**, Member of Parliament, European Parliament

Ms. **Christine Berg**, Head of Maritime Safety Unit, European Commission DG MOVE

Mr. **Oddgeir Danielsen**, Director of Northern Dimension Partnership on Transport and Logistics, Finland

Mr. **Robert Tustin**, Senior Principal Specialist, Lloyd's Register, United Kingdom

Panel discussion and Q&A

11:00 Coffee Break

11:30 **Current Operational Issues in Arctic Shipping Safety and Environmental Protection**

Speakers:

“Business views on the Northern Sea Route”

Prof. **Riitta Kosonen** Aalto University & Northern Dimension Institute, Finland

“The Polar Code: safe design and operation for vessels in the Arctic”

Mr. **Rob Hindley**, Specialist Arctic Technology, Aker Arctic, Finland

“Practical experience from navigation in NSR and Arctic research in China”

Prof. **Xue Yanzhuo**, Harbin Engineering University, China
Representative of COSCO SHIPPING Lines (tbc)

“Training for Arctic conditions: developments and challenges”

Mr. **Sergey Aysinov**, Head of Makarov Training Centre, Russia

"Navigating along the Northern Sea Route: Organization of SAR Services"

Prof. **Dimitrios Dalaklis**, World Maritime University, Sweden

Panel discussion and Q&A

13:00 Lunch

14:30 **Poster session and networking**

Showcasing R&D on Arctic shipping safety and environmental protection

16:30 End of day

The event is free of charge but prior registration is needed. Kindly register for the seminar via this [link](#) by 13 March 2018. Researchers from academia and industry experts are invited to send poster proposals by 28 February 2018, via the same link. Approved poster sizes are A0 and A1. For further information, please contact Dr. Floris Goerlandt: floris.goerlandt@aalto.fi

The event is organized as part of the EU-funded projects SEDNA, BONUS STORMWINDS, and RESET, implemented by Aalto University's Marine Technology Unit, and with support of Lloyd's Register Foundation through LRF CEARTIC.

SPONSORING PROJECTS

SEDNA aims at developing innovative and integrated risk-based approaches for safe ship design, and safe Arctic navigation and operation. Topics addressed include risk-based hull design, the safe Arctic bridge, anti-icing solutions, advanced environmental forecasting, navigation assistance, and voyage optimization. More info: <http://sedna-project.eu>

LRF CEARTIC focuses on holistic treatment of design-relevant features to advance safe Arctic operations and transport. Risk-based design, focusing on ship-ice interaction and probabilistic ice load modelling, is combined with accident modelling, oil spill modelling and research on environmental effects on marine ecosystems. More info: <http://ceartic.aalto.fi>

BONUS STORMWINDS aims to enhance safety of winter navigation and protect the sensitive Baltic Sea ecosystem. Developments focus on decision support tools and risk analysis methods for oil spills in ice conditions, enhanced navigation support, and improved safety management systems tailored to winter navigation. More info: <http://stormwinds.aalto.fi>

RESET aims to develop and apply knowledge in reliability and safety engineering and technology, applied to the design and operation of large maritime transport and offshore engineering systems. This multi- and inter-disciplinary project facilitates international cooperation and mobility between five European and four Asian universities.