

International Seminar on Arctic Shipping

Follow up of AMSA and Future

Organized by Hokkaido University Arctic Research Center and GI-CoRE

Sponsored by J-ARC NET (<http://j-arcnet.arc.hokudai.ac.jp/?lang=en>)

Date : 15th February 2019, 10:00-17:00

Venue : Hokkaido University Sousei Hall, 4F, Meeting room B&C
(Kita-21, Nishi-11, Kita-ku, Sapporo)

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The AMSA (Arctic Marine Shipping Assessment) assessed ships, their uses of the Arctic Ocean, their potential impacts on humans and the Arctic marine environment, and their marine infrastructure requirements. In parallel with shipping issues, the AMSA also considers regional and local perspectives in relation to the current and future Arctic marine operations. As a result, the AMSA released 17 recommendations under three broad interrelated themes as follows:

- Enhancing Arctic Marine Safety,
- Protecting Arctic People and the Environment,
- Building Arctic Marine Infrastructure.

These recommendations represented a key to strategic framework for future action on enhancing marine safety and protection of marine environment. At the same time, they foresaw a status and change of Arctic shipping activity and societies related under ongoing change of the Arctic Ocean.

After official implementation of AMSA 2009 Report, PAME has been updating status report biennially in 2011, 2013, 2015 and 2017. The latest status report indicates significant achievements in the enhancement of maritime safety and the protection of the marine environment in Arctic waters. And this status report will be the final assessment on AMSA recommendations by PAME. Within the eight years after the adoption of 17 recommendations, there are many significant change in the Arctic maritime activity and its circumstances such as, continuous sea ice retreat, emergence of international commercial shipping along the Northern Sea Route, expanding oil and natural gas exploitation, adoption of mandate Polar Code by IMO, environmental concern of HFO use in the Arctic Ocean, ballast water and invasive species issues, and so on. Thus, status report 2017 reminds that many challenges remain and new ones are emerging with regard to ship operations in the Arctic.

Keynote of the seminar will give a review what we did in the AMSA, how we did it, and which one of the recommendations has been made progress, by Prof. Lawson Brigham, who was a chair of AMSA, four-year multinational-led project of PAME working group. And the seminar will discuss key issues for maritime safety and protection of marine environment in future Arctic shipping in the last session.

Tentative Program:

Time	Title	Speaker
10:00	Opening	Sei-Ichi Saitoh(Director, Hokkaido University Arctic Research Center;ARC)
10:10-10:50	Keynote TBC: <i>The 17 AMSA recommendations and which ones progress has been made, what we did & how we did it.</i>	Lawson Brigham(Professor, University of Alaska Fairbanks)
Session-I Pieces of latest activity and achievements of maritime operation in the Arctic		
10:50-11:15	Comparison of Optimum NSR route of IBRV "ARAON" by KARS and POLARIS code	Kang Kuk-Jin(Korea Research Institute of Ships and Ocean Engineering;KRISO)
11:15-11:40	An experimental investigation on the mooring performance of a turret moored Arctic offshore vessel	Hyungdo Song(KRISO)
11:35-13:00	Lunch	
13:00-13:20	An experimental validation of an icevaning control algorithm for an Arctic offshore vessel in managed ice condition	Young Shik Kim(KRISO) and Hyungdo Song(KRISO)
13:20-13:40	Current Status of the NSR shipping activity	Xiaoyang Li(ARC)
13:40-14:00	Arctic tourism	Masato Tanaka(ARC)
14:00-14:20	Hokkaido's regional perspective toward Arctic shipping	Tomoaki Kagawa(Hokkaido Government)
14:20-14:50	Break	
Session-II Following up AMSA Recommendations and Future		
14:50-15:10	<u>TBC: <i>Global surface warming and sea level rise</i></u>	<u>Xianyao Chen(Ocean University of China)</u>
15:10-15:30	Perspective of Future Arctic	Natsuhiko Otsuka(ARC) / Osabe T.(Hitachi)
15:30-15:50	Review and follow up of AMSA recommendations	Koh Izumiyama(ARC)
15:50-16:10	Break	
16:10-16:55	Wrap-up: Key issues for maritime safety and protection of marine environment in future Arctic shipping.	1) Speakers are asked to give a few minutes of comment on the theme. 2) Open discussion
17:00	Closing	

- ★ Social gathering will be followed!
18:30~20:00, participation fees will be about 3,000yen per person
- ★ Venue ~ nearby Sapporo Station.
- ★ Those who wants to join, please contact N.Otsuka(ARC) no later than Feb.2nd. After that date, your participation will depend on flexibility of restaurant's room.

Access Map :

