

JSEA Lecture and Seminar at NOR-SHIPPING 2019 GHG Reduction and Digitalization in Maritime Industry - Japan's Contribution & Challenges -

Wednesday 5th June 2019, 13:00 – 16:00

Venue: Romerike, Thon Hotel Arena

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13:00 **Opening Remarks**

Mr. Yasuhiko Katoh [President, Japan Ship Exporters' Association (JSEA)]

(Session 1 : Future outlook of Maritime industry in Green & Digital Era)

13:05 **Keynote Address**

**“Structured Approach toward GHG Reduction and Digitalization in Maritime Industry”
- Japan's Technical Contribution & Challenges -**

Mr. Yoshio Otagaki [Adviser Management & Technology, Japan Marine United Corporation]

13:30 **Japan's Policies on GHG reduction and Digitalization in Maritime Industry**

Mr. Tomohito Takeuchi [Director for International Affairs Office, Shipbuilding and Ship Machinery Division, Maritime Bureau, Ministry of Land, Infrastructure, Transport and Tourism (MLIT)]

13:45 **Future 2040 -The wave of the future by unmanned ships-**

Mr. Masanori Yoshida [Director, Office of Offshore Development Ocean Affairs Division, The Nippon Foundation]

14:00 **Shipping Market and Environmental Regulation**

Mr. Stephen Gordon [Managing Director, Clarkson Research Services Ltd.]

(Session 2 : Actions taken by Japanese Companies)

14:30 **Utilizing Big Data for Improvement of Safety and Efficiency of the Ship**

[Japan Marine United Corporation]

14:50 **Technical innovations for the reduction of GHG emissions from ships using gas fuel and
“Ship Operation and Performance analysis support system”**

[Kawasaki Heavy Industries, Ltd.]

15:10 **Challenges for Sustainable Development at Sea “Revolution on Fuel of Ships for GHG
Zero Emission”**

[Mitsubishi Shipbuilding Co., Ltd.]

15:30 **Our steps toward Realization of Autonomous vessels**

[Mitsui E&S Shipbuilding Co., Ltd.]

15:50 **Internet of Ships Open Platform (IoS-OP) - Initiative to Collect and Distribute Maritime Big
Data**

[Nippon Kaiji Kyokai (ClassNK)]

16:00 **Closing**

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