We invite you to attend the first World NAOE Forum. The forum aims at to have discussions with global leaders of selected topics. This year we focus on technical challenges for ship energy efficiency toward year 2020. Ship energy efficiency is the key for survivability of our industry and participants will learn the next R&D targets through discussions with world leaders.

**Place**
Senri Hankyu Hotel
Address: 2-1-D-1, Shinsenri Higashimachi, Toyonaka, Osaka 560-0082, Japan
TEL: +81-6-6872-2211, FAX: +81-6-6832-2161
URL: http://www.hankyu-hotel.com/hotel/senrihh/

**Language**
The language for the forum is English. No translation services will be available.

**Registration**
The registration fees shown below include proceedings, forum banquet and coffees.
Prior to 11 November: JPY10,000, Full: JPY12,000, Student: JPY3,000
Please register online on JASNAOE homepage for participation.
URL: http://www.jasnaoe.or.jp/en/conference/meetings_o.html

**Supporting Organizations**
Nippon Kaiji Kyokai, Lloyd’s Register, American Bureau of Shipping, Bureau Veritas, Det Norske Veritas, Germanischer Lloyd’s
First World NAOE Forum  
- Technical Challenges for Ship Energy Efficiency toward 2020 -

Program

9:00 – 9:30 Registration and welcome
9:30 – 9:35 Opening address  
Mr. Yoshiaki Sezaki, Vice President, JASNAOE
9:35 – 9:55 Keynote speech  
Mr. Koichi Kato, Ministry of Land, Infrastructure, Transport and Tourism
9:55 – 11:40 Ship Design  
Moderator; Prof. Yasuyuki Toda, Osaka University
Speaker;
Dr. Mun-Keun Ha, Samsung Heavy Industries  
“Development of the Green Future Suezmax COT”
Dr. Noriyuki Sasaki, National Maritime Research Institute  
“ZEUS Project of NMRI”
Mr. Taichi Tanaka, Mitsubishi Heavy Industries  
“Green-Technologies Featuring the Mitsubishi Air-Lubrication System”
11:40 – 12:00 Poster presentation*
12:00 – 13:30 Lunch break
13:30 – 15:15 Power Plant  
Moderator; Mr. Yasuhiro Itoh, Niigata Power Systems
Speaker;
Mr. Oskar Levander, Wartsila  
“Machinery Optimization for the Next Generation of Ships”
Mr. Ichiro Tanaka, Mitsui Engineering & Shipbuilding  
“Environmentally-friendly Engine for Future Ships”
Prof. Koji Takasaki, Kyushu University  
”Conversion of Current Marine Fuel to What?”
15:15 – 15.45 Coffee break
15:45 – 17:30 Service Performance  
Moderator; Prof. Masashi Kashiwagi, Osaka University
Speaker;
Mr. Henk van den Boom, MARIN  
”Improving Performance of Ships in Service”
Capt. Masao Nakaya, NYK Line  
“Environmental Ship Operation and Emission Control”
Dr. Koichiro Matsumoto, Universal Shipbuilding Corporation  
“Sea-Navi®; An Optimum Routing System”
17:30 – 17:35 Closing address  
Mr. Yasuo Tanaka, Director, JASNAOE
18:00 – 20:00 Forum banquet

*Please refer JASNAOE homepage (http://www.jasnaoe.or.jp/en/) for detail information of the poster contest.

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