



# Jsmea News

## JSMEA holds 1st online ship machinery, equipment seminar for Malaysia

The Japan Ship Machinery and Equipment Association (JSMEA) held its first-ever online seminar for overseas customers and potential customers on Nov. 27-Oct. 18, 2020. The event, “Malaysia-Japan Online Business Matching Forum 2020,” was financially supported by The Nippon Foundation, and organized with help from the Association of Marine Industries of Malaysia (AMIM) for the Malaysian maritime industry.

It was the third seminar given by JSMEA to Malaysian partners, with its two previous seminars held locally in the Southeast Asian economy. Currently, the COVID-19 pandemic is making it extremely difficult to organize events in other countries and regions and to have international interchanges. As such, JSMEA had decided to hold an online seminar to respond to the many members’ claims that it is still important to disseminate information to other nations and satisfy a request from the AMIM to obtain information promptly from the Japanese ship machinery and equipment industry.

On Day 1 of the seminar on Nov. 27, JSMEA held the opening ceremony on a dedicated website, with Mr. Shinzo Yamada, chairman of JSMEA, and Mr. Soo

Jee Main, acting president of the AMIM at that time, giving addresses, respectively. The leaders both hoped the Japanese ship machinery and equipment and the Malaysian maritime industries will interact more frequently with each other, even though the entire world is being hit hard by the novel coronavirus outbreak. Afterward, 14 JSMEA member companies delivered video presentations, including online messages from persons in charge, to showcase products and services among those from the Malaysian maritime industry. At the end of the event, Mr. Masaharu Ono, vice-chairman of JSMEA, gave the closing address, saying that he would like to see parties from both nations hold exchanges and conduct business negotiations actively by making full use of the website, despite being able to only meet online.

The opening ceremony was attended by some 250 individuals—130 from JSMEA and the Japanese maritime industry, 100 from Malaysia and 20 from others. Until Dec. 18, in addition, a total of 310 more people were present—247 visitors and 63 exhibitors. On the dedicated website, introductions of and other information on the 14 JSMEA-affiliated ship machinery and equipment

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### Archive website



makers were available for download. In the meantime, JSMEA endeavored to facilitate business talks by creating opportunities for online meetings via an internet conference tool to mediate visitors and its members.

Mr. Soo Jee Main took over the AMIM presidency at the association's 24th annual general meeting on Dec. 18.

**About the Malaysia-Japan Online Business Matching Forum 2020**

**Dates:** Friday, Nov. 27-Friday, Dec. 18, 2020  
**Style:** Online (on-demand)  
**14 Attending JSMEA members:** BEMAC Corporation; Chugoku Marine Paints, Ltd.; Daihatsu Diesel Mfg. Co.,

**JSMEA Chairman Shinzo Yamada gives an opening address.**



**AMIM Acting President Soo Jee Main also gives an address.**



**Presentation videos by JSMEA members are played.**



Ltd.; IHI Power Systems Co., Ltd.; Misaka Corporation; Miura Co., Ltd.; Nagasaki Sempaku Sobi Co., Ltd.; Nakashima Propeller Co., Ltd.; Shimada & Co., Ltd.; Taiko Kikai Industries Co., Ltd.; Taiyo Electric Co., Ltd.; Tokyo Keiki Inc.; Ushio Reinetsu Co., Ltd.; and Yanmar Power Technology Co., Ltd.

**Supporting local organizations:** Association of Marine Industries of Malaysia (AMIM), Malaysia OSV Owners' Association (MOSVA) and Malaysia Shipowners' Association (MASA)

Visit the URL below for archive of the opening ceremony and exhibitor's presentation movies.  
 <<https://www.jsmea.or.jp/en/seminar/2020/malaysia>>

**About the opening ceremony for the special website for the Malaysia-Japan Online Business Matching Forum 2020**

**Time and date:** 9:00-12:35 on Friday, Nov. 27, 2020  
**Style:** Online (live)  
**Schedules**  
 9:00-9:05: Beginning  
 9:05-9:15: Opening addresses  
 9:15-9:20: Briefings on the website's functions  
 9:20-11:55: 10-minute presentations by the 14 attending JSMEA members  
 11:55-12:30: Short speeches by the 14 attending JSMEA members  
 12:30-12:35: Closing address  
 12:35: End

**Short speeches are made by JSMEA members.**



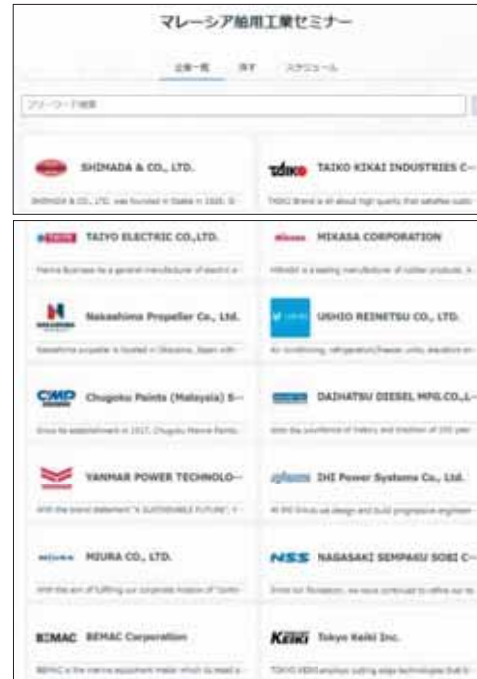
**JSMEA Vice Chairman Masaharu Ono makes the closing remarks.**



**Online Seminar Website**



**A list of the attending JSMEA member companies is displayed.**



**Corporate overviews**



**Contact details**



**Archive website**



**Participating companies**



**Webinar**



## JSMEA holds online meetings with FSA, TSA

The Japan Ship Machinery and Equipment Association (JSMEA) recently held online meetings with associations of shipowners from the Philippines and Thailand.

JSMEA signed memoranda of understanding (MOU) with the Filipino Shipowners Association (FSA) and the Thai Shipowners' Association (TSA) in 2019 to enhance its relations and promote regular meetings with the partners. It has since been continuing interactions for such purposes, including a seminar in Manila in February 2020.

With the worsening novel coronavirus pandemic, nevertheless, Sea Japan 2020, scheduled for March last year, was cancelled, with the JSMEA having planned to invite the leaders of the FSA and the TSA to the exhibition. As the pandemic continues to make it difficult to visit other countries and welcome visitors from abroad, organizing of

seminars, get-togethers or other similar events has been sparse.

However, it is undoubtedly important to continue efforts to strengthen relations with partners from overseas through some form of interaction. The JSMEA, as such, decided to proceed to do so with the top executives of the FSA and the TSA through the web. The online meetings were, as a consequence, convened on Feb. 4, 2021, both of which are briefly described below.

The JSMEA is determined to meet regularly to exchange information with the FSA and the TSA and to hold seminars for them. It also intends to grant requests for Japanese ship machinery and equipment from ship owners affiliated with the shipowners' organizations and provide them with information on the latest products and technologies.

### Online meeting with the FSA

**Time/date:** 15:00-15:45 on Thursday, Feb. 4, 2021

**Guests from the FSA:** Mr. Dario R. Alampay, Jr., chairman/president; Mr. Augusto Y. Arreza, executive director; and Capt. Ronald Enrile, a member of the board of trustees

**Attendees from JSMEA:** Mr. Yamada Shinzo, chairman; Mr. Ono Masaharu, vice-chairman; Mr. Ando Noboru, executive managing director; Mr. Sonoda Toshihiko, managing director; and Mr. Ishida Hiroshi, JETRO Singapore



### Online meeting with the TSA

**Time/date:** 16:00-16:30 on Thursday, Feb. 4, 2021

**Guests from the TSA:** Mr. Suraphon Meesathien, chairman; Mr. Bhumindr Harinsuit, honorary chairman; Dr. Voravit Visitkijakarn, vice-chairman; Mr. Lerdnarong Suwan, association secretary; and Ms. Aichaya Kumnungthum, an assistant to the chairman

**Attendees from JSMEA:** Mr. Yamada Shinzo, Mr. Ono Masaharu, Mr. Ando Noboru, Mr. Sonoda Toshihiko and Mr. Ishida Hiroshi



## JSMEA holds online discussions with partners from Brazil

The Japan Ship Machinery and Equipment Association (JSMEA) held an online meeting on Jan. 19, 2021 with members of the Brazilian maritime industry. The association's decision to do so this fiscal year due to the worsening COVID-19 pandemic which has made it impossible to visit other countries or organize such events in other countries.

The JSMEA travelled to Brazil every year from fiscal 2010 to fiscal 2016 to attend local exhibitions, where it interacted extensively with people from the local maritime industry, including those concerned with offshore oil and gas development, by holding "Japan Day" network receptions and visiting and exchanging views with those parties. Instead of attending exhibitions, the JSMEA began to give a get-together session in fiscal 2017 to maintain and even enhance the relations that it had built up with Brazilian enterprises having to do with offshore oil and gas development and other maritime affairs. It has since been aggressively fostering dialogues.

At the recent online meeting, the JSMEA exchanged information with three participants from Brazil and five member companies having business footholds in Brazil. Mr. Ando Noboru, JSMEA executive managing director, gave the opening address and introduced a project the JSMEA is advancing to create basic design drawings of offshore support vessels (OSVs) on assumption that Japan-made ship machinery and equipment will be adopted. At the view-exchange session held after his address, the participants from Brazil provided information on local market developments. They also expressed gratitude, to the JSMEA, saying that it was very meaningful to have an online meeting at a time when travel curbs had been imposed due to the novel coronavirus pandemic.

The JSMEA intends to meet regularly with partners from the Brazilian maritime industry.

### Online meeting with the Brazilian maritime industry

**Time/date:** 8:00-9:30 on Tuesday, Jan. 19, 2021 (JST)

**Guests from Brazil:** National Agency of Petroleum, Natural Gas and Biofuels (ANP); PROJEMAR S.A., an engineering company; and RBNA Consult, a classification society

**Attendees from JSMEA:** Daihatsu Diesel Mfg. Co., Ltd.; Fuji Trading Co., Ltd.; Japan Radio Co., Ltd.; JETRO Houston; Maekawa Mfg. Co., Ltd.; and Yanmar Power Technology Co., Ltd.; JETRO Singapore

### Summary

The participants exchanged opinions on the following subjects:

- 1) The future of the offshore oil and gas development market and the present state of the shipbuilding industry in Brazil; and
- 2) Business activities that JSMEA-affiliated companies conduct in Brazil.



Mr. Marcelo M. Borges de Macedo, oil & gas expert, ANP



Mr. Luis Mattos, president, RBNA Consultant



**CMP CHUGOKU****SEAFLO NEO series.****-Ultra low friction type of antifouling-**

SEAFLO NEO series have provided excellent performance as low friction type of antifouling over 10 years since 2010.

**SEAFLO NEO SL Z****Fuel saving 5-8%****Ultra low friction, low FIR 1.5%**

SEAFLO NEO SL Z is a silyl methacrylate based antifouling available in newbuilding and drydock repair. The product can be available in various trading courses maintaining excellent hull performance.

\*FIR(Friction Increase Ratio) can be represented as a % contributes to the improvement of vessels' performance and reduction of fuel costs.

**SEAFLO NEO CF PREMIUM****Slime free & Barnacle free****Fuel saving 5-8%****Ultra low friction, low FIR 1.2%**

SEAFLO NEO CF PREMIUM is a zinc acrylate based antifouling with selektope® for worldwide trading vessels. Since the product have been launched in 2015, the outstanding performance is confirmed for more than 200 vessels.

The product can protect ships against various types of biofouling and it can be applied for all types of ships.



These products can be delivered unsurpassed antifouling performance even when a ship has a long layup at anchorage or a long static period during trading i.e. for a few months. Hence the products are ideal to meet demands and challenges from today's market suffering from frequent off hire time or very low activity of ships.

**CMP CHUGOKU****Chugoku Marine Paints, Ltd. (CMP)**

Tokyo Head Office

Tokyo Club Building, 2-6, Kasumigaseki 3-chome, Chiyoda-ku, Tokyo, 100-0013, Japan

URL: <https://www.cmp-chugoku.com/global.html>**株式会社 マキタ**  
**MAKITA CORPORATION****6S46ME-B8.5 equipped  
with the world's first MAN HP-SCR**

In December 2019, "6S46ME-B8.5-HPSCR" engine which is compliant with NOx Tier III regulation was completed by Makita Corporation (Makita). The High-pressure Selective Catalytic Reduction (HP-SCR) which reduces NOx value is a product developed by MAN Energy Solutions (MAN ES), the engine licensor, and PBST is new turbocharger and exhaust gas treatment brand.

This is the first time that the HP-SCR by MAN ES was adopted for marine 2-stroke engine in the world. In the shop test, it was confirmed that NOx value was below the regulation value and the EIAPP certificate was obtained. The engine was mounted on 39,000 D/W bulk carrier.

The sea trial was held in May 2020. A performance confirmation test was conducted at the time, and the test result was fine. Currently, the vessel has been in service.

The characteristic of MAN HP-SCR is compact because it has a built-in vaporizer in the reactor. The compactness makes the arrangement of the hull simplified.

Since 2020, the new-building vessels that comply with the NOx Tier III regulation has begun, and Makita Corporation and MAN ES are ready to make the engine for the regulation.



Shop test of 6S46ME-B8.5-HPSCR engine

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## Better Solution for Ballast Water Inspection

### BALLAST EYE / Viable Organism Analyzer

SATAKE CORPORATION, developed machinery for maritime calls "BALLAST EYE" (Viable Organism Analyzer) and MOL Techno-Trade, Ltd. handles to sell it in domestic and foreign market. Unlike conventional method of measuring chlorophyll of Phytoplankton, BALLAST EYE can

analyze both Phytoplankton and Zooplankton by utilizing FDA vital stain to react with enzymes which exist in both microorganisms. BALLAST EYE also estimates the number of both large size and small size organisms, specified with D-2 standards of the Ballast Water Management Convention.



**BALLAST EYE**



### BALLAST CATCH / Viable Organism Sampler

BALLAST CATCH is a compact sampler that can concentrate ballast water easily and quickly for indicative analysis. Plankton net, a conventional method used to concentrate ballast water on board, takes time and the tools are big. Compact design

BALLAST CATCH and accessories such as hoses and sampling bags can be stored in a carry-on size backpack. It uses the same material as plankton net, minimizing the damage to organisms during sampling, so it is highly reliable tool.

**BALLAST CATCH**



**MOL** MOL Techno-Trade, Ltd. Environment and Safety Related Devices Dept.  
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## Carbon Fiber Reinforced Plastics (CFRP) pump - newly developed, ultra-light weight with high seawater anticorrosion performance, Deployed and in operation

Naniwa Pump Mfg. Co., Ltd. has developed an ultra-light weight pump made of CFRP (Carbon Fiber Reinforced Plastics). This high durability marine pump constitutes a "first in the world." It has been supplied for the Kawasaki Heavy Industry built Jet Foil "SEVEN ISLANDS YUI" Tokai Kisen Co., Ltd. and Japan Railway Construction, Transport and Technology Agency have jointly ordered the construction of this vessel based on a 25 year old design.

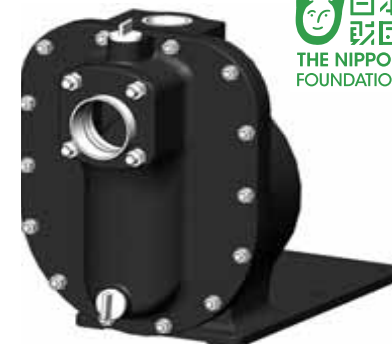
The development of the CFRP pump was supported by a grant - initiated in 2014 - from The Nippon Foundation and the Japan Ship Machinery and Equipment Association. The grant was established specifically for advancing the technology to develop pumps made of light weight composite materials.

Upon learning of this newbuilding project Naniwa Pump Mfg. Co., Ltd. proposed replacing the "traditional" aluminum pump by its newly developed CFRP model. It is ultra-light - one fourth (1/4) the weight of standard bronze cast pumps commonly in use for seagoing vessels. Durability & maintainability of the CFRP pump cannot be matched by the aluminum model, previously installed on Kawasaki's Jet Foil series.

Repeated and numerous component tests confirmed achieving the desired pressure resistance and durability, capable of withstanding the most severe usage environment. A two year development effort in close cooperation with our customer Kawasaki Heavy Industry as well as the vessels operator Tokai Kisen Co., Ltd. was crowned by the vessels delivery on June 30, 2020.

The "SEVEN ISLANDS YUI" will operate for passenger transport on routes between Takeshiba (Tokyo) and the Izu Island area.

Kawasaki Heavy Industry plans to install this type of CFRP pump on future rebuilds of the Kawasaki Jet Foil series. The Naniwa CFRP pump has become another member in Naniwa's growing product family. R&D in high durability and ultra-light weight pumps continues.



SEVEN ISLANDS YUI (Photo provided by Kawasaki HI)

### Items

Pump name	Cool. S. W. Pump	Fire Pump
Capacity	34.5m³/h	45.9m³/h
Total head	32m	47m

**naniwa pump** Manufacturing Co., Ltd.  
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**NAGANO KEIKI**

## A leading manufacturer of pressure instruments to support the safety and security of ships

We offer high safe and reliable products in the Marine, Aerospace and Industrial. We will continued to strive to improve the quality of our products so that we are able to be a company that can provide safety and security.



### KH55 Pressure Transmitter (approved Class NK, LR and DNV)

#### Features

- A metal diaphragm is used for the sensor part of medium trough hig pressure range, and it has excellent corrosion proof and durability.
- Since there are no moving parts in this pressure transmitter, thereis no leakage of the measuring liquid, which is a concern with the piston type.



### KH54 Pressure Transmitter (approved Class NK)

#### Features

- Because of its small size and light weight, this transmitter is suitable for saving space in the installation location.
- Used in our designed and own made pressure sensor, this transmitter achieves high durability and pressure resistance.



### KJ55 Intrinsically safety Pressure Transmitter (approved Class NK)

#### Features

- Since it is certified as an intrinsically safe explosion-proof structure (Exia IIC T5), it can be used at installation locations from Zone 0 to Zone 1 and Zone 2.
- We can also produce highly corrosion-resistant model, so please contact us for the product details.



### KM70 Pressure Transmitter

#### Features

- This transmitter is a compact, lightweight, high pressure resistant and highly drable product that uses an all-welded structure for the pressure contact section.
- This transmitter has a protection grade IP65 and is an external environment resistant product.
- Since this transmitter can offer a wide pressure range from 0 to 0.1MPa to 0 to 50MPa, it is suitable for various scenes.
- 14 types of connection screws can be selected as standard.


**NAGANO KEIKI**

#### NAGANO KEIKI CO., LTD.

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## WinGD X-DF2.0 Technology

As market leaders in dual-fuel technology WinGD is pushing engineering boundaries for smarter solutions to reduce emissions and improve efficiency.

Ensuring continuous improvement of X-DF technology through reductions to both fuel consumption and methane slip in gas mode, WinGD has launched X-DF2.0 technology with the introduction of iCER – Intelligent Control by Exhaust Recycling. iCER technology delivers enhanced combustion control through the use of inert gas and offers the following benefits:

- 3% energy consumption reduction in gas mode
- Up to 5% fuel consumption reduction in diesel mode
- Up to 50% reduction of methane slip.



Reduced Methane slip and CO<sub>2</sub> emissions



Proven low-pressure dual-fuel engine technology with high reliability and safety record



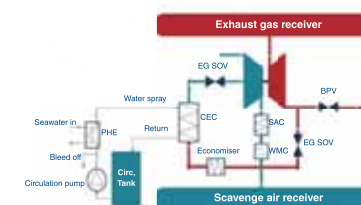
Lower operating costs

### Recirculating exhaust gas through a low-pressure path

The iCER is designed to cool and recirculate part of the exhaust gas through a low-pressure path during operation in gas mode. Compared to a high-pressure path, the main benefit is the ability to use the full turbocharger capacity. It is possible to recirculate exhaust gas up to a maximum rate of 50% mass flow. This is handled through a system adjacent to the engine that circulates part of the exhaust gas after the turbine through a Cascade Exhaust gas Cooler (CEC) to the compressor inlet. The exhaust gas and the fresh air are mixed before entering the compressor wheel of the turbocharger.

#### Abbreviation:

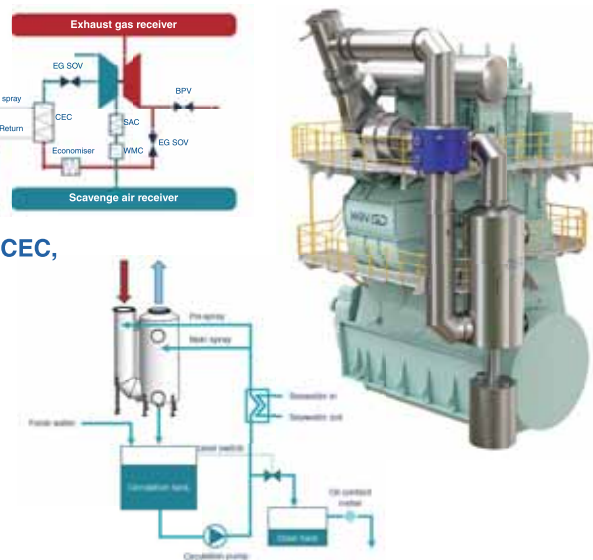
BPV Back Pressure Valve  
 SOV Shut Off Valve  
 SAC Scavenge Air Cooler  
 WMC Water Mist Catcher  
 CEC Cascade Exhaust Cooler  
 EWG Exhaust Waste Gate  
 BTV Blower Throttle Valve  
 PHE Plate Heat Exchanger



### Arrangement and process flow of CEC, circulation water and drain

The image above shows a simplified process flow diagram of the iCER system. The cooling process reduces the temperature of the exhaust gas to below its dew point of  $-40^{\circ}\text{C}$ . Below the dew point water starts to condense out of the exhaust gas which leads to excess water in the system. This helps to avoid an increase of acidity in the recirculated water.

The water for cooling the exhaust gas is recirculated fresh water stored in a circulation tank. The recirculated fresh water used in the CEC is cooled by sea water via a plate heat exchanger.




#### Winterthur Gas & Diesel Ltd. Winterthur Gas & Diesel Japan Ltd.

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# JSMEA NEWS FREE REGISTRATION



The screenshot shows the JSMEA News website's registration page. At the top, there is a navigation bar with 'Home', 'Products and Services', 'Directory', and 'Coffee of JSMEA'. Below this is a search bar and a 'JSMEA News' header. The main content area is titled 'Free Registration' and includes a brief introduction: 'JSMEA News is published twice a year. Registrant will get latest JSMEA News periodicals.' Below this is a registration form with the following fields: Title (with a dropdown menu), Name, Email, Company Name, Job Title, and Type of Business. The 'Type of Business' section has radio button options: Shipowner, Shipbuilder/Repairs, Ship design/Engineering, Trading Company, Ship machinery manufacturer/Agent / Distributor, Government/Embassy/Association/Organization, and Other.

Visit the WEB to get latest  
JSMEA News  
<https://www.jsmea.or.jp/en/news/>



## JSMEA

Japan Ship Machinery and Equipment Association

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