

IoS-OP Taiwan seminar 2024

22th November (Friday) 13:00-17:30

Registration ▶ 12:00 (No remote delivery)

There are light meals available from 12:00, but in limited quantities.

Venue: VIP ROOM 5-7,4F, Regent Taipei No.3, Ln.39, Sec.2, Zhongshan N.Rd., Taipei City

----- Application form -----

[Application deadline] 18 November (Monday)

[URL] <https://forms.office.com/r/uUFVQ5pPCH?origin=lprLink>



----- Programme -----

13:00-13:05

Opening Address

Michitomo Iwashita

Chairman of IoS-OP Consortium

K-Line Managing

Executive Officer



13:05-13:35

Development of Greener ships for Zero Emissions

Sai Hiramatsu

Managing Director

Planning and Design Center for Greener Ships (GSC)

The shipping industry is facing a transition to zero GHG emission fuels to achieve its "Net Zero GHG emissions by 2050" goal.

GSC is developing greener ships such as ammonia-fueled and methanol-fueled, we will introduce some of these concepts here,

and show you our consideration of changes in the type of ships that will be needed as land sector becomes zero-emissions.

Keywords: Zero emission, GHG reduction, Alternative fuels, Ammonia-fueled ship, Methanol-fueled ship



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13:35 -14:05

Latest information about IoS-OP

Hiroshi Konishi

Sales Department/General Manager

Ship Data Center Co., Ltd. (ShipDC)

IoS-OP is a digital platform consisting of data handling rules and a data center. It is developed for sharing vessel operational data including high frequency data among stakeholders fairly and transparently.

Introduction of the recent data use cases related to IoS-OP.

Keywords: Big data, High Efficiency, Use cases of data, Innovations, Data management.



----- Coffee Break -----

14:30-15:00

Advancing Environmental Sustainability in Propulsion Technologies(tentative)

Noriko Kobayashi,

Deputy Manager/ Sales & Marketing

Nakashima Propeller Co., Ltd.

This presentation explores new technologies in green propulsion and high-efficiency systems for a sustainable future, with careful consideration of our customers' cost-consciousness. It focuses on emission reduction and Energy Saving Devices (ESD). We will discuss how these innovations can lower environmental impact while meeting performance expectations with using design technologies as well as new products.

Keywords: Green Propulsion, ESD, Emission Reduction, High Efficiency

15:00-15:30

Advanced PBCF and Wind Propulsion Devices

Lee Enwei

PBCF & Wind Propulsion Dept.

MOL Techno-Trade, Ltd.

In the environmental era, reducing GHG emissions must be considered right away. However, what are the effective measures in shipping? One of the answers is to install MOL's Advanced "PBCF", which is the original & best-selling brand of a propeller-cap with fins. This seminar will focus on the key features of Advanced PBCF, the latest findings through R&D and how effective for new regulations, EEXI and CII.

Keywords: PBCF, ESD, Retrofit, GHG Reduction, Fuel-Saving



15:30-16:00

Improving ship hull performance coated with low friction antifoulings supported by the Hull PDCA cycle

Ryotaro Yamasaki

Antifouling Coatings Tech. Dept. / Technical Specialist

CHUGOKU MARINE PAINTS, LTD.

To reduce GHG emissions from ship operations, some regulations such as EEXI or CII have been put in place and become increasingly strict. The application of low friction fuel saving antifoulings is one of the most effective ways to achieve the reduction. Based on our developed Hull PDCA cycle, named "CMP-MAP", it can propose the suitable antifoulings for each ship by the unique analysis and simulations.

Keywords: Antifoulings, CMP-MAP, Hull PDCA cycle, Simulator, CII rating



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16:00-16:30

The Role of Digital Twins in Achieving Maritime Decarbonization

Nuri ON

Shipping Solutions/Senior Technical Consultant

NAPA

This presentation explores how digital twin technology, combined with advanced tools like NAPA Fleet Intelligence and NAPA Voyage Optimization, enables real-time monitoring and simulation of Energy Saving Devices (ESDs), such as wind-assisted propulsion. Through case studies, we will demonstrate how shipowners can leverage digital twins to simulate the potential impact of ESDs before installation and accurately assess the actual savings post-implementation, optimizing both investment and operational performance.

Keywords: ESD (Energy Saving Device), Wind Assisted Propulsion, Digital Twin, NAPA Fleet Intelligence, NAPA Voyage Optimization



16:30-17:00

What We Need to Know About the 2023-2024 Update on Maritime Cybersecurity

Kaoru Shimamoto

Management Systems and Maritime Training Certification Department

Project Manager, Cyber Security Team

Nippon Kaiji Kyokai (ClassNK)

The 2023-2024 period introduced updates to maritime cybersecurity regulations, including IACS Unified Requirements E26 and E27 and revisions to IMO Cyber Risk Management Guidelines. This session covers collaboration between shipowners, integrators, and suppliers for compliance, and explores best practices in cyber risk management, providing strategies to address evolving cyber threats and regulatory challenges in the maritime industry.

Keywords: Maritime cybersecurity, IACS E26/E27, IMO Maritime Cyber Risk Guidelines, beyond compliance



17:00-17:30

Maritime Autonomous Surface Ships (MASS): Japan's Progress and IMO code

Muneyuki Kokudai

Technical Solution Department (TSD)

Nippon Kaiji Kyokai (ClassNK)

Efforts to develop Maritime Autonomous Surface Ships (MASS) are gaining momentum globally. The IMO MSC has agreed on a work plan to set forth mandatory requirements effective from 2032. The presentation covers trends in Japan, ClassNK's certification scheme, and progress in IMO code development, highlighting advancements and efforts in MASS from both local and global perspectives.

Keywords: Maritime Autonomous Surface Ships (MASS), Trends in Japan, Certification scheme, IMO code



17:30-17:35

Closing Remarks

Yasuhiro Ikeda

President

Ship Data Center Co., Ltd. (ShipDC)



For enquiries, please contact IoS-OP Consortium secretariat at consortium@shipdatacenter.com.



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