

# IoS-OP Taiwan Seminar 2023

**D a t e :** 27th October (Friday)

**T i m e :** 13:00-17:30 (Registration from 12:30)

**P l a c e :** VIP ROOM 5-7, 4F, Regent Taipei ( 晶華酒店 )

**Address :** No.3, Ln.39, Sec.2, Zhongshan N. Rd., Taipei City

## ----- Programme -----

13:00-13:05

### *Opening Address*

Tomoyuki Koyama

Chairman of IoS-OP Consortium  
CEO & President, Master Mariner  
JAPAN MARINE SCIENCE INC.



13:05-13:35

### *Latest Trends in GHG Emissions Reduction*

Tomohiro Harada

Technical Staff, Marine GHG Certification Department  
Nippon Kaiji Kyokai (ClassNK)

*Maritime industry is in tremendous shift towards GHG reduction. Latest regulations and trends of GHG reduction including IMO DCS, CII and EEXI is introduced. GHG related outcome of MEPC 80 held in July 2023, including change in IMO GHG strategy is elaborated. The presentation will touch some parts of EU-MRV and EU-ETS which is also a latest development.*

Keywords: GHG Reduction Regulations, MEPC 80, CII, EU ETS, Operational efficiency



13:35-14:00

### *IoS-OP Contribution to the Shipping Companies*

Yasuhiro Ikeda

President  
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. At the IoS-OP, the data is shared for creating new data driven solutions.*

Keywords: Benefit of data analysis, High frequency data, Big data, GHG reduction (CII), Innovations



14:00-14:30

### *Efforts to improve ship performance*

Takehiro Ikeda

Assistant Manager, R&D Division, Ship Hydrodynamics Department  
Akishima Laboratory Inc.



*With the environmental regulations such as EEXI and CII, reducing greenhouse gas emissions from ship operations has become an urgent issue. Akishima Laboratory provides engineering services related to performance improvements based on our accumulated expertise. In this seminar, we will explain what can be understood through the "visualization" of ship operation data and discuss potential performance improvement measures that can be considered.*

Keywords: Performance improvement, Monitoring data analysis, EEXI & CII

14:30-15:00

### *The latest technological development of the J-ENG UE engine for zero emission and digital transformation*

Daisuke Yasuda

Manager, Service Engineering Section Service Engineering Department  
Japan Engine Corporation



*Japan Engine Corporation (J-ENG) is trying to achieve Zero Emission as a licensor of two stroke diesel engine. J-ENG will introduce the latest technological development for zero emission and digital transformation.*

Keywords: Engine, GHG, Fuel, Zero emission, CBM

----- Coffee Break (25 min.) -----

15:25-15:55

### *Advanced PBCF and Wind Propulsion Devices*

Lee Enwi

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



15:55-16:25

### *CII solutions by retrofitting with antifouling coating system*

Hirohisa Mieno

Antifouling Coatings Tech. Dept. Technical Headquarter / Ph.D.  
Chugoku Marine Paints, LTD.



*Due to the requirement to reduce CO2 emissions, which is cause of global warming, efficient vessel operation is required by international treaty (EEXI/CII by IMO from 2023). Retrofitting with antifouling coating is one of the most efficient and easy solution that suitable for above situation. Example of vessel performance improvement by recent antifouling coating and information service "CMP-MAP" which contribute to performance improvement by visualization of hull (antifouling) performance.*

Keywords: Antifouling coatings, Retrofit, Data monitoring, Operational profile, Performance improvements

16:25-16:55

### *Introduction of the new IACS requirements on cyber resilience*

Capt. Naoki Saito

General Manager, Maritime Education and Training Certification Department  
Nippon Kaiji Kyokai (ClassNK)



*As vessels become more digitally connected, the shipping industry is increasingly vulnerable to cyber threats. A cyber-attack could disrupt operations, communication and even cause physical harm. To address the issue, IACS (International Association of Classification Societies) has adopted two new Unified Requirements (UR) on the cyber resilience of Ships: UR E26 and E27 with their mandatory implementation being 2024 next year. This presentation will discuss the outline of the requirements and the implication to the industry.*

Keywords: Cybersecurity, Digitalization, Compliance, IACS rules, Classification societies

16:55-17:25

### *The UR-E26 & UR-E27*

Rena Tan

Business Development Manager, Commercial Dept.  
Navarino



*What are they and how we can address them as part of the requirements for the vessel of the future.*

Keywords: UR-E26 & UR-E27 (Infinity / Spectrum / Angel)

17:25-17:30

### *Closing Remarks*

Toshiro Arima

Senior Corporate Officer, Director of Rule Development and ICT Division  
Nippon Kaiji Kyokai (ClassNK)



For enquiries, please contact IoS-OP Consortium secretariat at [consortium@shipdatacenter.com](mailto:consortium@shipdatacenter.com).



**IoS-OP Consortium**