

# IoS-OP Singapore Seminar

## CI measures and retrofits in existing ships

### 17th June (Friday) 10:00-17:30

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

10:00-10:05

*Opening Address*

Tomoyuki Koyama

Chairman of IoS-OP Consortium

Senior Managing Executive Officer, Chief Executive of Technical Headquarters,  
Nippon Yusen Kabushiki Kaisha (NYK Line)



10:05-10:35

*IoS-OP and activities*

Yasuhiro Ikeda

President

Ship Data Center Co., Ltd. (ShipDC)

*This presentation will introduce IoS-OP, the Internet of Ships Open Platform, which is a data-sharing framework promoted by ShipDC. It includes the concept of data ownership, IoS-OP common rules, key features and technical specification of the shore platform managed by ShipDC, activities of IoS-OP Consortium, and business cases led by private cooperation.*

Keywords: ShipDC, IoS-OP, Ship IoT, Data Ownership



10:35-11:00

*DanelecConnect IoT at sea*

Thomas Petersen

VP Marketing

Danelec

*Danelec simplifies data capture for ship owners, enabling them to future-proof their fleet and compete effectively in tomorrow's data-dependent, net zero economy. The company develops technologies to optimize safety, cost and performance of marine operations as a leading manufacturer of Voyage Data Recorders (VDR), Shaft Power Meters (KYMA) and provider of IoT infrastructure and ship performance monitoring solutions, with products installed on more than 10,000 vessels worldwide.*

Keywords: Value from maritime data



11:00-11:30

*The world's top speed GEO satellite broadband service "JSATMarine"*

Nao Shigenari

General Manager, Mobile Business Division, Global Business Group

SKY Perfect JSAT Corporation

*SKY Perfect JSAT Corporation is Asia's largest satellite operator with a fleet of 16 satellites. "JSATMarine" is the one of the world's top GEO satellite based maritime service in terms of speed as fast as 50Mbps (shore-to-ship) and 3Mbps (ship-to-shore) at monthly fixed rates in major shipping routes from Western Pacific Ocean region to Indian Ocean region.*

Keywords: Satellite, broadband, communication, VSAT



**IoS-OP Consortium**

11:30-12:00

*Advanced PBCF (Propeller Boss Cap Fins) for EEXI and CII*

Araki Mori

Manager, Sales B Group, Environment & Safety Related Devices 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

----- Lunch Break -----

13:00-13:30

SMARTShip: IoT & AI based Decision Support

Bala Sankaran

Co- CEO

Piyush Raj

Sr, Director, Product Management

Rajesh Nanda

Technical Account Manager

Uttam Kumar

Director, Product Management

Alpha Ori Technologies



*Alpha Ori Introduction and our Vision / Key problems we are solving / Key Strategic pillars of SMARTShip / SMARTShip Features and introduction / Closing and Thank You*

Keywords: IOT, AI, Automated Real Time, Sustainability, Digitalization

13:30-14:00

*Contribution to Safe Ship Operation by Main Engine Monitoring Systems of e-GICS Advance and CMAXS e-GICSX*

Bryan Lutes

Sales Gr., Diesel Engine Service Dept., Technoservice Div., Assistant Manager  
Mitsui E&S Machinery Co., Ltd.



*The CMAXS e-GICSX, a high-end monitoring system that uses AI to achieve highly accurate predictive abnormality detection, and the reasonably priced e-GICS Advance, which is based on the CMAXS e-GICSX but with reduced functionality, will be introduced with examples of abnormality detection and their potential for contributing to safe ship operations.*

Keywords: Main Engine Monitoring Systems, e-GICS Advance, CMAXS e-GICSX,  
Detection of predictive signs using AI, CBM

14:00-14:40

*Decarbonization in shipping industry & NYK's Green Business*

Takahiro Rokuroda

General Manager, Green Business Group

Nippon Yusen Kabushiki Kaisha (NYK Line)

1. Introduction of NYK Line

2. Decarbonization trend in shipping industry

3. NYK's Green Business activities

Keywords: decarbonize, hydrogen, ammonia, co2, startup



14:40-15:10

*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

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

15:30-16:00

*Overview of New Certification Service -Innovation endorsement-*

Noriyuki Kajita

Digital Transformation Center

Nippon Kaiji Kyokai (ClassNK)



*Introduce Innovation Endorsement Services that are developed to support spreading new innovative value introduced by Maritime Stakeholders. Explain 3 services, IE Notation, Product & Solutions Certification and Provides Certification. We hope our policy will be understood by all area of stakeholders in Maritime industry.*

Keywords: Innovation, Digital, Safety, Environment, Labour

16:00-16:30

*New Propeller for the new wave*

Masaya Inoue

Sales & Marketing / General Manager

Nakashima Asia Pacific Pte Ltd



*Nakashima Propeller will introduce countermeasures for the new regulation EEXI and CII that will start in 2023.*

Keywords: propeller, retrofit, EEXI, CII, ESD

16:30-16:50

*NAPA Logbook*

Jussi Siltanen

Senior Product Manager, Safety Solutions

NAPA Ltd



*NAPA Logbook is an electronic logbook solution for ships serving the same purpose as paper logbooks but also bringing additional benefits in terms of work time saving, data validation and data sharing. This presentation will show the benefits of shifting onboard to electronic logbooks, it's benefits and how it takes place, without forgetting the current status of international and flag regulation on the topic.*

Keywords: Logbook, MARPOL, Digitalization, Ship operations, Ship data

16:50-17:20

*Financial platform for Seafarers*

Toshiaki Fujioka

President, CEO

MarCoPay Inc.



*MarCoPay is an eWallet/financial platform is designed primarily for seafarers, their families and loved ones to gain financial freedom and to allow them to enjoy their lives even more. MCP will create new economic opportunities by providing attainable innovative products which used to be inaccessible.*

Keywords: Fintech, Cashless, Economic potential, APP

17:20-17:30

*Closing Remarks*

Toshiro Arima

Senior Corporate Officer, Director of Rule Development and ICT Division

Nippon Kaiji Kyokai (ClassNK)



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