## los-op singapore seminar

**Archives On-demand** 

## CII measures and retrofits in existing ships From 27th June to 31st August 2022

Opening Address
Tomoyuki Koyama
Chairman of IoS-OP Consortium
Senior Managing Executive Officer, Chief Executive of Technical Headquarters,
Nippon Yusen Kabushiki Kaisha (NYK Line)



No.1

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

No.2

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

SKY Perfect JSAT Corporation

No.3

The world's top speed GEO satellite broadband service "JSATMarine" Nao Shigenari
General Manager, Mobile Business Division, Global Business Group



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



No.4

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

No.5

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



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



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



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















No.9

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 propellercap 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

No.10

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



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

No.12

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

No.13

Decarbonization using Smart Digital Technologies < Archives On-demand Only>

Ossi Mettälä

Shipping Solution Sales, Sales Manager

NAPA Ltd

NAPA will improve your CII, bunker bill and safe navigation.

Keywords: Decarbonization, Digitalization, Sustainable shipping, Optimization, Voyage planning











No.14

POLARIS Report: Evaluate the ship performance with Fleet Data × Metocean < Archives On-demand Only > Trones Catharina

Transport Management Solutions Section, Sales Assistant

Japan Weather Association

As a GHG reduction measure in the DX era, we have started a new service for ship evaluation using Inmarsat's Fleet Data and POLARIS. Introducing JWA's efforts towards the 2023 CII rating.

Keywords: Metocean Forecast, Monitoring, GHG reduction, CII, Consulting

No.15

Energy-saving voyage by utilizing the ocean current <Archives On-demand Only>

Yoshiko Sato

Marketing Section, Social and Disaster Management Dept.

Japan Weather Association

Kazutoshi Horiuchi

Operating officer

Forecast Ocean Plus

Voyage using ocean currents is very useful for reducing GHG. We will introduce highly accurate ocean current forecast and examples of optimal navigation implementation using it.

Keywords: Metocean Forecast, Current, Optimal route, GHG reduction

No.16

GHG treatment in LNG Fuel Utilization <a href="https://www.archives.on-demand-only-">Archives On-demand-only-</a>

Kentaro Ue

Tokyo branch, Chief

VOLCANO CO., LTD

Nowadays, there should be a demand for environmental consideration. The safe and appropriate treatment of boil off gas generated on board is also required for LNG fueled vessels. VOLCANO will propose a solution to prevent boil off gas from being released to the atmosphere for ship owners who are considering the treatment of boil off gas.

Keywords: LNG, GHG, Emission regulations, Emergency safety measures

No.17

Reduction of CO2 Emission by premium antifouling coating system <Archives On-demand Only>

Hirohisa Mieno

Antifouling Coatings Tech. Dept. Technical Headquarter / Ph.D.

Chugoku Marine Paints, LTD.

Simulation of CO2 emission reduction by premium antifouling coating system and reduction of environmental impact of 60 months actual vessel applied by those system is introduced as an example of decarbonization efforts of maritime industries.

Keywords: premium antifouling coatings, EEXI/CII, retrofit, data monitoring, CO2 reduction

Closing Remarks
Toshiro Arima

Senior Corporate Officer, Director of Rule Development and ICT Division

Nippon Kaiji Kyokai (ClassNK)

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

