



皇家造船師學會暨輪機工程及海事科技學會
香港聯合分會
The Hong Kong Joint Branch of
The Royal Institution of Naval Architects
and the Institute of Marine Engineering, Science and Technology



香港海事科技學會
THE HONG KONG INSTITUTE OF
MARINE TECHNOLOGY

HKIE THE HONG KONG
INSTITUTION OF ENGINEERS
香港工程師學會
Mechanical, Marine, Naval Architecture & Chemical Division
機械、輪機、造船及化工分部

** Notice of Joint Technical Seminar**

Technical Seminar on Recharging the Maritime Industry – Engineering, Science and Technology

DATE / TIME:

25 November 2023 (Saturday) / 9:30am – 12:30pm (Registration at 9:00am)

VENUE FOR ON-SITE PARTICIPATION:

The Hong Kong Institution of Engineers, Chan Yat Mei Sophie Room, 9/F Island Beverley, No.1 Great George Street, Causeway Bay, Hong Kong (On-line participation is also available)

PROGRAMME HIGHLIGHTS:

Being part of the Hong Kong Maritime Week 2023 activities, the seminar with three topics on *Recharging the Maritime Industry – Engineering, Science and Technology* have been co-organised by HKIMT, HKJB of RINA & IMarEST and HKIE-MMNC Division.

SESSION 1:

“Warming Trend of Artic Climate and its Implications on International Shipping” by Ir Dr. Nicky Yun Fat LAM

This presentation aims to introduce the recent increasing trend of temperature in Artic and its impact on the northwest passage. The speaker will share his recent trip to Artic; Discuss the sea-ice retreat and how it affects the shipping business; what are the latest scientific findings about sea-ice/glacier retreat.

SESSION 2:

“Opportunities and Challenges for the Shipping Industry in the Green Electricity Conversion Industry” by Mr. Huafeng ZHAN

The presentation covers overview of Green Power Conversion Industry (Green power conversion industry solves the “bottleneck” problem of large-scale new energy transmission, provides support for building a new power system and solves the demand of carbon neutral fuels for downstream end users such as shipping and aviation enterprises); power selection for green ships (clean energy for large ships, methanol, ammonia and hydrogen); opportunities and challenges faced by the shipping industry (research and development of power equipment and sources of clean energy)

SESSION 3:

“Leverage the Power of Data, Machine Learning and AI to Improve Efficiency” by Mr. Ivan Wai Pong TAM

Maritime solutions and services leverage the power of machine learning and artificial intelligence to revolutionise efficiency, safety, and risk management in the maritime industry. We have developed advanced models and algorithms that provide actionable insights and enable informed decision-making. Maritime solution providers, authorisations and solution provider collected versatile and large amount of data every day,

what can be more effectively used? Sharing of how Industry Making use ML/AI in voyage planning, incident risk classification prediction, detention prediction and vessel trading pattern recognition.

BIOGRAPHIES OF SPEAKERS:

Ir Dr. Nicky Yun Fat LAM –

Associate Professor, Department of Geography, The University of Hong Kong

Ir Dr. Nicky Y.F. Lam is an Associate Professor at the University of Hong Kong. Before joining HKU, he had worked as an Assistant Professor at the School of Energy and Environment, CityU. Dr Lam is interested in a variety of climate and air quality research, including ambient air quality sampling, emission inventory development and future air quality and climate change modelling. Dr. Lam has been a trainer for climate and air quality models for various government agencies, including Hong Kong Environmental Protection Department (HKEPD) and Asia Center for Air Pollution Research (ACAP) in Japan. Currently, he is serving as a member of the Air Quality Objectives Review Working Group for Hong Kong Environment Bureau (HKENB), and application of numerical models to Environmental Impact Assessment (EIAs) for HKEPD.

Mr. Huafeng ZHAN –

Executive Director of CM Energy Technology Co., Ltd.

Mr.Zhan graduated from Wuhan University of Technology in 2008 with major in Marine Engineering. He worked as Mechanical and Electrical Engineer for ship repairing at Yiu Lian Dockyards (Shekou) Ltd (2008-2013) and was promoted to Production Manager for the Jack up project at China Merchants Heavy Industry (Jiangsu) Co., Ltd (2013-2016). Mr. Zhan served as the Human Resources Director of China Merchants Cruise Shipbuilding Co., Ltd. and the Head of Human Resources and Administration Department of China Merchants Industrial Group (2017-2022); Then he was promoted to Executive Vice President of Yiu Lian Dockyards Ltd in Hong Kong, introducing green technology for ship repairs (2022-2023). Since 2023, he has been working as the Executive Director of CM Energy Technology Co., Ltd. (HK.0206), dedicated to the field of new energy technology promoting the development of green shipping.

Mr. Ivan Wai Pong TAM –

Assistant Director of Commercial for Greater China, RightShip

Ivan Tam is a seasoned professional with over 15 years of experience in the maritime industry. He graduated from The Hong Kong Polytechnic University with a major in Electronic and Information System and later earned a postgraduate diploma from The University of Warwick, UK. Ivan has gained extensive experience in the maritime industry, with a focus on market development and strategy in maritime software solutions, technology, and leverage of big data. He has held various roles in the last decade, from the classification society DNV to software solution provider, and a leading maritime technology Wärtsilä. His roles provided him with the opportunity to take part in some latest hot topics projects such as fleet digitization, intelligence ship project in China, and tackling the emission target via ship retrofits and performance management.

LANGUAGE:

The presentation will be delivered in English and Mandarin

REGISTRATION:

This number of physical participants is limited to 70. Applications will be accepted on a first-come-first-served basis. Attendance certificates will be provided. For registration, please fill in the online registration form <https://forms.gle/cbyF3VZwhndYaJgf8> by 21 November 2023. Successful applicants will be notified by email. For queries, please contact Ms. Yoyo Chan, Honorary Secretary of the Hong Kong Joint Branch of RINA & IMarEST at email chan.ls.yoyo@gmail.com