



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

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

HK 工 E 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 Seminar****

Title: Technical Seminar on Marine Engineering and Technology

The seminar consists of three sessions:

Session 1

IMO MARPOL Annex VI – SO_x Cap of 0.5% by 2020, Challenges and Solutions

Synopsis:

0.5% SO_x global cap by 2020 has been confirmed by IMO Marine Environment Protection Committee (MEPC) at the 70th meeting in October 2016 and re-affirmed at the latest 71th meeting in July 2017. The new requirement creates considerable challenges for the shipping industry to install or retrofit exhaust gas cleaning system before 2020. This presentation will provide a brief introduction of the requirement and different kinds of exhaust gas cleaning system available in the market including CAPEX and OPEX consideration for ship owners and operators.

Speaker Biography:

Ir Dick D C Kam, after graduated from Hong Kong University with Bachelor's Degree in Mechanical Engineering, joined class society BUREAU VERITAS in 1991 as training surveyor. In the last 26 years, Mr. Kam has served various positions in Bureau Veritas including ship surveyor for new construction and in service ships, ISM auditor, operation manager and internal trainer for surveyors. Mr. Kam is currently General Manager of Bureau Veritas Hong Kong office.

Session 2

Recent Developments at IMO to address GHG Emissions from Ships

Synopsis:

Reduction of GHG Emissions from Ships has been a major goal of IMO. Energy efficient design standards for new ships and associated operational energy-efficiency measures for existing ships became mandatory in 2013, with the entry into force of relevant amendments to MARPOL Annex VI. An initial IMO GHG strategy is set to be adopted at MEPC 72 in spring 2018. MARPOL amendments to make mandatory the data collection system for fuel oil consumption of ships were adopted at the last session of MEPC and are expected to enter into force on 1 March 2018. They require data collection to start from calendar year 2019.

Speaker Biography:

Mr Sharad Gupta, having completed his Bachelor's degree in Marine Engineering, started his sea career in 1995 with Chevron Shipping. After rising to the rank of Chief Engineer with MSC Shipmanagement, Mr Gupta moved into the position of a Technical Superintendent with MSC Hong Kong in 2006. He has spent a better part of the last decade working with Misuga Kaiun HK as Technical Manager / Superintendent. In Jan 2017 he established Sygnus Marine, a consultancy and surveying firm in Hong Kong. Mr Gupta is also a Fellow of the Institute of Marine Engineers (India), Member of the Hong Kong Institute of Marine Technology and a Member of the Institute Of Chartered Shipbrokers (London).

Session 3

Engineering Forecasts and Monitoring for Offshore Construction Operations

Synopsis:

A successful offshore construction operation such as platform installation, decommissioning and subsea pipeline construction relies on a good engineering and planning before the operation. This also combines with the ability to grab the first available weather window to carry out the operation and plan for the downtime during the operation. The ability of forecasting the governing engineering criteria during the operation becomes an essential component leading to a successful marine operation. The engineering forecast will be based on the actual wave energy forecast by the UK Met Office. This seminar will present a methodology which is developed to provide supports to the marine operations. The presentation will give a summary of the status of the development and its limitations and applications. It will be focused on the forecast dynamic behaviors of the operation, pile stick-up motion and its direction and stress, and prediction of sagbend bending moment during subsea pipeline construction. The presentation will be concluded by presenting the latest development.

Speaker Biography:

Dr. Peter S K Lai is currently the Surveyor of Ships, Hong Kong Marine Department, and has been serving in both Shipbuilding and Offshore industries for 39 years. He was trained in Hongkong United Dockyards Ltd as an apprentice back at 1976 for 5 years. After served 2 years in Hong Kong shipbuilding industry, he left to study and work in UK. Before Dr. Lai joined Marine Department in April 2017, he worked in UK Offshore Industry and specialised in Offshore Marine Construction Operation. He worked with Saipem for 23 years and was their Technology Manager. He was responsible to lead, develop and recruit new technology to solve the challenge that the industry faced. He also established and ran the company's 2-year graduate engineer training scheme and the engineering software administration system. Dr. Lai was the winner of 2007 Ship Safety Award from RINA and LR Educational Trust and the 2nd prize of 2016 Saipem Innovation Trophy. This year he was also nominated as SNAME 2017 Fellow. This presentation will be from his work with Saipem leading to these awards.

Date : 25 November 2017 (Saturday)

Venue: HKIE, 9/F Island Beverley, No.1 Great George Street, Causeway Bay, H.K.

Time: 9:00 am to 12:00 Noon

Registration & Enquiries:

In order to encourage exchange of ideas, Q&A sessions will be available, and you are welcome to bring up queries, comments, etc. This seminar is free of charge and prior registration is required on first-come-first-served basis. On-line registration via HKIE-MMNC website at <http://mc.hkie.org.hk/> is available or by return of the following slip. CPD certificates will be available. For enquiries, please contact Mr K H Lai by email at laikimhing68@gmail.com

Registration Form

(To: laikimhing68@gmail.com; *delete where applicable)

To: Event Coordinator

Please reserve **one** / _____ seat for me to attend the seminar “**Technical Seminar on Marine Engineering and Technology**” on 25 November 2017 (Saturday).

Name : _____

Membership No.: (*HKIE / HKIMT / IMarEST / RINA) _____

Others (please specify) _____

Signature: _____ Tel.: _____ Fax: _____

Email: _____ Company Name: _____

Date: _____