



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



Hong Kong Institution of Engineers

Mechanical, Marine, Naval Architecture and Chemical Division

**** Notice of Joint Seminar****

Half-Day Seminar on

**Green By Design – Alternative Energy Sources for
the Powering of Ships**

1. Title: “What do you need to know about LNG as a marine fuel”

Synopsis: Air pollution generated by ships has been a major concerns of many port cities. The marine industry is under pressure to reduce the emission of pollutants which would damage human health. Such pollutants come in the form of sulphur oxides (SO_x), nitrogen oxides (NO_x), particular matters (PM), carbon dioxide (CO₂) and other green house gas (GHG). The IMO has developed international regulations in controlling the emission of SO_x, NO_x, PM via international convention (MARPOL Annex VI), and controlling the emission of green house gas is currently under heated debate. There are technical and commercial challenges in meeting the emission requirements, and one of the solutions in a holistic manner is the use LNG fuel on ships. This paper described the background, the legislative drivers, commercial considerations, and highlights the technical issues when such fuel is used.

Speaker: Mr. David Power, Lloyd’s Register Asia, Marine Manager for Hong Kong and Taiwan

David is a Professional Engineer and is qualified as a Naval Architect and an Aircraft designer. He has worked for Lloyd’s Register for almost three decades, over twenty years of which have been in East Asia. David’s skills have seen him work closely with major Asian shipyards and owners and he has also been involved with several significant offshore projects. David moved to Hong Kong in 2002 and, as part of his spare time activities, he tries to keep involved with the local engineering community by helping provide and promote engineering education and training.

2. Title: “Marine LNG; the equipment perspective”

Synopsis: LNG is an established fuel in the power plant and marine businesses. Current marine applications, like LNG carriers, are linked to specific cargoes or geographical locations, whilst feasibility studies are requested for nearly every imaginable application. Dual fuel engines have been in operation for well over 1.5 million running hours. Gas diesel and spark ignited engines add many more hours to this total. This presentation aims to share equipment considerations based on nearly 40 years of Wärtsilä gas fuelled engines.

Speaker: Mr. Koen Vonk, Manager Solution Engineering, Wärtsilä China Ltd.

Koen Vonk trained as a Naval Architect. During the past 8 years, he has held several engineering positions within Wärtsilä related to design, R&D and sales. He is currently involved in machinery optimization for economic operation and lowest environmental impact across a range of ship types.

3. Title: “Seeking the Ultimate Marine Fuel – Marine Powering Solution using Alternatives Energy”

Synopsis: Air pollution from exhaust gas emission of diesel engine burning traditional hydrocarbon fuel is a major concern for many countries. However, continuous growth of the world seaborne trade would lead to significant increase of emission by international shipping. There is a strong demand of clean energy to solve the conflict between environment protection and economic growth. This paper described the key drivers for using alternative energy with less impact on environment and the available technology including natural gas, fuel cell, wind power and hybrid powering system.

Speaker: Mr. Dick Kam, Bureau Veritas Hong Kong, Marine Manager.

Dick is a Chartered Marine Engineer. He has worked for Bureau Veritas (BV) as Marine Surveyor and Auditor for the last 20 years. Dick is also a BV regional trainer for ship's survey and audit.

Date: 25 June 2011 (Saturday)

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

Time: 9:30 a.m. to 12:30 p.m.

Registration & Enquiries :

In order to encourage exchange of ideas, Q&A sessions will be available, and you are welcome 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://www.hkie-mmnc.org> is available or by return of the following slip. CPD certificates will be available on request. For enquiries, please contact Ir YM CHENG by email at yimingcheng@gmail.com.

Registration / Reply Form

(Email: yimingcheng@gmail.com, or Fax: 2542 4841)

Please reserve one seat for me to attend the Seminar event on **25 June 2011 (Saturday)**

Name : _____

Membership No.: (HKIE / HKIMT / IMarEST / RINA) _____ Others (please specify) _____

Signature: _____ Tel : _____ Fax : _____

Email : _____ Company Name: _____

Date: _____