eMARINA

The quarterly newsletter of
The Hong Kong Joint Branch of The Royal Institution of Naval Architects
and The Institute of Marine Engineering, Science and Technology,
and The Hong Kong Institute of Marine Technology
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
及香港海事科技學會季刊

Vol. 4 December 2017

HKJB & HKIMT Activities

Maritime Career Planning Programme for the Secondary School

For promoting the maritime career opportunities, Yuen Long District Secondary School Heads Association, The Maritime Professional Promotion Federation (MPPF) and The Hong Kong Institute of Marine Technology (HKIMT) work together for a career planning programme for secondary school students studying in S.5 and S.6, to introduce the different career opportunities/requirement, from the local vessels to the ocean going vessels; from the shipyards to the shipping management; and from port authority to the financial/legal/business supports. Meanwhile, the training and education for various maritime sectors will also be introduced.

A group of 12 students selected from four secondary schools will go through seven activities to learn various sectors of the maritime industry. They will receive a complete picture of the maritime career and present to their classmates afterward.

The launching ceremony was held in Marine Department on 7 October 2017. The functions of the Marine Department and the job opportunities were introduced. The students also learned the operation of our busy harbour during their visit to the Vessel Traffic Centre and the Maritime Rescue Coordination Centre.

A visit to a cruise ship, Star Pisces was held on 14 October 2017. The Captain and his crew talked to

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river trade vessels on 27 January 2018. Other activities on visiting dockyard, Hong Kong Maritime Museum and sea experience are being scheduled.

(Reported by Dr. K S Fung)

the students on the life on a cruise ship and ship operation during the reception and a visit to the bridge.

The upcoming activity will be a visit to Maritime Services Training Institute (MSTI) and the introduction of job requirement and job opportunity in pleasure vessels, local crafts and

2017 HKIMT/HKJB Annual Ball

The annual ball was held at the Grand Ballroom, Kowloon Shangri-La Hotel, Kowloon on 10 November 2017. The popularity of this wonderful and enjoyable event continued this year. A total of 37 tables and 376 guests attended this event.

The age-old tradition of the Annual Ball was followed. Two pipers led the VIPs into the banquet hall at 7:30 p.m. and the ceremonial whisky presentation to the pipers marked the officially

Pipers led VIPs into the hall

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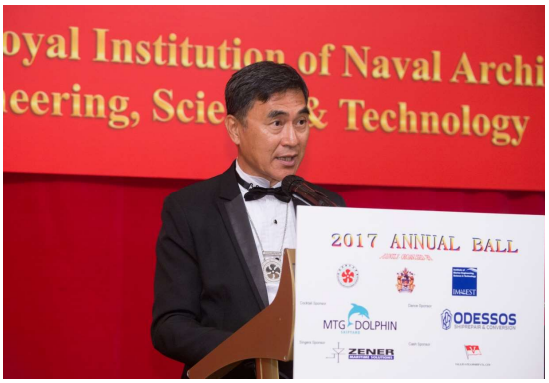
opening of the Annual Ball. At the beginning of the event, the Chairman of HKIMT- Ir M.C. CHAN and Chairman of HKJB- Ir Ben LAU delivered two short speeches to welcome all the guests who had participated in the the 2017 Annual Ball. The Ball Organizing Chairman - Dr. Nelson YU presented the Appreciation Letters to the four activity sponsors. The President's Commendation Award was presented by the Vice President of IMarEST U.K. – Ir K. S. SZETO to Ir Stanley LUI – the past Chairman of the HKJB for his contributions to the Branch and the IMarEST over the years.



Speech by Ir M. C. Chan – Chairman of HKIMT

Speech by Ir Ben LAU – Chairman HKJB

Ir K. S. Szeto – Vice President of IMarEST U.K. presented "President Commendation Award" to Ir. Stanley LUI

After the committee members of two institutes make a toast to the guests, dinner was served. The live-band, Philip & Star Band started to fill the ball room with popular dancing music. A Star Singer from Thailand – Jaruek Virmakit began to sing the legendary songs from Elvis Presley. J. Motion Dance Academy warmup the floor by performing a Belly Dance and a Samba Dance. The floor was heated up after guests were invited to join the dances while they were still dancing. The dance and singing performance were superb and everyone had a wonderful and enjoyable night.

HKIMT and HKJB Committee Members' make a toast to the guests

Having enjoyed myself tonight, one thing was certain that I would be beating down the doors next time when such parties were held. If anyone ever gave me the chance to take part again, the only thing I would ask is, “Where are my suit and dancing shoes?”

We were very thankful to those companies that have not only participated in this activity but also sponsored the dinner tables and gifts. Without them, the annual ball could not be sustainable and so successful.

Note of Thanks To Supporters

The 2017 Annual Ball Organizing Committee expressed their sincere and heartfelt thanks to the following Activity, Table and Gift Sponsors for their generosity and unfailing sponsorship, donations and gifts in this year’s annual ball.

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(Reported by Ir Albert W.S. LO)

60th Anniversary of Guangdong Society of Naval Architecture and Marine Engineering

Guangdong Society of Naval Architecture and Marine Engineering (GDSNAME) held its 60th Anniversary Ceremony on 16 November 2017 in Guangzhou Yang Guang Hotel. Apart from the peers from Mainland China she also invited many marine industry peers from Hong Kong, representatives from HKIE - MMNC, Joint Branch of RINA and IMarEST, HKIMT, IMarEST NEAD to

join her happy moment. The social function attracted many friends, stakeholders and government officials together to share the achievements from GDSNAME in past 60 years.

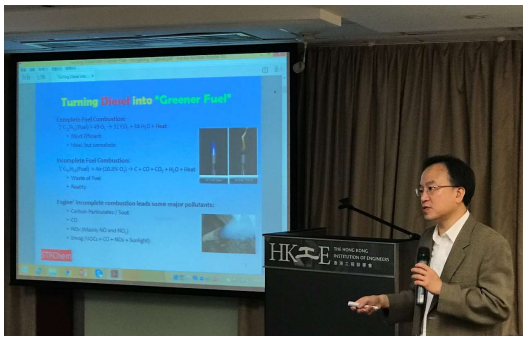
GDSNAME was founded in 7 April 1957 from a group of units of shipbuilders, ship-repairers, naval army, fish boats repairers and marine authority in Guangzhou. Committee members are voluntary basis to promote marine industry and technology in Guangdong province. With the efforts of GDSNAME, Guangdong has become one of the major shipbuilding and ship-repairing industry bases amongst Shanghai, Da Ling and Fujian in China. The current president of GDSNAME is Mr. Ju Jin.

(Reported by M.C. Chan)

Technical Seminar on Innovative Nano-Micelle Diesel Additive

Reduction of carbon footprint is a hot topic in recent years. Turning diesel into a greener fuel would be one of the effective ways to reduce exhaust emission. A technical seminar on the innovative Nano-Micelle Diesel Additive was held at 10 October 2017. This seminar was presented by Dr David W Y Leung - Technical Director of Syn-Tech Fuel Management & Technology Co Ltd.

It is well known that additives in fuel can improve fuel combustion in engines. But how can diesel additives turn diesel into a greener fuel and reduce toxic exhaust emissions? Dr Leung's company has the answer by introducing the Nano-Micelle Diesel Additive in diesel.



Dr David W Y Leung's Presentation

As this diesel additive is added to diesel fuel, it diffuses immediately with the fuel forming minute nano-micelles. During the fuel injection process, the fuel injector atomizes diesel into the combustion chamber. The resulting mixture will contain fine droplets of diesel fuel and the nano-micelle additive. This combustible fuel mixture will then be compressed by the engine before the combustion process takes place. As the mixture compresses, pressure and temperature of the mixture will rise. When the additive is heated to a temperature above 220℃, it explodes. The explosion only takes place at the microscopic level within the diesel fuel thereby causing a secondary atomization of the diesel fuel droplets. As a result, the diesel is burnt much more effectively and efficiently in the combustion chamber of the engine.

To prove the effectiveness and capability of Nano-Micelle Diesel Additive, Dr Leung had carried several in-house experiments. External. experiments were also conducted by the Department of

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Mechanical Engineering of The University of Hong Kong and The Hong Kong Polytechnic University. The results shown that fuel efficiency had improved after using the additive, which meant that there would be a reduction of fuel consumption and cost. However, there were insufficient experimental results to conclude that the additive could also reduce NOx emission. In order to fulfil the emission requirements for both marine, vehicular and non-road mobile machinery, Dr Leung said that he would take every opportunity to evaluate the effect of the additive on NOx reduction in future.

To conclude, Dr Leung's presentation on the use of Nano-Micelle additive in diesel fuel had shown the potential of this additive to turn diesel into a greener fuel. The seminar ended with a question-and-answer session. A plaque was presented to Dr Leung's as our appreciation to his informative and attractive presentation.

(Reported by Mr Reggie W K Ho and Ir Leslie Y K Lee)

Marintec China 2017 and the Senior Maritime Forum

This year the All China Maritime Conference and Exhibition: Marintec China 2017 and Senior Maritime Forum was held at Shanghai New International Expo Center, Shanghai from 4 - 7 December 2017. The opening ceremony was held on 4 December 2017 at Kerry Hotel Pudong Shanghai, China. Representatives from Hong Kong Institute of Engineers - Mechanical, Marine, Naval Architecture & Chemical Division; Joint Branch of RINA and IMarEST; and HKIMT were invited for the opening ceremony and Senior Maritime Forum.

Mr Xing Wen-hua (邢文華) was the new President of Shanghai Society of Naval Architects & Marine Engineers to host this event, honourable guests including Mr. Luo Wen - Vice Minister, Ministry of Industry and Information Technology, PRC; Mr. Zhou Bo - Executive Vice Mayor of Shanghai Municipal Government; Birgit Loyland - Director General of Maritime Department, The Ministry of Trade, Industry and Fisheries, Norway were invited to deliver the opening speeches.

After the opening ceremony, our Hong Kong delegates attended the Senior Maritime Forum and visited the maritime industry exhibition halls from 5 - 7 December 2017. The theme of this year

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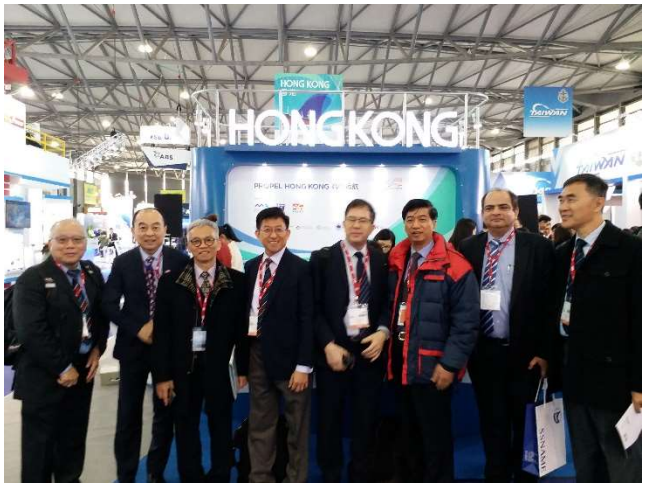

Marintec China 2017 was Innovation, Smart Manufacturing, Collaboration. About 60 papers presented in the Forum covering topics on Shipbuilding & Ocean Engineering; Shipping and Ports; Cruise; Maritime Finance and Law; Marine Technology and Equipment. For the exhibition there were 4 exhibition halls for international companies and organisations; and 4 exhibition halls for China enterprise and organisations. Occupying a total floor area nearly 94,000 meters square, it is an event worth for maritime industry stakeholders and participants to take part.

(Reported by Ir. M. C Chan)

Risk Assessment Development on Stability

A technical talk on “Risk Assessment and Latest Development of Stability by Dr. Evangelos Boulougouris from Department of Naval Architecture, Ocean and Marine Engineering (NAOME), University of Strathclyde on 16 December 2017 morning was organized by HKJB at short notice. Dr. Evangelos gave a brief introduction of University of Strathclyde and the research works undertaken by NAOME, such as Time-Domain Simulation of the manoeuvring of ships in deep and shallow water, Life-Cycle Risk Management, Cost-effective measures of risk reduction, Parametric Rolling of the Tumblehome Hull using CFD, Investigation of the 2nd Generation of Intact stability Criteria in Parametric Rolling and Pure Loss of Stability, etc. All these R & D projects are funded by IMO, DNV-GL and Royal Carribean Cruise. The talk attracted 12 members from HKJB & HKIMT members to attend and all of them were benefited from the update development of stability and risk assessment.

(Reported by Ir Albert W S LO)

HKJB & HKIMT Coming Activities

Date	Event
9 February 2018	How to lengthen machineries' time between overhaul? From 14:00 – 17:30, 10th Floor United Conference Centre, Admiralty
9 February 2018	Ship owning – changes and challenges. From 18:30 – 20:00, Indian Recreation Club, 63 Caroline Hill Road, Sookunpoo Valley, Hong Kong
10 February 2018	Technical Visit to Guangzhou Shipyard and South China University

News

Call for Paper

for detail :
http://www.paames2018.org/

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The HKIMT & HKJB Student Paper Award 2018

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