MARINA

The Quarterly Newsletter of
The Hong Kong Institute of Marine Technology and
The Hong Kong Joint Branch of The Royal Institution of Naval Architects
and The Institute of Marine Engineering, Science and Technology

香港海事科技學會及皇家造船師學會
暨輪機工程及海事科技學會香港聯合分會季刊

Vol 4 : December 2011

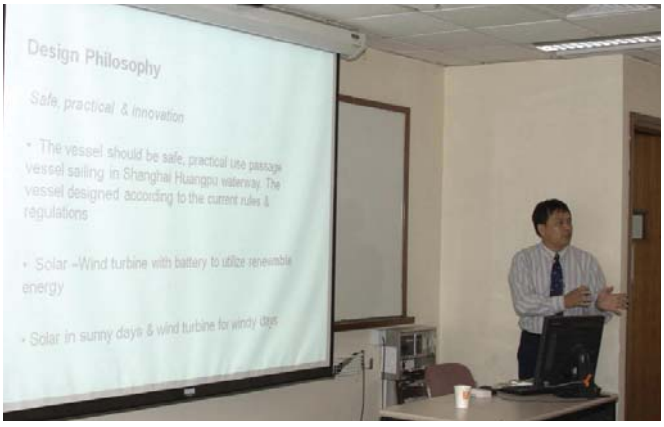
HKJB & HKIMT Activities

Power Management Design

On the 25 Oct, 2011, Dr Wang Beitian – a surveyor of ships from the Marine Department of HKSAR, gave a technical talk to members of HKJB/HKIMT/HKIE – MMNC on his experience in the design and trial of a hybrid powered boat using low resistant hull form, light weight structure material, high efficiency propelling, high performance light weight Li-Fe battery system assisted with solar panel and wind sail / turbine as propulsion power.

Dr. Wang explained to us that the vessel was equipped with a Double Mode hybrid propelling system. A diesel generator set was installed to provide enough power in busy harbor waterway. Based on the vessel's resistant curve, the Power Management System was designed to monitor the battery energy level and to control the solar panels to optimize their efficiencies. A large electronic display was provided onboard to show the real time shipboard power management system data with animation to the passengers for education purpose.

Dr. Wang said that the existing Li-Fe battery system used on land can generate power up to 1000 KVA, but occupying quite a lot of space. This pilot hybrid power boat can only generate power of about 100 KVA and so further design and development on Li-Fe battery system for marine use has to be carried out. On the safety side, charging and maintenance to Li-Fe battery system have to be monitored carefully in order to prevent explosion.



Dr. B.T. Wang is presenting the design philosophy of the power system

HKJB Chairman Ir. Y.M. Cheng presented souvenir to Dr. B.T. Wang

As a whole, the design of hybrid power boat continues to grow due to environmental issue and recently NYK announced that one super Eco hybrid powered vessel is under design and will soon be under construction, and hopefully it will be launched around 2030.

This seminar attracted about 40 participants and during the Q & A sessions, participants raised more discussions on the design of hybrid powered boat.

(Ir Tang Kai Fun)

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Technical seminar on "Lean and Green"

On the 11 Nov. 2011, a seminar presented by Dr Mike Chan was jointly organized by HKJB/HKIMT/HKIE-MMNC at the HKIE Seminar rooms talking about challenges for the ship repair industry in China by using the concept of "Lean & Green".

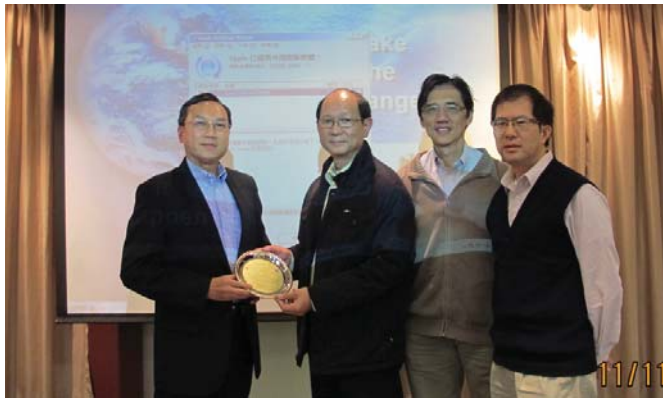
Dr. Chan first explained that the existing problems for ship repairing industry were due to tight completion date, quality problem, environmental issue as well as price issue.

Since 1970 till now, a lot of new ships were constructed and ship owners rather have their old ships being scraped than repairing. This was mainly due to more stringent rules and regulations imposed in ship recycling which had caused a lot of pressure to the ship repairing industry to survive.

Dr. Chan explained the concept of "Lean" technique being used successfully in the manufacturing industry plus the recent "Green" concept together with the "vision and focus" from the top management. He expressed that ship repairing industry should also go "Lean and Green" in order to sustain their business. By going "Lean and Green", ship repairing industry needs a cultural change as stressed by Dr. Chan.

In order to implement the cultural change, a systematic approach by using "Process Performance Enhancement" (PPE) is needed. Dr. Chan explained the triangle for continuous improvement including "People", "Processes" and "Performance". Once the performance gap has been identified, then by using the technique of bridging the gap, ship repairing industry can sustain their core business. This seminar had attracted more than 40 participants and during the Q & A session, participants explored more information on the process performance enhancement used in the ship repairing industry.

Dr. Chan is presenting the concept of 'Lean and Green'



HKJB Chairman Ir Y.M. Cheng (left), HKIMT Chairman Ir. K.F. Tang (2nd from right) and President of NEAD of IMarEST, Ir. Alan Tsang (right) jointly presented souvenir to Dr. Mike Chan

(Ir Tang Kai Fun)

Student career talk

On the previous MARINA issues, we have started to introduce Marine Professional career to young students in order to give them more marine career news, information and opportunities to join this field.

Following the above, HKJB did arrange a student career talk on 23rd Nov., 2011 at HKPU to mechanical engineering students where they came from HKU/CUHK/HKUST/HKPU.

Several speakers shared their sea going experience with the students. The first talk was presented by Ir K.K.Lo, an engineer from HKPU. He talked about his duties onboard the vessel and how he made use of his spare time to study and how keen he wanted to learn. He emphasized that he could travel to most of the countries at the same time without paying any money and at later stage he could find a job

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Ir K.K. Lo introduced his seagoing experience onboard his first ship back in early 1970s.

ashore very easily. As the job nature of marine engineer is diversified, their vast experience can create some new ideas and contribute to help the society to improve our livings. Ir Lo also showed to students a lot of interesting photos regarding his life at sea during his presentation.

The second talk was followed by Captain Marso Law. He stated that once joining the sea, new life of living will begin especially when colleagues onboard ship come from different parts of the world. One can learn international languages during one's life at sea when meeting a lot of people from different nations with different cultures. Also one can have the chance for free traveling to a lot of countries or cities but most importantly, within just five to six years after obtaining the First Class Engineer Certificate, the salary would be very attractive.

The third speaker was the examiner of Marine Department, HKSAR – Ir K. F. Kwan. He gave a talk on the career path and prospect of certificated Marine Engineer officers and the Seafarers Certification System for engineer cadets leading to Class 1 Marine Engineer Officer Certificate of Competency. He suggested that students should get sea-time experience on ocean-going vessels (OGV) instead of working on River Trade Vessels for the reason that they can apply for the sea-going Training Incentive Scheme to receive a monthly subsidy from the Government of HK$5,000 during their cadetship training. Such a scheme is supported by the Hong Kong Maritime Industry Council. Ir Kwan said that within 10 years time, many of the surveyors working in the Marine Department of HKSAR will retire, so it will be the best time within the next two years to start the maritime career path.

The last speaker came from Lloyd's Register – Ir Ben Lau. He gave the audience a brief history for the setting up of Lloyd's coffee shop in U.K. during 1760. Actually the purpose for Mr. Lloyd to set up a coffee shop was where people could have a place to talk and discuss the selling and buying or maintenance or repairing of vessels. And in 1914 Lloyd's Register was set up. And now Lloyd's Register offices have been working in many places around the world. For students after gaining their sea life and the necessary experience and academic qualification plus Professional Membership from either IMarEST or RINA, and with the right calibre, then they can easily find a job from Lloyds. Register HKJB/HKIMT continues to arrange similar career talks to mechanical engineering students from local universities and IVE in order to promote the maritime industry to young students.

(Ir Tang Kai Fun)

Capt,. Marso Law shared his early sea-going life with the students

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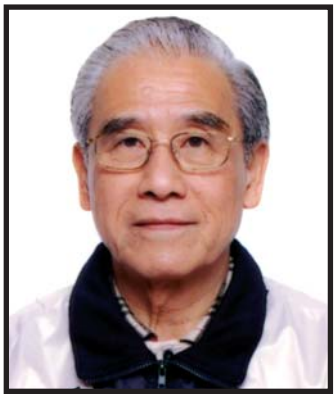
Obituary

In memory of Mr TAM MO PUN



Born in 1933, Mr Tam graduated early in the HK Technical College with distinction in Higher Certificate in Naval Architecture in 1956. Between 1950 to 1968, he served with the Taikoo Dockyard & Engineering Co., Ltd as ship draughtsman apprentice to senior ship draughtsman. Then he worked with Yiu Lian Machinery Repairing Works Ltd till 1981 as Development Manager. One of the major projects handled was the construction of Yiu Lian shipyard in Tsing Yi Island valued amount to HKD 110 millions.

Thereafter he continued to contribute his expertise in naval architecture and marine engineering via working in various companies.

Since 1984, he set up his own consulting company. Highlights of projects included acting as Independent Checking Engineer on behalf of the HK Government for 6 steel pier barges for the Government Dockyard, designed & built 29 GRP passenger launches deployed for the HK Airport New Project etc. In 2007, he became Authorised Surveyor qualified for carrying out ships survey stipulated under the Cap 548 Merchant Shipping (Local Vessels) Ordinance.

In view of the professional qualification, he became the Member Of the Royal Institution of Naval Architects, UK as early in 1964 and Chartered Engineer, UK in 1972.

Mr TAM passed away peacefully in October 2011 due to illness.

(by Ir YC Tang)

Visit to Marintec China 2011 and Celebration of 60th Anniversary of SSNAME

The grand biennial conference cum exhibition event "Marintec China 2011" was held in Shanghai from 29 November – 2 December 2011. In February this year, it also marked the 60th Anniversary of the Shanghai Society of Naval Architects and Marine Engineers (SSNAME). In order to extend celebration of this very special occasion, SSNAME had also invited all the friendly overseas maritime engineering societies to a "get-together" immediately before the opening of the Marintec, to extend celebration of their 60th birthday and to explore future cooperation among the societies.

North East Asia Division of IMarEST, HKJB of RINA and IMarEST, HKIMT and HKIE – MMNC Division were among those invited by SSNAME to attend the get-together celebration and Marintec. Congratulatory messages from the respective learned societies were sent to SSNAME in early February this year to commemorate and celebrate their 60th anniversary. The Chairmen, committee members and council members of the respective learned societies from Hong Kong had also formed a delegation to participate the above events.

The get-together of maritime engineering societies was held in the Jin Jiang Hotel in the evening on 28 November. We met quite a number of old and new friends who were representatives of other learned societies from different countries including South Korea, Singapore, Taiwan, UK and USA. A discussion on "How to Run the Society in the Current Depressed Ship Market" chaired by Prof. Miao Guoping was

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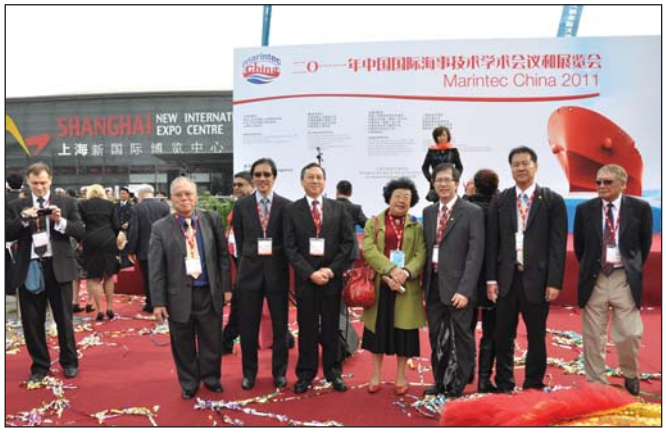

Hong Kong delegates group photo in Marintec China 2011 in Shanghai

conducted. Prof. Miao gave a presentation on behalf of the President of SSNAME – Prof. Zhang Shengkun on the above topic. It had aroused a lot of discussions from the participants. During the discussion, some participants expressed their supportive views, some expressed that they didn't come across any depression in their region and some were very optimistic about the future as there are many resources in the ocean requiring the efforts of marine engineers/technologist to explore. An agreement signing ceremony between SSNAME with RINA of UK and SNAK of South Korea was held after the discussion. It was then followed by an exchange of gifts to commemorate the 60th anniversary of SSNAME and the celebration dinner.

The opening ceremony of the Marintec China 2011 commenced at 9:30 am on 29 November at the Shanghai New International Expo Center. The delegation went for a tour in the exhibition halls after the ceremony. The scale of exhibition was quite large which had extended over 5 exhibition halls and there were exhibitors from China and also from overseas. Major exhibitors include shipbuilders, manufacturers for engine, lifting equipment, control system, propeller, boiler and many other ship auxiliary equipment, classification societies, local and overseas government organizations, learned societies etc. were also among the exhibitors. It was very interesting to tour in the exhibition halls and obtained the relevant information from the exhibitors which were of interest to you.

The Senior Maritime Forum (Keynote Session) of the Marintec China 2011 was held in the afternoon at the Kerry Hotel. Keynote speeches were presented by Senior Officials of the PRC Government and key representatives of the leading maritime organisations. They included Mr. GUO Yanyan – Leader of Ministry of Industry and Information Technology and MR. XU Zuyuan – Vice Minister of the Ministry of Transport, Mr. SHEN Jun – Vice Mayor of Shanghai Municipal People's Government, Mr. Noboru Ueda – Vice Chairman of IACS and President of Class NK, Mr. Clay Maitland – Founding Chairman of NAMEPA, Dr. Peter M. Swift – Director of the Maritime Industry Foundation and Chairman of Piracy Humanitarian and Mr. Martin Stopford – Managing Director of Clarkson PLC etc. The topics of the keynote speeches covered various aspects including government reform direction, safety and environmental regulations and strategic challenges in shipbuilding. A reception dinner was held in the same hotel in the evening after the forum.

There were many other papers presented in parallel sessions on the following day on 30 November. The topics included shipbuilding, ocean engineering and maritime finance etc. A marine equipment procurement session was also arranged.

Apart from participating in the conference and exhibition, part of the Hong Kong delegation had also took the opportunity to visit various organizations in Shanghai.

a) On 28 November, the President for NEAD – Mr. Alan Tsang jointly with Mr. Louis Szeto, Mr. Stanley Lui and Mr. Albert Lo had visited the Shanghai Maritime University and held discussion with Prof. JIN Yongxing – Vice President, Ms. YU Hongrong – Director of International Office and other senior staffs of the university. They also paid a visit to their 360o navigation simulator and other related training facilities which were very impressive.

b) In the afternoon on 29 November, Mr. Alan Tsang together with Mr. Louis Szeto and Mr. Albert Lo visited the Lloyd's office in Shanghai and held discussion with their training manager and staff on exchange of cooperation.

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c) On 30 November, Mr. YM Cheng – Chairman of HKJB together with Mr. Albert Lo visited the Wartsila workshop in Shanghai.

The whole Marintec China 2011 visit was considered as pleasant and fruitful in enhancing the relationship and future cooperation not only with SSNAME but also other learned societies from different countries. With IMarEST and RINA being part of the supporters of the event, it had also provided a good opportunity in promoting our institutes to many other operators/ practitioners within the maritime industries locally in China and overseas.

(Alan Tsang)

Annual Ball 2011

As usual, this year's annual ball was jointly organized by the Hong Kong Joint Branch of the Royal Institution of Naval Architects (RINA) and the Institute of Marine Engineering, Science & Technology (IMarEST) together with The Hong Kong Institute of Marine Technology (HKIMT) which was held on the 4 Nov, 2011 at the Grand Ball room of Kowloon, Shangri-La Hotel in Tsimshatsui East, Kowloon, Hong Kong.

This year we had 24 tables coming from different marine sectors such as Classification Societies, shipyards, coating/paint suppliers, shipping management/service engine makers and of course other VIP guests from Guangdong SNAME, Macau Government dockyards and other sectors as well as some dinner and gift sponsors.

The programme of the function included speeches by both chairmen of HKJB of RINA and IMarEST and HKIMT; keynote speech by Guest of Honor Mr. Alan Tung – Deputy Chairman of HKSOA & Director of Island Navigation Corporation International Ltd; dancing and lucky draws. (For details of MR. Alan Tung's speech, please refer to other pages of this MARINA issue.) The start of the function for VIP guests entering the ball room was lead by a piper which was different from previous years by using life music. Another high light of the evening was the star singer Elvis of the Philippine, all the way from Philippines specially for this ball event. HKJB/HKIMT must give our heartfelt thanks to the Ball Organization Committee Chairman and his team as well as those dinner/gift sponsors to make this event so successful and unforgettable.

This is really a big event every year for Marine Professional and marine related sectors gathering together to exchange ideas and market trench in the marine field.

(Ir Tang Kai Fun)

Mr. Alan Tung's speech on Annual Ball 2011

Madam Lau, Director Liu, Chairman Tang, Chairman Cheng, Ladies and Gentlemen

I am honored to be here today at the occasion of the 2011 Annual Ball, Jointly organized by HKIMT and the Hong Kong Joint Branch of RINA and the Institute of Marine Engineering, Science and Technology.

I appreciate your invitation. As I seem to be the primary obstacle standing between all of you and a good time tonight, I will make sure that my comments are short.

The shipping market is going through a painful readjustment across most major sectors. The combination of lesser demand, oversupply, and depleting credit has put a degree of stress on the industry. Against this backdrop, oil prices and bunker prices remain high, and international regulatory demands on energy management, emission, and anti fouling, just to name a few, are becoming increasingly stringent. Faced with these challenges, technological

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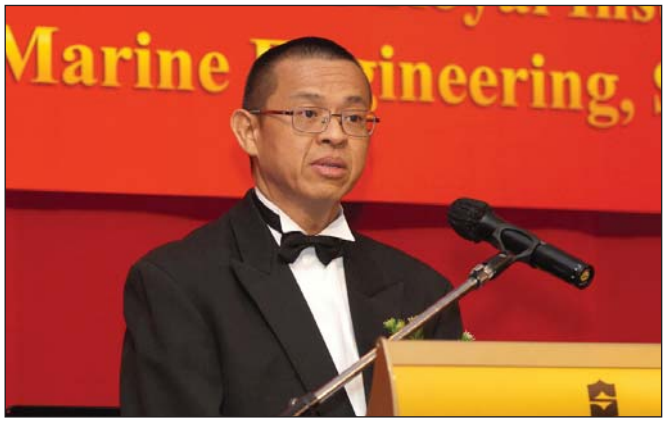

Keynote speech by Honor Mr. Alan Tung – Deputy Chairman of HKSOA & Director of Island Navigation Corporation International Ltd.

changes have again become one of the headline issues of our industry. Over a few short years, electronic main engines, improved hull forms, new painting, and other energy saving measures are becoming a standard feature of the typical newbuilding. Longer term and more innovative approaches from air bubble or air cavity hull structures to alternate fuel sources are being analyzed. Solutions for new regulations such as ballast water treatment continue to be developed but remain fairly untested. In the meantime, there continues to be a movement toward regional legislation regarding different rules and regulations.

Undoubtedly, the industry cannot overcome these technical and regulatory challenges without Marine Engineers, Naval Architects and other maritime professionals. While the industry is capital intensive, people remain the most important asset of this business. Indeed, the existence and work of the Institute and the Joint Branch is perhaps the best illustration of this fact.

The certification, qualification, workshops, seminars, and other activities held by HKIMT and the Joint Branch have played an important role in keeping an active cluster of qualified marine professionals here in Hong Kong. Together with other associations and organizations, the Institute and Joint Branch has helped Hong Kong play host to a professional and able work force. The availability of this workforce remains one of the key factors in the continued success of the Hong Kong maritime logistic cluster. Indeed the robust nature of this sector is best illustrated by the recent gathering of the Hong Kong Maritime Forum. This Forum now consists of some 20 maritime logistic related associations and industry groups.

Hong Kong has long been a center for shipowning, ship and trade finance, ship and cargo insurance, maritime legal service, port services and logistic services. The companies in the maritime logistic cluster offer the underlying services needed in relation to cargo movement, and for that matter, it services cargo movement that is not necessarily coming through Hong Kong. The clustering of these activities is critical to Hong Kong in its quest to maintain its role as maritime logistic hub. Indeed, it is important that the Government and the private sector work together to ensure that this Cluster, which is providing the service element of cargo movement, continue to grow and prosper. This effort however needs much support from Government in terms of a policy driven approach, and better coordinated cross bureau effort teamwork within the Administration.

While the service element of the maritime logistic sector is important to Hong Kong, it is equally important not to lose sight of the physical aspect of cargo movement to/from and via Hong Kong. Part of Hong Kong's competitive advantage as a maritime logistic hub remains our transportation infrastructure, container port, and excellent connectivity with Pearl River Delta, the rest of mainland China, and indeed Asia and the rest of the World. Given intense competition from neighboring cities, the deterioration of infrastructure and loss of physical activities will undoubtedly affect the number and scope of service providers being based here in Hong Kong. As such, investment in physical infrastructure, and continued drive to ensure the most seamless possible cross boundary flow of people/goods/vehicles/vessels/capital are critical in our quest to remain as the premier maritime logistic hub of Asia.

The maritime logistic sector in Hong Kong remains active and strong despite the commercial environment. I am hopeful that our close knit community will continue to prosper, play a part in enabling Hong Kong to fulfil its role as a maritime logistic center, and making a difference in the industry during these challenging times.

Thank you.

An URGENT Message from the Hon. Secretary

In order to ensure that all members of the HKJB (i.e. all members of the RINA and IMarEST who are residing in Hong Kong) are kept informed of the activities organised and/or hosted by the HKJB, can all members who have not received my email message on the AGM to be held on 10 January 2012 please advise me by email via ben.lau@lr.org. Please do not waive your right to be kept informed. Many Thanks. (submitted by Ben Y. W. Lau, the Hon Secretary of the HKJB)

Coming Events / Activities in 2012

January 2012

- Visit LNG Carrier "Dapeng Moon" at Dapeng Terminal, China on 6 January 2012 (Friday)
- HKJB – Annual General Meeting on 10 January 2012 (Tuesday) at the Police Officers' Club

February 2012

- Annual Ball review meeting cum Spring Dinner Gather (DTA)
- Technical Seminar "Cost Reduction Gets Strategic" by Mr. Richard C.H. Wong (DTA)

March 2012

- Visit Zhongshan Shipyard (DTA)
- Printing of MARINA Vol. 1 March 2012 issue

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All correspondence should be addressed to the Hon Secretary, Hong Kong Joint Branch of RINA and IMarEST, G.P.O. Box 2516, Central, Hong Kong. All matters pertaining to MARINA should be addressed to the above contact address.

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PHOTO GALLERY 2011 Annual Ball

PHOTO GALLERY 2011 Annual Ball