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

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HKJB & HKIMT Activities

Ship Design and Shipbuilding in China

A half day seminar on the above subject was held on the 25 September, 2010 at HKIE by three respective speakers: Dr Peter Cheng – MD of Naval Architect and Marine Consultant Ltd.; Ir H.P. Kwong – Assistant General Manager from Southfleet Consultants Ltd. and Mr. Alan Sharp – Principal Surveyor and Area Manager South China from Llody's Register Asia. A total of 75 persons did attend this seminar.

Dr Peter Cheng first gave his view as a Naval Architect on the design and development of shipbuilding in China. First he said during the Ming Dynasty (i.e. 600 years ago) from 1405 to 1433 even 40 more years before Columbus, General Zheng He brought his expedition fleet of more than 200 wooden vessels did try 7 oversea expeditions. But due to unknown reasons and till today is still a mystery why all the related shipbuilding records and information was destroyed by royal decree, otherwise China should be the number one shipbuilding country at that time. The first steel ship started to be built at Jiangnan Shipyard in 1911. Between 1911 to 1924, a few 10,000 dwt cargo ships were exported to U.S.A.. Between early 1900 to mid 1970, it was a very unstable and stagnant years for China. It was mainly due to the 2nd World War; civil war as well as cultural revolution which Chinese shipbuilding had been standing still at that time. On the other hands, shipbuilding industry was blooming in Europe and Japan.

Until mid 1970 to late 1980 which was an awakening period for China where they opened the door to outside world and by that time, Dr Peter Cheng started shipbuilding design involvement in China. The first joint design between Dr Peter Cheng and Guangzhou Shipyard was in early 1980s for the design of a 18,000 dwt bulk carrier for Wheelock Marden Hong Kong. And the 2nd joint design between Dr Cheng and Jiangnan Shipyard was the design of a 64,000 dwt "Panamax" bulk carrier for Valles Steamship Co. Ltd. HK and this design became well know in the market and so the China Panamax was born.

3 Speakers Ir. H.P. Kwong, Dr. P. Cheng & Mr. Alan Sharp with Dr. Nelson Yu & Dr S. Y. Tsui

Between early 1990 to 2000, the shipping recession was finally over and shipping industry entered a slow recovering period. European owners liked to place order to Chinese shipbuilders for their acceptance to build ships according to client's specification. Between late 2000 to early 2007, it was a rapid growth phase for Chinese shipbuilding industry due to strong government support as well as the continuous expansion of Chinese economy. And at last the shipping and shipbuilding bubbles were created towards early 2007.

Finally, Dr Cheng gave a summary on the strengths and disadvantages of Chinese Shipbuilding Industry:

Competitive Strengths
- Strong government supports
- Established territory institutions
- Lower labour costs
- Abundant low cost coastal sites
- Strong domestic fleet demand
- Strong heavy industrial bases
- Vibrant ship repair industry
- Strong international trades

Competitive disadvantages
- Scarced technical resources
- Heavy reliance on foreign technologies
- Lacks of long term R & D strategy
- Ineffective cost controls
- Lacks visionary research
- Ineffective marketing strategy

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- Inadequate reward systems at state owned shipyards
- Inadequate incentives to retain talents

Also Dr Peter Cheng suggests that in order for China to become No.1 shipbuilding in the world, China should focus on the following points:

- Innovative design and software development
- Advanced shipyard management
- Encourage innovative production technology
- Effective HR development & incentives
- Innovative marketing and service supports

Next Ir Kwong gave the ship owner's view on ship design and shipbuilding in China. He said due to the rapid expansion and development of new shipbuilding yards in the past decade, supply of experienced engineers and skill workers in the labour market has not been able to cope with the demand. Most of the shipyards in China has the following problems except those joint venture yard run under foreign yard management system:

- Communication channel is not efficient
- Production management problem
- Less qualified and less experienced engineers on basic and detail design
- Actual production lines are not smooth running

Ir Kwong said Chinese shipyard should learn from Japan & Korean's professional attitude in order to become No.1 shipbuilder in the world. Also Chinese shipyard should have more flexibility to accept changes as requested by the clients. In order to reach that stage, education and training for the shipyard administrative staff, design staff and front – line workers are necessary.

And lastly, Mr. Alan Sharp gave a brief comment on how Lloyds control the quality of shipbuilding in China by providing a group of professionals to look after all the major activities which include: welding inspectors, blasting & painting specialists, E & M specialists as well as NDT personals. Also they have prepared a quality check list for individual trade in order to have a close monitoring on the progress of shipbuilding.

In conclusion, the quality of shipbuilding in China are still aiming at continual improvement in order to compete with other South East countries.

(Ir Tang Kai Fun)

Brief report on " Maritime Awareness Week (MAW) " 25 to 31 October, 2010

It was the first time that most of the Maritime organizations, marine learned institutes and other marine related parties/organizations gathered together to promote this MAW. The main theme for this MAW was to raise the awareness of the general public on the importance of the maritime industry in Hong Kong and the contributions of seafarers to the society as well as to promote the career opportunities in the maritime industry to young people.

The MAW opening ceremony was held at the Hong Kong Convention and Exhibition Centre on 25th October, 2010 and followed by a half day seminar on 26th October, 2010 with topics on recent changes to the Maritime Labour Convention, the new Chinese oil pollution regulation and the new maritime security legislation in China.

HKIMT and HKJB at the Opening Ceremony of MAW

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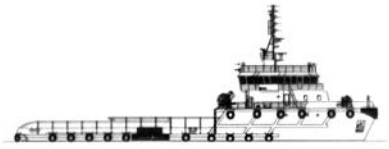
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On the 27th October, 2010 career talks had been arranged on selected schools and both chairmen from HKJB/HKIMT Ir Dr Tsui and Ir Dr Nelson Yu participated in conducting career talks to secondary school students in order to introduce maritime industry to young students for their future career. There was a tree planting activity at the Maritime Services Training Institute in Siu Lam on the same day.

S Y Tsui conducted the Career Talk during the MAW

On 28th October, 2010 it was the "Seafarers Day". A new study centre at the Hong Kong Seamen's Union was opened to commemorate the MAW. Also there was a small maritime exhibition at the Mariner's Club in Tsimshatsui.

Friday, 29th October, 2010 brought a commemorative luncheon to formally mark the 20th Anniversary of the Establishment of the Autonomous Shipping Register in Hong Kong. And in the afternoon, a green ship seminar was arranged by the Hong Kong Ship Owners' Association.

Maritime Fair cum Open Day in the Government Dockyard on Stonecutters Island was held on 30th October, 2010 in which exhibition booths from various maritime organizations were set up in order to introduce their objectives and duties as well as activities to the general public. And of course HKJB/HKIMT had a booth there to introduce our institutes to the interested general public and arouse the interest of the young generation to join the maritime profession. Also there were sea cadet parades at different intervals all along the day together with several marine police boats, fire services and immigration boats as well as Marine Department's own Tin Hau were opened to the public.

And finally, on Sunday, the 31st of October, 2010, a beach cleaning event was held at Hung Shing Yeh Beach on Lamma Island then followed by a lunch at Sok Kwu Wan. Members represented HKJB/NEAD of IMarEST/HKIMT had actively participated in this meaningful event to draw the attention of the general public that the maritime industries also care for the environment.

In conclusion, the purpose for raising the awareness of the general public on the importance of the Maritime Industries in Hong Kong has been achieved. Though some of the official activities were not opened to the public, the career talks, Maritime Fair in the Government Dockyard as well as the beach cleaning activity really attracted the public's attraction and participations. And we trust that such an event can be arranged again in the coming years.

Members of HKJB/NEAD of IMarEST/HKIMT at Beach Cleaning

Participants at Beach Cleaning

(Ir Tang Kai Fun)

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Summary of speech by the Director of Marine – Mr. Roger Tupper during the luncheon to celebrate the 20th Anniversary of the HKSR on 29 October, 2010

Mr. Roger Tupper said that the enactment of the Registration Ordinance was on 3 December, 1990 and the autonomous Hong Kong Shipping Registry was born.

In March 2010, HK Register passed the 50 millions GRT mark. This large fleet, amongst the top five in the world provides a constant visual reminder in the great port cities around the globe that Hong Kong is a truly world maritime city.

Roger said, in these years Hong Kong Government, Ship owners' Association and Seafarer unions have worked closely together. HK Marine Department successfully re-engineered the registration process in 1999, introduced many user friendly initiatives and the implementation of the sea-going training Incentive Scheme to train up local people in 2004 after industry had laid the ground work. Also the establishment of the Customer Relations Group in 2006 was to bring forward new initiatives to strengthen services to the industry.

(Ir Tang Kai Fun)

Report on Visit to Shanghai for Attending IFDOE 2010

The Chairmen of HKJB, HKIMT and the President for NEAD of IMarEST were invited by Professor Zhang, President of Shanghai Society of Naval Architecture and Marine Engineering, to attend the "International Forum on Development of Ocean Engineering, China 2010 (IFDOE 2010)" on 21-22 September 2010. A delegation comprised of Mr. Louis Szeto representing HKJB, Mr. Francis Law representing HKIMT and Mr. Alan TSANG representing NEAD of IMarEST had attended the forum from Hong Kong.

Mr. Francis Law, Mr. Louis Szeto, Mr. Trevor Blakeley and Mr. Alan Tsang at the Shanghai IFDOE 2010

The aim of this forum was to promote healthy and continuous development of high and new technology, enhancing design, R&D, general assembly and turnkey capabilities in the fields of China's ocean engineering industry. It also serves as an international platform for attendees to discuss and exchange the hot issues on the global ocean engineering industry development, China's ocean engineering development strategy, the innovation of ocean engineering technologies, green manufacturing etc.

The forum was held in the Jin Jiang Hotel at Shanghai and commenced at about 8:30 am on 21.9.2010. The opening was officiated by Mr. Ai Baojun,Vice Mayor of Shanghai Municipal People's Government. Apart from representatives from the local classification societies and large offshore corporations and enterprises, there were senior officials and experts from overseas classification societies, ocean engineering industry,

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offshore equipment design and manufacturing enterprises, exploration industry and financial institutions attended and made presentations in this forum. A total of 16 papers were presented with topics ranging from the future development of China's ocean engineering, offshore industries, future trends of offshore rigs, subsea installations, engineering logistics to financial supports to the offshore industries etc. Most of the papers presented were very interesting and informative.

A panel discussion among the expertise and specialist from local and overseas classification societies, which was also attended by related offshore industry practitioners, was also held in the following morning on 22.9.2010. Six speeches were first presented by senior officials of 5 major classification societies. A lot of practical questions were subsequently raised to the classification societies and some of them had aroused active discussions among the participants. Due to limited time available, the discussion had to stop at about noon. In view of its success, the organisers intended to expand the size of the forum and make this as one of the important annual events in China and in Asia.

A panel discussion among the expertise and specialist from local and overseas classification and societies

Report By : Mr. Alan C.M. Tsang and Mr. Louis K. S. Szeto

Career talk

Student career talk jointly organized by HKJB / HKIMT was held on 23 November, 2010 at the HKPU. There were about 25 final year BEng. Mechanical Engineering discipline students attended this talk.

The main purpose of this career talk was to introduce marine professional career to students in order to arouse their interest to join this career, which may be considered as an alternative route to mechanical engineering career onshore. Professional Engineers Ir K. K. Lo from HKPU, Ir K. F. Kwan from MD and Captain Solution M.S. Pang from the Hong Kong Harbour Pilots Union shared their views and experience on how to step into the marine engineering career field and they all have been enjoying their existing professional career all along.

Questions asked by the students were mainly on the financial reward and safety issues onboard the vessel. All the above speakers were of the view that from now on and to at least a few years later all marine sectors were short of marine professionals and therefore pursuing a career in marine engineering would certainly provide a good career prospect after their graduation.

Both HKJB/HKIMT believe that such career talk had provided a broader view to the students while they are still in the cross-road of choosing their career after graduation.

(Ir Tang Kai Fun)

2010 Annual Ball Jointly organized by HKJB/HKIMT

The Hong Kong Joint Branch of The Royal Institution of Naval Architects and The Institute of Marine Engineering, Science and Technology with The Hong Kong Institute of Marine Technology jointly organized the 2010 Annual Ball on the 26 November, 2010 at the Grand Ballroom of Kowloon Shangri-La Hotel, Tsimshatsui in Hong Kong.

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This year, we had a record high of 29 tables with VIP guests from different sectors including the delegate from Guangdong SNAME. Besides, formal speeches by Guest of Honour – Mr. Kenneth Koo – Chairman of HKSOA as well as by both chairmen from HKJB and HKIMT, Ir Dr Tsui and Ir Dr Nelson Yu respectively, singing, dancing and lucky draw were also arranged.

This year's Annual Ball had a strong support from all participants and HKJB / HKIMT must give our heartfelt thanks to those dinner sponsors and gift sponsors to make this event so successful and unforgettable. Congratulations for the success of the Annual Ball must go to our Ball Organizing Committee Chairman, Ir TANG Kwong Fai & Albert LO and his team for their hard work and tolerance.

(Ir Tang Kai Fun)

Summary of speech by the Chairman of HKSOA Mr. Kenneth Koo at HKJB / HKIMT Annual Ball held on 26 November, 2010

Mr. Koo said that the driving forces, such as quality, accountability, and responsibility for managing and owning a ship in a proper way are also the driving forces that ensure ships are designed, built and managed to uncompromising levels of excellence. But now the "ship" is being taken out of "shipping" where a shipping market is being rapidly commoditized.

As a result, where quality is not a premium to pay for and the ship is but a figure on a balance sheet or profit & loss statement. For many years now, Mr. Koo said the shipping industry has been talking about the need for a unifying bond between ship owners, ship yards and machinery makers to produce ships that are "fit-for-purpose". Rules need to be incorporated that allows managers, owners, shipyards, makers and classes to properly assess and evaluate the running condition of machinery as a complete system rather than an individual component onto itself.

Training of seafarers is another area where top-to-bottom commitment needs to be made to ensure ships are maintained, managed and operated under the highest standards. But who care all about these? Even some big charterers are only concerned that the market becomes more commoditized.

Mr. Koo said he tried to make a difference, however small, to not necessarily right or wrong, but to at least make an effort to make all of us aware that "The Entry Barriers To Shipping Must Be Raised" for the good of the shipping industry's and shipping market's future.

Mr. Koo stresses that we, mariners have to unite to somehow inspire accountability and responsibility on how we invest, built, own and manage a ship. We have to unite not only ship managers, ship owners, shipyards and class. We also have to unite banks, P & I Clubs, hull and machinery underwriters, and of prime importance, our charterers to ensure that the merchant fleet of the world is owned not speculated and managed in a manner that will ensure the safe, reliable and environmentally friendly carriage of seaborne cargo around the world.

(Ir Tang Kai Fun)

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Guest of Honor -Mr. Kenneth Koo addressing the guests at the ball

Dr. S. Y. Tsui – HKJB Chairman speaks to guests

Dr. Nelson Yu – HKIMT Chairman speaks to guests

Chairman Tsui with Kenneth Koo, Hon. Miriam Lau, Roger Tupper

Ms. Linda Yuen, Mrs. Miranda Yu, Alan Tsang & Dr. S.Y. Tsui

Annual Ball Organizing Team Members

HKJB & HKIMT Committee Members with Mr. Kenneth Koo

Mr. Roger Tupper with Dr. S.Y. Tsui & Louise Szeto

Committee Members of HKJB & HKIMT Proposed a Toast

Ms. Anna Hong, Roger Tupper, Capt. Wu with HKJB Committee Members

Ms. Linda Yuen, Ms Gladys Tsang, Ir. Francis Leung, Mrs. Miranda Yu & Ir. Alan C.M. Tsang

Kenneth Koo with HKJB Committee Members

Nelson Yu, Louise Szeto with Hon. Raymond Ho

Nelson Yu & Guests enjoying the Singing

Guests enjoying the dance

Guest Singer – Jennie Chung singing performance

HKJB Committee Members with Hon. Miriam Lau

Dr. S.Y. Tsui, Albert Lo with Mr. & Mrs. Hui Kit

Mr. & Mrs. Kenneth Koo with Capt. Wu

Dr. Nelson Yu & Committee Members with Guests

Committee Members toast with Guests

GDSNAME Delegate

Committee Member Laxman Kumar with Guest

Kenneth Koo, Mr. & Mrs. Hui Kit, Dr. Tsui & Steve Chou

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INMEX 2010 in Guangzhou (8-10 December)

As the supporter for the INMEX, a delegation of 10 members from HKJB, NEAD and HKIMT attended the following functions – starting with the awards presentation for those excellent contributors or organizations for their remarkable designs and manufacturing in the marine fields together with a dinner reception in the evening on 7th December, 2010 at the Shangari-La – Hotel in Pangzhou – Guangzhou. On the 8th December, 2010, the exhibition was opened in the Exhibition Centre in Pangzhou followed by a half day seminar in the afternoon with subjects covering the future trend of shipbuilding industry in China. The exhibition was held in Halls 10 and 11 from 8 to 10 December, 2010 with a lot of displayed marine equipments plus both software and hardware parts on marine related designs and products. In one of the booths, there was a semi-submersible model on display showing a new concept of movable ballast tanks on both side of the deck for adjustment of different conditions of loading, pitching, heaving and rolling of a rig.

In the evening, a gala dinner was held onboard of two sight-seeing vessels with about 500 guests. We were invited by the Guangzhou Municipal People's Government to attend and we all had the chance to have a friendly talk with the vice Mayor Mr. Gan Xin. The cruise in the Zhujiang River was spectacular and we could see all those decorated vessels of the Asian Games moored along the seawall of the Zhujiang River.

Members of HKJB/HKIMT together with GDSNAME members at INMEX 2010

A signing ceremony of MOAs was held onboard one of the vessels. The MOAs were signed between the Guangdong Society of Naval Architects and Marine Engineers (GDSNAME) and the Society of Naval Architects and Marine Engineers of other Chinese provinces. The GDSNAME also signed the MOA with the Singapore Society of Naval Architects and Marine Engineers.

On the 9th December, 2010, a full day seminar was organized by the GDSNAME. Topics including Chinese shipbuilding industries, marine plant, equipment development and green shipbuilding were presented and discussed.

Opening of INMEX 2010

HKJB/HKIMT members at the DNV booth

HKJB/HKIMT members at the INMEX dinner

Professor Choo gave his presentation at PolyU

In conclusion, Chinese shipbuilding industries are now aiming at innovation and design on all out fittings and equipments especially on the electronic related fields.

(Ir Tang Kai Fun)

Technical talk on "Installation Engineering of Offshore Structural Systems"

HKJB / HKIMT had the pleasure to invite Professor Choo Yoo Sang – Past President of IMarEST to deliver a talk on the above subject on the 13 Dec., 2010.The talk was held at HKPU. A total of around 50 persons attended the talk.

Professor Choo first gave us the basic engineering principle on force and moment. He then illustrated his presentation by simple diagrams and Powerpoint on different lifting systems together with video for our better understanding of various types of offshore heavy lifts.

Professor Choo emphasized on the importance of planning as well as the consideration on the configuration of the lifting structure, the availability of plant and equipment to be used as well as the environmental situation before actually lifting the heavy structure. When employing more than one lifting equipment to be used, special care has to be taken such as how to communicate and synchronize the whole lifting procedures. He also stressed the importance of checking the C.G. and the wiring system design in order to achieve a balanced lifting.

NEAD/HKJB/HKIMT members with Professor Choo

During the discussion, Professor Choo further emphasized that young engineers should think of the real situation before they use computer programmes to assist calculations. They should not rely on the computer to produce the results without good understanding of the engineering principles. Professor Choo recognizes that young engineers are computer savvy, but need time to develop their engineering feel.

After the talk, members of HKJB / NEAD / HKIMT together with Professor Choo had a nice dinner. Once again, during the dinner period, Professor Choo was very positive about the close knit marine community (HKJB, HKIMT, HKIE, IET) etc. to move forward to train the younger group and he is willing to assist if appropriate.

(Ir Tang Kai Fun)

The 4th PAAMES / AMEC 2010 in Singapore

Representatives from HKIMT Dr. Nelson Yu and Dr. Fung did attend the above meetings and conference on 6 to 8 December, 2010 in Singapore. There were over 200 participants with 80 papers and 4 forum papers presented.

During the PAAMES International Standing Committee meeting, the main point for discussion was the

membership of EAD from IMarEST and substituted with NEAD / SEAD as a member of PAAMES. The above suggestion has not been finalized and is now waiting for the official announcement.

The next PAAMES Meeting and AMEC conference will be hosted by Taiwan Maritime Societies in Taiwan in 2012.

(Ir Tang Kai Fun)

Corrigendum

There was a mistake in the typing error on the lower table of "Engine rpm" published in Vol. 3, September, 2010 MARINA issue (page 5) where 30 rpm is not correct. It should be 130 rpm instead.

We apologise for any inconvenience caused.

Coming Events / Activities in 2010

- **7 January 2011 (Friday)**
  Seminar on "Calibration of Long Gauge Block"
  at Room No. BC309 HKPU
  6:30 p.m. to 8:00 p.m.

- **12 January 2011 (Wednesday)**
  HKJB Annual General Meeting and Buffet Dinner
  at The Police Officer's Club, Banquet Room A & B
  from 18:00 Hrs.

- **10 February 2011**
  Visit of Mr. French, the President of RINA

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