



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

IMAREST

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 2 : June 2011

HKJB & HKIMT Activities

Day of the Seafarer on 25 June 2011 - Join the campaign

In 2010, IMO Member States agreed that the unique contribution made by seafarers from all over the world to international seaborne trade, the world economy and civil society as a whole, should be marked annually with a 'Day of the Seafarer'.



The date chosen was 25 June, the day on which milestone revisions to the International Convention on Standards of Training, Certification and Watchkeeping for Seafarers (the STCW Convention) and its associated Code were adopted at a Diplomatic Conference in Manila, the Philippines.

This year, the celebration will take the form of an online campaign, in which we are asking everyone to voice their support using social networks. On the Day of the Seafarer, we will ask people around the globe to say "Thank you seafarers" on Facebook, via tweets, by posting a video on YouTube, discussing on LinkedIn, or even writing an inspirational blog.

The IMO is aiming to pay tribute to the world's 1.5 million seafarers for the unique and all-too-often overlooked contribution to the well-being of the general public, and we would like to do it using as many social media networks as possible. By generating interaction on the web about seafarers, we want to show respect, recognition and gratitude to seafarers everywhere. The universal outreach of social media will raise awareness of the vital role that seafarers play in the world economy and, in many respects, in sustainable development, enabling ships to carry than 90% of world trade safely, efficiently and with minimal impact on the environment.

The Day of the Seafarer is also an opportunity to educate the public about issues facing the modern-day seafarer – issues such as piracy. But, most importantly, it is the occasion for us, the world, to say "Thank you, seafarers."

The HKJB of RINA & IMarEST is fully supporting this event and you are encouraged to participate in this

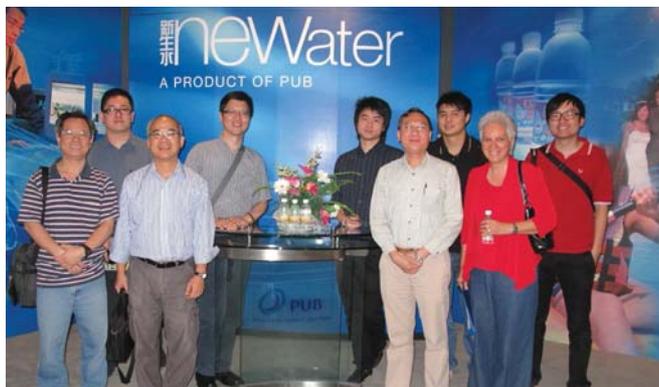
worldwide effort by celebrating and joining the IMO on the web. So please if you want to get involved, take action and download the toolkit featured on the web page <http://www.imo.org/About/Events/Pages/Day-of-the-Seafarer.aspx>.

(submitted by Ben Y.W. Lau, Honorary Secretary, HKJB of RINA & IMarEST, who can be contacted via ben.lau@lr.org)

Technical Visit to Singapore on 23 to 27 March 2011

HKJB Chairman, Mr. Y.M. Cheng and Council member Mr. Y.C. Tang joined a technical visit to Singapore on 23-27 March 2011 organised by the Hong Kong Institution of Engineers – Mechanical, Marine, Naval Architecture and Chemical Division. Apart from Mr. Cheng and Mr. Tang from the marine sector, the technical visit was participated by a group of HK mechanical and civil engineers. The purpose of the visit was to provide participants for an appreciation of the several municipal engineering projects across Singapore as well as the local government's effort in improving the quality of living. It included field trips to:

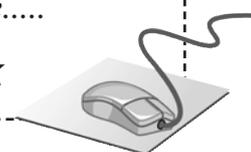
a) NEWater Visitor Centre: It is a focal point of public education on use of reverse osmosis in conjunction with ultraviolet disinfection technology to reclaim waste



Hong Kong delegate visited NEWater visitor centre

MARINA is available at web site.....

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water. This together with water from catchment, imported water from Malaysia and desalinated water from sea, constitute the four national water taps to assure Singapore of a sustainable water supply to meet the present and future water demand.

b) Chemical Processing Technology Centre: It is a training centre located in Jurong. It has an industry-scale hydrocarbon processing plant plus various instruction and mechanical equipment laboratories to provide real life training on petrochemical operations and maintenance as well as emergency responses. It is one of the first of its kind in the world for such O&M competency development and assessment. This centre provides training to students of Singapore as well as tailor-made training courses for engineering staff of chemical companies.

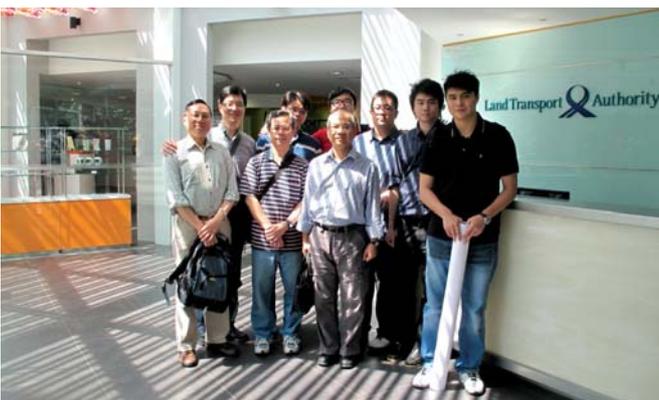


Control room of the training centre



Part view of the chemical processing plant

c) Land Transport Gallery: It is a museum, showcasing the transport evolution from the 60's to today. The challenges and the solutions to meet the transportation need of the country into the future are also presented. The way to avoid overloading the road transportation system through improvement of underground train system, control of number of vehicle licences, and use of Electronic Road Pricing (ERP) were learnt.



Group photo in front of Land Transport Authority

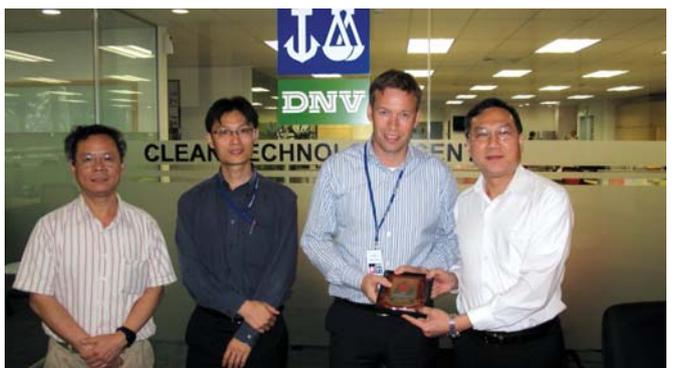
d) Marina Barrage: It is a dam built across the mouth of the Marina Channel to keep out the seawater to form a reservoir upstream for fresh water storage and water sports. The water level is kept constant all year round as part of the control against flooding of the low-lying areas. Excess storm water is drained into the sea through either opening the crest gates or running the giant pumps depending upon the tide level.



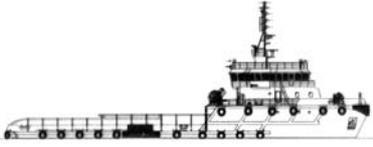
Crest Gates

During the stay in Singapore, the delegation was also warmly received by multiple international leading organizations with presentations on management of engineering project and safety. They are thought provoking and the salient learning are:

- **BST Solutions:** Wishful thinking is one of the fatal flaws of leaders.
- **Det Norske Veritas:** Projected profit of a project should account for the risk which is the product of cost and probabilities of not meeting those objectives.
- **Du Pont:** Early project stage involvement is key to project success and staged independent assessment



Mr. Y.M. Cheng, Chairman of HKJB presented souvenir to the speaker of the talk, Mr. Ernst Meyer of DNV Singapore



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Group photo of participants to the talk presented by Mr. Patrick Ng

and audit can help ensure mission and objectives are met.

- **Capital Safety:** Working at height is No.1 safety challenge and wide varieties of certified sophisticated equipment now available to guard against loss of lives.

The delegation was also invited to an experience sharing session with IMechE (Singapore Branch) and Singapore Joint Branch of RINA & IMarEST on safety management at the National University of Singapore on 24 March 2011. Mr. Patrick Ng, our group leader of this technical visit presented the talk which was well attended.

Before the technical visit was concluded on 27 March, the delegation also visited Sky Park and Arts & Science Museum in Marina Bay Sands and Universal Studios at Sentosa for a collection of the prominent engineering features of the masterpieces, which added a lot to our experience. Last but not the least, the delegation is grateful to IMechE (Singapore), Singapore Joint Branch of RINA & IMarEST and the companies named above for their enormous help in making the visit a fruitful and rewarding one.

(YM Cheng)

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Building of 14 High Speed Crafts (HSC) Catamarans in Austal Perth

To cope with the fast development of the casino business in Taipa Macao, various companies decided to build HSCs conveying gamblers and tourists to those new tourist attractions. One of those significant owners is the Venetian Marketing Services Limited (VMSL).

Contracts were signed with the well known Australian HSC builder - The Austal Group (Perth) initially for the construction of the first 10 vessels. Time was always so precious in particular for the gamblers, pace of construction was always under stress.

These Aluminum Alloy made HK registered vessels were displacement type with DNV classed of length 47.5m propelled by 4 KMW water jets. Four main engines, namely MTU 4000M with total power output of 9,280 KW driving the ship approx 43 knots at maximum. The total passenger carrying capacity was 417. Four 150 passenger capacity inflatable life-raft were installed for the sake of lifesaving.

Before delivery of these vessels, various processing stages, namely drawing approval, survey during construction, function test of various equipment & machineries and finally the sea trial with the Failure Mode Effectiveness Analysis (FMEA) etc. had to be carried out by HKMD.

After completion of all testing & trial in Perth, vessels were shipped to HK. Upon arrival in HK, bottom survey had to be carried out to check for any damage in the course of shipment. Confirmatory sea trial would be carried out before final acceptance.



Vessel under construction in shed



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Irregular survey time was another experience. For example light ship surveys were usually carried out around 4.00 am where nobody was onboard and the water was calmest of the day. So I had to wake up at 3.00 am in the morning latest !

The second batch of vessels, i.e. the 11th to the last 14th, comprised some sea keeping enhancement features, namely the Ride Control System (RCS). Two foils were fitted (one for each hull) at the fwd bottom, namely the T-foils. Whereas 2 spade type rudder shape (called T-max) were fitted at aft bottom. Deployment of the T-foil would enhance the sea keeping capability & providing smoother riding especially in rough sea states. Whereas the T-max would provide additional steering effect & with improved efficiency.

Perth is one of the windiest places in the world. You even could not walk or balance yourself for 100 m down to the jetty from the Austal shipyard. Strong wind always came along with the heavy rain. You had to pay close attention in the morning for the updated weather forecast. Sometimes sea trial had to be stopped right in the middle because of the extreme adverse weather condition, such an unforgettable experience with sea sick!

(Ir YC Tang)

Engineering Week 2011 (Carnival)

It was the first ever Engineering Week in Hong Kong. Engineering Week 2011 was co-organized by 8 renowned professional organizations and tertiary institutions in Hong Kong. (They were Hong Kong Branch of Institution of Mechanical Engineers; Mechanical, Marine, Naval Architecture and Chemical Division of The Hong Kong Institution of Engineers; Hong Kong Section of American Society of Mechanical Engineers; Electrical and Mechanical Services Department of HKSAR; Department of Mechanical Engineering of The University of Hong Kong; Department of Mechanical and Automation Engineering of The Chinese University of Hong Kong; Department of Mechanical Engineering of The Hong Kong Polytechnic University; and Department of Mechanical Engineering of The Hong Kong University of Science and Technology). There were seven events linking engineering with its distinctive ability to enhance quality of life from 5th March to 13th March 2011. The events were focus on energy,



Opening speech by VIP guest

transport and the environment, exploring and showcasing possible, often fun and innovative engineering solutions.

The theme of EW 2011 is “Brought Engineering to Life”. The objective of the EW2011 was to promote public awareness, understanding of what engineering is and engineering profession disciplines for the well being of the Hong Kong community. This is particularly important to attract the young generation to join the engineering profession for ensuring continuous engineering excellence to bring our life forward.

The seven events in EW 2011 targeted people from students, professionals, and the general public. On 5th March 2011, Ms Eva Cheng, JP, Secretary for Transport & Housing Bureau together with representatives from the organizers and sponsors officially announced the beginning of EW 2011 at Olympic Square of Hong Kong Park. The “Young Inventor Competition 2011” was held right after the opening ceremony to encourage youngsters to engage engineering theory with scientific creativity. Over 300 contestants from over 80 secondary schools competed in the competition by applying scientific and



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engineering principals on aerospace, air and water pressure, to design and build a hydraulic powered rocket using lightweight bottles. Judges evaluated their invention base on the uniqueness of design and the time stayed in the air to select the winner of "The Most Creative Design" and the "The Most Efficient Design". The winning rocket of the "The most Efficient Design" award stayed in the air for 10.3 seconds and designed by students from SPHRC Kung Yik She Secondary School. Students from HKSKS Bishop Hall Secondary School received the "The Most Creative Design" award.

Speak Out for Engineering Presentation Competition with the theme of "Engineering and Us" was held at The Hong Kong Polytechnic University on 6th March. Contestants (secondary school students, young engineers & engineering students, and general public) gave 5 to 10 minutes presentation on topic related to Engineering including magnetic railway system, civilization always goes hand in hand with technology advances, electric vehicle, wind power, nano-technology, emission reduction measures and etc. It attracted more than 100 participants.

On 7th March, International Conference on "Advanced technology in energy for a better environment" officiated by Mr. Edward Yau, Secretary for the Environment Bureau of HKSAR Government, at Jockey Club Auditorium. The theme is "Energy for a Better Environment". Mr. John WOOD (President, Institution of Mechanical Engineers), Mr. Robert SIMMONS (President, American Society of Mechanical Engineers), Ir Dr. CHAN Fuk Cheung (Senior Vice President, The Hong Kong Institution of Engineers) and Mr. ZHANG Yan Min (Secretary

General, Chinese Mechanical Engineering Society) gave the keynote speaks. More than 700 professional and engineering students attended this Conference.

From 7th to 11th March, more than 400 secondary school students visited various aviation facility, power plant, gas facility and dockyard in Hong Kong. The students had an opportunity to appreciate the social and environmental benefits of modern energy and environmental facilities through visit. From 8th to 11th March, Distinguished Public Lectures for Integration of Product Innovation, Engineering and Design, Engineering and the Developing World and Climate Change and Low Carbon Technology Development were presented to 200 professional and engineering students.

To encourage the youth to be interested in caring for the society, developing an active learning spirit and applying their learned knowledge to feedback the community, Design for Elderly Competition was held outside the Hong Kong Cultural Centre on 12th March. The theme is "Innovative ideas for quality living". This event had given students the opportunities to apply what they learnt and realize their dreams and develop their concepts into products that benefit the elderly in their daily life. It encourages tertiary students, secondary students and young engineers to care about the physical and psychological changes and needs of the elderly so that a harmonious society can be nurtured and sustained. Winners of the Secondary Students Group were from Our Lady of the Rosary College, Lock Tao Secondary School, TWGHs Chang Ming Thien College, CMA Secondary School, Good Hope School, and Po Leung Kuk Yao Ling Sun College. Students from CUHK, PolyU, HKU and HKUST were the winners for the Tertiary Institution Group.



Attracting booth

The finale of EW2011 was the Engineering Carnival and Closing Ceremony held at Macpherson Playground on 13 March. It brought engineering to life with fun and harmony by involving the general public in family fun and games. There were 20 booths with fun games and exhibits for visitors to learn about the role and contribution of the engineering profession to Hong Kong. The Closing Ceremony of the Engineering Week 2011 took place at the end of carnival, with prize presentations to winners of the various competitions held during the Engineering Week. Both chairmen from HKJB/HKIMT Ir Y.M. Cheng and Ir Dr Nelson Yu participated the Engineering Carnival and Closing Ceremony.

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“Sea” your Future

IMarEST and Castrol Marine worked together to publish “A guide to Marine careers”.

As stated by Albert Chan, Global Offer Director, Castrol Marine, investment in people is the greatest and most valuable asset for the marine industry.

The recruitment, continued professional development and retention of skilled personnel is absolutely vital for an industry.

A major challenge currently facing the industry is the shortage of skilled, technical personnel as stated by Albert Chan. Failure to attract new, talented recruits to the industry could lead to inefficiency and have a negative impact on the competitiveness of shipping companies.

“A guide to Marine Careers” provides careers information to help potential new recruits understand what the marine industry has to offer in the way of a rewarding, life-long career.

MARINA will report more contents from inside “A guide to Marine careers” in the coming issues.

(Ir Tang Kai Fun)

Dragon Boat Race

The annual dragon boat race organised by the Recreation Club of the Marine Department (MD) of HKSAR was held on Saturday, 28 May 2011 to celebrate the Tuen Ng Festival. Similar to previous years, this event was taken place in the Government Dockyard located at Stonecutters Island.



Both immediate past chairmen of HKJB and HKIMT – Dr. Tsui and Dr. Nelson Yu had photo with the Director of Marine Department Mr. Roger Tupper



Cheering photo for paddlers

Apart from the races among the MD’s own dragon boat teams, some external organisations and learned societies were also invited to participate the competition as invited teams. HKJB and HKIMT had a long history of participation and this year we were invited once again to participate this exciting event among the other three learned societies namely HKIE-MMNC Division, IMechE and ASME. There were dragon boat and colour boat races for the invited teams. In order to be more competitive to race against the strong teams formed by other organisations, all five learned societies had formed a joint team for the races.

As you know, apart from the physical strength of each individual rower, the team work and mutual cooperation among the rowers are also very important to build up the speed of the dragon boat from initial start up to the winning post of the race. Our strategy was to select those experienced and strong team members from each learned society to participate the preliminary heat so as to stand a better chance of getting into the final. However, despite the tremendous effort exerted by our team rowers during the race, we were just outside the 5 best teams qualified for the final race. Although our



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joint team didn't qualify for the final but our team spirit was high. All supporting members were cheering on the shore until all teams completed their race.

Apart from the above races with the invited teams, there were two special friendship races organised for the five learned societies to compete the "Learned Society Cup" for both the dragon boat and colour boat races. These friendship races were held immediately after completion of all other races. All our members were very excited about this event and they all put on their own uniform representing their own team to build up the team appearance and their determination to win. After keen competition among the five learned society teams, HKIE-MMNC team was the winner for the colour boat race and the IMechE team had won the dragon boat race.

After all the races were completed, there was also a social gathering for all the participants of the learned societies. Every members and some with their family members enjoyed the food and drink and the company. The gathering also gave them a chance to chat about the race and exchange their views on the future strategy to become more competitive to win the race. On the whole this event gave a very good opportunity for all participants to recognise the importance of teamwork in order to maintain the boat speed and of course to win the race. Without good cooperation among the team members, it was not possible to achieve good results. We all enjoyed the event and looking forward to another one in next year's Tuen Ng Festival.

(Reported by Alan TSANG)

Announcement

1. HKJB FAX NO.: (852) 25736966 was cancelled for use starting 1st June, 2011. All correspondence pertaining to "Marina" matters should be addressed to the Hon. Secretary of HKJB to G.P.O. Box. 2516, Central, Hong Kong.
Sorry for any inconvenience caused.
2. From time to time, HKJB/HKIMT did receive some publications from local or oversea organizations or other Professional Institutions such as recently we received the followings:
 - DNV Greater China Update — Issue 2-2010
 - Journal of the Society of Naval Architects of Korea
 - IVE Engineering Newsletter—Issue#5, 1st Quarter 2011.

Any members want to have a look on the about issues can contact Ir Tang Kai Fun on (M)94063526.

Social Dinner Gathering

Same as last year, an invitation by the chairman of MMNC division of HKIE, HKJB/HKIMT did form a table to show the support to our friendship of learned society by attending their annual dinner which was held at King Yat Hin, 8/F, Harbour plaza Metropolis in Hung Hom on 6 May, 2011 (Friday). The invited VIP guest of the evening was Ir Wai Chi-Sing JP, Permanent Secretary for Development (works). He presented a speech to other VIP guests, members and friends regarding the amount of money spent as well as different types of infrastructures which will be developed in Hong Kong in the coming years. He said there will be a lot of positions created and for engineers, it will be the best moment to show their competence and involvement to build the future of Hong Kong.

Lucky draw and live band musical performance were arranged and we all did enjoy the wonderful evening.

(Ir Tang Kai Fun)



Group photo among council members of MMNC division of HKIE, HKJB/HKIMT



Group photo of HKJB/HKIMT table

Meeting of Good Friend in H.K.

During HKIMT – AGM (2011) which was held on the 29 April, 2011 at the Police Officers' Club in Causeway Bay, members of HKIMT and HKJB were very pleased to have the chance to meet our good friend Mr. Bhim Makhija and his wife. He was the ex-principal surveyor of Marine Department of Hong Kong. He was also the first chairman of HKJB as well as committee member of HKJB for many years before he left H.K.

On that evening and during the dinner period Mr. Makhija had the chance to meet all old friends and his previous colleagues to refresh and sustain the warm relationship among each other. Also Mr. Makhija did meet some new friends both from HKIMT/HKJB. Mr. Makhija and his wife stayed in H.K. during the period from 27 April, 2011 to 5 May, 2011, then returned back to India.

We all enjoyed the evening with Mr. Makhija and his wife during their staying in HK with HKIMT/HKJB members.

(Ir Tang Kai Fun)



Group photo of council members of HKIMT 2011/12



Group photo among Mr. Makhija and his wife with council members of HKJB/HKIMT

Coming Events / Activities in 2011

- June**
- Student Career Talk at IVE (Tsing Yi) on 8 June 2011, 4:00pm to 6:00pm
 - Green By Design – Alternative Energy sources for the Powering of Ships on 25 June 2011, 9:30am to 12:30pm
 - Publish MARINA June issue
- July**
- Technical Talk (Topic of Talk and Venue to be announced)
 - Interview with Capt. Tony Yeung – GM of Maritime Services Training Institute (Date to be announced)
- August**
- Technical Seminar on Green Issue (Topic of Talks and Venue to be announced)
 - Visit to Guangdong SNAME (tentative)
- Sept**
- Publish MARINA September issue

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