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 2007

Shipping & Maritime News

Honorary Vice President of IMarEST, 2007

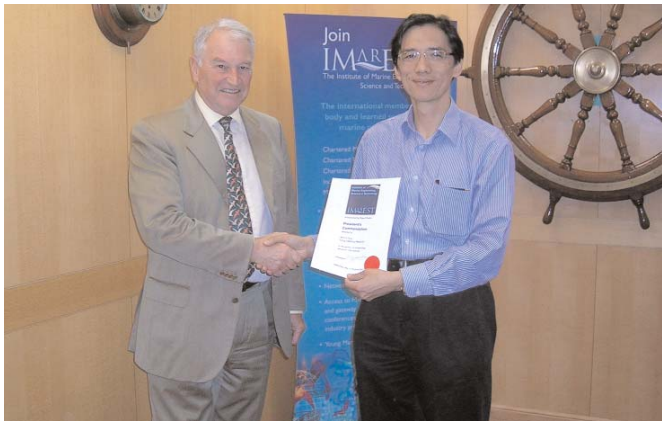
Ir Francis M H Law has been awarded the Honorary Vice President of IMarEST and was presented with a Medal by Mr. Keith Read, Chief Executive of IMarEST, on 13 November 2007 at the award ceremony held at the VIP Room of Marine Department. Mr. Read appreciated very much for Francis's distinguished services to the Institute and the HKJB, particularly for his contribution to the development of the marine engineering profession in Hong Kong and the East Asia Region. IMarEST awarded only 25 Honorary Vice Presidents worldwide.

Francis started to be involved with the HKJB in 1986. By 1994 he was elected as the Chairman of the Joint Branch. Being the Chairman of the HKJB, he devoted much time to negotiate with the HKIE and to persuade with them to accept the qualified Marine Engineers as the HKIE members. Francis, coupled with K S Szeto's effort, succeeded in getting HKIE's recognition for accepting IMarE members block entry grade for grade to join the HKIE in 1996.

Francis was elected as the Divisional President of the East Asia Division of IMarE in 1996. He felt most privileged, not only to be able to work for the Division, but also to be able to witness at first hand the

Mr. Francis Law has been awarded the Honorary Vice President

Mr. Keith Read presented the Certificate of Commendation to Mr. Francis Law



Mr. Keith Read presented the Certificate of Commendation to Mr. K F Tang

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transformation of the IMarE to IMarEST, not to mention to see the moving of the Headquarters from Mark Lane to Coleman Street.

On behalf of the IMarEST President, Mr. Keith Read also presented the 2007 President Commendations to Francis and our Hon Treasurer, Mr. K F Tang, for their continual supports of the Institute and active contribution to the work of the HKJB and IMarEST.

(S Y Tsui)

HKIMT & HKJB News

Technical Talk on Building Maintenance

Mr. MK Lai shared his working experience in building maintenance and management with members of the HKJB, HKIMT and HKIE(MMNC)

Mr. Lai gave a very informative and amusing talk to his engineering colleagues at the Harbour Club on 14 September. The talk which attracted 30 members began with an introduction of Mr. Lai's career as a Marine Engineer. He stepped into the building services shortly after he quitted his sea life. Since then he has been dealing with engineering jobs involving hotel, factory, residential building, shopping arcade and club, etc. He gave his working experience in the engineering management of the Country Club. He showed us his work covering mechanical, electrical, electronic, air-conditioning and construction activities of the Club. He also briefed us the various regulatory requirements, standards and code of practices required to be applied when carrying out those activities. Mr. Lai's presentation was amusing and enlightening and well-received by all the participants.

HKJB Chairman Nelson Yu presented a memento to M K Lai

MK Lai's sharing of experience 18-9-2007

Technical Visit to the Yuanhang Propellers Manufacturing Co.

A technical visit was held at the Yuanhang Propellers Manufacturer in Panyu, Guangdong, on 22 September, with participation of members of the HKJB and HKMIT. Mr. Ho Weixiong, managing director of the company, briefed us about the history of propeller manufacturing in China and the development of his company since 1993. Yuanhang, with a work force of 200 skilful workers, is now able to make propeller up to 5-metre diameter for 150,000-ton vessel. They also co-operated with overseas propeller and water-jet manufacturers to make controllable pitch propellers and water-jet impellers. Thanks to Mr. IM Ng for arranging the visit.

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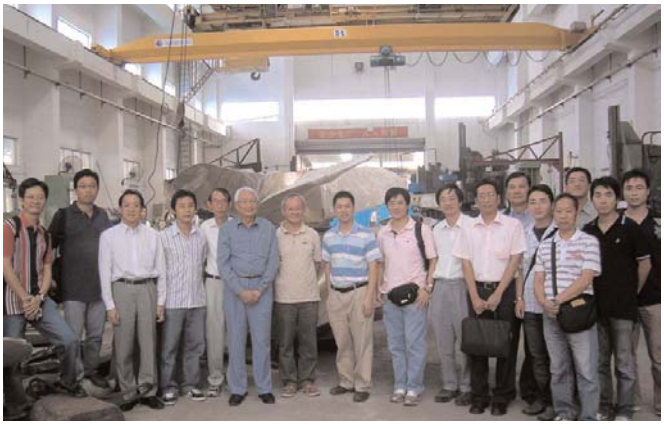

Visit to Panyu Propeller Factory on 22-9-2007

Capt Marso Law prsented the Career Talk

Maritime Week 2007 Seminar

In support of the Maritime Week 2007, the HKJB and HKIMT conducted a half day seminar on 13 October in the HKIE headquarters and attracted over 70 members and students. The seminar, comprising four topics, began with Capt. Marso K P Law's presentation on "Maritime Career in the Challenging Society?" Mr. Law outlined the globalization of economy which leads to the fact that Maritime Industry is an international business. He explained that maritime relating services, such as shipping finance, maritime law, insurance and arbitration, etc., would require youngsters with the seagoing experience and background. Working at sea would pave the way, may be a short cut, for young people to join those maritime professions. Mr. Law stressed that owing to the "breaking of the supply chain" in the past ten years, there had only been few people joining the sea-going career. For those now working at sea would have better opportunities and good prospects to take up other maritime jobs in future.

Mr. Y M Cheng outlined the incentive training scheme being implemented by Marine Department for the sea-going cadets. He highlighted the success of the scheme which was first introduced in 2005. He also invited two cadets to brief the audience about their experience in working at sea.

Mr. David Power of Lloyds Register presented two papers ("Maritime Regulations & Politics – IMO, IACS, Flag Authorities & The EU" and "An Update on Environmental Regulations – IMO MARPOL

Mr. Eric Chu and Mr. Ernest Chan chaired the Seminar on 13 October 2007

Mr. Y M Cheng gave a brief on the Marine Department Incentive Scheme for cadets working at sea

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Mr. David Power addressed the audience in HKIE-HQ

Regulations") at the seminar. He outlined the development of the IMO MEPC matters, such as the Ballast Water Management, Recycling of ships, Bio-fouling, and Green House Gas (GHG), etc. In particular, he stressed that the Ballast Water Management Convention was adopted by IMO on 13 February 2004. The Convention will enter into force 12 months after at least 30 States, the combined merchant fleets of which contribute at least 35% of the gross tonnage of the world's merchant shipping, ratify the Convention. To date there are 10 signatories to the Convention representing 3.42% of the world's merchant shipping. The Convention will apply to all ships, except warships or Government vessels, carrying and exchanging ballast water. Ships governed by this Convention will be required to carry out ballast water sediment management on all voyages and have on board an approved ballast water management plan and a ballast water record book. Ships of 400 gt and above are subject to surveys and certification. Mr. Power reminded the audience that some countries, such as Australia, New Zealand, Israel (Red Sea), Canada, Chile and USA, have their national regulations for carrying out ballast water management. He urged shipowners to take into account of the ballast water management and equipment in their new buildings.

Mr. Power also gave a detailed explanation on the IMO new approach, the Goal-based standards. He introduced the 3-tier Goal-based framework from (i) verification of design and certification to (ii) the functional requirements covering design life, fatigue life, structural strength and construction quality procedures, etc., and (iii) leading to the Goals of design life, structurally safe, and environmentally friendly, etc.

Being the marine manager of Lloyds, Mr. Power, of course, has not forgotten to tell the audience what Lloyds can do for the maritime industry and its participation in the International Association of Classification Societies (IACS). He also gave an enlightening presentation on Lloyds' working together with INTERTANKO, INTERCARGO, the Greek Shipping Co-operation Committee and the International Salvage Union to challenge the European Union's criminalization legislation.

Mr. Albert W S Lo's paper on "A Practical Approach towards an Integrated Fleet Management System – A ship owner-manager's case" drew a lot of attention from the audience. Mr. Lo gave his experience in developing such a system in one of the shipping companies he served. He emphasized that it was due to the pressure from the various regulatory authorities and the industry that prompted him to work on the computerized fleet management system. With the commitment of top management, the system was proved to be able to achieve 15% reduction in machinery breakdown, 5% reduction in maintenance and repair costs, staff productivity increased by 10%, and reduction of additional overhead costs by 20%, etc. Mr. Lo stressed that the key for the successful implementation of the system came from the support and commitment of

Mr. Albert Lo at the presentation

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A cadet shared his working experience at sea

management and the users. The system would help to improve the efficient operation of vessels, to free up some management time so that an engineer superintendant can look after more ships. Environmentally, it helps to reduce the use of paper and contributes to the reduction of pollution and accident cases.

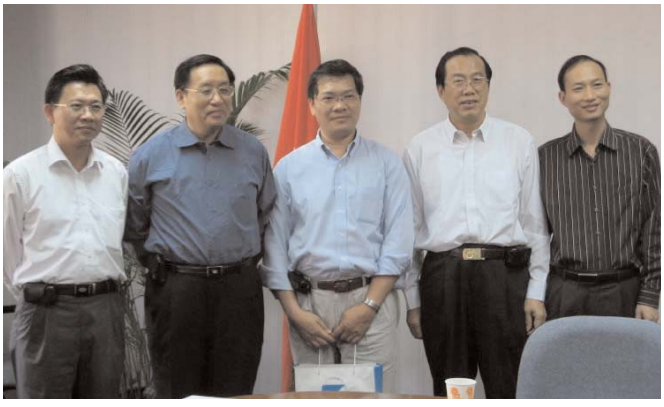
The Seminar was well received by members and there were discussions on all the topics presented.

Delegation of GSNAME Visited HK Polytechnic University and Yiu Lian Shipyard

A delegation of seven members of Guangdong SNAME, led by President Hu Guo Liang, attended the two technical visits and the HKJB & HKIMT Annual Ball of 2007. Their technical visits started in the morning of 16 November. The first visit was to the Hong Kong Polytechnic University. Dr C S Cheung of Department of Mechanical Engineering kindly showed our visitors to his research laboratories and briefed them the facilities and on the various student projects. The GSNAME members met a 3rd year student from China and talked with him about his life in Hong Kong. In addition to the technical appreciation of the PolyU's research projects, the GSNAME members were also impressed by the innovative culture and community services displayed at the University.

Delegation of GSNAME visit to HK Polytechnic University

The Yiu Lian Shipyard visit was carried out in the afternoon. Mr. P Y Li, the Executive Director of Yiu Lian Shipyard (a subsidiary of the China Merchants Industry Holdings) met the GSNAME members at the entrance of the Administration Building of the Shipyard. Mr. Li briefed the GSNAME members on the business of the Shipyard as well as their new shipyard in Shenzhen. He also showed them around the facilities of the yard and the



Group photo taken at Yiu Lian Shipyard

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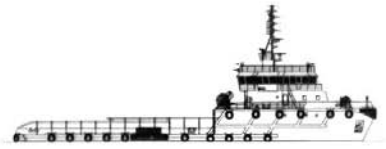
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two floating docks. The GSNAME members shared their experience in the Guangdong shipyards and told us about their new building projects in their CSSC Guangzhou Longxue Shipyard.

(S Y Tsui)

HKIMT & HKJB Annual Ball 2007

The annual ball 2007 held on the 16 November at the Kowloon Shangri-La Hotel this year was well attended by nearly 300 members and guests, a full-house of 29 tables. We are honored to invite Hon Ms. Rita Fan Hsu Lai-tai, Chairperson of the Hong Kong Legislative Council, to be our Guest of Honour of the event. Hon Ms. Miriam Lau and Hon Dr Raymond Ho also attended as our guests and the GSNAME sent a team of seven persons, including President Hu Guo Liang and Madam Qin, to support the event.

The following is the speech delivered by Hon Ms. Rita Fan Hsu Lai-tai at the Annual Ball:

"Chairman Chan, Chairman Yu, distinguished guests, ladies and gentlemen,

Good evening! It is indeed my pleasure to be here tonight to meet with friends from the maritime sector.

Quite frankly, I am not very familiar with the maritime affairs. What I know about sea is traveling by sea cruise for sight-seeing. In fact, I have this wonderful experience this summer. I went to the Eastern Mediterranean and the Greek Isles with my family and friends for summer vacation. It was quite an experience!

But well, back to the theme tonight. I am asked to talk about Hong Kong's prevailing maritime affairs from the legislative perspective. So before I come, I tried to find some relevant materials that have been discussed in the Panels or Committees of the Legislative Council. Unfortunately, I couldn't find much. But that might be good news for you; after all, not being a subject for discussion or debate in the legislature may mean that the maritime industry is going smoothly and does not have much for my Members to care about.

Support from Hon Ms. Miriam Lau and Hon Ms. Rita Fan

As a matter of fact, Hong Kong is one of the busiest ports in the world. It ranks the 7th largest maritime centre globally. The shipping and maritime industry contributes to 2.2% of our GDP. Ship management, ship financing, marine insurance, maritime legal services and arbitration, ship brokering, ship repair and ship registration are all the key components of the maritime service in Hong Kong.

The maritime industry is an industry that requires professionals like all of you for smooth operation. It requires not only professionals for sea-going employment, but also talents for shore-based jobs. But as our economy grows and diversifies rapidly, it is not surprising that the sea-going career has become less and less attractive for the young people to join.

To cope with this situation, the government has proposed to launch the Hong Kong Maritime Scholarship Scheme to help attract local and mainland talents to take up maritime related post-graduate programmes in Hong

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Kong and subsequently, to join our shipping and maritime industry. The proposal was discussed at a meeting of the Economic Services Panel on April 23 this year. Members in general supported the proposal, and it is expected that the first batch of scholarship will be awarded in 2007/2008 academic year.

Like our political arena, the maritime industry also needs new talents to build up an elite workforce for the industry to not only sustain its development, but further enhance its quality services and competitiveness in maintaining Hong Kong as an international maritime centre.

In closing, I would like to take this opportunity to wish you all a memorable and enjoyable evening. Thank you."

Hon Ms. Rita Fan also made three wishes at the end of her speech. She wished we would have more than 29 tables at the next Annual Ball. Her second wish was to see more youngsters joining the maritime sectors. She also wished all of us the very best of health and those in business every success.

(S Y Tsui)

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Article of Leisure

What you don't know about the Newton's Laws

Many readers might feel being insulted when they read the title of this article. Most likely, their reaction would be that all engineers are good at the Newton's Laws. In this article, the author will try to discuss the life of Newton in another perspective and would like to describe it as the Newton's Fourth Law – Law of Longevity.

In the MARINA October 2004 issue, the author wrote about the life of Dr. Rudolf Diesel. Some members gave me feedback saying that they knew Diesel Cycle, Diesel oil and Diesel engines but not the life of Dr. Diesel and it was interesting. Therefore, the author supposes some readers only know the Newton's three laws of motion well but not Newton's life (his 4th law). In this article the author will briefly introduce Newton's life and discuss how it might affect his long life.

Sir Isaac Newton was born in 1642 and died in 1727. He lived for 85 years. In the 17th Century, the average human life was properly under 50 and so how could Sir Isaac Newton live that long.

Sir Isaac Newton was born on 25 December 1642 in the southern part of England. His father died before he was born. When he was a boy he made all sorts of wondrous things from wood, like tables, chairs, miniature carts and coaches. He was also full of curiosity and liked to ask "why" all the time. As he watched his model windmill turn, he began wondering about the power of wind. He thought how he could learn about something he could not see. Finally he thought out a way – flying a kite. By flying a kite, he could measure the wind's strength and tell how fast it was going at different heights.

Newton entered University of Cambridge in 1661. At that time, few people went to college. Most of the students at Cambridge came from wealthy families. Newton paid for his education by working as a servant. He served meals and cleaned rooms for teachers and older students. In 1669, he became a professor of Cambridge. He was the youngest mathematics professor ever to teach at Cambridge.

In 1687, his laws of motion was described and published in "Principia" publication. In 1703, the Royal Society elected Newton to be its chairman. In 1705, Queen Anne made Newton a knight. He could now be called Sir Isaac Newton, the first knight of scientific achievement.

According to some history records, by the time Newton died, he only lost one tooth and still had thick hair.

His physical condition was good though he suffered from a strange illness (some record said it was mental breakdown) from 1692 to 1694. But he finally recovered. Why? The following may be the answer.

1. Curiosity – Newton asked "Why" all his life. He used both his brain and hands to solve problems all over his life. He read books, thought over the problem and made scientific instruments to test his theory. Modern researches prove that hand exercises can prevent Alzheimer's Disease.
2. Walking the horse – he strolled with his horse everyday. This was a very good exercise for his back, arms and legs.
3. Flying Kites – Newton had kept flying kites as his hobby since he was a boy. Flying kites is good exercise for arms and legs and particularly good for eye-hand-foot coordination.
4. Religion devotion – Newton read the Bible daily throughout his life and wrote over a million words of notes regarding his study of it. He devoted more time to the study of the Bible than to science. Religious belief could be the reason why Newton could recover from mental breakdown. Modern researches find that religious people live longer and healthier than the non-religious people.

Newton is certainly not Jack (all work and no play make a Jack a dull boy). He knew how to balance his work with leisure time by strolling and flying kites. In this way, it also balanced his brain and his body. Religious belief also helped him to get better peaceful mind. My dear fellow engineers, you have read the secrets of Newton's Fourth Law – longevity, I think it is the time for you to plan your balanced religious, physical and mental life and live happily and healthily.

Stop being stupid Jack! Action now!

(K F Tang)

Coming Events in 2008

1. Annual General Meeting of HKJB, on 15 January 2008
2. Technical Exchange and Visit to New Shipbuilding Yard in "Longxie" in Nam Sha of Guangdong, (tentatively in March 2008)
3. Technical Meeting "Conversion of Single Hull VLCC's to Double Hull VLCC's or VLOC's", (March/April 2008, by Mr. David POWER) (*provisional*)
4. Technical Meeting "Ballast water management system" or "Ship Recycling" (March/ April 2008, by Mr. David POWER) (*provisional*)
5. Annual General Meeting of HKIMT, in April 2008
6. Dragon Boats and Color Boats Racing 2007, (May/ June 2008)

N.B.: Updated details and information of the above events will be placed in the website: www.hkimt.org.hk [Please mark you diary if you are interested in the above and in attending, you could meet other members for information exchanges / networking]

(Michael LEE)

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PHOTO GALLERY 2007 Annual Ball

Toast to guests by council members

Thank you, Mrs Law *Thanks a lot Mrs Yu*

Past and Present Chairmen with Hon Ms. Miriam Lau and Mrs Yu

Speech by HKIMT Chairman – Mr. Ernest Chan *The best couple*

Hon Ir Dr Raymond Ho received by our council members

Our committee members with Hon Ms. Miriam Lau

Friends meeting during dinner

GSNAME VIPs & our council members

Guest of Honour & VIPs at head table

Friends gathering at cocktail reception

PHOTO GALLERY 2007 Annual Ball

Friends meeting at dinner session

Council members greeting the Chairman of GSNAME

Council members greeting VIP guests

Committee members receiving The Hon Ms. Rita Fan

Chairman of GSNAME meeting friends at cocktail reception

Another toast to our guests

A happy toast to our guests

Chairman's performance

Another full swing

See you at next annual ball