



# 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 3 : September 2009

### HKJB & HKIMT Activities

#### Technical Meeting on “New Ship Design and Building Experience in the Past Half Century” on 4 June 2009



HKJB Chairman, Dr. S. Y. Tsui presented a HKIMT/HKJB memento to Ir. H.P. Kwong

Ir. H. P. Kwong, from Southfleet Consultants Ltd., gave us a very interested presentation on new ship & machinery design since the oil crisis broke out in the periods in 1973/74 and 1980/81 and he also shared with us the new building experience in the past half century. The fuel economy design and installation of fuel saving devices played a major part in the change of new ship design,

such as the introduction of larger bore/stroke ration, lower engine/propeller rpm, constant pressure turbo-charging system, exhaust valve timing, fuel injection timing adjustment, turbo compound system, the low-viscous resistant hull with other fuel saving propulsive fitting, i.e. bulbous-open stem, Additional-thrust (A.T.)

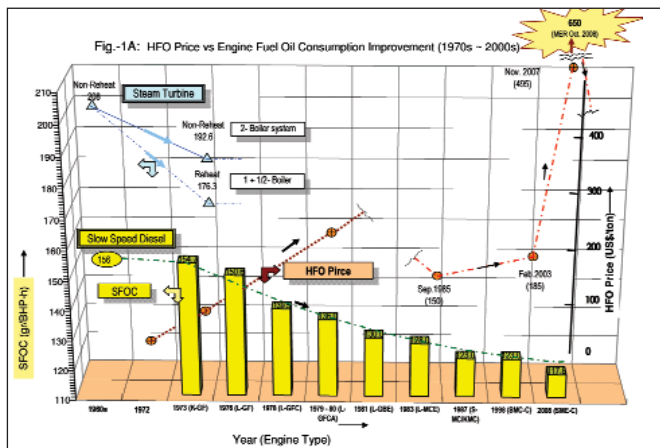


Fig-1A: HFO Price vs Engine Fuel Oil Consumption Improvement (1970s-2000s)

Fin, PBCF, Grim vane wheel, Kort Nozzle and Mitsui Integrated Duct Propeller, etc.

As a result of all these joint efforts, Mr. Kwong convinced that the fuel consumption of various ship type drastically reduced as compared with the ship built in the 1960s and 1970s. In spite of many energy-saving designs have been established, the answer to apply one or all of them is positive only if it proves to be economically sound. A stronger market is certainly need to allow the “Energy Saving designs” to be profitable. Another factor influences the decision in adopting the most advanced and sophisticated designs, is the recruitment of qualified, competent and experienced crew. Practical training still plays a crucial role in the future. The talk was quite thoughtful and attracted 75 members to share with him such tremendous wealth of experience.

(Albert Lo)

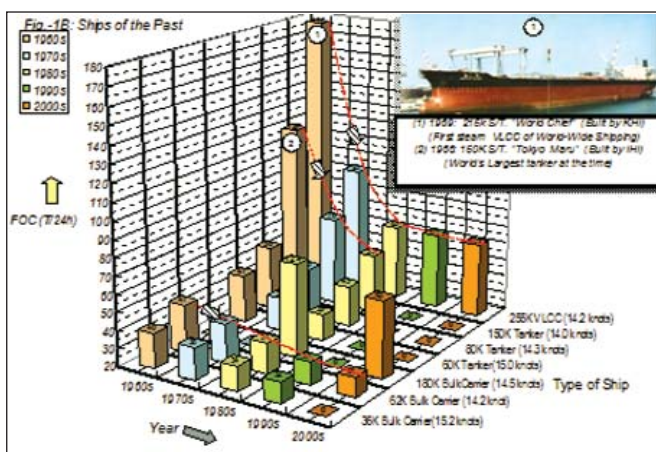
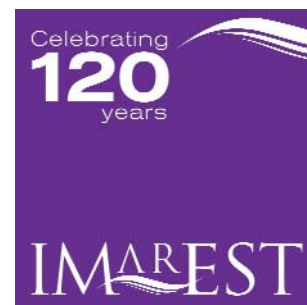


Fig-1B: Ships of the Past

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## Technical Visit – Fassmer-Marland Lifeboat Factory & Jinhui Shipyard

On 18 July 2009, 15 members of the HKJB and HKIMT joined a one-day visit to the Fassmer-Marland Lifeboat Builder and the Jinhui Shipyard at Zhongshan, China.

The delegation visited the lifeboat builder in the morning. Apart from receiving a warm welcome from Mr. C K Yim, the Vice Chairman, and Mr. Ken Hui, the Managing Director, of Fassmer-Marland, the delegation also received a good briefing from the Mr. Liu Rong, General Manager, of the Secretary Office of the National Torch High-Tech Industrial Development Zone.

There are two divisions at the Fassmer-Marland Zhongshan factory, the wind-division and the lifeboat-division. They build fibreglass reinforced plastic lifeboats up to the size of 289-person and 10-metre boats. Their annual production of lifeboats is between 250 and 300. All their lifeboats comply with the SOLAS standards and are approved by the German government authorities. The wind division is responsible for building spinners and nacelles for the wind-power generators.

The Secretary of the National Torch High-Tech Industrial Development Zone met the delegation at lunch and gave a very comprehensive briefing about the development projects of his Zone to the group.

After lunch, the group went to Jinhui Shipyard. They were met by Mr. YE Hesheng, the Managing Director



Group photo in front of the main entrance of Fassmer-Marland Ltd.



Group photo in front of the workshops of Fassmer-Marland Ltd.



Group photo inside the Jinhui Shipyard

of the Shipyard. Mr. YE introduced the activities of his yard to the delegation and gave the group a tour at the yard. There are 3 slipways and two drydocks at Juihui. They can build or repair ships up to the length of 100 metres. They have experience in building oil tankers, supply vessels and multi-purpose vessels. They carried



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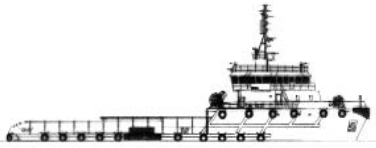
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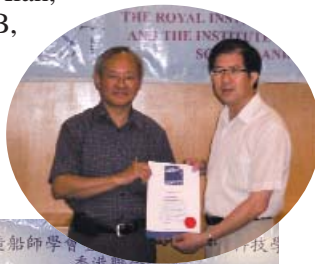
out repairs for different types of ships, including the ferry boats of the Hong Kong New Ferry Company. At the time of the visit, the delegation saw a multi-purpose tug under construction and a LPG vessel under repair.

The delegation was impressed by the work of the two organizations. They found the visits very fruitful and would like to express their gratitude to the two companies for their time and hospitalities.

(S Y Tsui)

### IMarEST President's Commendation to Ir Ernest Chan and Ir Alan Tsang

Congratulations to Ernest and Alan, Committee members of HKJB, on receiving the President's Commendation of IMarEST. Ernest got the commendation in September 2008 and Alan



IMarEST President Commendation to Alan Tsang



IMarEST President Commendation to Ernest Chan

has got it this year. This is an award to commend them on their contributions, continual support and outstanding service to IMarEST and the HKJB. Once again, hearty congratulations to you guys.

(S Y Tsui)

### An Interview of Professor Timothy TONG, President of the Hong Kong PolyU

Both the chairmen of HKJB and HKIMT together with Ir Tang Kai Fun visited the President of the Hong Kong PolyU, Professor Timothy Tong, on 13 August 2009 at Professor Tong's office. Professor Tong gave the interview party a very warm welcome, and he treated the visit as meeting the alumni. Professor Tong was so open and approachable that he spoke to us with no reservation.

Professor Tong opined that following the Government 3, 3, 4 educational policy PolyU will need more professors. At present, most overseas professors are recruited from China, but seeing the effect of the financial crisis in USA, it is expected that more American talents would look for jobs overseas. Perhaps, Hong Kong can attract these talents and professionals to come.

Professor Tong said Hong Kong is full of "brain powers" and they are the valuable assets of Hong Kong. There are evidence that R & D projects of PolyU have contributed to the success of many industries. In particular, PolyU specifies the importance of applied research and concentrates work in this area. However, PolyU encounters a lot of difficulties and faces many



Photo with Professor Timothy

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*Photo with Professor Timothy*

restrictions in soliciting and using of research funds. PolyU must be clear about the goals of its students and professors for every research. Very often, research projects are affected by lack of space or restriction in using land resources.

Urbanization and massive urban renewal must be carried out but with sensitivity to the needs of the community in attaining a higher quality of life. The needs and well-being of residents must be given primary consideration. Such concerns should be reflected in the teaching programmes and research activities. In the past, necessity has been the mother of invention for Hong Kong. Against global competition, our inventive capabilities should not be restricted to the reactive, but be powered by the proactive and the anticipatory. University students need to learn the soft skills that will help them become free-spirited and creative through a rigorous co-curricular programme. We need to nurture a culture of creativity and calculated risk-taking so our students will avail themselves of opportunities that arise.

Continual development for management executives and professionals is key to the sustainability of any international city. For Hong Kong, the need for talent is urgent. For mega economy like China, the hunger for talents and professionals is insatiable. PolyU executive programmes will focus on enhancing innovative and entrepreneurial skills of the working professionals in the different industries and professions, as well as elevating their global perspectives.

Professor Tong hints that hiking and bicycling are good stress release mechanism. He is interested in

communicating with his students. He opines that Hong Kong students should participate more in class and be more proactive to raise questions. At the end of the interview, Professor Tong gave advice to our young engineers that “professional ethics must be kept at all time”; “do not cut corners in performing tasks”; and “set a good objective to serve the society”.

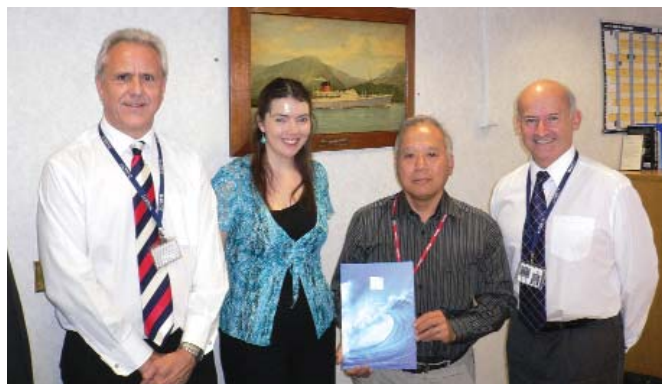
We deeply appreciate that Professor Tong has given us nearly two hours to update us on PolyU policies and current issues. He has given us many valuable advice and has no reservation to advise us on “what to do” and “how to do”. One good news is that he will approach his Mechanical Engineering Department to consider adding a “marine option” to their engineering programmes.

*(S Y Tsui, Nelson Yu and Tang Kai Fun)*

### **Visits to IMarEST & RINA Offices in London**

Whilst on private trip to London, our HKJB Hon. Secretary Albert Lo paid a courtesy visit to IMarEST office on 18 August 2009 morning and met up with John Wills, Director of Membership Services, Tim Simms, Manager Membership Services and Dr. Hannah Flint-Membership Development Manager. Albert was briefed by Mr. Wills on IMarEST latest strategic direction and membership drive and he also took Albert to see the Institute’s facilities and library thereafter.

On the same day afternoon, Albert Lo also called on RINA office and was greeted by Trevor Blakeley, Chief Executive of RINA. Albert made a quick tour of RINA Office and conference rooms too.



*Albert with T. Simms, Dr. H. Flint & J. Wills at IMarEST Office*





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Taking this opportunity, Albert expressed his heartfelt thanks to both John Wills and Trevor Blakeley for their time and hospitality extended to him throughout the visits.

(Albert Lo)



Albert with Blakeley,  
Chief Executive of RINA

## Seminar on “Stress & Skin”

A very special seminar was arranged on 18 August 2009 at HKPU where a Chinese Medicine Practitioner and a Western Medical Doctor were invited to look at this special subject.

Though this seminar was nothing related to marine engineering field, still we had about 20 participants to join.

Dr. Grace Lam first explained that stress involves a whole cascade of biological reactions which plays havos on your nervous and endocrine system. Then she gave examples on sources of stress, and once our skin is under stress, there will be some unexpected show-off from our skin. So a good care to our skin is very important and in order to obtain this, one has to do regular physical exercise, good diet, good quality sleep, etc. And finally she gave some advices on what “Not to do” attitude.

Then followed by another speaker Mr. John Au-Yeung. He first directed us how ancient people think by using “Yi” philosophy how things can be grouped together.

Then he explained how “Yi” philosophy can explain why stress exists, and once stress generated, skin problems will be seen. Later he explained how stress – skin problem can be related by some “Yi” simple and at last he gave us the following advice – “Good Health and be Safe at all time”.

By attending the above seminar, we know that Chinese culture has long been well developed and is actually very logical.

Any person who is interested in this subject, please feel free to contact Ir Tang Kai-fun on mobile 94063526 to obtain the seminar handout information.

(K. F. Tang)

## Technical visit to Marine Services Training Institute (MSTI)

The Institute, formerly known as Seamen’s Training Centre (STC) was established in 1988.

On 01 September 2003 the STC was integrated with the Hong Kong Institute of Vocational Education (Tsing Yi) and renamed as the Marine Services Training Institute (MSTI).

The Institute is located at the coast of New Territories between Tsuen Wan and Tuen Mun with an area of 16,000 square metres. Tai Lam Chung, the adjacent nullah, provides good sheltered water for the survival craft and rescue boat training.

In the morning of 05 September 2009 (Sat), a total of 11 members both from HKJB and HKIMT paid a visit there and were welcomed by Mr. Tony Yeung, the manager of MSTI.

Firstly we were directed by Mr. Ricky Luk, the recruitment & placement officer of MSTI, to walk thru their engine and other engine related parts workshop and display room.



Souvenir to Tony Yeung



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Group photo  
in front of  
MSTI Building



Group photo  
in front of  
the landmark  
of MSTI

Then we had the chance of watching the fire drill and the survival drill which were planned and operated by the students. This drill showed the well planned and co-operation of all persons involved. Mr. Ricky Luk explained to us that the fire fighting water are collected by their underground tank and are being reused after treatment for a period of one month. Then we were explained that a solar heating system is being installed on the roof top for student shower using after the completion of the fire drill.

Mr. Tony Yeung and Mr. Ricky Luk then guided us walk thru the whole Institute which include a 4-story main building, an open car park, a sewage plant, a survival drill tank, a water treatment system, a football pitch and a series of mock-up ship structures and installations such as forecastle, a kitchen, a cargo hatch, a superstructure, a bunkering arrangement, a tunnel/ double bottom tank (confined space), a mock-up liftboat embarkation platform and a LPG storage tank and pipeline system, etc. Later we went into the simulation room for training of refresher and upgrading modular STCW 95 courses for in-service seafarers and disciplinary forces. Also there is a show room to display different kind of ship models as well as many other maritime related plant and equipment. All the above facilities can assist students to learn more about the shipboard operations, details of engine parts and functions of ship equipment. The Institute also has a PC & language laboratory where ship stability and cargo handling theory can be trained there. A library / conference room and a multi-function recreational room are also provided.

Mr. Tony Yeung explained to us that existing training courses provided by MSTI are around 82 courses and the main training courses are summarized as follows:–

- A) Pre-sea training courses
- (i) 3-year Higher Diploma Course in Maritime Studies for school leavers of S5 or above standard (Mr. Yeung said this term, they had received 62 students to enroll)
  - (ii) 23-week Junior GP Rating Course for school leavers of S3 or above standard and at age between 16 1/2 and 33 1/2 years old
  - (iii) Modular courses for other graduates from IVEs and recognized local education & training institutions leading to the issue of Seaman's Discharge Books.

- B) Refresher and upgrading modular STCW95 courses for in-service seafarers and disciplinary forces
- C) Mandatory safety training courses for personnel employed in the marine-related and shore-based industries
- D) Practical training, fire fighting training and soft skill training for VTC staff and students
- E) Tailor-made safety training courses to meet the requirements of clients

And finally Mr. Tony Yeung said right now MSTI has two main problems:–

- (1) Difficulties in recruiting students
- (2) Paying higher salary for trainers due to short of well educated and experienced teachers from Maritime field

Mr. Tony Yeung hopes HKJB/HKIMT can assist to promote the image of MSTI as Maritime service is one of the core issues in Hong Kong as announced by Mr. Donald Tsang two months ago.

(K. F. Tang)



Visit the  
training room

Visit the  
simulating room



## 20 years relationship with The Guangdong Society of Naval Architects and Marine Engineers (GDSNAME)

In order to celebrate the 20 years relationship between GDSNAME and the Maritime & Shipbuilding Institutes from Hong Kong and Macau, a half day seminar and a friendly football match had been arranged on 12 September 2009 (Sat) in Guangzhou.

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*Delegation group photo*

There were about 24 members coming from HKJB, HKIMT, MMNC division of HKIE, IMechE as well as representatives from Macau Port authority, attending this remarkable event.

In the morning of 12 September 2009, a theme seminar titled “Maritime Professional to keep Blue Sky” was held inside the Guangzhou Science Hall. There were a total of 3 papers, named:–

1. New IMO Stringent Requirements on ship emissions (by Mr. Y M Cheng of HK Marine Department)
2. Facing the challenge of IMO ship recycling convention (by Ben Y M Lau of Lloyd’s Registration)
3. Guidelines for the Development of the Inventory of Hazardous materials (by Mr. Y M Cheng of HK Marine Department)

The opening speech was presented by Mr. Hu Guo Liang – the chairman of GDSNAME. Then followed by Mr. Tong Shihua of Guangdong Provincial Association for Science & Technology, in which they stated that we had a successful cooperation relationship in the past 20 years and we are looking forward to further cooperation in the years to come in order to have a closer relationship among Guangdong, Hong Kong and Macau for promoting the Maritime Industry.



*Full attendance during the seminar*

And the closing speech was presented by Dr. Tsui, the chairman of HKJB. He also stressed that China is very keen on the implementation to keep the Blue Sky. During the Diplomatic convention regarding ship recycling which was held in mid-May in Hong Kong in which Mr. Xu Zuyuan, Vice-Minister of Transport of the People’s Republic of China, was elected as the President of this Diplomatic Conference. Dr. Tsui finally gave thanks to the Guangdong counter part for their successful arrangement of this event.

After lunch, we went to the football pitch at Huangpu District. Though there was no strong sunshine, everybody was feeling very hot. Players from both sides were playing very hard in order to get their goals. And the final score was 3:1. This time the winner was Guangdong, for they had in average a much younger players and stronger cheering team. Maybe next time we should gather a stronger cheering team to support.



*Group photo from both teams*

At last we had a dinner gathering in which short speeches and presentation of souvenirs from Chairmen of different Institutes and Organizations were arranged. The above events demonstrated that our relationship with Guangdong counter part has been strengthened further for a solid foundation to build.

*(K. F. Tang)*

## **Hong Kong Maritime Industry Promotion and Fund Raising Day – Lamma Island on 06 December 2009**

The Institute of Seatransport is coordinating with other local maritime related organization in organizing the above joint event.

The objective of this event is to promote the image and strength of the Hong Kong Maritime Industry and raise fund for scholarship.

The walk will take place in the morning. After that, a lunch will be arranged. The cost for each participant is HK\$380 plus an optional donation. The above charge covers the expense on food, ferry and a T-shirt. Deadline for registration is 25 November 2009.

Please mark the date in your diary and encourage your friends / colleagues to join.

(K. F. Tang)

### Annual ball (20 November 2009) at Kowloon Shangri-La Hotel

As usual, HKJB / HKIMT has organized the above traditional event in order to refresh the friendship among local and overseas Maritime professionals and business counterparts in a friendly and enjoyable environment and to have great fun.

Now we have received quite a number of table sponsors from Maritime organizations, but we need more support from you to make this event successful.

Meanwhile, we appeal to members of HKJB/HKIMT try their best to secure more tables from the company sponsors or reserve your seat as earlier as possible so that the above event can be lightened even more brightly.

(K. F. Tang)

### Coming Events / Activities in 2009

- 6 October, 2009  
Technical Seminar on “Facing the Challenge of Ship Recycling Convention”
- 20 November, 2009  
Annual Ball in Kowloon Shangri-La Hotel
- 24 November, 2009  
Career Talk to Students of Engineering from Local Universities (Venue at HKPolyU)
- 1-4 December, 2009  
Marintec China 2009  
Conference and Exhibition in Shanghai, China
- 6 December, 2009  
Joint Event – HK Maritime Industry Promotion/  
Fund Raising Day – Lamma Island Walk

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