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 3: OCTOBER 2003

HKIMT & HKJB News

2003 Hong Kong - Macao - Shenzhen on Shipping Technical Exchange

The 2003 Hong Kong - Macao - Shenzhen on Shipping Technical Exchange was held in Macao on 22 September 2003. It was the first time of this kind held in Macao to provide a forum for exchange information on the recent and future development on ship's technical and operational matters including high-speed craft in the Pearl River Delta Region and to enhance co-operation between Hong Kong, Macao and Shenzhen. The Technical Exchange was organized by the HKIMT, the HKJB of RINA and IMarEST, the HKIE (MMNC Division) and the Shenzhen SNAME. In addition, the event was also co-organized by the Marine Department of the Govt. of HKSAR, the Maritime Administration of the Govt. of Macao SAR and the Macau Productivity and Technology Transfer Center together with supports from Shun Tak - China Travel Ship Management Ltd. and New World First Ferry Services Ltd. The function attracted a total of 65 participants, with 37 participants from Hong Kong, 13 participants from Shenzhen, while the remaining participants were mainly from Macao.

The event covered a full day's programme, including visit to the Macao Government Dockyard, Portuguese style buffet lunch sponsored by the Maritime Administration of Macao SAR, a seminar for technical exchange consisting of 5 paper presentations and followed by a cocktail reception and closing dinner.

Many participants took the opportunity to arrive Macao a day earlier on Sunday 23 Sept. for sightseeing and other activities. Some of them even took advantage of the good weather and came with their families to spend a day in Macao. Of course, the Chairmen and a number of Committee members had to arrive a day earlier to make sure the set up for the seminar and other arrangement were properly carried out.

The programme of the day started with a visit to the Macao Government Dockyard in the morning. After gathering at the Macao Ferry Terminal at around 9:50 a.m., we boarded two coaches and proceeded to the new Macao Government Dockyard.

Contents:–

HKIMT & HKJB News .....1 – 6

Maritime News .....6 – 7

Article of Leisure 8

Visit our web site.....

http://www.hkimt.org.hk

Ocean Shipbuilding & Engineering Ltd
95 Hing Wah Street West
Lai Chi Kok, Kowloon, Hong Kong
Tel: 2307 6886 Fax: 2547 0561

Syncrolift

A SHUN TAK GROUP COMPANY

SHIP REPAIRS

Upon arrival, the Dockyard Manager Mr. Kong Kam-seng and his staff led us to the conference hall and gave us a brief introduction on the history of the old Macao Government Dockyard, and the set up in the new site. As the dockyard had a history of over 100 years, Mr. Kong showed us a number of valuable pictures of the old dockyard which brought us back to the history and let us see what kind of tools and equipments were used by our predecessors to build and repair ships in the earlier dates. After the briefing session, we tour the facilities of the new dockyard. As the dockyard relocated to its new site only a few weeks before our visit, a number of facilities were not fully in operation at the time of our visit. Nevertheless, most participants showed keen interest to see the set up of the dockyard and asked many questions about the history of the dockyard.

After the visit to the Macao Government Dockyard, we boarded the coaches again and proceeded to the Maritime Training School near the Ama Temple area for a short stay and then proceeded to the staff canteen of the Maritime Administration for a Portuguese style buffet lunch. After the lunch, we proceed to the Maritime Training School and got ready for the main programme of the day - the Seminar on Technical Exchange.

The Seminar on Technical Exchange started with brief welcome remarks by the MC Ir. Alan Tsang. Then Mr. Vong Kam-fai, the Deputy Director of the Maritime Administration of the Govt. of Macao SAR gave an opening speech followed by presentation of souvenirs to the co-organizers and supporters of the event. The first paper - "Development of New VTS in Macao" was presented by Mr. V.H. Ip of the Maritime Administration, Macao SAR.

Mr. Ip briefly introduced the background of the VTS in the port of Macao and how the system was extended to the present state. He also briefed the audiences on the importance on the training of the VTS traffic controllers and future advantages of the VTS in Pearl River Delta. In conclusion, Mr. Ip stressed that by means of advanced technology, the enhanced utilization of VTS in the region would assist maritime authorities to achieve their common goal: Safer Shipping and Cleaner Ocean.

There were two papers presented by member of the Shenzhen SNAME, namely "Repair Techniques of the Pontoon Deck under the mid-columniation of Nai Hai No.5": by Mr. Zhao Liyu and "The Research of EDBMS and 3D Solid Model for Offshore Platforms" by Mr. Teng Mingqing, Mr. ChenYue and Mr. Yang Shugeng. The former paper described the repair technique of the pontoon deck under the mid-columniation and the control of welding quantity and deformation of the Semi-submersible Platform "Nan Hai No.5". The latter paper described how the computer aided 3D design for offshore platform by using engineering database message system (EFBMS) and creating 3D solid model. The paper went further to describe procedures by firstly creating EDBMS for the design of offshore platforms. (... to p.5)

W.H. FONG NAVAL ARCHITECTS & MARINE SURVEYORS, CONSULTING ENGRS., CARGO & INDUSTRIAL INSPECTIONS & SUPERVISIONS, SHIPBUILDING CONTRACTORS

W.H. FONG & CO. TECHNOLOGY TRANSFERS, IMPORTS & EXPORTS, REG. FIRE SERVICES INSTALLATION CONTRACTORS

R.J. DEL PAN (H.K.) LTD. INTERNATIONAL MARINE SURVEYORS, REGISTRATIONS & SURVEYS OF **HONDURAS SHIPS REGISTRY** AUTHORIZED WORLDWIDE COVERAGE

6/F, Fung Woo Building, 279-281 Des Voeux Road, Central, Hong Kong
Telephone Numbers: 25414821, 25414197, 25415871, 25415265
Fax: 25414584 Telex: 62836 HONLE HX Cable: "FONGSCOURT" HK

bp marine

Worldclass Bunker & Lubricants Supplier
BP Hong Kong Limited
22/F., Devon House
979 King's Road, Taikoo Place
Quarry Bay, Hong Kong
Tel: (852) 2519 4200 Fax: (852) 2598 4776

Where the people make the difference

Seminar Delegate Visiting Macau Govenment Dockyard

Opening Ceremony at the Hong Kong-Macau-Shenzhen Seminar

Technical Visit at River Trade Terminal

On 30 August, a technical visit at the River Trade Terminal (RTT) was jointly organized by HKIMT and HKJB. It attracted around 26 members and guests to join the visit and 22 of them are students studying the Higher Diploma course in Maritime Technology and Management offered at the Engineering Department of the Hong Kong Institute of Vocational Education (Tsing Yi) of Vocational Training Council (VTC).

On arrival of the Terminal located in Tuen Mun at around 9:45 am, the Manager of Corporate Communication, Ms. Coty Chui, and her Assistant Officer, Ms. Jessica Leung, gave us a warm welcome at the main gate and then escorted the visitors on a bus tour cruising around the major zones within the Terminal including the 3,000 m quayfront. The RTT has a total area of about 65 hectares out of which 45 hectares is deployed as container yard area for stacking and storage of 50,000 TEU containers at one time.

During the bus tour, Ms. Leung from time to time highlighted the facilities to the visitors. These include: the Terminal Operation Centre to oversee 24-hour activities to ensure effective and efficient operations; stacking spaces for laden and empty containers, breakbulk cargoes, heavy goods and reefers; the 3,000 m quayfront enabling the berthing and handling of various types of vessels including container ships, breakbulk cargo ships and mid-stream lighers; the RTT has its own designed cargo handling cranes deployed along the seafront, namely the Quay Crane, each of which has a maximum load capacity up to 45 T and an outreach of 28 m; the rubber tyred gantry cranes and reach stackers for container shifting and/or stacking operations; the 300,000 square feet Container Freight Station for loading, unloading, transloading and warehousing services; the two computerized gate houses to enable smooth traffic movements; a 8,000 square feet Maintenance and Repair covered depot for providing all-weathered maintenance and repair services for containers; and the five-storey high Terminal Office Building.

The team was then led to the reception area of the RTT main office where the development stages of construction work of the RTT was introduced with the aid of a photo gallery.

ASSOCIATED CONSULTANTS & SURVEYORS LTD.
2/F., Man King Building,
38-40, Man Wui Street,
Ferry Point, Kowloon,
Hong Kong.
TEL: 2388 0610 FAX: 2710 9502

Consulting Engineer, Marine Cargs Surveryor, Authorized Boiler Inspector, Inspector of Petroleum & Lifting Appliance Examiner.

It was followed by a presentation by Ms. Karen Lo, Officer of Administration and Communication Office at a well equipped seminar room. She gave the visitors an overview of the current container terminal business context in Hong Kong; the company and business profile of RTT, the terminal operations and management as well as the facilities.

The HKJB Vice Chairman presenting a souvenir for RTT visit.

The Director and General Manager, Mr. John Wan then joined the Question and Answer session. The participants showed great interests in asking topics including the design features of the Quay Crane, the security issues, the possible impact of building a bridge linking Hong Kong, Zuhai and Macau in future on the transshipment of containers by sea routes ... etc. Lastly, our participating members expressed our thanks to the staffs of RTT for their warm reception for the visit.

It had been an interesting tour through which the participants gained much insight in both the technical and management aspects of RTT operations.

Reported by Ir. C.K. Mak

A group photo at the RTT

PETER CHENG NAVAL ARCHITECT
& MARINE CONSULTANT LIMITED
Summit Industrial Building, Unit A, 12/F
No.9 Sun Yip Street, Chai Wan, Hong Kong
Tel: 852-25150388 Fax: 852-25959430
E-mail: pcnamc@netvigator.com

- Project Contracting
- Combination of Brokerage & Technical Consultancy
- Newbuilding Supervision
- Shipyard Projection planning

CARMICHAEL & CLARKE CO., LTD.
(ESTABLISHED 1894)
1202 Unicorn Trade Centre, 131 Des Voeux Road, Central, Hong Kong

FOR SERVICE THROUGHOUT ASIA WE CONTINUE TO OFFER A DEDICATED STAFF OF SPECIALISTS
IN HULL, MACHINERY AND CARGO SURVEYS

Telephone: 2581 2678 Fax: 2581 2722 Telex: 73930 CARMI HX

(... from p.2) Then developing 3D design software for the platform, which could create 3D solid object automatically after the basic parameters of the platform components were inputted. The software could imitate manufacture and process of platform component by calculating of 3D solid objects, and could save records of component to database. The authors concluded that the research of this technology was one of the directions of CAD for offshore platforms.

There was one paper sponsored by the Macau Productivity and Technology Transfer Center titled "The Development of Oversea WIG Boat". This paper was the research work of Prof. Qian Zhi-shen of Nanjing University of Aeronautic and Astronautics, and it was presented by Dr. Zeng Rui, a students of Prof. Qian. The paper began with a comparison of boat and airplane. It was reported that WIG boat had many advantages such as high speed and high carrying capability In the past 40 years, different kind of WIG boats were developed and they showed these advantages. Dr. Zeng pointed out that nowadays, more and more countries are interested in the development of WIG boats, and such WIG boats will be used widely in the future. Nevertheless, Dr. Zeng stressed that many problems still need to be solved before the WIG boat can actually perform long distance and long duration oversea voyages. However, it was encouraged to note that in the past years, several attempts were made to solve these problems and achieved good results.

The last paper of the event titled "The Impact of Human Element issues on the Safe Operation of High-Speed Passenger Craft" was presented by Ir. H.K. Leung of Marine Department of the Govt. of HKSAR.

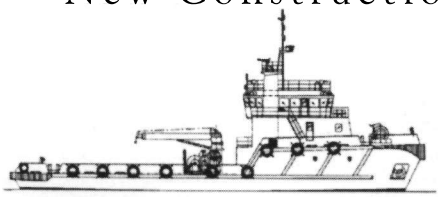
Ir. H.K. Leung pointed out that due to the increasing reliance on technology in the modern world, there is a tendency that the role of people is often overlooked or neglected. This ignores the fact that most accidents are caused by human factor, and that any serious attempt to improve maritime safety and marine pollution prevention must concentrate in the elimination of human error. Ir. H.K. Leung also gave a report on the major human elements based on the Hong Kong experience, and briefed the audiences how the human factors analysis was carried out in relation to the crew of high-speed craft operating in Hong Kong - Macao route.

The Seminar on Technical Exchange ended with a closing speech by Ir.K.S. Szeto, the Chairman of MMNC Division of HKIE. Ir. K.S. Szeto recognized the success of this Technical Exchange and stressed the need to continue co-operation of the marine industry within the region. He encouraged members of the industry to continue explore the new technology for improving efficiency and enhancing the maritime safety and marine pollution prevention aspects, so as to enable the industry to face the greater challenges ahead.

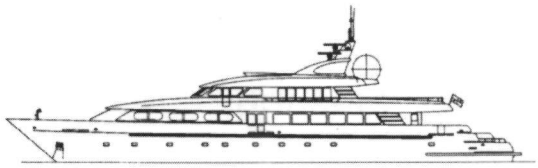
Finally, the MC announced the last event of the day, inviting all participants to the cocktail reception and closing dinner. Most participants attended this event and made use of this opportunity to catch up with the old acquaintances or meet new friends. The whole day's events ended at around 10:00 p.m. with everyone feeling fully satisfied in various aspects, and bringing home a good memory of the whole event.

Reported by Ir. K. Hui

New Construction — Vessel Maintenance



Cheoylee®



Cheoy Lee Shipyards Ltd.
89 & 91 Hing Wah Street West, Lai Chi Kok, Kowloon, Hong Kong
Tel: +852 2307 6333 Fax: +852 2307 5577 E-Mail: info@cheoylee.com

HKIMT Chairman's Evening

The Chairman's evening was held on 4 September 2003 at the History Room of the Police Officers' Club in Causeway Bay. This was the first time that HKIMT organized a social gathering for members and guests to meet with the Chairman. More importantly, this event also provided an opportunity for members and guests to enhance their social and business contacts in a relaxed atmosphere. It attracted some 40 members and guests. The new Chairman, Mr. Ernest Chan in his speech said that the Institute would continue to organize various activities to keep with members' interest and to enhance relationship and cooperation with other maritime organizations. He also urged for membership drive and members' participation in Institute activities. It was an enjoyable evening.

Maritime News

Ship Safety Branch of Marine Department accredited with ISO 9001

The Ship Safety Branch (SSB) of the Marine Department has passed its initial ISO 9001 certification assessment in its first attempt on 1 August 2003. The external certification body, BSI has recommended accreditation of ISO 9001 certificate to the Branch and Mr. John Broome, BSI's Vice President of the Asia Pacific Region presented the ISO certificate to Mr. S.Y. Tsui, Director of Marine at a presentation ceremony on 3 October 2003. Representatives of various Classification Societies and major ship management companies in Hong Kong attended the ceremony.

General Manager of the Ship Safety Branch Mr. W.K. Lee, who is also the Management Representative for the Quality Management System (QMS), said the adoption of a QMS is a strategic decision of the SSB that aimed at meeting customer needs and enhancing customer satisfaction. He said the idea of having a Quality System for the Branch was mooted in 1999, but the project was deferred due to restructuring and streamlining of the Hong Kong Shipping Register. Mr. Lee praised his staff for establishing the QMS by themselves without seeking any assistance from outside management consultants. He stressed that SSB will continue to strive for improvement with a view to exceeding the expectations of their customers.

BSI's Vice President Mr. John Broome presenting the ISO 9001 Certificate to Mr. SY Tsui, Director of Marine

KEE *Marine Service & Consultant Ltd*
大基海事有限公司

- BELIZE Administration authorized surveyor
- China approved compass adjuster
- Authorized Gas Free Inspector
- Technical Support to Owners & Operators
- 本地船舶專業

702, Hing Tai Commercial Building, 114 Wing Lok Street, Sheung Wan, Hong Kong. Tel: (852) 21161663 Fax: (852) 28516379
E-mail: info@keemarine.com http://www.keemarine.com

The need to renovate ATS

What is ATS? To different professionals, this acronym means different things.

To lawyers, it means ‘at the suit’.
To doctors, it means ‘American Thoracic Society’.
To electrical engineers, it means ‘ampere turns’.
To military pilots, it means ‘air to ship missiles’
To bankers, it means ‘automatic transfer services’.
To army officers, it means ‘Armoured Transport Squadron’.

This familiar acronym might arouse many marine engineers’ memories- some sweet, some bitter. To marine engineers, ATS means ‘Alternative Training Scheme’. What is Alternative Training Scheme? The author is of a view that ATS was one of the most successful and important training schemes from 60’s to 80’s in Hong Kong.

A pilot scheme of ATS commenced in 1951 in the U.K. ATS with several variations was then operated in increasing volume after the success of the pilot scheme. Until the inauguration of this scheme, young men who wished to become Engineer Officers in the Merchant Navy and rise to the top posts had to complete the traditional training programme as apprentices for five years in the recognized shipyards before serving on board. At that time, the shipping industry faced two problems (1) the growth of the shipping industry led to a continuous shortage of senior officers who required to pass the Certificate of Competency examinations (2) increasing numbers of modernized vessels that required engineers equipped with better theoretical knowledge to operate. Both problems required adequate practical and theoretical training for youngster who wished to serve in the Merchant Navy. ATS was born to cope with these changes and needs.

The experience of the UK shipping industry that a lot of senior officers, and latterly superintendents, were products of ATS, attracted the Hong Kong shipowners to support this scheme. In this way, ATS was introduced to Hong Kong in mid 60s. The author opines that the success of ATS was due to (1) meeting the industrial changes and needs (2) supporting from the industry (3) producing high calibre trainees by a structured and quality programme.

Since the 80’s, there have been radical social changes in Hong Kong. Hong Kong industry was transferred from manufacturing industry to service industry. In fact, we are preparing for what is called “the new economy”. But all these changes do not deny the fact that we still need a quality training programme for the maritime professionals, both shore based and seagoing training. Though society has changed as mentioned, Hong Kong still requires maritime professionals as she is one of the shipping centres and the busiest port in the world. One of the important successful factors of ATS is that it coped with the social and industrial changes from the 60s to the 80s. In fact, what we need now is a contemporary training programme that meets the social and industrial requirements in Hong Kong, say taking the new economy into consideration. Obviously, the readers will ask what should be the framework of the programme? What will be the training activities? How to implement it? etc.

As we had a very successful experience of running ATS, the author is very confident that we are able to devise and implement a new, innovative and industry-focus training programme that meets new challenges of the 21st centuary. The author would like to call for great ideas from different sectors of the shipping industry to make a contemporary training scheme a reality. My fellow members, please contribute your ideas to the editor of MARINA.

Ir K.F. Tang

THE MAGICIAN ON THE CRUISE SHIP

A magician was working on a cruise ship. The audience would be different each week, so the magician could do the same tricks many times.

There was only one problem: The captain's parrot saw the shows every week and began to understand every trick. Once he understood that, he started shouting in the middle of the show:
"Look, it's not the same hat!"
"Hey, why are all the cards the Ace of Spades ?"
The magician was furious but couldn't do anything, it was the captain's parrot after all.

One day the ship had an accident and sunk. The magician found himself on a piece of wood, in the middle of the ocean, and of course the parrot was by his side. They stared at each other with hate, but did not utter a word. This went on for several days. After a week the parrot finally said:
"Okay, I give up. What'd you do with the boat ?"

Adopted from poddys.com

All correspondence should be addressed to the Hon Secretary, Hong Kong Joint Branch of RINA and IMarEST, G.P.O. Box 2516, Central, Hong Kong, or by facsimile to Fax no. (852) 2573 6966. All matters pertaining to MARINA should be addressed to the above contact address.

The views expressed in this Newsletter are not necessary those of the Hong Kong Institute of Marine Technology or the Hong Kong Joint Branch of RINA & IMarEST. The Editorial Committee cannot accept responsibility for the accuracy or otherwise of information received in good faith and published by them in the MARINA.

The Committee expresses its thanks to those organisations who place their advertisements in MARINA in supporting its communication role for the interest of the maritime professionals. Details on advertisement fees are obtainable from the Hon Secretary.

HKIMT 2003 / 2004 Council Office Bearers

	Phone no.	Fax no.
CHAN W.K. Ernest Chairman	2803 6195	2886 4995
HO S.F. Vice-chairman	9100 8827	2338 6618
CHUEN C.W., Dr. Hon Secretary	2766 6660	2365 4703
FUNG K.S., Dr. Asst Hon Secretary	2436 8767	2436 1707
HUI K. Hon Treasurer	2875 6500	–

HK Joint Branch 2003 / 2004 Committee Office Bearers

	Phone no.	Fax no.
LEUNG H.K. Chairman	2852 4601	2542 4841
YU Nelson Vice-chairman	2997 6828	2997 6838
LEE Michael Hon Secretary	2852 4406	2854 9416
TANG Alan Asst Hon Secretary	2436 8760	2436 1707
TANG K.F. Hon Treasurer	2307 3408	2746 0518

Visit our web site.....

http://www.hkimt.org.hk