

安全通訊

Safety Bulletin

香港職業安全衛生協會
HONG KONG OCCUPATIONAL SAFETY AND HEALTH ASSOCIATION

Seminar on Gondola Safety

By: Mr. K.H. So

The seminar was jointly organized by Health, Safety and Environment Office of the Hong Kong Polytechnic University and The Hong Kong Occupational Safety & Health Association on 17 August 2017 with a full house of more than 104 participants.

Suspended working platform, commonly known as gondola, is widely used in Hong Kong. Capt. CHAN Hoi Yuen, Peter has been working for the gondola industry for over 20 years. In the gondola profession, Peter was the Former President of Hong Kong Gondola Association. Now, he is The Hong Kong Professional Gondola Association Limited - Technical Committee Representative (Temporary Gondola) 2016 – Present.



(From Right) Dr Daron Leung, President of HKOSHA, Capt CHAN Hoi Yuen, Peter and Mr. Andy Lo, EC Member of HKOSHA



Dr Daron Leung presented the souvenir to Capt CHAN Hoi Yuen, Peter in the Seminar with full house of participants.

In the seminar, Peter shared with the participants various knowledge regarding installation, test and examination, emergency preparedness, and accident record of Gondola. Apart from the statutory requirements and the guidelines stipulated in the Code of Practice (i.e. Code of Practice for Safe Use and Operation of Suspended Working Platforms), Peter quoted a national standard for reference: BS EN 1808:2015 Safety requirements for suspended access equipment - design calculations, stability criteria, construction - examinations and tests, which is not yet incorporated in the above-mentioned COP since its first publication in March 1999.

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Peter unveiled that gondola was mainly used in temporary works, inclusive of both above and below ground levels, e.g. building, oil industry, bridge, elevator and water works projects, etc. which Hong Kong always adopts the most advanced gondolas. Owing to the critical nature of application, in terms of installation, operation, and maintenance in unforeseeable environment, the statutory test and examination mechanism of gondola is comparatively more stringent than lifting appliance and lifting gear.

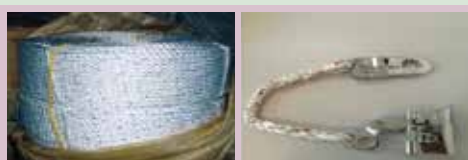
In the Q&A session, a self-claimed safety practitioner asked how to determine the nature of documents to be collected and evaluated for a set of gondola to be used in a site. Peter explained to the audience thoroughly. At the end of the presentation, Peter raised an interesting question "While there are various disciplines categorised in the engineering profession, how do a RSO, usually a general safety practitioner, to be developed to tackle similar issues in a professional manner?" Maybe, this is a way forward for improving the profession of safety practitioners.



Lifting system



Gondola safety system



Personal safety system



Suspension system



Gondola cage type



Dual Climbers of a gondola



Material failure



Gondola accident

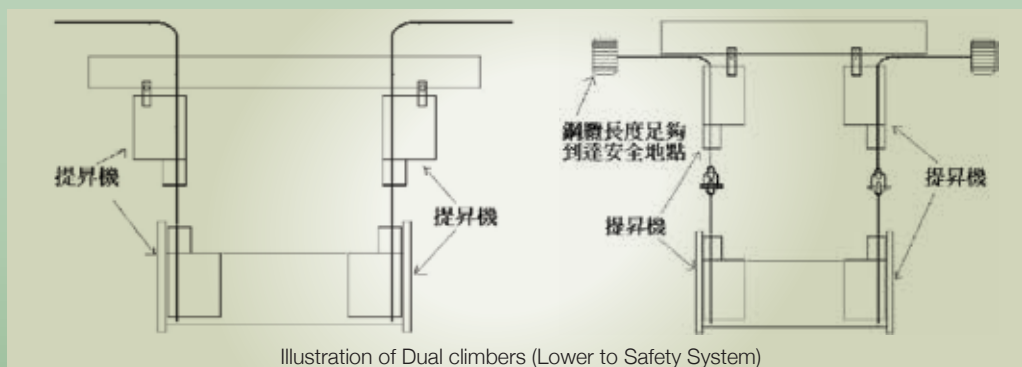


Illustration of Dual climbers (Lower to Safety System)



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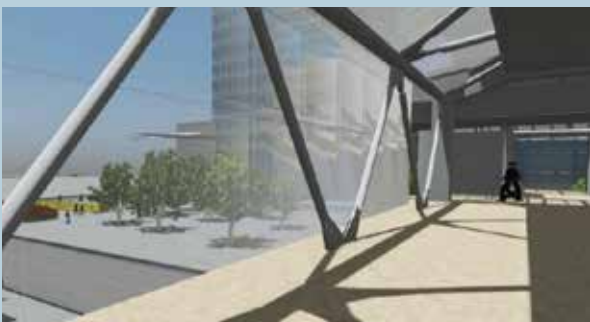


Safety Visit to Gammon Project at Taikoo Place

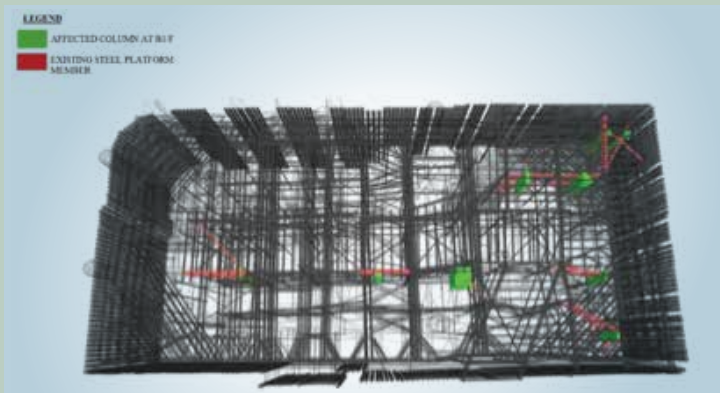
On 26 August 2017, 25 of our members had the pleasure to visit a Gammon Building Project at Quarry Bay - Taikoo Place Phase 2A Development.

The comprehensive presentation led by Mr. Sammy LAI (Senior Construction Manager), Mr. Alan MO (Senior Project Manager) and Mr. Felix LO (Senior Project Manager), demonstrated the numerous innovative construction methods and technologies being applied to this HK\$4b Class A commercial building with total CFA over 1.3 million sq. feet project able to deliver in 880 days with 4-day cycle for the typical floors. Gammon highly emphasized the importance of Design and Planning that those innovative technology are not started after the contract awards, they are being used during the tendering stage for client's full understanding of how the project will be designed and built.

To name a few of the technologies applied:-



- Cross discipline BIM coordinating Builder, Steel Work, Facade and Curtain Wall Work.



- 3D scanning for ELS combing BIM and as built detect clashes in advance



- 3D scanning for A&A works area to develop as-built point-cloud model for exact measurement

The most innovative, and all of us did wear the VR Glass, to feel the powerful fusion of BIM and VR that any design, pattern, colour change and crash detected can be inputted into the BIM and the results and be “FEEL” using the VR Glasses.

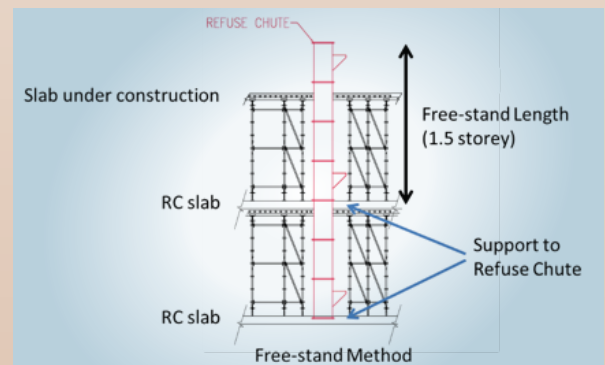
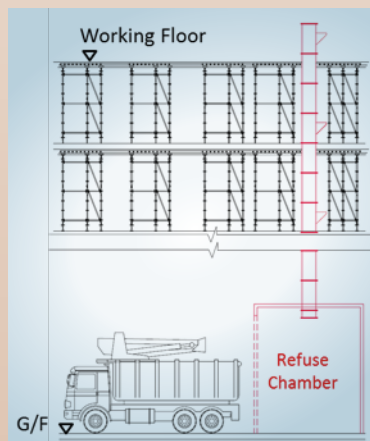


For construction technology, we are able to see, in 1 project, the use of :-

- External Climbing Scaffold
- Table Form and large scale Formwork Hoist
- Central Core Slip Form
- Aluminum Handset Platform

With no bamboo and very few timber formwork being used in this project, site tidiness and housekeeping us first class. During visit, we visit another innovation that many of us did express our wish to bring back to their own company for benchmark – Refuse Chute

With detail design in advance combining safety and production, refuse chute is integrated to the slab construction that there is dumping point at all levels including the working level.



There are no skip on the working floor allowing more work space and immediate and speedy removal of rubbish at the top most floor. The integration also eliminate the additional work for the installation of brackets and chute. Refuse was removed at the G/F chamber by truck, thanks for the detail planning in logistics.

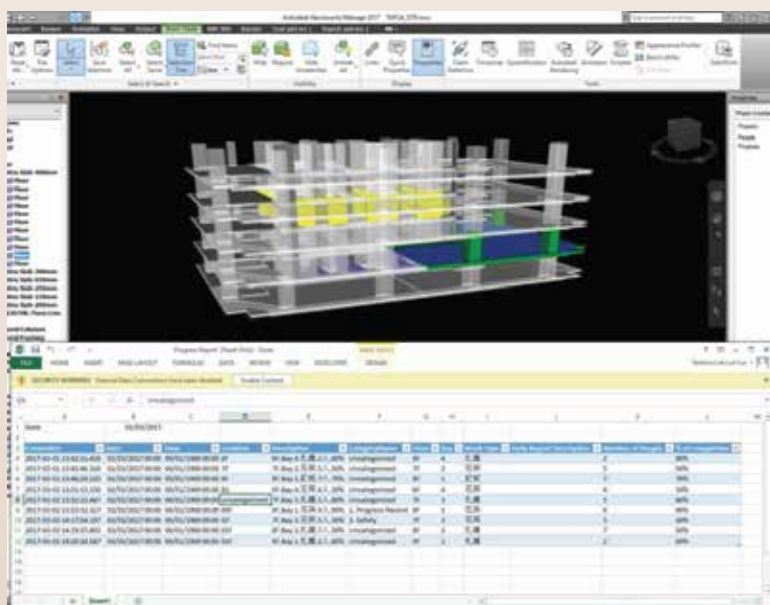
We have visited the installation of curtain wall and the use of Red Barrier as fatal zone and triple steel; lifelines at the edges are indeed Gammon standard.

For software innovation, “Gammon Bot” that is an in-house product, the first in HK using contractor owned cloud, to manage the various records taken from site not limited to safety near-miss, construction progress and defects of the construction for the use of Site Diary, Programming, Safety Report and Defect Management. Combining with BIM, the actual progress of work can be generated in a flick of fingers. Applying Gammon In-house Defect Management – i720, defects can be traced, analysed and reported and communicated effectively between main contractors, subcontractors, consultant and clients. Defect report is now paperless.



We must thanks to the special arrangement of Gammon for the demonstration of Robotic for construction – Zero G Arm and Exoskeleton. Notwithstanding the wide application is still to be developed, it is definitely a breakthrough for the aging work force in HK as well as reduce workers’ fatigue.

Our President Dr. Daron LEUNG did wear the Exoskeleton and become the first HKOSHA Robotic.



Apart from all these innovative stuff, the high Gammon Standard in safety management also bring foresight for our members.

- Red Barrier Fatal Zone
- Auto-cut Electricity Distribution Board
- No 220V power supply
- Control of 220V equipment using PRCD
- Full rubber cable and 110V lighting
- Double netting for falling object protection
- Prohibition of use of ladder and permit control

Last but not least we must thank Gammon for this visit and feedback from the visiting team is – FIRST CLASS!



Invitation to Society Link Gathering "Future Express Rail Link"

By: Mr. Kwok Ho

On Saturday 7 August 2017, I am honored to represent HKOSHA to attend the MTR event – Society Link Gathering on “Future Express Rail Link (XRL)” which was held at the Theatre, MTR Kam Tin Building, 23 Kam Ho Road, Kam Tin.

Simon Tang, General Manager of the project in MTR advised that the HK\$84.4 billion project is now more than 95 percent complete and is on track to meet its original commission deadline of the third quarter next year. We have the opportunity to see the new trains at a Shek Kong facility in Yuen Long. The nine trains used for the link have arrived in Hong Kong. In the final stage, the integrated testing and commissioning of the railway system will commence shortly.

As I found that through the physical inspection, some of the features include its orange and silver carriages, accessible toilets, two types of electric sockets for Hong Kong and the mainland, reversible seats and VIP reading lights. We would be able to charge our phones and use a computer with the power sockets provided. The officers from MTR explain in greater details and lead us to first class and second class. Thanks for the MTR arrangement, we experienced the facilities through this valuable visit.

Mr. Lau, the Head of the MTR, introduce us the XRL MTR Projects and how MTR led the changes in the world. MTR keeps Hong Kong moving during typhoon. Through this seminar, I realize that the success hinges on all staff, everyone, the public participation. Rome was not built in a day. So I firmly believe that, we should reap what we sow, especially for this dream project with much beneficial to Hong Kong as well as its complex and challenging in nature. Apart from that, our EC member Mr. So introduced one of the MTR departments responsible for PPE programme. I realized that MTR attach great importance on occupational safety and health, even personal safety in workplace, purchased outstanding qualities PPE for staff. Finally, we are looking forward to the new XRL on board.

Thanks to the HKOSHA, I have learned that how this project can run it efficiently and effectively. It really widened our horizons. MTR Society Link activity is a “must join” programme and I will definitely join it next time if I get the opportunity. The site visit was so amusing that it marked an indelible image in my mind.



The Head of the MTR kicked off the topic with MTR Story



Carmen Li, General Manager of Intercity in MTR introduced the XRL projects



Case Study Sharing by Mr. So: Prevention of recurrence of incidents and PPE introduction

MTR Officers introduced the First Class and Second Class functions



Nine trains used for the link have arrived in Hong Kong

HKOSHA Membership Update

Dear Members,

I would like to take this opportunity to welcome our new members and looks forward to their participation in HKOSHA activities and their contributions on development of HKOSHA.

Your participation could be in exchange of knowledge and experience in occupational safety and health (OSH) as well as building friendship among other members. Having more participants joining our family is thus important.



The Executive Committee of HKOSHA bears this in mind and set a target of 10% growth each year in membership. I am, as Chairman of the Membership Subcommittee, is proud to announce that we have 45 new members in 2016 and 35 new members within the period of Jan. to Aug. this year (ref. table 1) . Our total no. of members is now 419. And we hope that the number will further be increased to 500 in the coming year. Our Secretariat performed some analysis of the figures and the findings are presented in details below:

Table 1: Increasing trend of membership (2016 & 2017)



Table 2: Composition of new members, 2017 (Jan –Sept)



Referring to table 2, we see that the majority of new members recruited with 2017 (Jan-Aug) comes from Member and Professional Member grades (30 in total). Only 1 student member and 4 associate members were recruited. It seems that our promotion to students and colleagues from our related fields has rooms for further improvement. Company member, obviously is another field for development. While our connection to companies having similar safety interests may draw their attention on our activities as we have sponsors on these activities, it seems not sufficient to invite them up as our members.

It is crystal clear that student member is an important area we should explore and more promotion work should be done.

When you and your office recruits new safety personnel, please let them know that HKOSHA has been organising many CPD activities including seminars and visits and these CPD activities could help their career development!

Last but not the least, can you help promote this and invite your boss to join HKOSHA as a Company Member? Through the strong networking from HKOSHA, your Company could gain the most benefits from HKOSHA as a Company Member.



Table 3: Membership distribution

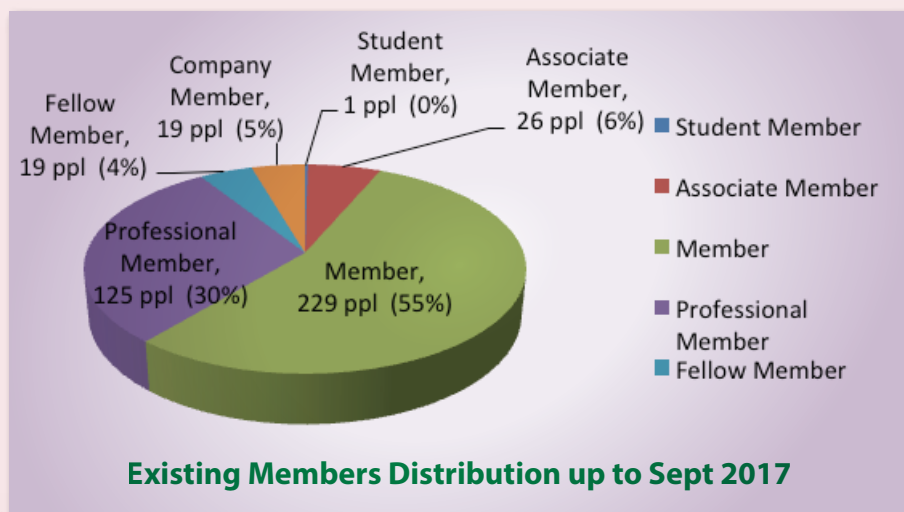


Table 3 is a full picture of our existing membership distribution. We see a pyramid established amongst Fellow Member, Professional Member and Members. The up flow from member to fellow member is one of the interest of the organisation. We encourage our members to apply for professional membership which also indicates the career development of a safety practitioner into a safety professional. Similarly, associate members are encouraged to apply for membership if they do take safety as a career. Please let us know your areas of concern and any activities that you would like HKOSHA to organise for you.

In case you need more information on this, our Secretariat is willing to help.
(Tel : 2332 9210; Email: admin@hkosha.org.hk)

Your feedback and suggestions on our membership promotion is much appreciated.

Thank you
Best regards

Y K Kam

Chairman, Membership Subcommittee

**Promotion for New Members: New members joining the Association and paid the subscription fee for 2018 will be entitled to enjoy free membership for the remaining months in 2017."*

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HKOSHA NEWS

New Members

As of end October 2017, there are 426 members in HKOSHA.

The following membership applications were approved in October 2017.

Approval of Membership

Name	Grade of Membership
1 YANG Chi Tat, Keith	Member
2 HUI Yee Tsang	Professional Member (Safety)
3 LAI Po Yi	Professional Member (Safety)
4 LAW Ka Yee, Percy	Professional Member (Safety)
5 WONG Kwun Chiu, Edward	Professional Member (Safety)
6 WONG Siu Leung	Professional Member (Safety)
7 Man Young Industrial Limited	Company Member

CPD in the Pipeline

1. Safety Seminar on Building Information Modelling (BIM)
2. Construction Design Management Practice in West Kowloon
3. Contract Considerations in Safety (Highlight:
A Talk on How to Use Commercial / Contract to Improve Construction Site Safety)
4. Talk on Ergonomics
5. Talk on Legal Aspects
6. Talk on Electrical Work Safety
7. Talk on Fire Safety



Voluntary Accreditation Services for Safety Supervisor (Construction) (ASS(CO))

Hong Kong Safety and Health Certification Scheme

The Occupational Safety and Health Council introduced the Hong Kong Safety and Health Certification Scheme (HKSHCS) in 2014, the scheme provides accreditation services to relevant OSH practitioners and competent persons to ensure that they possess the necessary qualifications and capability to perform the specified duties. The accreditation services would enhance their competency and safety performances, and at the same time provides a recognition to the industry.

Accredited Safety Supervisor (Construction) (ASS(CO))

In accordance with the provisions of the Factories and Industrial Undertakings (Safety Officers and Safety Supervisors) Regulations, a contractor must employ one safety supervisor on each site with 20 or more workers to assist the proprietor and the safety officer in promoting the safety and health of persons employed. The Regulations do not lay down the qualification of a safety supervisor but he / she is expected to be a person experienced in the work of the construction site and should have relevant knowledge. Therefore, the Hong Kong Safety and Health Certification Scheme offers a voluntary accreditation service to the Safety Supervisor (Construction) by implementing a standardised framework for recognising their qualifications. If you are interested for apply Accredited Safety Supervisor (Construction), you can contact the Hong Kong Safety and Health Certification Scheme for details.



Scheme Leaflet

Contact Us :

The Hong Kong Safety and Health Certification Scheme

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