

Construction Industry Council
Committee on Construction Safety

Meeting No. 002/18 of the Committee on Construction Safety (Com-CSY) was held on Thursday, 5 July 2018 at 2:30pm at the Board Room, CIC Headquarters, 38/F, COS Centre, 56 Tsun Yip Street, Kwun Tong, Kowloon.

Present:	Derrick PANG	(DP)	Chairperson
	CHAN Kin-kwong	(KKN)	
	CHAN Pat-kan	(CPK)	
	CHOW Luen-kiu	(LKC)	
	LAI Chi-wah	(CWL)	
	Kenneth MO	(KM)	
	YU Sai-yen	(SYY)	
	Collin CHAN	(CnC)	Airport Authority Hong Kong (AAHK)
	LIU Yuk-shing	(YsL)	Hong Kong Institution of Engineers
	Dennis IP	(DI)	MTR Corporation Limited (MTRC)
	Jesse WONG	(JsW)	Hong Kong Institute of Surveyors (HKIS)
	WONG Kwok-keung	(KKW)	Hong Kong Federation of Electrical and Mechanical Contractors (HKFEMC)
	Rex WONG	(RWg)	Hong Kong Construction Association
	WU Wai-hung	(WHW)	Labour Department (LD)
In Attendance :	Albert CHENG	(CTN)	Executive Director
	Angela YUEN	(AaY)	Senior Manager - Construction Safety
	Tony LAM	(TLam)	Manager - Construction Safety
	Serina LAU	(SLau)	Manager - Construction Safety
	Tiger WONG	(TWg)	Assistant Manager - Construction Safety
	Tracy CHEUNG	(TCg)	Senior Officer – Construction Safety
	Henry LAM	(KYL)	Assistant Secretary for Development (Works Policies) 5

Timothy LAU (TyL) Hong Kong Housing Authority
(HKHA)

Apologies:

Thomas HUI (HT)
WONG Sze-chun (SCW)
Connie YEUNG (CYG)
Richard PANG (RPg) Director – Industry
Development

MINUTES

Action

2.1 Confirmation of the Minutes of the Com-CSY Meeting No. 001/18 held on 1 June 2018

Members took note of Meeting Minutes CIC/CSY/M/001/18 and confirmed the Meeting Minutes of the last meeting held on 1 June 2018.

2.2 Matters Arising from the Previous Meeting

There were no matters arising from the previous meeting.

2.3 Progress Report of the Safety Experience Training Centre

AaY, TLam and representative from the Consultant gave a presentation on the progress of the Safety Experience Training Centre (SETC).

There would be eight training zones in SETC, including Personal Protective Equipment, Machinery & Trapping Hazard, Fire Safety, Good Housekeeping, Chemical & Electrical Safety, Working at Height, Lifting & Rigging Plant and Virtual Reality (VR) Cave. Simulation equipment, renovation works, Augmented Reality (AR) & Interactive Games Application and Briefing Area were on schedule. Before the construction stage, Silver Card Training Course was temporary reallocated to the 2/F at Kwai Chung Campus.

After the presentation, DI appreciated the use of “A ladder” as a bad example for simulation at the “Working at Height” zone. DP said that the Subcommittee on Safety Training would liaise with the Centre for Professional Development of the Hong Kong Institute of Construction to discuss the direction of the SETC and collaboration with industry stakeholders in future.

Sub-
committee on
Safety
Training

Members took note of the progress of the SETC.

(CWLi arrived the meeting at 2:36pm)

(SYYu arrived the meeting at 2:45pm)

2.4 Research Studies – Health Profiling of Construction Workers in Hong Kong

Ms Jackie Yang, a researcher from the Hong Kong Polytechnic University gave a PowerPoint presentation on the progress of the research studies – Health Profiling of Construction Workers in Hong Kong (Phase 2).

According to the data analysis for the participated workers, more than 50% of them had a tendency of overweight (66%), problematic or inadequate health literacy (54%), pre-hypertension or hypertension (82%), and nearly half of these workers had a borderline high or high cholesterol level (43%). Besides, nearly 50% of the participated workers did not do any exercise before or after work (47%).

After deliberation, CTN suggested the Development Bureau (DEVB) to consider including exercise before work (especially Qigong “Ba Duan Jin”) in the requirement of public works contract while private companies should encourage their workers to do exercise before work. To overcome the difficulties of data collection from designated trades, the researcher should assist to draft a letter providing the objectives of this research to the Hong Kong Construction Association so as to encourage more main contractors to take part in this study in the construction sites.

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Members took note of the progress of the research studies – Health Profiling of Construction Workers in Hong Kong (Phase 2).

2.5 Application for CIC Research Fund - Innovative Fall Protection System for Work at Height Safety in High-rise Building: Transportable Horizontal Anchor- Integrated Fall Arresting System (THA-IFAS)

Mr Andy Li, Senior Officer - Construction Productivity of the CIC, briefed Members on the paper CIC/CSY/P/005/18 regarding the application for CIC Research Fund.

Ten research proposals related to construction safety had been received for the research application in 2017. The CIC Secretariat of the Task Force on Research has evaluated the proposals based on three major criteria – “Value of Project”, “Cost-effectiveness” and “Project Implementation” as stipulated in the CIC Research Policy. Task Force on Research has shortlisted two research proposals for further assessment of Com-CSY.

Dr Ivan Fung, a researcher from the City University of Hong Kong gave a presentation on the research project “THA-IFAS”.

THA-IFAS was a system that comprised of a tailor-made horizontal wiring system that allowed to work continuously in horizontal pattern. It also comprised of a body harness and a retractable fall arrester. This system was expected to provide full protection to the workers required to work at height in different construction activities, such as at the wall face, rooftop and metal scaffolding.

After the presentation, some Members were concerned about the technical feasibility of this system and if it was applicable to the new building construction instead of existing building envelopes. WHWu reminded that all kinds of fall arrest system must meet the requirement of BS Standard in HK.

After deliberation, Com-CSY Members agreed not to approve the proposed research project at this moment. However, if Members have any additional comments on this research project, they could provide them to the CIC Secretariat after the meeting. The CIC Secretariat would request the researchers to fine-tune the proposal and re-submit to Com-CSY for further consideration.

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[Post-meeting Notes: No further comment received from members after the meeting and the CIC Secretariat has provided comments received during the Com-CSY meeting to CIC Research Team to follow up with Dr Ivan FUNG of CityU.]

2.6 **Application for CIC Research Fund - Optimal Use of Internet of Things Technology to Prevent Failure of Temporary Support System in Construction**

Professor Joseph Mak and Professor Louis Lam, researchers from the Chu Hai College gave a presentation on the research study – “Optimal Use of Internet of Things Technology to Prevent Failure of Temporary Support System in Construction”.

The objective was to develop a system adopting Internet of Things (IoT) technology in monitoring the performance of temporary support structures. Site tests were carried out in the construction sites under the purview of the Hong Kong Housing Authority. Real-time updates of sensor measurements and regularly generated reports would be delivered throughout the monitoring period. At the end of the project,

it was expected a generally applicable method statement could be established and used by the construction industry to carry out proper monitoring of temporary support structures to greatly reduce the risk of failure.

After the presentation, most of the Members supported the research project as IoT was a trend in Europe even it may be a challenge task to calculate and identify the crucial points of props for placing the sensors.

After deliberation, Members agreed to clarify with the researchers if the cost of adoption is for trial or practical use before making final decision on the research project.

[Post-meeting Notes: the CIC Secretariat sent an email to Com-CSY Members on 16 July 2018 to clarify that the cost of using the proposed technology is for practical adoption on site]

2.7 **Progress of Subcommittees under Com-CSY**

AaY briefed Members on the paper CIC/CSY/P/006/18 regarding the progress of Subcommittees under Com-CSY.

AaY reported the Chairpersons and membership list of three Subcommittees under Com-CSY. DP, Com-CSY Chairperson, SYYu, CnC and RWg, Subcommittees Chairpersons, RPg and AaY, attended breakfast meeting on 30 June 2018 to have initial discussion for the direction and work plan of each Subcommittee. Each Subcommittee would arrange its first meeting in July 2018.

Chairperson of each Subcommittee expressed their views as follows:

- Subcommittee on Safety Promotion: RWg said that the Subcommittee on Safety Promotion would be focus on the prevention of serious and fatal accidents. Organisation of Construction Safety Week with the DEVB for enhancing safety promotion to industry stakeholders yearly and enhancement of the mobile app “Construction Safety App” to further promote safety messages to frontline workers were the key tasks.
- Subcommittee on Safety Training: SYYu said that the Subcommittee on Safety Training would be focus on enhancement of safety training on specific trades, such as fall from height and operation of crane operation. It was expected industry

practitioners should attend specific training by trade before starting to work so as to increase their safety awareness.

- Subcommittee on Safety Technical Issues: CnC said that the Subcommittee on Safety Technical Issues would be responsible for issuing safety alerts to industry stakeholders when serious accidents occurred and reviewing the feasibility of proposed research studies. It was expected to follow-up at least one of the concerns from the construction industry per year, such as false ceiling incidents.

It was expected at least one achievable goal for each subcommittee to be set during the meeting where possible.

Members took note of the progress of three Subcommittees under Com-CSY

[Post-meeting Notes: Meeting No. 001/18 of Subcommittee on Safety Technical Issues, Subcommittee on Safety Training and Subcommittee on Safety Promotion were held on 17 July, 24 July and 25 July 2018 respectively]

2.8 **Progress of the Formation of Task Force on Reviewing the Safety Responsibilities and Roles of Key Stakeholders**

AaY gave a verbal report on the progress of the formation of Task Force on Reviewing the Safety Responsibilities and Roles of Key Stakeholders (TF-RSS).

DP was the Chairperson of the TF-RSS. Nomination of memberships was in progress. First meeting would be arranged in July 2018.

[Post-meeting Notes: Meeting No. 001/18 of TF-RSS was held on 20 July 2018]

2.9 **Achievement Statement of 3-year Strategic Plan for Com-CSY**

AaY gave a verbal report on the achievement statement of 3-year strategic plan for Com-CSY.

CIC Secretariat proposed several achievement statements of the 3-year strategic plan for the Com-CSY for Members' discussion. CTN

explained that the CIC would organise a press conference be held in late July or August 2018 to announce the 3-year strategic plan with measurable achievement statement of each department to media.

After deliberation, majority of Members agreed to use “Continuously Improve the Professionalism, Strengthen the Safety Culture” (持續提升專業，加強安全文化). Members were welcomed to provide us with any other suggestion after the Com-CSY Meeting. DP reminded the three Subcommittees to follow this achievement statement before setting the objectives.

2.10 Any Other Business

There was no any other business in the Meeting.

2.11 Next Meeting

10 August 2018 (Friday) at 2:30 pm at the Board Room, 38/F, COS Centre, 56 Tsun Yip Street, Kwun Tong, Kowloon.

There being no further business, the meeting was adjourned at 5:35pm.

CIC Secretariat
September 2018