

Construction Industry Council
Committee on Construction Safety

Meeting No. 001/17 of the Committee on Construction Safety (Com-CSY) was held on Friday, 24 February 2017 at 3pm at Board Room, CIC Headquarters, 38/F, COS Centre, 56 Tsun Yip Street, Kwun Tong, Kowloon.

Present:	Ada FUNG	(AF)	Chairman / Chairperson of Task Force on Site Safety of Working in Lift Shaft (TF-WLS)/ Chairperson of Task Force on Safety of Lorry-mounted Cranes (TF-LMC)
	CHAN Chi-chiu	(CCC)	
	CHEUNG Tin-cheung	(TnC)	
	LAI Chi-wah	(CWLi)	
	MO Kon-fei, Kenneth	(KM)	
	YU Sai-yen	(SYYu)	
	Victor KWONG	(VK)	Chairperson of Task Force on Site Safety Incidents (TF-SSI)
	WU Wai-hung	(WHWu)	Chairperson of Task Force on Safety of Repair, Maintenance, Alterations and Additions (RMAA) sites (TF-RMA)
	Raymond CHEUNG	(WMC)	Development Bureau (DevB)
	CHENG Hok-chung	(CgHC)	Construction Site Workers General Union (CSWGU)
	NG Choi-wah	(NCW)	Hong Kong General Building Contractors Association (HKGBCA)
	Ronnie NG	(RNG)	Hong Kong Federation of Insurers (HKFI)
	WONG Kwok-keung	(KKW)	Hong Kong Federation of Electrical and Mechanical Contractors (HKFEMC)
In Attendance :	CHEUNG Hau-wai	(HWC)	Executive Director
	Alan TANG	(AnTg)	Government Seconded Manager – Research and Development
	James WONG	(JsW)	

	Nelson TONG	(NT)	Manager – Research and Development
	Damon LEUNG	(DnLg)	Manager – Training and Development (Management & Safety Training Centre)
	Angela YUEN	(AaY)	Senior Manager - Council Services
	Sally LEUNG	(SYLg)	Manager - Council Services
	Serina LAU	(SLau)	Assistant Manager - Council Services
	Henry LAM	(KYLm)	Assistant Secretary for Development (Works Policies) 5
	Raymond LAU	(RdL)	Buildings Department (BD)
	Timothy LAU	(TyL)	Hong Kong Housing Authority (HKHA)
	Winson YEUNG	(WY)	Occupational Safety and Health Council (OSHC)
Presenters:	Albert CHAN	(AtC)	The Hong Kong Polytechnic University
	WONG Man-sing	(WMS)	The Hong Kong Polytechnic University
	Alvin WONG Jerry LEE	(AWg) (JLe)	Highways Department Transport Department
Apologies:	Lawrence NG	(LN)	
	Derrick PANG	(DP)	
	WONG Nai-keung, Philco	(NKW)	
	WONG Sze-chun	(SCW)	
	CHAN Sau-kit, Allan	(SKC)	Chairperson of Task Force on Application of Innovative Design to Enhance Construction Safety (TF-IDS)
	Ir LAU Chi-kin	(CKiL)	Chairperson of Task Force on Safety of Bamboo Scaffolds (TF-SBS)
	Francis WONG	(FW)	Chairperson of Task Force on Site Housekeeping (TF-SHK)
	Joel CHAN	(CSC)	Hong Kong Institute of Architects (HKIA)

CHOW Luen-kiu	(LKC)	Hong Kong Construction Industry Employees General Union (HKCIEGU)
LIU Yuk-shing	(YsLu)	Hong Kong Institution of Engineers (HKIE)
Bonnie YAU	(BYu)	Occupational Safety and Health Council (OSHC)

PROGRESS REPORT

Action

New Members were introduced by Com-CSY Chairperson at the beginning of the meeting.

1.1 Confirmation of the Progress Report of the Com-CSY Meeting No. 004/16 held on 7 December 2016

Members took note of Progress Report CIC/CSY/R/004/16 and confirmed the Progress Report of the last meeting held on 7 December 2016.

1.2 Matters Arising from the Previous Meeting

Agenda item .4.3 Details were reported under Agenda Item 1.3 (to follow up the Application for CIC Research Fund - Health Profiling of Construction Workers in Hong Kong).

(KM arrived the meeting at 3:15pm)

(HWC arrived the meeting at 3:22pm)

1.3 Application for CIC Research Fund - Health Profiling of Construction Workers in Hong Kong (Revised Submission)

Before this agenda item, AF declared that she is a Departmental Advisory Committee Chairman of the Department of Land Surveying and Geo-Informatics of the Hong Kong Polytechnic University (PolyU) while TnC declared that he is a Departmental Advisory Committee Member of the Department of Building and Real Estate of the PolyU.

AnTg briefed Members on the paper CIC/CSY/P/001/17 regarding “Application for CIC Research Fund - Health Profiling of Construction Workers in Hong Kong (Revised Submission)”.

Representative of the PolyU presented the proposal at the Com-CSY meeting on 7 December 2016. Com-CSY Members suggested PolyU to elaborate the differentiation of the scopes of proposal with the pilot, method for assessing psychological condition of workers, study for specific trades, practicality of deliverables, etc.

AtC from the PolyU gave a presentation on the revised research proposal mainly with the following modifications and clarifications:

- (i) Data-driven health improvement intervention will be proposed to specific trades;
- (ii) A longitudinal study will be conducted to study the effect of intervention measures to workers in trade-specific manner;
- (iii) Psychological health would be conducted through an internationally recognized health status questionnaire survey; and
- (iv) Review the sample size to an acceptable level according to the research principle and trade for further study and adjust if necessary.

After deliberations, Com-CSY Members endorsed the revised research proposal in-principle at the meeting.

(JsW left the meeting at 4:05pm)

(NT arrived the meeting at 4:06pm)

(DnLg arrived meeting at 4:25pm)

1.4 **Progress Report of the Research Project “A Practical Application of Integrated Micro-Environmental Monitoring System for Construction Sites”**

WMS from the PolyU gave a presentation on the progress report of the Research Project “A Practical Application of Integrated Micro-Environmental Monitoring System for Construction Sites”.

The main objective of this research project is to deploy a low cost, extendable and automated micro-environmental monitoring system in construction sites. The user can change environmental parameters information in the Integrated micro-Environmental Monitoring System (IEMS). The data will then transfer to mobile application from the server in a real-time. The user will receive a warning system to remind workers to take safety precautions. This project is targeted to be

completed in mid year 2017.

Members took note of the progress of this research report.

(AnTg and NT left the meeting at 4:45pm)

1.5 Construction Safety Poster No. 002/17 – “Fire Prevention”

AaY briefed Members on the paper CIC/CSY/P/002/17 regarding “Construction Safety Poster No. 002/17 – ‘Fire Prevention’”.

The draft Construction Safety Poster No. 002/17 was sent out to FW, Chairperson of the Task Force on Site Housekeeping (TF-SHK) for comment on 18 May 2016.

The revised Poster was then circulated to the Members of the TF-SHK for their further review and comment on 17 August 2016 and 4 November 2016.

After received comments from the Labour Department (LD) on 7 November 2016, CIC Secretariat sent an email to the Hong Kong Fire Services Department for seeking further comments on 10 November 2016.

After deliberations, Members endorsed in principle the Construction Safety Poster No. 002/17 with some minor amendment.

1.6 Reference Materials – Site Welfare, Health and Safety Measures

AaY briefed Members on the paper CIC/CSY/P/003/17 regarding “Reference Materials – Site Welfare, Health and Safety Measures”.

To enhance and promote the importance of the working environment at construction sites to real estate developers and construction industry, the CIC has compiled Reference Materials for the provision of welfare, health and safety measures on construction sites.

With the support and input from the Development Bureau, the Hong Kong Housing Authority, the MTR Corporation Limited, main contractors and other relevant organisations, the Reference Materials was drafted.

The draft Reference Materials was sent out to the Com-CSY Members for comment on 22 November 2016 and 30 December 2016.

The revised Reference Materials was sent out to information providers for further review and comments on 24 January 2017.

After deliberations, Members endorsed in principle the Reference Materials – Site Welfare, Health and Safety Measures with some minor amendments.

[Post Meeting Note: Final version of the Reference Materials on Construction Site Welfare, Health and Safety Measures was formally published on 17 March 2017. A seminar to promote this Reference Materials was held on 17 March 2017 at Conrad Hong Kong. It was full house with around 150 people attended that they were mainly from private developers and their related main contractors.]

1.7 Progress of the Task Force on Work Safety of Repair, Maintenance, Alterations and Additions (RMAA) Sites (TF-RMA)

WHWu gave a verbal report on the “Progress of the Task Force on Work Safety of Repair, Maintenance, Alterations and Additions (RMAA) Sites (TF-RMA)”.

A working group meeting organised by the Buildings Department (BD) was held on 14 February 2017 and views in design for safety for repair and maintenance works of external facilities especially the configurations of air-conditioners platforms were shared among LD, BD and professional bodies.

The review of the Technical Guidelines on the Design, Installation & Maintenance of Cast-in Anchors at External Walls of New Buildings (Guidelines) is in progress.

LD has touched base with the Occupational Safety and Health Council on organising a new course to train competent persons to inspect and test the cast-in anchors so as to cope with the coming revision of the Guidelines.

A RMAA works safety information kit for property management companies was being prepared.

Members took note of the progress of the TF-RMA.

1.8 **Progress of the Task Force on Safety of Bamboo Scaffolds**

AaY briefed Members on the paper CIC/CSY/P/004/17 regarding the “Progress of the Task Force on Safety of Bamboo Scaffolds (TF-SBS)”.

The first Core Group Meeting of TF-SBS was held on 4 January 2017. Members discussed the definition, structure, installation method and advantages of using closely boarded bamboo scaffolding, responsibility and role of main contractors and subcontractors, and estimated increment on the scaffolders in the future.

CIC Secretariat consolidated the information provided by the Core Group Members for further discussion in the second Core Group Meeting on 7 February 2017. Members discussed the framework and main contents of the drafted Guidelines on closely boarded bamboo scaffolding.

[Post Meeting Note: CIC held a meeting with the relevant government departments and construction industry stakeholders on 14 March 2017 to discuss measures to avoid serious accidents involving working on bamboo scaffolding or other working-at-height since 8 March 2017. Safety Alert No. 001/17 – Work Safety on Bamboo Scaffolds and Press Release were published on 7 April 2017.]

1.9 **Progress of the Road Maintenance Works Safety**

AWg from the Highways Department (HyD) gave a presentation on the “Progress of the Road Maintenance Works Safety”.

HyD has implemented the following new measures to enhance road safety at its road works from November 2016:

- (i) For road works on public roads with a speed limit of 70 km per hour or above (including expressways), a shadow vehicle equipped with a truck-mounted attenuator (or temporary safety barriers with an appropriate containment level) and a longitudinal safety clearance zone (buffer zone) should be provided in front of the works area in order to reduce damage to the work site and injury to its workers if it is hit by a vehicle accidentally;
- (ii) The current requirements of providing shadow vehicles equipped with truck-mounted attenuators, flashing arrow signs, warning lanterns and signage when conducting mobile operations (such as setting up and removing lane closure, emptying a gully,

sweeping/watering, or emergency road surface repairs) on expressways was also be applied to mobile operations on public roads with a speed limit of 70 km/h or above; and

- (iii) The specification requirement of retroreflectivity on the rear of a truck-mounted attenuator on a shadow vehicle will be enhanced to provide better warning to motorists and the minimum weight of a shadow vehicle will be clearly specified to enhance the protection for workers.

“Code of Practice for the Lighting, Signing and Guarding of Road Works” (COP) would be updated as above.

After deliberations, Members suggested increase the brightness and frequency of flashing arrow signs, and analyse reasons of road works accidents. A Member also suggested the expected issuance date of revised COP should be informed Public Utilities so that they can get prepared to follow the new requirements as stipulated in the revised COP.

Members took note of the progress of the road maintenance works safety.

(KM left the meeting at 5:50pm)

1.10 **Experience Sharing for the Benchmarking Visit to Beijing**

VK gave a presentation on experience sharing for Safety Experience and Training Centre in Beijing.

The experience and training facilities were installed in the containers, which were more flexible for combination, easier for installation and could be used repeatedly. All facilities were come from Korea and further modification for use.

[Post Meeting Note: A video of introduction on Safety Experience and Training Centre in Beijing was shared with Members by email on 27 February 2017.]

(KKW left the meeting at 6:15pm)

1.11 **AOB**

- (i) **CIC Construction Innovation Award 2017**

AF reported that Construction Safety was one of the scopes of entry of CIC Construction Innovation Award 2017. Members were encouraged to join.

[**Post Meeting Note:** A flyer was shared with Members by email on 27 February 2017.]

(ii) Fatalities of Construction Industry in Recent Months

WHWu informed members that they would issue “Work Safety Alert” to alert employers/contractors and employees whenever there is fatal accident to prevent occurrences of serious or fatal work injuries and remind them to take relevant measures to prevent recurrence.

(iii) CIC Secretariat Jobs Update

AaY reported recent CIC Secretariat jobs as follows:

- CIC Seminars on Work-above-ground Safety were held on 6 December 2016 and 13 Feb 2017 with around 560 participants attending the four sessions;
- CIC Seminar on Guidelines on Safety of Lift Shaft Works (Volume 4) – Builders' Lift within Lift Shaft was held on 11 Jan 2017 with around 420 participants attended; and
- Construction Safety Poster No. P-CSY-001-17 - “Lifting Safety” was published on 27 January 2017.

(iv) Building Safety Week

Buildings Department organised a Building Safety Symposium 2017 on 24 March 2017. Members were encouraged to join.

1.12 Next Meeting

1 June 2017 (Thursday) at 2:30 pm at Board Room, 38/F, COS Centre, 56 Tsun Yip Street, Kwun Tong, Kowloon.

There being no further business, the meeting adjourned at 6:35pm.

CIC Secretariat
May 2017