

Half Day Seminar

Organized by

The Hong Kong Institute of Steel Construction

Sponsored by

*Department of Civil and Environmental Engineering, The Hong Kong Polytechnic University
Fire Division, The Hong Kong Institution of Engineers*

***Buckling and Stability to Steel, Concrete and Composite
Structures to the Code of Practice***

by

Ir Dr. Alfred FONG and Ir Dr. Don HO

Abstract

This seminar presents 1) basic background theories on buckling and stability; 2) design consideration for local and member buckling of individual structure elements, and the overall stability and global buckling of buildings and structures; 3) implementation of basic stability principles through uses of codes of practice for steel, concrete and composite structures in Hong Kong ; 4) buckling and stability to structures under fire limit state; 5) approaches of advanced analysis for complicated structures; and 6) the selection of pre-accepted computer software by the Buildings Department for buckling and stability analysis.

About the speaker

Ir Dr. Alfred FONG is a Registered Structural Engineer, Fellow member of HKISC and serving the Honorary Secretary in HKIE Fire Division. He is experienced in design of long span steel structures, high-rise buildings, residential and commercial development and advanced analysis. He has authored and co-authored several journal papers in addition to conference papers on second-order direct analysis method for steel and concrete-steel composite structures. He possesses ample experience in developing software that can apply direct analysis method in steel and composite structures.

Ir Dr. Don HO is a registered professional engineer in structural discipline, and is a pioneer and expert in earthquake engineering, structure dynamics, and advanced concrete and steel structures. After receiving his PhD degree in HKUST, he served Arup for more than 10 years, and he is now focusing on the development of public housing for the city. His signature projects include the first seismic code of Hong Kong, PNB 118 the world second tallest building, the first tuned mass damper approved by the Buildings Department, and the first pre-accepted software GSA for pattern load analysis of grillage systems. His works have received the HKIE Structural Excellence Award, the CTBUH 10 Years Award, the HKIE Transactions Prize, the ICE Best Paper Award, the NCREE IDEERS First Prize, and the Sir Edward Youde Memorial Fellowships.

Date: 24th February 2023 (Friday)
Time: 1:45 pm for 2:00 pm – 5:00 pm
Venue: Room V302, The Hong Kong Polytechnic University, Hung Hom, Kowloon.
CPD: This seminar is recommended for 3 CPD hours
Certificate: An attendance certificate will be issued upon request.

REGISTRATION FORM

(To be replied on or before 22 February 2023)

Please follow the 2 steps registration procedure:

1. Fax or email the completed registration form to Mr. Sam Chan (Email: samchan@hkisc.org) for preliminary registration.
2. Post the completed registration form together with a crossed cheque payable to **Hong Kong Institute of Steel Construction Limited** to Mr. Sam Chan, at:
HKISC c/o Unit 209B, Photonics Centre, No. 2 Science Park East Avenue, Hong Kong Science Park, Shatin, NT.

Registration fee can also be paid by ATM or bank in to HKISC bank account at Hang Seng Bank. Our **Hang Seng Bank** account number is **222-049918-001** and account name is "Hong Kong Institute of Steel Construction Limited". Please email the ATM transfer advice or deposit form to samchan@hkisc.org for record after transferred.

Places are limited. Please send the completed registration form to **Mr. Sam Chan, Secretary of the Institute of Steel Construction, c/o Unit 209B, Photonics Centre, No. 2 Science Park East Avenue, Hong Kong Science Park, Shatin, NT.** by **12:00 noon, 22 February 2023**. or through email: samchan@hkisc.org. For more technical information, please contact Miss Cat Lam at 3595 6150 or man@hkisc.org.

A. Personal Details:

Title	Name in full (Block Letter)	Name of company	Tel.	E-mail address	Institution/ Membership No.
1.					
2.					
3.					
4.					
5.					
Postal Address (for official receipt):					

B. Registration Details:

Item	Registration Fee	Total no. of registration	Sub-total
1. Regular registration (Member*price)	HK\$ 600 each x	_____ person(s)	= HK\$ _____
2. Regular registration (Non-member*price)	HK\$ 700 each x	_____ person(s)	= HK\$ _____
3. Group registration (at least <u>5</u> people)	HK\$ 600 each x	_____ person(s)	= HK\$ _____
4. HKISC YMG registration	HK\$ 200 each x	_____ person(s)	= HK\$ _____
Total amount:			HK\$

Note: The registration fee includes e-copy of lecture notes and CPD certificate

*Member refers to HKIE or HKISC member

I enclosed a crossed cheque (cheque no. _____) with the sum of HK\$ _____ for the registration fee of the captioned Seminar.

Signature: _____ Date: _____

CPD Certificates of Attendance Please tick the appropriate box to indicate your choice:

Yes, I/ we would like to have CPD certificate(s). Not requested for certificate(s).

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