

Half Day Seminar

Organized by
The Hong Kong Institute of Steel Construction
Supported by
Department of Civil and Environmental Engineering, The Hong Kong Polytechnic University

Latest Development on Buckling and Stability to Concrete and Steel Structures to the Codes of Practice

by

Ir Dr. Alfred FONG, Ir Dr. Don HO and Ir Prof. Siwei LIU

Date:	20th June 2025 (Friday)
Time:	1:45 pm for 2:00 pm – 5:00 pm
Venue:	Room Z503 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.

Abstract

This seminar covers the following topics:

- 1) Theories on buckling and stability;
- 2) Considerations on buckling for structure elements and global buildings and structures;
- 3) Implementation of stability principles through the uses of codes of practice;
- 4) Analysis and design of buckling and stability for 3D printed structures in Hong Kong;
- 5) Advanced analysis approaches for complex buildings and structures; and
- 6) Selection of pre-accepted computer software by the Buildings Department for buckling and stability analysis.

About the speakers

Ir Dr. Alfred FONG is a Registered Structural Engineer and a Fellow member of HKISC. He was also a visiting lecturer at The Hong Kong Polytechnic University. He is experienced in design of long span steel structures, high-rise buildings, residential and commercial development and advanced analysis. He was also involved in drafting the seismic code for steel structures. He has authored and co-authored several journal papers and conference papers on advanced analysis method for steel and concrete-steel composite structures. Furthermore, he possesses ample experience in developing software that applies advanced analysis method in steel and composite structures.

1st announcement

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.

Ir Prof. Siwei LIU specializes in steel structures, second-order direct analysis, high-rise buildings, and computational structural mechanics. His research aims to address the design challenges of modern building structures. His work contributes to the National Design Specifications, such as the American Steel Code ANSI/AISC 360-22. He has co-developed several structural analysis and design software, including MSASect2, RCD2016, NIDA10 and Mastan2-v5. Ir Prof. LIU received a Grand Award in Research in 2020 from HKIE, a Commendation Award in Research in 2018 from HKIE, and another Grand Award in Research in 2016 from the joint structural division of HKIE and IStructE.

1st announcement

REGISTRATION FORM
(To be replied on or before 13 June 2025)

Please follow the 2 steps registration procedure:

1. Email the completed registration form to Mr. Sam Chan (Email: samchan@hkisc.org) & cc to Cat Lam (Email: man@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., Hong Kong.

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 & c.c : man@hkisc.org for record after transferred.

Seats are limited and will be provided on a first-come-first-served basis. 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, 13 June 2025**. or through email: samchan@hkisc.org and c.c.: man@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 5 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).

The Hong Kong Institution of Steel Construction Limited HKISC is a non-profit making organization certified by qualified accountant yearly and it serves to disseminate latest technology in construction.