

Half Day Seminar on Design and Construction of Modular Buildings

Organized by
Young Members Group, Hong Kong Institute of Steel Construction

Supported by
Department of Civil and Environmental Engineering, The Hong Kong Polytechnic University

Date: 16 December 2024, Monday
Time: 1:50 pm (registration) for 2:00 pm to 5:00 pm
Venue: PQ303, The Hong Kong Polytechnic University for face-to-face mode

Scope and Objectives

Due to shortage of workforce and limited land use, many cities like Hong Kong are heading in the direction of improving construction efficiency by adopting more efficient construction method such as MiC. This seminar provides essential information of modular design and construction from planning to construction phase. Key concepts relevant to smart modular planning, structural design, and offsite manufacturing are introduced and illustrated by case studies.

The Speakers

Dr. Daniel Looi is an Associate Professor and a structural engineer with working experience in Malaysia and Hong Kong. He has a bachelor's degree in Civil Engineering from the University of Malaya and a PhD in Structural Engineering from the University of Hong Kong. He is researching seismic engineering, concrete mechanics, modular buildings, and fastening technologies. He has researched in MiC and post-installed rebars (PIR), led and co-authored two books on post-installed rebars and some 30 indexed papers.

Ir Dr. 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. Dr. 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.

Ir Franky Lo is a structural engineer with extensive experience leading design team to undertake different building projects with focus on those with MiC including Hostel and Quarter Development at High West Site of HKU, Transitional Housing at Tsat Sing Kong, HKHS Residential Development at Anderson Road Site R2-2, ASD WSD HQ at Chai Wan, and In-Principle Acceptance submission of both steel and concrete MiC. He is current a Technical Director with Goldwave Steel and assists in developing the MiC market.

Official Language

English will be the official language of the seminar for both oral and written presentation.

Fee & Registration

The registration includes half-day CPD certificate, please follow the registration procedure below.

YMG HKISC Member	HKISC member:	Group of 5+:	Non-member:
HK\$ 250	HK\$ 700	HK\$ 800	HK\$ 900

CPD Certificates

This seminar is recommended for **HALF** CPD day. An attendance certificate will be issued.

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Time	Programme
1:55 pm	Registration
2:05 pm	<p>Smart Modular Planning for MiC & Component-based macro mechanical model for inter-module connections in MiC</p> <p>Dr. Daniel Looi <i>Associate Professor, Sunway University</i></p>
3:05 pm	Break
3:15 pm	<p>Second-order direct analysis method for the design of steel MiC structures</p> <p>Ir Dr. Siwei Liu <i>Assistant Professor, The Hong Kong Polytechnic University</i></p>
4:05 pm	<p>MiC Design and Construction of Temporary Housing</p> <p>Ir Franky Lo <i>Technical Director, Goldwave Steel Structure Engineering Limited</i></p>
4:55 pm	Q&A
5:00 pm	End of Seminar

REGISTRATION FORM

(To be replied on or before 9th December 2024)

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, Secretary of the Institute of Steel Construction at:

HKISC c/o Unit 209B, Photonics Centre, No. 2 Science Park East Avenue, Hong Kong Science Park, Shatin, N.T., 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.

- Places with limited seats and will be provided as first-come-first-served basis.
- An attendance certificate will be issued upon request.

A. Personal Details:

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

B. Registration Details:

Item	Registration Fee	Total no. of registration	Sub-total
1. Regular registration (YMG HKISC Member*price)	HK\$ 250 each x	_____ person(s)	= HK\$ _____
2. Regular registration (Member**price)	HK\$ 700 each x	_____ person(s)	= HK\$ _____
3. Regular registration (Non-member**price)	HK\$ 900 each x	_____ person(s)	= HK\$ _____
4. Group registration (at least 5 people)	HK\$ 800 each x	_____ person(s)	= HK\$ _____
Total amount:			HK\$

*Note: *Young Members Group of HKISC member **Member refers to HKIE or HKISC member*

Postal and email addresses (for official receipt): _____

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

Signature: _____ Date: _____

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

- Yes, I/ we would like to have e-CPD certificate(s). No request 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