

## Half Day Seminar on

# Essentials in Steel Structure – From Design to Construction

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

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

Date: 7 October 2021, Thursday  
Time: 1:55 pm (registration) for 2:10 pm to 5:00 pm  
Venue: TU101, The Hong Kong Polytechnic University for face-to-face mode or on-line mode

### Scope and Objectives

In recent years, steel occupies a more important position in construction industry when compared with other construction materials, especially for those landmark buildings and structures. Steel is preferably selected as the principal material for long-span roofs, space frames and high-rise buildings etc.

This half-day seminar aims to provide engineers an insight to the use and the design of steel in construction. The seminar will cover the general design principal in steel structures, analysis methods according to the Code of Practice for the Structural Use of Steel 2011, application of steel structures in offshore renewable energy infrastructure, and the advanced construction technology for construction and installation of long span steel footbridge.

### The Speakers

**Mr. Chris Tidball** is an Associate Director with Arup with over 20 years of international consulting experience. He has been working in Arup since his postgraduate study in Cambridge University in 1999 and transferred from the UK to Hong Kong in 2011. He worked on the design of steel structures at eight airports including Abu Dhabi International Airport Midfield Concourse, Hong Kong International Airport and Doha Hamad International Airport, also on steel frames for heavy industrial facilities such as Black Point Power Station, Hong Kong Sludge Treatment Facility and NEG Glass Factory, blast resistant structures for Royal Ordnance at Glascoed and Bridgewater, and forensic analysis for structural failures at Cardiff WwTW and Pirbright Institute for Animal Health. After a surfeit of steel Chris dabbles in precast concrete design for light relief.

**Dr. Jerry Iu** began his academic career from 2004 after the completion of his PhD research degree at Hong Kong Polytechnic University. From 2004 to 2006, he was a Postdoctoral Fellow at the Shenzhen Graduate School of Harbin Institute of Technology in China. During the Postdoctoral Fellow in China, he was also a Part-time Visiting Lecturer at the Hong Kong Polytechnic University for the first semester in 2005. In 2007, he was a Visiting Postdoctoral Fellow at the University of Hawaii at Manoa in United State. Afterwards, he was a Research Associate at the University of New South Wales in Australia from 2008 to 2010. He held a teaching and research position at Queensland University of Technology in Australia from 2013 to 2016. By then, he has undertaken the research in computational design approach of general civil engineering structure at the Hong Kong Polytechnic University.

**Dr. Yuner Huang** is a Chartered Engineer and Lecturer at University of Edinburgh. She obtained her PhD from The University of Hong Kong in 2013, with research interest on structural behaviour and design of steel members. She has published 32 journal papers, and led research projects of over HK\$ 2.5 million as Principal Investigator, including three projects on steel applications for offshore renewable energy. She serves as external reviewer for Hong Kong Research Grants Council (RGC) since 2016, editorial board for Journal of Constructional Steel Research and Frontiers in Built Environment, and organizing committee of Marine 2021 International conference.

**Ir. Richard Lee** graduated in The Hong Kong Polytechnic in 1981. He is a Fellow member of HKIE in structural engineering discipline. He is currently the General Manager of Yau Lee Construction Co., Ltd. and he is serving as a Council Member of Hong Kong Construction Association. He has been actively involving in the development of prefabrication construction technology in particular for the design of formwork systems, construction planning and design of precast components for building construction. He was the Authorized Signatory for the construction of the footbridge connecting Hoi Ying Estate and Hoi Tat Estate.

#### **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.

<b>YMG HKISC Member</b>	<b>HKIE or HKISC member:</b>	<b>Group of 5+:</b>	<b>Non-member:</b>
HK\$ 250	HK\$ 700	HK\$ 800	HK\$ 900

#### **CPD Certificates**

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

**Half Day Seminar on**

**Essentials in Steel Structure – From Design to Construction**

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

Supported by  
 Department of Civil and Environmental Engineering, The Hong Kong Polytechnic University  
 Structural Division, The Hong Kong Institution of Engineers (TBC)

Date: 7 October 2021, Thursday  
 Time: 1:55 pm (registration) for 2:10 pm to 5:00 pm  
 Venue: TU101, The Hong Kong Polytechnic University for face-to-face mode or on-line mode

Time	Programme
1:55 pm	Registration
2:10 pm	<b>Scheme Design for Steel Structure</b> Mr. Chris Tidball <i>Associate Director, Ove Arup &amp; Partners HK Limited</i>
2:50 pm	<b>Effective Length, Second-Order Indirect and Direct Analysis Methods of Design of Steel Structures to CoP for the Structural Use of Steel 2011</b> Dr. Jerry Iu <i>Research Fellow, Hong Kong Polytechnic University</i>
3:30 pm	Break
3:35 pm	<b>Application of Advanced Steel Materials in Offshore Renewable Energy Infrastructure</b> Dr. Yun'er Huang <i>Lecturer, University of Edinburgh</i>
4:15 pm	<b>Advanced Construction Technology to Connect Footbridge in One Evening (Footbridge Connecting Hoi Ying Estate and Hoi Tat Estate)</b> Ir. Richard Lee <i>General Manager, Yau Lee Construction Co., Ltd</i>
4:55 pm	Q&A
5:00 pm	End of Seminar

## REGISTRATION FORM

(To be replied on or before 4<sup>th</sup> October 2021)

Please follow the 3 steps registration procedure:

1. Fax or email the completed registration form to Mr. Sam Chan (Email: [samchan@hkisc.org](mailto:samchan@hkisc.org), Fax: 852-2334 6389) for preliminary registration.
2. Indicate your preferred mode of attendance as physical (face-to-face) or online. Maximum 50 seats are available for physical or face-to-face attendances which are provided on a first-come-first-served basis.
3. 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 Room ZS972, Department of Civil and Environmental Engineering,  
The Hong Kong Polytechnic University, Hung Hom, Kowloon, 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](mailto:samchan@hkisc.org) for record after transferred.

- Face-to-face mode is offered with limited seats and will be provided as first-come-first-served basis. Organiser reserves right to change all attendants to "on-line mode only" in event of health or other contingency requirements.
- Link for On-line mode will be sent to applicants before seminar date upon successful registrations.
- CPD certificates will be delivered with indication on mode of attendance and other information related to the course.

### 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 <u>5</u> people)	HK\$ 800 each x	_____ person(s)	= HK\$ _____
<b>Total amount:</b>			<b>HK\$</b>

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

Postal and email addresses (for official receipt): \_\_\_\_\_

I prefer  Face-to-face mode /  Online Mode. (please tick one box)

If face-to-face attendance mode unavailable, I will  / will not take  Online mode (please tick one box)

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

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

Signature: \_\_\_\_\_ Date: \_\_\_\_\_