



One-day seminar

Design of Steel-Concrete Composite Structures to Eurocode 4

Organized by

The Hong Kong Institute of Steel Construction

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

Sponsored by

Structural Divisions, The Hong Kong Institution of Engineers

Date:	<i>13 December 2019 (Friday) POSTPONED</i>
Venue:	Room no. to be confirmed, The Hong Kong Polytechnic University, Hung Hom
Time:	8:45 am (registration) for 9:00 am to 5:00 pm

Scope and Objectives

Eurocode 4 is the new standard for design of composite structures. It covers many forms of composite structural design and provides the most comprehensive and up to date set of design guidance currently available. It is a robust and rigorous design code and but takes a less prescriptive approach to design. As such it offers flexibility and opportunity in design but will require clear understanding and careful application.

This one-day seminar considers the key changes that Eurocode 4 brings, illustrating the design challenges through presentation, discussion and work examples, and offers expert advice and opinion on the practical application of the new European design codes. This seminar concentrates on the design procedures for composite beams and slabs as used in modern building construction. It also covers shear connections, column design and the interaction between Eurocode 4 and other Eurocode parts. Cross references will be made to the other Eurocode parts necessary to develop design solutions, for example; Eurocode 2 (concrete) and 3 (steel).

This seminar is tailor-made for experienced Civil and Structural Engineers who design or supervise the design of Composite steel and concrete structures. If you are an experienced designer, competent with design to current British Standards and looking for transition training covering the key changes between the British Standards and Eurocodes, then the 1 day seminar will meet your requirements. For each of the principal aspects covered, the course provides background to the structural behaviour, explanation of the codified treatment including departure from existing practice (BS 5950 and BS5400), illustrating with worked examples where appropriate.

At the end of the course delegates should have:

- The ability to undertake the design of basic steel concrete composite structures to Eurocode 4;
- The ability to navigate effectively around Eurocode 4 and other Eurocode parts necessary for the design of composite structures;
- Knowledge of the challenges and opportunities that Eurocode 4 brings to composite structural design;
- Knowledge of the Eurocode suite and how the code parts interact.

Speaker

Professor Dennis Lam is the Chair of Structural Engineering in the School of Engineering and Director of Bradford Centre for Sustainable Environments at the University of Bradford, UK. He is a Chartered Engineer, Fellow of the Institution of Structural Engineers and Member of the Institution of Civil Engineers. Before joining the academia, he had spent more than ten years in engineering practices. He is currently a Visiting Professor at Tsinghua University and Hong Kong Polytechnic University. He is the European Editor-in-Chief for Steel & Composite Structures and serves on the editorial boards for six other international journals in structural engineering. He chairs the Working Group of the European Standard Committee, CEN/T250/SC4 responsible for the revision of the Eurocode 4.

Official Language

English will be the official language.

Fees & Registration

The registration fee includes a copy of lecture note

Regular Registration: **HK\$ 900** each for HKISC/ HKIE Members; **HK\$ 1,200** each for non HKISC/ HKIE Members.

Group Registration: **HK\$ 900** each for group registration of at least **5** people

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

Please send the completed registration form to **Mr. Sam CHAN**, The Hong Kong Institute of Steel Construction, Department of Civil and Environmental Engineering, *The Hong Kong Polytechnic University, Hung Hom, Kowloon* by **10th December 2019** (Fax No.: 852-2334 6389 / Email: samchan@hkisc.org). You can download this form on HKISC web (<http://www.hkisc.org>). For technical information, please contact Professor S.L. Chan at **2766 6047**



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REGISTRATION FORM

(To be replied on or before 10th December 2019)

Please follow the 2 steps registration procedure:

1. Fax (2334 6389) or email (samchan@hkisc.org) the completed registration form to Mr. Sam Chan for preliminary registration.
2. Post the completed registration form together with a crossed cheque payable to **Hong Kong Institute of Steel Construction Limited**, Mr. Sam Chan, HKISC, c/o ZN912, Department of Civil and Environmental Engineering, The Hong Kong Polytechnic University, Hunghom, Kowloon, Hong Kong.

on or before 10th December 2019.

To: Mr. Sam Chan, HKISC

Fax: 852- 2334 6389

A. Personal Details:

Title	Name in full (Block Letter)	Name of Company	Tel.	E-mail address
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\$ 900 each x	_____ person(s)	= HK\$ _____
2. Regular registration (Non-member*price)	HK\$ 1,200 each x	_____ person(s)	= HK\$ _____
3. Group registration (at least <u>5</u> people)	HK\$ 900 each x	_____ person(s)	= HK\$ _____
Total amount:			HK\$

Note: The registration fee includes a copy of proceedings, a copy of CPD certificate and tea refreshment

**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 request for certificate(s).