



香港理工大學, 土木及環境工程學系  
THE HONG KONG POLYTECHNIC UNIVERSITY  
Department of Civil and Environmental Engineering



## SECOND ANNOUNCEMENT

### *One-day seminar on Design of Composite Structures to Eurocode 4 – The Essentials*

*Organized by*

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

*Supported by*

Joint Structural Division, The Hong Kong Institution of Engineers

*Sponsored by*

K.Y.H. Steel Company Limited

<b>Date:</b>	18 <sup>th</sup> December 2015
<b>Venue:</b>	Room N002, The Hong Kong Polytechnic University, Hunghom, Kowloon
<b>Time:</b>	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 BS codes and Eurocodes, then the 1 day Essentials 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
- Knowledge of the Eurocode suite and their impact on UK design practice

Please send the completed registration form with registration fee to **Ms. Carol Deng**, The Hong Kong Institute of Steel Construction, HKISC c/o ZS972, Department of Civil and Environmental Engineering, The Hong Kong Polytechnic University, Hung Hom, Kowloon by **16th December 2015** (Email: [carol.deng@hkisc.org](mailto:carol.deng@hkisc.org), Fax No.: 852-2334 6389). You can download this form on HKISC web (<http://www.hkisc.org>). For further information, please contact **Ms. Carol Deng** above.

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**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\$ 1,200** each for HKISC/ HKIE Members; **HK\$ 1,500** each for non HKISC/ HKIE Members.

Group Registration: **HK\$ 1,200** 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.

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<b>Time</b>	<b>Program</b>
8:45 am	<i>Registration</i>
9:00 am	<i>Introduction and setting of seminar objectives</i> <ul style="list-style-type: none"><li>• <b>Evolution of Eurocodes and summary of current suite</b></li></ul> <i>Introduction to design of Composite Structures to Eurocode 4</i> <ul style="list-style-type: none"><li>• <b>Overview of Composite design coverage of Eurocode 4</b></li><li>• <b>National Annexes, NCCI and Published Documents</b></li></ul> <i>Design Interaction with Eurocode 2 (concrete) and Eurocode 3 (steel)</i> <i>Design of Shear connections</i>
12:00 noon	<i>Lunch Break</i>
2:00 pm	<i>Design of Composite Slabs</i> <i>Design of Composite Beams</i> <i>Design of Composite Columns</i> <i>Seminar summary and close</i>
5:00 pm	<b>End of Seminar</b>



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### REGISTRATION FORM

*(To be replied on or before 16 December 2015)*

Please follow the 2 steps registration procedure:

1. Fax the completed registration form to Ms. Carol Deng, HKISC (Fax: 852-2334 6389) for preliminary registration.
2. Post the completed registration form together with a crossed cheque payable to **Hong Kong Institute of Steel Construction Limited** to Ms. Carol Deng, The Hong Kong Institute of Steel Construction or HKISC, c/o Room ZS972, Department of Civil and Environmental Engineering, The Hong Kong Polytechnic University, Hunghom, Kowloon, Hong Kong.

on or before 16th December 2015.

**To: Ms. Carols Deng, HKISC**

**Fax: 852- 2334 6389**

#### A. Personal Details:

Title	Name in full (Block Letter)	Name of Company	Tel. (or Fax)	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\$ 1,200 each x	_____ person(s)	= HK\$ _____
2. Regular registration (Non-member*price)	HK\$ 1,500 each x	_____ person(s)	= HK\$ _____
3. Group registration (at least <u>5</u> people)	HK\$ 1,200 each x	_____ person(s)	= HK\$ _____
<b>Total amount:</b>			<b>HK\$ _____</b>

*Note: The registration fee includes a copy of proceedings, a copy of CPD certificate and 2 tea refreshments.*

*\*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).