Scope and Objectives

Steel hollow sections, circular, square, rectangular and even oval, are some of the most efficient structural sections under compression loading. The use of steel hollows in building construction has become more popular owing to the architecturally aesthetic appearance and the structural efficiency. Further, these steel hollows are in-filled with concrete to increase the structural capacity. It is this great enhancement in structural capacity of concrete in-filled hollows that the member sizes can significantly be reduced, rendering attractive visual and spacious impact on the building layout.

The one-day seminar will be scheduled on 16 December 2011. It will focus on the design and construction of steel hollows, and in particular, the composite concrete-infilled steel hollow column construction. The seminar materials will be based on Hong Kong Code of Practice for Structural Use of Steel 2011. Speakers will comprise local and overseas experts in the field. Engineers and designers in private sector and government who are working in building and construction industry are most suitable to attend the seminar as the steel hollow construction would lead to economical and efficient design solutions. Lecture notes will be provided.

Official Language

English will be the official language.

CPD certificate will be given to each participant. The registration fees of the seminar are given as follows: -

<table>
<thead>
<tr>
<th>Programme</th>
<th>HKISC, HKIE members and government officers</th>
<th>Others</th>
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</thead>
<tbody>
<tr>
<td>1-day Seminar</td>
<td>$ 800</td>
<td>$ 1000</td>
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Should you have further query, please do not hesitate to contact Mr. Sam CHAN at samchan@hkisc.org
ONE-DAY SEMINAR
USE OF STEEL HOLLOWS IN DESIGN AND CONSTRUCTION OF BUILDINGS

REGISTRATION FORM
(To be replied on or before 12 December 2011)

Please follow the 2-step registration procedure:
1. Fax the completed registration form to Mr Sam CHAN (Fax: 852-2334 6389) for preliminary registration.
2. Post the completed registration form within 7 days together with a crossed cheque payable to Hong Kong Institute of Steel Construction Limited to Mr Sam CHAN, at:

Room TU743, Department of Civil and Structural Engineering,
The Hong Kong Polytechnic University, Hunghom, Kowloon, Hong Kong, China.

on or before the deadline.

To: Mr Sam CHAN
Fax: 852-2334 6389

Personal Details:

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<tr>
<th>Title</th>
<th>Name in full (Block Letter)</th>
<th>Name of Company</th>
<th>Tel.</th>
<th>Fax</th>
<th>E-mail address</th>
<th>Institution/Membership No.</th>
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<tr>
<th>Item</th>
<th>Registration Fee (please insert the number of attendants for attendance)</th>
<th>Total no. of registration</th>
<th>Sub-total</th>
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<tbody>
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<td>1.</td>
<td>Regular registration (Members and government officers’ price)</td>
<td>_____ person(s)</td>
<td>= HK$</td>
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<tr>
<td>2.</td>
<td>Regular registration (Non-members’ price)</td>
<td>_____ person(s)</td>
<td>= HK$</td>
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</table>

Total amount: HK$

Postal Address
(for official receipt):

I enclose a crossed cheque (no._______) with a sum of HK$_______ for the registration fee of the captioned Technical Visit.

Signature: ___________________________ Date: ___________________________

CPD Certificate 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).
### ONE-DAY SEMINAR

**USE OF STEEL HOLLOWS IN DESIGN AND CONSTRUCTION OF BUILDINGS**

#### Seminar programme on 16.12.2011

<table>
<thead>
<tr>
<th>Time</th>
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<tr>
<td>8:30-9:00am</td>
<td>Registration</td>
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</table>
| 9:00-9:15am     | **Welcome Speech**  
*Ir Prof. Paul Pang – Honorary Fellow of HKISC* |
| 9:15-9:45am     | **Introduction and New Features of HK Steel Code 2011**  
*Ir Dr W T Chan* |
| 9:45-10:15am    | **Introduction and Basics of Eurocode 3 (EN 1993) – new developments**  
*Dr S Herion* |
| 10:15-10:30am   | **Tea break**                                                            |
| 10:45-11:15am   | **Production of hot-rolled seamless hollow sections including new sections with small corner radii**  
*Dr Marcel Schneidert* |
| 11:15-11:45am   | **Production and quality assurance of cold-formed hollow sections**  
*Ir Dr W T Chan* |
| 11:45am-12:30pm | **Design of concrete-infilled hollow sections as columns and design of steel hollows as beams**  
*Ir Prof S L Chan* |
| 12:30-2:00pm    | **Lunch Break**                                                          |
| 2:00-2:30pm     | **Application of concrete-infilled hollow sections and steel hollows in Hong Kong**  
*Ir Prof S L Chan* |
| 2:30-3:00pm     | **Design of welds for joints made of CHS and RHS according Eurocode 3 (EN 1993-1-8 ) and other codes**  
*Dr S Herion* |
| 3:00-3:30pm     | **Presentation of the new V&M Design Tools including design tables and design software**  
*Dr M. Schneider and Dr S. Herion* |
| 3:30-3:45pm     | **Tea break** and Collection of CPD certificates                          |
| 3:45-4:30pm     | **Steps of optimization of a uniplanar girder made of RHS**  
*Dr S. Herion* |
| 4:30-5:15pm     | **New applications of CHS in long span structures**  
*Dr S. Herion* |
| 5:15-5:45pm     | **Q&A forum**                                                            |
| 5:45-6:00pm     | **Concluding remarks**                                                   |