Recent Advances in Steel and Composite Structures 2014
Organised by
The Hong Kong Institute of Steel Construction www.hkisc.org
Sponsored by
Joint Structural Division, The Hong Kong Institution of Engineers
The Association of Registered Engineering Consultants
Department of Civil and Environmental Engineering, The Hong Kong Polytechnic University

Date: 1 December 2014, Monday
Venue: N003, The Hong Kong Polytechnic University,
       Hunghom, Kowloon, Hong Kong.
Time: 8:45 am (registration) for 9:00 am to 5:15 pm

Scope and Objectives
This is a seminar for efficient exchange of ideas among leading researchers in the field of steel, steel-concrete composite and metal structures and construction. Labour shortage has been an acute problem in many cities and higher productivity is demanded to meet the escalating needs of housing and diminishing supply of manpower in construction. During the past decade, there has been much progress and development in research and engineering of steel and composite structures. This seminar allows leading experts in the field to brief the audiences on research conducted at their affiliated universities and on the latest and advanced technologies that could be considered for adoption in construction projects in Hong Kong and the region. 14 speakers from 6 regions will present their works. Further information could be made available to the audiences by possible follow-up contacts with the speakers for the objective of technology transfer from research to practice.

Speakers
F Albermani, University of Queensland       HH Lau, Curtain University
M. Bradford, University of New South Wales   G.Q. Li, Tongji University
D. Camotim, Instituto Superior Técnico        K Rasmussen, Sydney University
S.L. Chan, Hong Kong Polytechnic University   KH Tan, Nanyang Technical University
WM Quach, Macau University                   B Uy, University of New South Wales
R. Liew, National University of Singapore     Bill Wong, Monash University
D Lam, Bradford University                   XL Zhao, Monash University

Official Language
English will be the official language of the Seminar for both oral and written presentation. The programme is subjected to small changes at the discretion of the organising committee.

Fees & Registration
The registration fee includes a copy of proceedings, a copy of CPD certificate, 2 tea refreshments.
Regular Registration: HK$ 900 each for HKISC/ HKIE Members; HK$ 1200 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 with registration fee to Mr. Sam Chan, HKISC c/o ZS972, Department of Civil and Environmental Engineering, The Hong Kong Polytechnic University, Hung Hom, Kowloon by 1 November 2014 (Tel: 852-3400 3965, Fax No.: 852-2334 6389). You can download this form on HKISC web (http://www.hkisc.org) or request through emailing to: samchan@hkisc.org. For further information, please contact Mr. Sam Chan above.
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REGISTRATION FORM
(To be replied on or before 1 November 2014)

Please follow the 2 steps 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 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, Hunghom, Kowloon, Hong Kong

To: Mr. Sam Chan
Fax: 852-2334 6389

A. Personal Details:

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

Postal Address (for official receipt):

B. Registration Details:

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<th>Registration Fee</th>
<th>Total no. of registration</th>
<th>Sub-total</th>
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<td>_____ person(s)</td>
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<tr>
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<td>_____ person(s)</td>
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<tr>
<td>3. Group registration (at least 5 people)</td>
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Total amount: HK$

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

*Member refers to 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).
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<table>
<thead>
<tr>
<th>Time</th>
<th>Program (Tentative)</th>
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<tbody>
<tr>
<td>8:45 am</td>
<td>Registration</td>
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<tr>
<td>9:00 am</td>
<td>Welcoming Speech</td>
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</tbody>
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| **Lecture 1** 9:20 am | F Albermani, University of Queensland  
Textured cylindrical shell structures                           |
| **Lecture 2** 9:45 am | D. Camotim, B. Young, P/ Dinis and A Martins, Instituto Superior Técnico, U Lisbon  
Latest developments on the behavior, strength and design of cold-formed steel columns undergoing local-distortional interaction |
| 10:10 am   | Tea Break                                                                                             |
| **Lecture 3** 10:30 am | YP Liu, SW Liu and SL Chan, Hong Kong Polytechnic University  
Second-order direct analysis for codified stability design of structures |
| **Lecture 4** 10:55 am | M. Bradford, University of New South Wales  
Buckling strength of HSS beams |
| **Lecture 5** 11:20 am | WM Quach, Macau University  
New stress-strain models for stainless steels |
| **Lecture 6** 11:45 am | R. Liew, National University of Singapore  
Design guide for composite columns using high strength materials |
| **Lecture 7** 12:10 pm | D Lam, Bradford University  
Designing long span composite beams with low shear connection to Eurocode 4 |
| 12:35 pm   | Lunch                                                                                                 |
| **Lecture 8** 2:00 pm | HHT Lau, Curtin University  
Design of cold-formed steel back-to-back C channels built up column using modified Direct Strength Method |
| **Lecture 9** 2:25 pm | G.Q. Li, Tongji University  
Demands on buckling restrainers for buckling-restrained steel plate shear walls |
| **Lecture 10** 2:50 pm | KH Tan, C. Liu and T.C. Fung, Nanyang Technical University  
Dynamic performance of bolted beam-column connections in fee-fall tests simulating progressive collapse |
| **Lecture 11** 3:15 pm | B Uy, University of New South Wales  
Innovative connections for deconstructing and retrofitting of steel and composite structures |
| 3:40 pm    | Tea Break                                                                                             |
| **Lecture 12** 4:00 pm | Bill Wong, Monash University  
Significance of emissivity in steel temperature prediction for structural fire design |
| **Lecture 13** 4:25 pm | K Rassmussen, Sydney University  
To be confirmed |
| **Lecture 14** 4:50 pm | XL Zhao, Monash University  
Columns utilizing ultra-high strength steel tubes |
| 5:15 pm    | End of Seminar                                                                                        |