



**One hour Technical Seminar**

Organized by

*The Hong Kong Institute of Steel Construction*

Sponsored by

*Department of Civil and Structural Engineering, The Hong Kong Polytechnic University*

***Review of Research in Design and Analysis of Scaffolding***

*Monday, 16 June 2008*

*by*

***Dr Robert Beale***

*School of Technology, Oxford Brookes University, UK*

**Abstract**

This seminar reviews the research conducted throughout the last thirty years to analyse scaffold structures. Following a historical survey the analysis techniques developed to deal with the semi-rigid connections between standard and horizontal members in combination with the non-linear force-lateral displacement  $P-\delta$  and  $P-\Delta$  effects are presented. A summary of the models developed throughout the world but primarily in the UK and Hong Kong is presented. The implications on design of the effects of different loads applied to falsework such as dead and imposed loads, wind loads and seismic loads are described. Finally the seminar will review work undertaken into scaffold collapses and the methods proposed to reduce the frequency of failures.

**About the speaker**

Robert Beale has been a researcher in scaffold and racking structures for over twenty years with over 80 papers. He was appointed to editorial boards of six international conferences and an International Journal; given seminars in Hong Kong and Malaysia on scaffold practice within the UK, invited speaker to international conferences; chair and host of the 6th International Conference on Steel and Aluminium Structures at Oxford Brookes University in 2007; following conference appointed guest editor for a special edition of 'Advanced Steel Construction'.

**Date:** 16 June  
**Time:** 6:00 pm for 6:30 pm – 7:30 pm  
**Venue:** Room P304, The Hong Kong Polytechnic University, Hung Hom, Kowloon.  
**CPD:** This seminar is recommended for 1 CPD hour  
**Certificate:** An attendance certificate will be issued upon request.

**Free attendance** but places are limited. Please send the completed registration form to **Mr. Sam Chan, c/o TU743, Department of Civil and Structural Engineering, The Hong Kong Polytechnic University, Hung Hom, Kowloon** by **12:00 noon, 6<sup>th</sup> June 2008**. (Fax No.: 2334 6389) or through email: samchina@gmail.com. For technical information, please contact Prof. S.L. Chan at 2766-6047



**Reply Form**  
**To be faxed to 2334-6389 by**  
**12:00 noon, 6<sup>th</sup> June 2008 (Friday).**

### Registration Form

**Seminar Name:** *Review of Research in Design and Analysis of Scaffolding*

**Seminar Date:** 16 June 2008 (Monday)

**Name (in Full):** \_\_\_\_\_ **(Mr./Ms./Ir /Dr./Prof.)\***  
\* Please delete as appropriate

**Company Name:** \_\_\_\_\_

**Contact Tel. No.:** \_\_\_\_\_ **Fax:** \_\_\_\_\_ **Email:** \_\_\_\_\_

**Correspondence Address:** \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

**HKISC Member:**            **Yes**            **Membership Number:** \_\_\_\_\_  
(please circle)            **No**

**Do you want the Attendance Certificate:**            **Yes**            **No**  
(please circle)

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Please send the completed registration form to **Mr. Sam Chan, TU743, Department of Civil and Structural Engineering, The Hong Kong Polytechnic University, Hung Hom, Kowloon** **by 12:00 noon, 6 June 2008 (Friday).** (Fax No.: 2334 6389 or samchina@gmail.com )

The registration form may be downloaded from the web-site of The Hong Kong Institute of Steel Construction (<http://www.hkisc.org>). You can photo copy this registration form.

***Email confirmation will be provided when the form is received. Please be reminded to provide your email to us.***