



CPD OPEN SEMINAR

organised by
Fire Group of Hong Kong Institute of Steel Construction
sponsored by
**Building Division of HKIE, Structural Division of HKIE, and
The Institution of Fire Engineers (Hong Kong Branch)**

Enclosure Fires: Fire Dynamics and Smoke Behaviour

Dr. Longde Zhao
Warrington Fire Research (Asia-Pacific) Ltd

Abstract:

Fire safety engineering for buildings is more or less dealing with enclosure fires. However at the initial fire growth stage, the enclosure effect on the fire is small, hence the fire behaviour in an enclosure can be assumed to be the same as a free burning fire. This will no longer be valid when the fire becomes large. Further because of the enclosure ceiling and walls, a smoke layer will be formed. The understanding of the smoke behaviour including the ceiling jet velocity profile, descending of smoke layer and smoke temperature is important in the fire safety design of the building. This lecture will cover some of the basic concepts of enclosure fire dynamics and smoke behaviour.

Speaker:

Dr. Longde Zhao completed his Ph.D. study in 1995 at the University of New South Wales, Sydney, Australia, majoring in Computational Fluid Dynamics. He is the Manager of Fire Safety Engineering in Warrington Fire Research (Asia-Pacific) Ltd. His work experiences include CFD study of Sydney Olympic swimming pool, Australian fire code reform project, fire engineering designs of Langham Place, Cyberport and Disneyland in Hong Kong, CCTV Tower in Beijing and Sands Casino in Macau. He acted as the Chairman of the Committee to establish the SFPE Hong Kong Chapter, the Vice-president of SFPE Hong Kong Chapter and is also a member of the Fire Group in the Institution of Steel Construction.

Date : 9 May 2006 (Tuesday)
Time : 6:30pm – 8:00pm
Venue : Rm. ST111, The Hong Kong Polytechnic University,
Hung Hom, Kowloon, Hong Kong (revised venue to accommodate more registrations).

Registration fee: Free of Charge
CPD certificate: The seminar is recommended for 1.5 CPD hours, and an attendance certificate will be issued upon request.

*Free attendance but places are limited. Please send the completed registration form to
Dr. Y.L. Wong, Dept. Of CSE, The Hong Kong Polytechnic University, Hungghom, Kowloon.*

**For further information call Dr. Y.L. Wong at Tel.: 2766-6009
Please reserve your seat with Dr. Y.L. Wong at Tel.: 2766-6009**



CPD SEMINAR REGISTRATION FORM

(To be replied on or before 2 May 2006)

Topic of Seminar: **Enclosure Fires: Fire Dynamics and Smoke Behaviour**

Date: **9 May 2006 (Tuesday)**

Venue: **Rm. ST111, The Hong Kong Polytechnic University,
Hung Hom, Kowloon, Hong Kong.** *(Revised venue to accommodate more registrations)*

To : Dr. Y.L. Wong

Fax : 2334-6389

Personal Details:

Title	Name (in full)	Name of Company	Tel. (and Fax)	E-mail address
1.				
2.				
3.				
4.				
5.				

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) . No, I / we do not want to have CPD certificate(s).