

SPEAKER

PROFESSOR W.K. CHOW

Director, Research Centre for Fire Engineering
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The Hong Kong Polytechnic University

D a t e

20 March 2010 (Sat)

T i m e

2.00 – 5.00 pm

V e n u e

Room PQ304
The Hong Kong
Polytechnic University

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[Ref: **Alternative Water Suppression Systems for Tall Atria**]

- I enclose a cheque of HK\$500 for the registration for the lecture course on 20 Mar 2010.
- I am a IFE member. I enclose a cheque of HK\$250 for the registration for the lecture course on 20 Mar 2010.
- I am a SFPE member/BSE Alumni*. I enclose a cheque of HK\$150 for the registration for the lecture course on 20 Mar 2010.

Name (in Full): _____

IFE/SFPE* Membership No: _____

BSE programme: HD/BE/MSc/MPhil/PhD*

Graduation year: _____

Company Name: _____

Company/Home* Address: _____

Tel: _____

E-mail: _____

(Upon receipt of payment, reservations will be confirmed by e-mail. Cheques to be made payable to **The Hong Kong Polytechnic University**. Substitute delegates allowed provided advance notification is given. "First come first served" basis.)



THE HONG KONG
POLYTECHNIC UNIVERSITY



C P D L E C T U R E

Alternative Water Suppression Systems for Tall Atria

Organized by

Professor W.K. Chow
Director, Research Centre for Fire Engineering
Head of Department, Department of Building
Services Engineering
Leader, Area of Strength: Fire Safety Engineering
The Hong Kong Polytechnic University

PROGRAM SCHEDULE

2.00 – 2.15 pm◆	Registration
2.15 – 2.20 pm◆	Welcome
2.20 – 3.20 pm◆	Part 1: Water gun
3.20 – 3.40 pm◆	Coffee break
3.40 – 4.40 pm◆	Part 2: Longthrow sprinkler
4.40 – 5.00 pm◆	Questions and answers

ABSTRACT

Water suppression systems are commonly used in active fire protection strategy for shopping malls with or without an atrium. Because of the high headroom in an atrium, it is difficult to activate a sprinkler under a low level fire. The atrium floor is often used for temporary exhibitions, sales or performance shows. There will be high transient occupant loadings. Large amounts of combustibles used to be placed in there. Flooding the atrium floor with excessive water discharged from a sprinkler would affect evacuation and cause serious property damage. Alternative water systems are proposed and used in shopping malls with atrium. Two of which, water gun and longthrow sprinkler, will be discussed in this talk.

Speaker

Professor Chow's main research interests in fire science and safety engineering are on fire model, active protection system, smoke control, full-scale burning tests on heat release rate and performance-based design. Over 640 papers have been published in journals and conference proceedings with over 350 cited by SCI/EI. He has also successfully supervised over 50 PhD candidates as Chief Supervisor at PolyU and several universities in U.K. and China.

He is active in dealing consultancy projects with performance-based design in the Far East and assisting the government departments in approving fire engineering design by serving various committees in the past 20 years. Projects included tunnel fire hazard assessment, subway stations and terminals, emergency evacuation in Olympic halls at Beijing, atrium hot smoke tests, long throw sprinkler at height and fire resisting construction.

He is the Founding President of the Hong Kong Chapter, Society of Fire Protection Engineers; and President of the Asia-Oceania Association for Fire Science and Technology.