



## **CPD Lecture: Points to Note in Applying Timeline Analysis in Performance-Based Design for Fire Safety Provisions**

The above 1-hour CPD lecture was organized and delivered by Professor W.K. Chow on 4 November 2011 at The Hong Kong Polytechnic University. Over 40 participants from the engineering industry and the relevant government departments attended. Questions were raised on different issues related to the lecture.

Abstract of the lecture: 'Timeline analysis' was applied in performance-based design for many big construction projects with difficulties to comply with the prescriptive fire safety codes. Both the Available Safe Egress Time (ASET) and the Required Safe Egress Time (RSET) are estimated and compared. Six points of concern were identified on this approach and pointed out in this talk. Higher safety margin of multiples of ASET should be provided to cater for uncertainties. Fire safety management must be enhanced in existing projects with low safety margin, long ASET based on small fire scenarios and short RSET with low design occupant loading.



Professor W.K. Chow



Audience