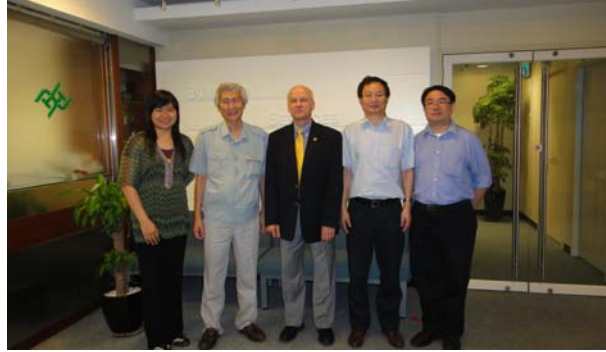


CPD Lecture: Smoke Management: State-of-the-Art and Areas for Improvement

Professor James A. Milke from the Department of Fire Protection Engineering, University of Maryland, USA was invited to deliver a 1-hour lecture on smoke management on 19 June 2012 at The Hong Kong Polytechnic University. Over 100 participants were attracted to this talk.



With BSE staff before the lecture

After a brief introduction by Professor Chow, Professor Milke started the lecture by discussing how smoke management design practice has been changing significantly for the past 40 years. He stressed that there were very few standards, references and computational methods for smoke management designers to use in the 1970's. He then explained the current situation in 2012 by introducing some of the computational methods used in smoke management design practice including algebraic equations, network computer models and CFD simulations. In addition, the importance of improved input data sources was highlighted. Professor Milke also showcased some of the design parameters including number and placement of fans and response time aspects of hardware to facilitate understanding.



Introduction by Professor Chow



An overview



Lecturing



Full house

Before closing, many attendees raised meaningful questions and there was a fruitful discussion among the participants.



Hot questions from industry



Presenting souvenir to Professor Milke

Professor James A. Milke is the Chair of the Department of Fire Protection Engineering at the University of Maryland. He received his Ph.D. in Aerospace Engineering, M.S. Degree in Mechanical Engineering and B.S. Degree in Fire Protection Engineering from the University of Maryland. In addition, he has a B.S. degree in Physics from Ursinus College. He has served as a Research Fire Prevention Engineer at the Building and Fire Research Laboratory, National Institute of Standards and Technology, and as the Fire Protection Engineer for Fairfax County, Virginia. Professor Milke is the President and a Fellow of the Society of Fire Protection Engineers and is a member of the Standards Council of the National Fire Protection Association (NFPA). He was the NFPA Technical Committee on Smoke Management Systems from 1997-2007. He is a member of the International Association of Fire Safety Science.

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