



THE HONG KONG
POLYTECHNIC UNIVERSITY

DEPARTMENT OF
BUILDING SERVICES ENGINEERING



C P D L E C T U R E

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

Organized by
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[Ref: Smoke Management: State-of-the-Art and
Areas for Improvement]

- Free Admission -

SPEAKER

PROFESSOR JAMES A. MILKE
Department of Fire Protection Engineering
University of Maryland
College Park, Maryland, USA

D a t e
19 June 2012 (Tue)

T i m e
7.00 – 8.00 pm

V e n u e
Room FJ304
The Hong Kong
Polytechnic University

Name (in Full): _____
Company Name: _____
Company/Home* Address: _____

Tel: _____
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* Please delete as appropriate

PROGRAM SCHEDULE

6.45 – 7.00 pm◆	Registration
7.00 – 7.05 pm◆	Introduction
7.05 – 7.50 pm◆	Talk by Professor James A. Milke
7.50 – 8.00 pm◆	Questions and answers

ABSTRACT

Smoke management design practice has changed significantly in the last 40 years. In the 1970's, few references and standards were available for designers to use when developing designs. Recognized computational methods to be used as design aids also were not available. Since that time, textbooks have been written, standards developed and an array of computational methods formulated. Computational methods available in 2012 include algebraic equations, network computer models and CFD simulations. Remaining challenges include policy-needed decisions, design parameters and input data for calculations. The policy-needed decisions include the variability of acceptance test requirements and tenability limits. Design parameters include estimates of smoke production for an array of plume geometries, number and placement of fans and response time aspects of hardware. Improved input data sources for the computations are needed for leakage, smoke composition and visibility through smoke.

Speaker

James A. Milke, Ph.D., P.E., is a Professor and 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. Dr. Milke 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. Dr. Milke is the President and a Fellow of the Society of Fire Protection Engineers (SFPE) and is a member of the Standards Council of the National Fire Protection Association (NFPA). He was the chair of the NFPA Technical Committee on Smoke Management Systems from 1997-2007. He is a member of the International Association of Fire Safety Science.