



HKIE (BS Div) / ASHRAE HKC / CIBSE HKB /
HKU (Dept of Mechanical Engineering) / CityU (Dept of Building & Construction)
 Joint Technical Talk

Designing Natural Ventilation for Buildings with Confidence

Date : March 14, 2005 (Monday)
Venue : SCOPE, 8/F, United Centre, Admiralty (Room no to be confirmed)
Time : 6:45 pm for 7:00 pm – 8:30 pm

Programme Highlight: With the discovery of many economic, environmental, and health problems in sealed and mechanically ventilated buildings, the concept of natural ventilation has been revived. "Buildings that breathe" have become more and more desired by building occupants and architects. This lecture will outline the basic strategies for designing natural ventilation in buildings and will present examples of buildings with natural ventilation. Although natural ventilation is conceptually simple, it is difficult to design it with confidence. This lecture will compare the pros and cons of the available tools used in natural ventilation design, such as a model mockup, wind tunnels, nodal/zonal models, and computational fluid dynamics (CFD).

Honourable Speaker:

Dr. Qingyan Chen, Professor and Principal Director,
FAA Center of Excellence for Airliner Cabin Environment Research
School of Mechanical Engineering, Purdue University, West Lafayette, Indiana, USA

Dr. Qingyan Chen received his B.Sc. degree from Tsinghua University in 1983, followed by his M.Sc. and Ph.D. degrees from Delft University of Technology in 1985 and 1988, respectively. He spent time at ETH-Zurich, Switzerland as a Research Scientist, and at the TNO Institute of Applied Physics, the Netherlands as a Project Manager. Prof. Chen then joined the faculty at MIT as an Assistant Professor in 1995, was promoted to Associate Professor in 1998, and was named the Atlantic Richfield Career Development Professor in Energy Studies. In 2002, Chen joined Purdue faculty as a full professor. Last year, he and his colleagues from eight universities received from the U.S. Federal Aviation Administration a Center of Excellence award for Airliner Cabin Environment Research and he becomes the center Principal Director. The ten-year, multi-million dollar center has over 30 faculty members involved. Chen is currently leading an effort to win an Engineering Research Center for Advanced Buildings from the U.S. National Science Foundation together with colleagues from Purdue University, Harvard University, MIT, and the Pennsylvania State University.

Registration & Enquiries

Applications will be accepted on a first-come-first served basis. The deadline of application is March 4, 2005. The name of successful applicants will be posted at web page of each institution @ www.hkiebs.org, www.cibse.org.hk and www.ashrae.org.hk after March 7, 2005.

For enquiry, please contact Dr Raymond Yau (for ASHRAE HKC members) at 22683729, Ir K K Lam (for CIBSE HKB members) at 96746581 and Ir C H Lo (for HKIE BSD members) 28918722.

✂----- **Reply Slip** -----✂

Attn : Mr. Edward Tsui (Fax : 23127209)

Application for

Designing Natural Ventilation for Buildings with Confidence on March 14, 2005 (Monday)

Name : Mr / Mrs / Miss _____ Member of HKIE(BS) / ASHRAE / CIBSE *
 * Delete as appropriate

Membership Class & No. : _____

Telephone (Co.) : _____ (Mobile) : _____ Fax No. : _____

Email address : _____

Company Name : _____

Date : _____