Seminar – Building Integrated Ventilation
Systems – Modelling and Design Challenges

Organized by:
The HKU, Department of Mechanical Engineering and the Centre of Nonlinear Mechanics

Supported by:
ASHRAE - HK Chapter

Date:
10 December 2004 (Friday)

Time / Duration:
4:00pm to 5:00pm

Venue:
Room LG 109, Composite Building, The University of Hong Kong, Pokfulam Road
(entrance at Podium Level of Haking Wong Building)

Honourable Speaker:
Professor Per Heiselberg
Professor, Department of Building Technology and Structural Engineering, Aalborg, Denmark

Prof. Per Heiselberg is the head of Hybrid Ventilation Centre at Aalborg University, Denmark. His research interests include building ventilation, indoor environments and energy efficiency in buildings. He led a number of international and European projects on building ventilation and building envelopes, including the International Energy Agency Annex 20 project on air flows in buildings, Annex 26 project on energy efficient ventilation in large enclosures as Subtask Leader, Annex 35 project on hybrid ventilation as Operating Agent and the new Annex 44 project on responsive building elements.

Program Highlight:
Today, attention has turned towards optimal use of sustainable technologies. Buildings and ventilation systems are designed to interact with the outdoor environment and are utilizing the outdoor environment to create an acceptable indoor environment, whenever it is beneficial. In the majority of cases a combination of natural and mechanical ventilation systems would be beneficial depending on outdoor climate, building design, building use and the main purpose of the ventilation system as this both can reduce energy consumption and environmental load and at the same time ensure acceptable indoor climate.

The last decade’s extensive research carried out on the improvement of energy efficiency in buildings has focused on efficiency improvements of specific systems like ventilation, low energy cooling systems, daylighting, etc. Significant achievements are realised, and even if most ventilation technologies still offer opportunities for efficiency improvements, the greatest potential of the future and a prerequisite for achieving the potential energy savings is development of methods and technologies that optimizes the interaction of building components and energy systems like ventilation.

This presentation will discuss both trends, gives examples of developed methods and technologies as well as the research needed for continued development.

Fee:
Free of charge

Application:
Open to ASHRAE member, HVAC Engineers or other professions interested in this topic etc. No prior registration is required. For enquiries, please contact Mr. Jacob Yiu at 6208 7077 or E-mail: jacobyiu@atal.com.hk.