



ASHRAE 美國供暖製冷及空調工程師學會
**AMERICAN SOCIETY OF HEATING, REFRIGERATING AND
 AIR-CONDITIONING ENGINEERS, INC. - Hong Kong Chapter**

P.O. Box 35612, King's Road Post Office, North Point, Hong Kong

<http://www.ashrae.org.hk>



**Half Day Workshop on
 Displacement Ventilation System –
 A Practical Design Procedure**



In corporation with:

Department of Mechanical Engineering, The University of Hong Kong

Date:

12 March 2005 (Saturday)

Time / Duration:

1:30pm for 2:00pm - 5:00pm

Venue:

Lecture Theatre B, Chow Yei Ching Building, The University of Hong Kong

Honourable Speaker:

Professor Peter V. Nielsen (PhD)

Professor, Aalborg University, Denmark; Honorary Professor, The University of Hong Kong and ASHRAE Fellow.

Peter V. Nielsen has been a professor at Aalborg University since 1986. He wrote more than 250 papers, articles and chapters in technical books on air movement in rooms, energy flow in buildings, control equipment and integrated product development. His PhD study from 1974 has been one of the first examples where Computational Fluid Dynamics (CFD) was used in indoor environmental technology. Peter V. Nielsen also gave full courses or lectures in worldwide universities and institutes as e.g. von Karman Institute for Fluid Dynamics in Belgium, Nordic Academy for Advanced Study, Sweden, and Massachusetts Institute of Technology, USA. He is a co-investigator in a RGC project on hospital ventilation at University of Hong Kong. Peter V. Nielsen received in 1990 the Rockwell-prize for outstanding work on displacement ventilation and in 1992 the SCANVAC Award for his contribution on air distribution and ventilation and recently in 2004 the John Rydberg Gold Medal.

Program Highlight:

Historically, displacement ventilation has been used for hundreds of years. Modern displacement ventilation has been first developed and used mainly in Scandinavian countries, with industrial applications during the seventies, and then widely used for commercial premises in the late eighties. Displacement ventilation has two main advantages compared with traditional mixing systems, i.e. the improved air quality throughout the occupied space by removing more contaminants in the upper zone and the improved energy efficiency due to its capability of removing exhaust air from the room at a higher temperature than the one in the occupied zone - this strategy allows a higher inlet temperature for the same internal heat load. The primary aim of the workshop is to discuss a simplified and practical design procedure. Subjects such as vertical temperature gradient, convective flow, vertical concentration gradient and flow from diffusers will be covered.

Fee:

Free of charge

Application:

Open to ASHRAE members, HVAC Engineers or other professions interested in this topic etc. Please complete and return the below application form by e-mail or by fax at 2234 7105 before 5 March 2005. Number of participants is limited to 80. Quota will be allocated on first-come-first-served basis. Successful applicants will be informed individually by e-mail. Applicants who do not receive a reply before 7 March 2005 may assume their application unsuccessful.

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Name (Dr/Mr/Ms) : _____

Membership Class : _____ No.: _____ (ASHRAE)

Company Name : _____

Contact Address : _____

E-mail Address : **(Must be provided)** _____

Contact Numbers : (Tel) _____ (Fax) _____

For any inquiries, please contact: Mr. Jacob Yiu (6208 7077 / jacobyiu@atal.com.hk)

Please e-mail this form to: apply@ashrae.org.hk or fax at 2234 7105

The Hong Kong Chapter has no authority to act for or in the name of Society.