



ASHRAE Hong Kong Chapter

美國供暖製冷及空調工程師學會 香港分會

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

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# ASHRAE Night 2005

**Date:** 25<sup>th</sup> January 2005 (Tuesday)

**Time:** 6:30pm (reception starts at 6:00pm with refreshment)

**Venue:** General Purpose Hall, B/F, Chinese Methodist Church,  
36 Hennessy Road, Wanchai, Hong Kong

**Purpose:** **ASHRAE Night** is an annual friendly gathering for both ASHRAE members and non-members. In this event, you can meet the Governors and Officers of Hong Kong Chapter, other ASHRAE members and friends in the industry. You can also know more about the organization of ASHRAE, its future planning, organization structure and members' benefits, etc.

**Content:** The following functions will be carried out during the ASHRAE Night 2005:

- ✓ Brief introduction of ASHRAE and its activities & functions
- ✓ Nominating committee election
- ✓ Award presentations (including the Quality Student Project Campaign Award and other recognition & awards)
- ✓ Technical presentation (see overleaf for details)

**Fees:** **FREE of charge.** To reserve a seat, please complete and return the reply slip by fax or send us the information via email, on or before 17 January 2005.

**Membership Drive:** *Member-To-Bring-A-Non-member Scheme (Hong Kong Chapter)*

To encourage wider participation, an incentive scheme is provided. Any of the current ASHRAE Members (including Associate & Student Members) who will come and bring non-member(s) who are interested in ASHRAE to attend this event will entitle to receive a coupon of HK\$30 that could be used for payment of any event that is held solely by the ASHRAE Hong Kong Chapter. Please indicate this in the registration form if you would like to receive this benefit.

*Member-Get-A-Member Program (ASHRAE Headquarters)*

Any member may sponsor a new applicant by signing the reference section of his/her application form, and get a US\$10 coupon from the Society. This coupon can be used for purchase of publications or logo merchandise, or for annual dues payment. If you are interested, please remember to include the sponsor information on the membership application form (it can be downloaded from [www.ashrae.org.hk](http://www.ashrae.org.hk)).

☺ *We look forward to meeting you and your friends at the ASHRAE Night!* ☺

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



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**ASHRAE Night Technical Presentation**

**Transmission Characteristics of Passenger-Exhaled Droplets in a Simulated Air-Cabin Environment and Other Droplet Transport Studies**

by Dr. Christopher Chao

**Abstract:** The short distances between passengers provide a favorable environment for human-human transmission of exhaled droplets via the airborne path in transportation vehicles. This provides a possible route for airborne transmission of infectious disease. Environments that passengers are subject to long exposure time, such as the economic class air cabin, are of the major concern. Currently, researchers have been looking into the transport phenomena of droplets due to human respiratory action under the influence of various ventilation systems. The results in the air cabin study demonstrated potential impact of various forms of ventilation pattern on the transport physics of droplets. The objective is to obtain more realistic boundary conditions for use in the numerical model and thus can provide a meaningful pool of data for use in epidemiological study in the long run.



**Speaker:** Dr. Christopher Chao obtained his Masters and Doctorate from the University of California at Berkeley, majoring in Thermosciences. He is an Associate Professor of Mechanical Engineering at the Hong Kong University of Science and Technology. He was a visiting Senior Research Scientist in the Indoor Environment Department at the Lawrence Berkeley Laboratory in the USA and also is a Guest Professor at the Technical University of Denmark in 2004. Dr. Chao also has a very wide research portfolio covering areas from fundamental aspect of combustion to micro-fluid system, biomass combustion and combustion in micro-channels. He has published more than 40 refereed journal articles in prestigious journals such as Indoor Air, Atmospheric Environment, International Journal of Heat and Mass Transfer, Combustion and Flame, and has also been serving as a member of the editorial board of the Journal of Indoor and Built Environment. One of his recent major research efforts is in the study of Transport Phenomena of Droplets due to Respiratory Action.

**ASHRAE Night 2005: 25 January 2005 (Tuesday)**

**Please reply to:** ASHRAE Hong Kong Chapter  
 By e-mail: [info@ashrae.org.hk](mailto:info@ashrae.org.hk) or by fax no.: 2858 5415 (Attention: Dr. Sam C. M. Hui)

Name: (Mr. / Mrs. / Ms.\*) \_\_\_\_\_

Company: \_\_\_\_\_

Telephone Nos.: (Off.) \_\_\_\_\_ (Mobile) \_\_\_\_\_ (Fax) \_\_\_\_\_

E-mail: \_\_\_\_\_

Are you an ASHRAE member? (Yes / No\*) If yes, your membership no. is: \_\_\_\_\_

If you are an ASHRAE member, will you bring non-member(s) to attend this event? (Yes / No\*)

If yes, please provide details of the non-member(s). They need not submit another registration form.

**Name**

**Company**

\_\_\_\_\_  
 (Use additional sheets if necessary.)

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 (\* Delete where applicable.)

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