

ASHRAE Hong Kong Chapter

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

Email: info@ashrae.org.hk Web: <http://ashrae.org.hk> Fax: (852) 30198334

美國供暖製冷及空調工程師學會 香港分會

地址：香港英皇道郵政局 郵政信箱 35612 號

電郵： info@ashrae.org.hk 網站： <http://ashrae.org.hk> 傳真： (852) 30198334

Technical Seminar

DROPLET FATE IN INDOOR ENVIRONMENT

Can we prevent the spread of infection?

by Professor Lidia Morawska

School of Physical and Chemical Sciences

Queensland University of Technology, Brisbane, Q 4001, Australia

Jointly Organized by ASHRAE Hong Kong Chapter and

Research Center for Building Environmental Engineering, the Hong Kong Polytechnic University

and supported by CIBSE Hong Kong Branch and HKIE (Building Services Division)

The continued prevalence of some old infectious diseases such as tuberculosis, and the threat of emerging infectious diseases such as SARS and Avian flu give the professional community justified concern of the role of human generated aerosol spread in the built environment. Professor Morawska will lead us into the world of fine droplets in buildings.

Date	: 16 June 2006 (Friday)
Venue	: Lecture Theatre PQ 304, The Hong Kong Polytechnic University, Hung Hom, Kowloon
Time	: 6:00pm for 6:30 p.m. - 7:30 p.m.
Fee	: HK\$50 for ASHRAE / CIBSE / HKIE members HK\$100 for non-members Free for all undergraduate students

Programme Highlight :

There are many pathways to infection spread, and among the most significant is airborne transport. However, the dynamics of virus carriage and survival in aerosol droplets, the role of environmental factors and ventilation are poorly understood. As a consequence, understanding of the mechanisms of virus spread is less than basic and so is the ability to control and prevent that spread, which was dramatically illustrated during the recent epidemic of SARS. In addition to the droplets' physical properties, physical characteristics of the indoor environment such as temperature, humidity, and air flow characteristics, as well as the design and operation of building ventilation and filtration systems; are of critical importance in affecting indoor infection spread. This presentation will review the state of knowledge regarding the mechanisms of droplet spread in indoor environments and the solutions available to minimize the spread and prevent infections

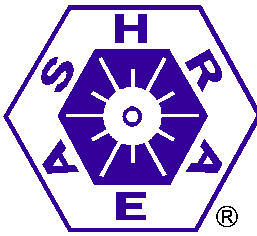
About the Speaker :

Dr Lidia Morawska is a Professor at the School of Physical and Chemical Sciences, Queensland University of Technology (QUT) in Brisbane, Australia, and the Director of the International Laboratory for Air Quality and Health (ILAQH) at QUT (<http://www.ilaqh.qut.edu.au/>). She is a physicist and conducts fundamental and applied research in the interdisciplinary field of air quality and its impact on human health and the environment, with a specific focus on science of airborne particulate matter. Prior to joining QUT she spent several years in Canada conducting research first at McMaster University in Hamilton as a Fellow of the International Atomic Energy Agency, and later at the University of Toronto. Dr Morawska is an author of over a hundred and fifty journal papers, book chapters and conference papers. She has also been involved at the executive level with a number of relevant national and international professional bodies and has been acting as an advisor to the World Health Organization. She is the immediate Past President of the International Society of Indoor Air Quality and Climate.



CPD Certificate :

Certificate of Attendance will be issued to each participant after the lecture.



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Registration & Enquiry :

Interested persons shall fill in the registration form and return to us at fax 3019 8334, or alternatively apply via email: apply@ashrae.org.hk or mail to P.O. Box 35612, King's Road Post Office, North Point, Hong Kong, with personal details shown on the registration form. *Participants shall pay their fee at the Registration Counter in cash.*

The seat number is limited to 110. Applications will be accepted on a first-come-first served basis. The deadline of application is 5 June 2006. Applicants will receive a confirmation email on or before 10 June 2006. For enquiry, please contact Dr YC Lee at yc.lee@housingauthority.gov.hk

----- Reply Slip -----

ASHRAE Technical Seminar – DROPLET FATE IN INDOOR ENVIRONMENT **Can we prevent the spread of infection? (16 June 2006)**

To: ASHRAE Hong Kong Chapter
By Fax: 3019 8334 or By email: apply@ashrae.org.hk

I wish to attend the above lecture on 16 June 2006 (Friday).

Name : Mr/Mrs/Ms _____ Company/Institute: _____
* ASHRAE/ CIBSE/ HKIE(BS Div) Member * Delete as appropriate

Membership No. : _____ E-mail Address : _____

Student Apply:-
- University No. : _____ Study Program : _____

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

Correspondence Address : _____

Note : All members have to fill in the membership number for verification. The organizers reserve the right to decline their application if no membership no. is submitted.