



## ASHRAE Hong Kong Chapter

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

Email: [info@ashrae.org.hk](mailto:info@ashrae.org.hk) Web: <http://ashrae.org.hk> Facsimile: (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](mailto:info@ashrae.org.hk) 網站： <http://ashrae.org.hk> 傳真： (852) 30198334

### Technical Seminar

## **Enhancing The Energy and Operational Performance of HVAC&R Systems Using Proper Monitoring Instrumentations**

by Professor Shengwei Wang

Professor, Dept. of Building Services Engineering, The Hong Kong Polytechnic University

Associate Editor, HVAC&R Research (ASHRAE Research Journal)

**Date & Time:** 25 May 2005 (Thu), 7:20 pm to 8:35 pm  
(right after the Annual General Meeting of ASHRAE Hong Kong Chapter)

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

**Abstract:** Sufficient and reliable information is the essential basis for making any decisions. Adequate, accurate and reliable measurement instrumentations are the key for proper control and monitoring of BA systems. One sensor, which works well at one location or for one purpose, might not work properly at another location or for another purpose. The HVAC&R designers should be very clear on how a designed system is controlled/operated and what are the needs on measurement instrumentations (to be provided by BA contractors) for the intended operation and control. This talk provides a highlight on this issue by giving a few typical cases in HVAC&R systems where instrumentation is problematic. It will further discuss on how to design/select the adequate, accurate and reliable but cost effective measurement instrumentations for intended operation and control of HVAC&R systems, as well as how to establish reliable and energy efficient controls on the basis of practical measurement instrumentations.

**Speaker:** Professor Wang is extensively involved in the research and development on building energy and optimized control, fault diagnosis of HVAC&R systems and their instrumentations as well as system dynamic simulation. He has obtained over twenty research and technology development funds from HK-RGC, Mainland-HK technology development funds and other resources. He was/is actively involved the IEA (International Energy Agency) ECBCS (Energy Conservation for Building and Community Systems) research programs: Annex-17, Annex-30, Annex-34, Annex-40 and Annex-47. He has published over 120 papers (over 50 in SCI journals), and received the President Award on Outstanding Achievement on Research and Scholarly Activities (2001). He is also an associate editor of 'HVAC&R Research', a leading research journal in HVAC field.

**Reservation:** This seminar is open free of charge to ASHRAE members and other interested persons. Seats are allocated on a first-come-first-serve basis. To reserve a seat, please send your information to us through email ([apply@ashrae.org.hk](mailto:apply@ashrae.org.hk)).

- Name of applicant(s)
- Company name
- Contact info. (email, telephone, fax)
- ASHRAE Membership class and number (if any)

**Enquiry:** Please contact us at email "[info@ashrae.org.hk](mailto:info@ashrae.org.hk)" or by fax 3019 8334.

**CPD Certificate:** Attendance certificate will be provided to participants.

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