

Technical Seminar

after ASHRAE Hong Kong Chapter – 30th Annual General Meeting

2014 ASHRAE Technology Award Honorable Mention

“Building Life-Cycle Commissioning and Optimization for Enhanced Energy Efficiency – The Method and Experiences”

presented by

Prof. Shengwei Wang

Chair Professor, Department of Building Services Engineering
Director, Building Energy and Automation Research Laboratory
The Hong Kong Polytechnic University

Date & Time: 16 May 2014 (Friday), 7:30 – 8:30 pm (after ASHRAE-HKC 30th Annual General Meeting)

Venue: Lecture Theatre LT32, Morrison Hill Campus, Hong Kong Institute of Vocational Education, 6 Oi Kwan Road, Wanchai, Hong Kong

The Speaker:

Prof. Shengwei Wang obtained his PhD from University of Liege in 1993 and joined the Hong Kong Polytechnic University at the same year. He is the Chair Professor of Building Services Engineering in the Department of Building Services Engineering and the Director of Research Laboratory of Building Energy and Automation in the University. He is extensively involved in the research and application of building energy management, building/HVAC diagnosis and optimal control, and intelligent building and building automation technology. He obtained over twenty-five research funds from the Research Grants Council (RGC) of Hong Kong, National Science Foundation of China (NSFC) and other resources. He published two books, coauthored four books, and published over 300 papers in refereed journals and conferences (including over 150 papers in journals cited by SCI). He is an Associate Editor of ‘HVAC&R Research’ and editorial panel member of a few other journals. He also holds eight guest/adjunct professorships of Chinese and US universities.



Seminar Highlights:

Buildings contribute to over 90% of the electricity consumption and over 80% of the total energy consumption in Hong Kong. There are three main approaches to reduce the building energy consumption and improve the energy efficiency, including: (A). Reduced building load by building architecture design, (B). Use of energy efficient technologies and equipment, and (C). System optimization and optimized control. The first one is well understood but it is often forgotten today. The third one has not yet attracted necessary attention although 20-50% of energy saving can be expected from its implementation.

This presentation will share our experiences on the third approach in Hong Kong, i.e. building air-conditioning system life-cycle commissioning and optimization to achieve energy efficient buildings. The impacts of uncertainties on the design of HVAC systems will be illustrated. The approach/method to optimize the system design concerning the uncertainties at design stage, i.e. uncertainty-tolerant design optimization, will be discussed. The practical experiences and energy savings of few newly-developed buildings (particularly the International Commerce Centre) and existing buildings will be presented. A building level diagnosis methodology with very limited data of existing buildings will be also presented.

Language: English

Fee: Free of charge for ASHRAE-HKC members;
Free of charge for full time students or staff of Hong Kong Institute of Vocational Education;
HK\$50 for non-members

Remark: 1-hour CPD certificate will be provided.

Application:

Seats are limited. Open to all interested persons, but *priority will be given to ASHRAE-HKC members who attend the AGM at 6:30 pm on 16 May 2014.* The deadline of application is 9 May 2014. Please complete and return the application form by e-mail and send the cross cheque (if necessary) via post before 9 May 2014. Number of participants is limited. Places will be allocated on a first-come-first-served basis. Successful applicants will be informed individually by e-mail.

Application Form:

Technical Seminar on Building Life-Cycle Commissioning and Optimization for Enhanced Energy Efficiency – The Method and Experiences

Please tick if you will attend our AGM at 6:30pm on 16 May 2014

Name (Dr./Ir/Mr./Mrs./Ms.)* : (Surname) _____ (Given Name) _____

Membership*: Organization: _____ Membership No.: _____

Company* : _____

Position* : _____

Email Address* : _____

Contact Numbers : (Mobile)*: _____ (Office): _____

* Information must be filled.

Fee (ASHRAE-HKC members / IVE Full time students or staff) – Free of charge

Fee (Non-member) – HK\$ 50 x ___ person (cheque no.: _____)

Enquires: For inquiries, please contact us at email: cswong@ifc.com.hk

Registration: The application form and cross cheque with appropriate payment in Hong Kong dollars payable to “ASHRAE Hong Kong Chapter” shall be sent to **P.O. Box 35612, King’s Road Post Office, North Point, Hong Kong**, before 9 May 2014. The applicant may email the above information to cswong@ifc.com.hk for place reservation and then followed by cheque payment via mail.



Member of VTC Group
VTC 機構成員

Remark: This Technical Seminar is co-organized by ASHRAE-HKC Student Branch of IVE