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

Distinguished Lecturer Series – High Performance Building and Occupant Comfort

Date: **23rd November 2011**

Time / Duration: **6:30pm for 6:45pm - 8:30pm**

Venue: **Room CD302, The Hong Kong Polytechnic University, Hung Hom, Kowloon, Hong Kong.**

Honorable Distinguished Lecturer:

PETER SIMMONDS, Ph.D.
Senior Associate, Head of Advanced Technology Group
IBE Consulting Engineers, Sherman Oaks, CA, USA

Peter Simmonds has a Bachelor of Science degree in Mechanical Engineering and another in Research and Development from Reading Technical College, and a Master's degree from HTS, Den Bosch, The Netherlands and a Ph.D. from T.U. Delft. He has been a member of ASHRAE since 1989. Dr. Simmonds is a recognized authority in the field of Radiant heating and cooling systems. The main goals of his research and applications have been to understand the heat transfer and performance of radiant systems for both heating and cooling. His studies related to thermal performance of these systems led to a unique way to enhance in these systems. Publications of his work led to the development of radiant systems in the USA and are included in the ASHRAE Handbooks. He has received the Carter Bronze Medal from the Chartered Institution of Building Services Engineers in 1993.
He has authored or co-authored more than 60 technical papers, articles and books and currently is a Research Promotion Chair for the Southern California Chapter. He is a member of several ASHRAE Technical Committees. Peter also teaches Graduate and Post Graduate Architectural students at the Southern California Institute for Architects in Los Angeles.

Program Highlight:

This lecture illustrates that the Predicted Mean Vote/Percentage Persons Dissatisfied (PMV/PPD) can be used to produce optimal designs for a number of different applications. One application was to evaluate an existing building to provide the owner with information on how to improve occupant comfort and improve building efficiency. Previous work by Dr. Simmonds have shown that the effects on comfort results when varying clothing levels and metabolic rates of occupants is relatively small compared to changes in the engineered variables such as dry bulb temperatures, humidity, air velocity and mean radiant exchange. This lecture will show the results of the design process for each of the buildings explaining the intricacies of each solution and show that the new ASHRAE standard 55 can be used as an effective design and analysis tool for modern designs.

Fee:

ASHRAE Members / PolyU Staff / Full-time Students : Free
HKIE / CIBSE Members : HKD$ 200
Other Non-Members: HKD$ 300

For non-ASHRAE member, please send your application and cheque to "Dr. SL Wong – Department of Civil and Architectural Engineering, City University of Hong Kong, Tat Chee Avenue, Kowloon Tong, Hong Kong" for formal registration. Cheque shall be payable to "ASHRAE Hong Kong Chapter".

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 before 18 November 2011. Seats are limited. Quota will be allocated on first-come-first-served basis. Un-successful applicants will be informed individually by e-mail. Applicants who do not receive a reply before 21 November 2011 may assume their application successful.

Application Form – High Performance Building and Occupant Comfort (*Cross if not appropriate)

Name (Dr/Mr/Ms) : _____

Membership Class : _____ No.: _____(*ASHRAE/HKIE/CIBSE/Others)

Fees : *Free / HKD$ 200 / HKD$ 300 (receipt is available upon request)

Company Name : _____

Contact No. : _____

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

For any inquiries, please contact: Dr S L Wong at 3442 4312 or Mr Patrick Huang at 6077 2053

Please e-mail this form to: chapterprogram@gmail.com