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## **Half Day Workshop on Fundamental Refrigeration System Design**

**Date :** March 13<sup>th</sup>, 2015 (Friday)  
**Time:** 2:00pm to 5:00pm (registration starts at 1:45pm)  
**Venue:** CPD-1.21, 1/F., Central Podium Level, HKU Centennial Campus,  
Pokfulam Road, Hong Kong.

<http://www.exam.hku.hk/room/Facilities.htm?CPD-1.21>

<http://www.exam.hku.hk/room/plan/floorPlan.pdf>

### **Introduction:**

After the seminar on introduction to cold store design held in January, it was noted that the cold storage plays an important role in the preservation of the food before they reach consumers. This workshop will look at different types of insulation: prefabricated panels vs insitu sprayed on insulation, PU vs PS that related to those applications in cold store. Implementation on refrigeration load calculations, basic vapour compression cycle, economizers, two stage systems with intercooler, liquid overfeed system, heat rejection methods such as air cooled, direct water cooled, cooling tower, evaporative condenser and means in enhancing efficiency will be discussed. Secondary coolants like propylene glycol, ethylene glycol, calcium chloride brine and the refrigerant safety will also be illustrated.

### **Honorable Speaker:**



Ir. K. F. Chan is a part time lecturer at the Research Institute of Tsinghua University in Shenzhen and as an honorary principal lecturer at the University of Hong Kong. After graduation from the University of Hong Kong, Ir. Chan first started his career in a consultant firm. He then joined Southa Engineering Ltd, which is generally considered as the strongest refrigeration contractor based in HK, four years afterwards and has ever since grown up with the company together. During his employment in Southa, he has designed and built hundreds of thousands tons of cold stores, quick freezing plants, and ice rinks. Locations of projects are not only in HK and on the Mainland, but spanned all over Asia. Over the years, he actively promotes uses of environmental refrigeration measures such as propane, ammonia, binary ice, and cyclopentane blown polyurethane insulation. Besides work, Ir. Chan is also active in charity and education work. In Southa, he is responsible for training of engineering graduates and apprentices. Ir. Chan has also been a loyal member of ASHRAE for 20 years.

**Instruction Media:** English

**Fee:** Free of charge for members of ASHRAE and HK\$800 for Non-members.  
(3 hour CPD certificate will be provided.)

**Application:** Registration is opened to ALL and Members of ASHRAE will be in first priority. Please complete and return the application form by e-mail and return it with a crossed cheque payable to "ASHRAE Hong Kong Chapter" to the P.O. Box 35612, King's Road Post Office, North Point, Hong Kong before 6 Mar 2015 (Fri). Number of participants is limited to 80. Places will be allocated on a first-come-first-served basis. Successful applicants will be informed individually by e-mail on or before 10 Mar 2015 (Tue).

**Application Form**

**Half Day Workshop on Fundamental Refrigeration System Design**

Name (Dr./Ir/Mr./Mrs./Ms.): (Surname)\_\_\_\_\_ (Given Name)\_\_\_\_\_

Institution and Membership No : \_\_\_\_\_ / \_\_\_\_\_

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

Contact Tel. No. : (Mobile)\_\_\_\_\_ (Office)\_\_\_\_\_

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

Enquiry: Please contact Mr. Peter Lam at 92196323 (ASHRAE – HKC). Email enquiries can be sent to <workshop\_13\_mar\_2015@yahoo.com.hk>.

Registration: Please complete and return the application form by e-mail and return it with a crossed cheque payable to “ASHRAE Hong Kong Chapter” to the P.O. Box 35612, King’s Road Post Office, North Point, Hong Kong before **6 Mar 2015**. The applicant may email the above information to <workshop\_13\_mar\_2015@yahoo.com.hk> for place reservation. Successful applicants will be notified by email on or before **10 Mar 2015**.