ASHRAE *ASHRAE SINGAPORE CHAPTER*
American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. SINGAPORE CHAPTER

Mailing Address: Bukit Merah Central, P.O. Box 0626, Singapore 911535

16th January, 2008

Dear Friends and Members of ASC,

AN EVENING WITH THE PRESENT ASHRAE PRESIDENT, ER. KENT PETERSON, DINNER cum TALKS

ASHRAE Singapore Chapter (ASC) proudly announces the forthcoming visit of the **President of ASHRAE Society, Er Kent Peterson.** This is his first trip to Singapore. He will be spending a day with the members on **20th February 2008.** Er. Kent Peterson is the youngest man to take the highest office in ASHRAE Society. He is dynamic and brings with him a wealth of experience with over 20 years as a specialist HVAC Consultant.

On behalf of ASC, I would like to invite all members, and friends of ASC; ASHRAE members, professionals in the HVAC industry, & other related industries to join us on the *20th February 2008, at the Furama Riverfront to dine with & hear from Er Kent Peterson as he shares his vase experience on:

1. **"Sustainability in HVAC and Enhancing the Optimum Performance of Chillers"**
2. **"Leadership qualities of an outstanding engineering personnel"**.

(*Please refer to attached for more details for programme, location and charges.)

For obvious reasons, such talks will not be repeated. Do not miss this rare opportunity to hear the **ASHRAE PRESIDENT, ER. KENT PETERSON** speaks and learns from him on his specialist knowledge. Consider the tremendous cost and energy savings to you, if you have to travel all the way to the United States of America to hear him speak on these hot topics.

Biography

- ***Kent Peterson, P.E; Fellow ASHRAE; Past ASHRAE Distinguished Lecturer***

Er. Kent Peterson has been involved in all aspects of consulting engineering services. In addition, he enjoys a good reputation for motivating leadership qualities amongst engineers, and providing creative design solutions. He has over twenty(20) years of experience working in consulting engineering. He is the Chief Engineer/Vice President and a founding owner of P2S Engineering in Long Beach, California. His design experience includes innovative projects involving energy-efficient mechanical and control system designs for large facilities. The mechanical designs have ranged from cleanroom/ laboratory facilities to large campus central cooling plants. His experience encompasses all project phases from feasibility studies through system testing and commissioning.

(Er. Kent Peterson is currently the President of ASHRAE, and chairs the Board of Directors and the Executive Committee. He has chaired both committees and councils including Technology Council, Members Council, the ASHRAE Learning Institute, Student Activities Committee, Board Planning Committee, Finance Committee, Advocacy Committee, Society Rules Committee and numerous ad hoc committees. Er.Kent Peterson has authored a number of papers and articles, taught leadership and management.)

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ABSTRACT OF TECHNICAL TALK:

The pre-dinner Talk comes in two parts:

- **1a) Sustainability in HVAC**

The world is facing a crisis when it comes to energy availability and increasing greenhouse gas emissions. The forces that put us here look grim. Worldwide energy demand is increasing. Supplies are increasingly tight and society's anxiety regarding climate change is growing. Forces in the building industry are converging to make the prospect of substantial transformation much more achievable. The built environment has also been cited in the Intergovernmental Panel on Climate Change 4th Assessment Report as providing the greatest potential for reducing greenhouse gas emissions worldwide. Innovation will be required to achieve high-performance HVAC systems around the globe.

This talk reviews ASHRAE's current efforts towards shifting the built environments towards sustainability and how it relates to all of us. Find out what how the next 15-20 years will transform the building industry and what will be expected of us in the future as the industry moves towards high-performance buildings.

- **1b) Enhancing the Optimum Performance of Chiller Plants**

This talk will present innovative techniques for the design and operation of energy-efficient and optimized chilled water plants. Chiller plants must minimize the annual energy consumption while providing the necessary cooling to each of the loads in the system.

Variable-primary flow chilled water systems have received much current attention. It has been suggested that the primary/secondary chilled water system concept has outlived its lifespan and that variable-primary flow is the answer to the problems that have led to its demise. Er. Kent Peterson will share his experience with both types of systems.

Engineers and facilities operators have many decisions to make when designing and operating central chilled water plants today. Many of these decisions require extensive consideration of elements beyond the perimeter of the plant. Some of these questions include:

- How can a higher chilled water delta T be achieved?
- What effect does delta T have on chiller performance?
- What plant configuration best fits the requirements?
- What control strategies can be used to optimize plant performance?
- How do you select the proper chillers, cooling towers and pumps?
- What type of building interface should be used to connect to central systems?

Both designers and operators must properly address these technical aspects to operate efficient chilled water plants that perform.

- **2) Leadership Skills for Outstanding Engineering Personnel**

Have we ever wondered what leadership skills will help us succeed in business? This talk covers leadership skills, the fundamentals of project management, effective communication skills and negotiating skills. Leadership qualities in engineering require vision, communication, understanding, and the ability to balance clients' wants, needs, priorities and budgets. Come learn the soft skills engineers need in order to succeed.

The buzz word in the 21st century is "**SUSTAINABILITY**" (of the built environment), and I believe these technical talks will benefit all professionals & interested parties in the HVAC and other related industries. Besides, be treated to a motivational talk on leadership qualities from a distinguished speaker in HVAC.

I look forward to seeing you. Should you require more details, please feel free to contact the undersigned.

Thank you.

Yours truly,

Francis Lee
(On behalf of ASC Organizing Committee)
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