

# ASHRAE Hong Kong Chapter 25 Years



ASHRAE Hong Kong Chapter was founded in year 1984, initiated by several ASHRAE members among the leaders of the HVAC&R industry in Hong Kong who had the vision, the enthusiasm, and the great minds of serving.

## **Official Formation**

The Charter of the Hong Kong Chapter was presented to late Dr Edwin H C Tao, its first Chapter President, at the Annual Meeting of ASHRAE held at Kansas City, USA, on Monday, June 18 1984. One week later, on June 25, 1984, formal certification for approval of its formation was officiated its legal existence in Hong Kong.

The Chapter had been granted a status of "Chapter-At-Large" for the first three years since 1984. In Society year 1987-88, the chapter was then assigned to Region X. After the ASHRAE Far East Conference that taken place in Hong Kong in the year 1992, the ideal of forming a new Region for the Far East chapters was announced.

Further on days to days extremely great efforts of the Chapter members accompany with the continuous encouragement from the

DRCs of other Region. Region XIII, the first Region of ASHRAE outside North America, was officially formed on July 1, 1998. Hong Kong Chapter, together with Singapore, Malaysia, and Taiwan Chapters, being its founding chapters, naturally became a member of that Region at the same time. Mr Vincent Tse, a Past President of Hong Kong Chapter, was elected to be its first Director and Regional Chair (DRC).

The Philippines Chapter and Thailand Chapter joined in Region XIII in years 1999 & 2000 and followed by Indonesia Chapter in years 2007 & 2008 to share the friendship and support among other Chapters in this Region.

The process and ways of how it eventually evolved into the present Region XIII is recorded in the Region's History of Region XIII.



Hong Kong Chapter  
**25** Years  
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### Council of Past Presidents

Supported by late Dr Edwin Tao, a motion was moved by Mr Edward Tsui in 2002 to form the Council of Past Presidents to provide counseling to the Chapter Officers and a closer link with the past presidents for a better succession and sustainability of the Chapter. The motioned was passed, and Mr C O Synn was nominated as the Chairman of the Council and Mr Edward Tsui was nominated as the coordinator.

### The Student Branch

Mr Michael M K Chan, committee member 92/93 and 93/94, firstly inspired the students of Building Services Department of Hong Kong Polytechnic with enthusiasm for the formation of the First Student Branch in Hong Kong Chapter in 1994/95.

Currently, ASHRAE Hong Kong Chapter has five Student Branches in the Hong Kong Polytechnic University, City University of Hong Kong, the University of Hong Kong, Hong Kong Institute of Vocational Education and the Hong Kong University of Science and Technology.

### Board of Governors of ASHRAE HK Chapter in 1984

|                  |   |
|------------------|---|
| President        | Late Dr Edwin H C TAO   |
| Vice President   | Late Dr Samuel P W WONG   |
| Secretary        | Mr Bryce D E HUNTER   |
| Treasurer        | Mr T A BERRE CLOTH  |
| Committee Chairs | Mr James WU<br>Mr Philip CHIEN<br>Mr C O SYNN<br>Mr Alan THOMPSON |

### Chapter Presidents

| Name                    | Society Year |
|-------------------------|--------------|
| Dr Edwin TAO            | 1984-85      |
| Dr Samuel WONG          | 1985-86      |
| Mr Terry BERRE CLOTH    | 1986-87      |
| Mr Brian HUNTER         | 1987-88      |
| Mr Chun-On SYNN         | 1988-89      |
| Mr Alan THOMPSON        | 1989-90      |
| Mr Vincent TSE          | 1990-91      |
| Mr Rick KROOS           | 1991-92      |
| Dr Daniel CHAN          | 1992-93      |
| Mr Wai-Kwong WONG       | 1993-94      |
| Dr C Y CHU              | 1994-95      |
| Mr Francis PANG         | 1995-96      |
| Dr Philip YU            | 1996-97      |
| Mr W K PAU              | 1997-98      |
| Mr Alan LAM             | 1998-99      |
| Dr Tin-Tai CHOW         | 1999-00      |
| Mr Edward TSUI          | 2000-01      |
| Mr Victor YIU           | 2001-02      |
| Dr Raymond YAU          | 2002-03      |
| Mr Vincent CHU          | 2003-04      |
| Mr Tim CHENG            | 2004-05      |
| Mr Tse-Kin CHAN         | 2005-06      |
| Dr Sam HUI              | 2006-07      |
| Mr Siu-Lam LI           | 2007-08      |
| Mr Raymond Ka-Lung CHAN | 2008-09      |



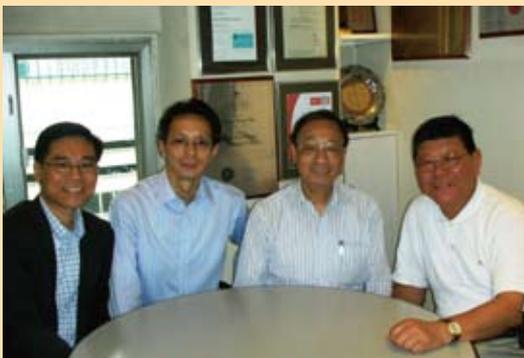
Mr S L Li (Chapter President 2007-08) with flag of Hong Kong Chapter



ASHRAE Hong Kong Chapter proudly announced the appointment of the publisher of BUILDING JOURNAL, China Trend Building Press to undertake the overall editorial planning, design, pre-press and printing of the publication (Front left) S L Li, President 2007-08, ASHRAE Hong Kong Chapter with Felix Leung, Publisher, China Trend Building Press at the signing ceremony. (Back) Dr Philip Yu of ASHRAE and May Cheng of China Trend



Meeting with senior veterans Colin K F Chan and Y S Chan



Interview with Mr Richard Chan (second right), a well known HVAC&R system design consulting engineer

### To promote the public awareness of Green Design and Energy Efficiency in HVAC&R

ASHRAE Hong Kong Chapter is celebrating its 25th Anniversary (1984-2009) in 2009, at a time, which energy saving, indoor and outdoor air quality, environmental protection and resources conservation are major concerns.

In the past quarter of a century, the Chapter has grown with Hong Kong. Our members have played an important role in advancing comfortable environment to the people and we are continuously improving the quality of life in one of the most vibrant cities in the world – Hong Kong.

To celebrate this special occasion, a series of activities have been subtly planned and professionally initiated to communicate our mission of advancing heating, ventilation, air conditioning and refrigeration (HVAC&R) technology to serve humanity and promote a sustainable world.



Publishing date:  
Third quarter 2009

### COOL Hong Kong

The first book of its kind being published in the Chapter's 25-year history to recollect past and current outstanding projects, with focus on HVAC&R technology development in Hong Kong. A special task force was commissioned by the Board of Governors back in mid 2007 and now led by one of the Chapter senior member, Dr Philip Yu. One of the main objectives is to let our younger generation to learn from our past that will inspire their career in the years to come.

# Maintain to sustain – delivering ASHRAE's sustainability promise

Mr William Harrison (ASHRAE President 2008-2009)



**E**nergy is a global problem today. The Web site [EnergyShortage.org](http://EnergyShortage.org) identifies a dozen countries where energy supplies are creating availability problems. Energy prices have driven food prices to levels that have produced rioting in some countries. The International Energy Agency confirms that demand will continue to grow and that oil and coal will continue to be the primary sources of energy. Developing countries will experience the largest growth and see the largest growth in energy related emissions.

Sustainability for ASHRAE has to mean more than energy conservation. Many of us remember our immediate response to the energy crisis of the 1970s. Our first energy

standard was produced in record time and was very effective.

Sustainability for ASHRAE means energy efficiency and healthy, productive indoor environments.

Delivering ASHRAE's sustainability promise means that our members are going to have to work more closely with others in the buildings business. A collaborative or integrated design process is essential if a building is to be designed and operated as a high-performing building. We must also deliver our message to building owners. Owners must be educated so that they can evaluate building decisions based on life-cycle costing. In the future, we will hold net-zeroenergy buildings.

## Enhance opportunity for professional growth

### **ASHRAE online - [www.ashrae.org](http://www.ashrae.org)**

The ASHRAE Web site allows users to access the Society through the Internet to obtain information about ASHRAE's activities, purchase products, register for meetings and communicate with staff. Members can access a Members Only section to sign up for a free, personal ASHRAE email alias account, update their member records, pay dues online and access the Abstract Center and full text of ASHRAE Journal articles. The site features an online ordering and delivery service for standards, guidelines and papers presented at semi-annual meetings. Public review drafts of ASHRAE's standards and guidelines may be downloaded free of charge. Published addenda to standards are posted for free. In 2006, the redesign of web site improved member login, navigability, enhance services to members and simplify the process locating and ordering ASHRAE publications. Members will log in using their e-mail address and a password of their choosing, rather than their member number and PIN.

### **Research budget**

ASHRAE's Research Program operates with a US\$2.6 million budget with projects and grants-in-aid comprising 84 percent of the research budget. In 2001, ASHRAE spent US\$2.2 million in support of research. There were a total of 94 projects worth a combined value of more than US\$9.0 million. In 2006, ASHRAE had created a research strategic plan 2005-2010, namely "Navigation for a Sustainable Future", based on five broad, far reaching research opportunity themes: Energy and resources; indoor environmental quality; tools and applications; equipment, components and materials; education and outreach.

### **Research promotion**

Research Promotion is an annual fund-raising campaign conducted by the membership to raise funds for ASHRAE's research and professional education programs. Contributions are received from individual members as well as from companies associated with the HVAC&R industry. Since the fund-raising expenses are covered by the Society's budget, 100 percent of every dollar raised goes toward these programs.

In 2008, approximately US\$2.0 million per year is being raised for research through this campaign of more than 5,500 investors and is matched dollar-for-dollar by the Society from the proceeds of the annual AHR Exposition.

### **ASHRAE Foundation**

In 1994, ASHRAE created the ASHRAE Foundation to advance the needs of the HVAC&R industry by creating an endowed trust that would support professional development and research programs and provide engineering students with scholarship opportunities. The Foundation ensures that ASHRAE will continue to have sufficient resources to sustain and expand the Society's important work. It also supports the Society's mission through the stewardship of permanently endowed funds contributed by members and companies involved in the HVAC&R industry. The Foundation has more than US\$5 million in endowed funds. It offers members a resource for charitable and estate planning services, which can help them develop the most beneficial methods for endowing their future support.

### **ASHRAE position on building sustainability**

At the 2002 Annual Meeting, the Board of Directors approved a position statement on Building Sustainability. The document states that ASHRAE supports building sustainability as a means to provide a safe, healthy, comfortable indoor environment while simultaneously limiting the impact on the Earth's natural resources.

Under the statement, ASHRAE will consider integrating building sustainability principles, effective practices and merging concepts into all appropriate ASHRAE standards, guidelines, Handbook chapters and Society publications; actively participate with internationally recognized building sustainability groups where deemed appropriate; promote and provide education on building sustainability to its members and society through the ASHRAE Learning Institute and grassroots chapter activities. In 2006, ASHRAE's Sustainability Roadmap was formed (available on ASHRAE Online) and guides the Society's efforts in defining a leadership role in sustainability.

**Education Units (CEU) or Professional Development Hours (PDH),  
which can be used to maintain professional engineering registration**

## **Recent Publications – Electronic and Print**

**T**he 2008 ASHRAE Handbook – HVAC Systems and Equipment discusses various systems and the equipment (components or assemblies) that comprise them, and describes features and differences. This information helps system designers and operators in selecting and using equipment. Two new chapters have been added in this edition, i.e., Ultraviolet Lamp Systems and Combustion Turbine Inlet Cooling (CTIC). Some of the revisions and additions to the remainder of the volume are also made.

*The ASHRAE HandbookCD+ 2005-2008* provides searchable access to the four most current Handbook volumes – including the newest volume, HVAC Systems and Equipment. Because it has been developed and reviewed by hundreds of recognized industry experts, the ASHRAE HandbookCD+ is the world's most authoritative HVAC&R reference.

*ANSI / Standard 62.1-2007 User's Manual* helps for designing, installing, and operating buildings in accordance with Standard 62.1-2007. The accompanying CD contains an updated 62MZCalc spreadsheet that assists in Ventilation Rate Procedure calculations.

*The ASHRAE Datacom Series*, a series of

seven publications provides a comprehensive treatment of datacom cooling and related subjects.

*High Performing Buildings (readable online)*, this quarterly magazine from ASHRAE helps decision makers, such as building owners, facility managers, architects, contractors and engineers in the building community learn about the benefits of innovative technologies and energy-efficient design and operation through case studies of exemplary buildings.

*The Advanced Energy Design Guide series* (PDF version free download) provides a sensible approach to easily achieve advanced levels of energy savings without having to resort to detailed calculations or analysis.

The four-color guides offer contractors and designers the tools, including recommendations for practical products and off-the-shelf technology, needed for achieving a 30% energy savings compared to buildings that meet the minimum requirements of ANSI/ASHRAE/IESNA Standard 90.1-1999. The energy savings target of 30% is the first step in the process toward achieving a net-zero energy building.

### **Ammonia as a refrigerant**

At the 2006 Winter Meeting, the Board of Directors reaffirmed Ammonia as a Refrigerant Position Document. The document commits ASHRAE to promoting authoritative information on ammonia through seminars and publications; continuing research on ammonia topics such as handling, application, operation, control of emissions and new technology; maintaining and developing standards and guidelines for practical and safe application of ammonia in refrigeration systems; providing programs and publications on innovative designs and application of ammonia refrigeration; and advising governments and code officials with information regarding ammonia.

## **History of ASHRAE**

ASHRAE was formed by the merger of two societies, American Society of Heating and Ventilating Engineers (founded in 1894), known after 1954 as American Society of Heating and Air-Conditioning Engineers and the American Society of Refrigerating Engineers (founded in 1904). The two merged in 1959.

### **Chapters and Regions**

ASHRAE has more than 160 chapters organized into thirteen regions and a region-at-large.

ASHRAE Chapters provide an opportunity for members to become involved in the Society at the local level. Members, who otherwise might not be able to participate into the Society level, can further their knowledge of the industry, network with others in the same industry, mentor younger members and contribute to their community at large through Chapter programs. Opportunities abound for active chapter members, even if they are unable to attend national meetings. Every year, each region hosts a CRC (Chapter Regional Conference) which allows members to meet and interact with national officers of the Society.