



Region XIII

# Region XIII Newsletter

The newsletter of Region XIII of  
The American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

▪ <http://ashrae-region13.org> ▪ E-mail: [info@ashrae-region13.org](mailto:info@ashrae-region13.org) ▪

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### Editor:

T. K. Chan  
([tkc.hk@pbasia.com](mailto:tkc.hk@pbasia.com))

### Associate Editor:

Sam C. M. Hui  
([cmhui@hku.hk](mailto:cmhui@hku.hk))

### By Post:

Editorial Board  
Region XIII Newsletter  
P.O. Box 35612  
King's Road Post Office  
North Point  
Hong Kong, China

## Welcome: The Sixth of Thirteen

Vincent K. C. Tse

Director and Regional Chair

It has come to the middle of ASHRAE year 1999 / 2000 at the time of publication of this newsletter. There are plenty of exciting activities held within the Region in the past few months which I would like to share with you all here.

### New Chapter / Student Branches

The formation of ASHRAE Thailand Chapter was approved by ASHRAE's Board of Directors at the 2000 ASHRAE Winter Meeting held on February 5 - 9, 2000 in Dallas, Texas. This is a key event in 1999 - 2000. The Thailand Chapter charter night will be scheduled on 27 March 2000 in Bangkok. The next potential chapters coming up would be Beijing and Shanghai. Beijing ASHRAE members were organized to meet with Society President-Elec Jim Wolf in December 1999.



Charters were also granted to two new Student Branches in this region: City University of Hong Kong Student Branch sponsored by the Hong Kong Chapter and National Taipei University of Technology Student Branch sponsored by Taiwan Chapter. Malaysia University is also encouraged to form a student branch. With the formation of Thailand Chapter (located in Bangkok), Region XIII now has six Chapters, namely, Hong Kong, Malaysia, Philippines, Singapore, Taiwan and Thailand.

### Chapter Visits

In the past few months, I have visited Malaysia Chapter in July 99, Thailand Chapter (together with Malaysia Chapter President) in August 99 and November 99, Philippines Chapter (together with Society President Bill Goodman, Frank Coda and ARC) in August 99, Singapore Chapter in October 99, Taiwan Chapter (together with ARC, RVCs) in November 99.

### Regional Planning Meetings (RPMs)

Two RPMs have been scheduled. The first one was held on November 30, 1999 in Taiwan. Totally 14 participants from Singapore (2), Taiwan (6), Malaysia (2) and Hong Kong (4) were present. The second RPM will be held on June 8, 2000. Apart from the RPM, three Chapter Officer Training workshops have been scheduled in Taiwan (November 30, 99), Philippines (March 4, 2000) and Thailand (March 27, 2000).

### Chapters Regional Conference (CRC) / Asia Pacific Conference (APC)

Two major events were held in August and November 99, namely CRC 99 in Hong Kong and the Asia Pacific Conference in Taiwan. Please refer to separate paragraphs in this Newsletter reporting details of these two events.

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## 1999 Asia Pacific Conference on the Built Environment



\* Regional Planning Meeting held in Taipei on 29 November 1999. First row (from left to right): WONG Wai Kwong (HK), Jimmy WANG (Taiwan), Vincent TSE (HK), CHAO Uen-Hua (Taiwan), NG Yong Kong (Malaysia) and CHEN Siew Ik (Singapore). Second row: Philip YU (HK), T T CHOW (HK), Robert HU (Taiwan), Sunny TAN (Singapore), WONG Yew Wah (Singapore) and C S OW (Malaysia).

The 1999 Asia Pacific Conference on Built Environment was held on November 29, 1999 to December 2, 1999 in Taipei, Taiwan. The Conference was organized by the ASHRAE Taiwan Chapter and the local HVAC bodies in Taiwan. Other Chapters in the ASHRAE Region XIII have also supported and attended this interesting event. Information about the Conference can be found in the web site: "<http://engnet.com.tw/ashrae.htm>".

A Regional Planning Meeting (RPM) was held on November 29, 1999 and it was agreed that the two most important events of the Region, that is the Chapters Regional Conference (CRC) and the Asia Pacific Conference (APC), will be held every year in different locations. Normally, the CRC will be held in the last week of August and the APC will be held in the first week of December. A RPM will

be organized in conjunction with the APC and another RPM will be held in the first week of June at the upcoming CRC location to ensure continuity. A proposed schedule of events (tentative) is shown below.

Year	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
CRC	--	Sing	HK	Mal	Tw	Ph	Th	Sing	HK	Mal
APC	Mal	--	Tw	--	Sing	HK	Mal	Tw	Ph	Th

Note: HK = Hong Kong; Mal = Malaysia; Ph = Philippines; Sing = Singapore; Th = Thailand; Tw = Taiwan.

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## Chapters Regional Conference '99



\* Technical Seminar held at the CRC'99 (from left to right): Mr. Victor Yiu (Chairman of the Seminar) and guest speakers Ms. Eileen Duigan-Woods, Mr. Thomas Hartman and Mr. Joseph K. Ting.

The Hong Kong Chapter hosted the second Chapters Regional Conference (CRC) of ASHRAE Region XIII on August 27-28, 1999 at Kowloon Shangri-la Hotel, Hong Kong. The event was attended by more than 190 persons including ASHRAE President Mr. Harley W. Goodman, three other society officers (Mr. Ray Patenaude, Mr. Frank Coda and Mr. Jose Reig), three officers from other ASHRAE Regions (Region I - Mr. Gus Mastro, Region IV - Mr. Keith Newcomer and Region X - Mr. Dean Borges), representatives from 12 ASHRAE Chapters around the world, and many local participants.



\* Business Session, from left to right: Mr. Ray Patenaude (Society Vice President), Mr. Harley W. Goodman (Society President) and Mr. Vincent Tse (Region XIII Director and Regional Chairman).

Events conducted during the CRC included Overseas/New Chapters' Officers Orientation, Technical Seminar, Presidential & Employer Recognition Luncheon, Business Sessions, Orientation/Caucus, Banquet, and Chapter Operation & PAOE Workshop. Further information about the event can be found in the following web site: "<http://www.ashrae.org.hk/CRC99/>".

The CRC 2000 will be held on August 25-26, 2000 in Kuala Lumpur, Malaysia.

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# New ASHRAE Standards 90.1-1999 and 62-1999



After ten years of development, three public reviews, and over 80,000 comments, the new ASHRAE Standard 90.1, entitled "Energy Standard for Buildings Except Low-Rise Residential Buildings", is published as ASHRAE/IESNA Standard 90.1-1999 (IESNA = Illuminating Engineering Society of North America). The new Standard 90.1 contains extensive revisions to all sections, and is completely replacing Standard 90.1-1989. Changes to the new Standard include both format and technical content changes. Accompanying the new Standard is a User's Manual (with additional information on using the Standard) and ASHRAE Guidelines (for users interested in going beyond the standard in terms of energy efficiency; will be published later).

#### What's New in Standard 90.1-1999

- ◆ Written in mandatory, enforceable language suitable for code adoption
- ◆ Both IP and SI units included in the Standard
- ◆ Expanded climate data to accommodate international locations
- ◆ Expanded scope to include coverage of alternations and additions to existing buildings
- ◆ Envelope prescriptive requirements summarized in a single table for any climate location
- ◆ True prescriptive option for building envelope requirements
- ◆ Default U-factor tables for envelope assemblies to reduce calculations
- ◆ Simplified options for complying with mechanical requirements suitable for small buildings
- ◆ New mechanical equipment types added
- ◆ Enhanced efficiency requirements for most mechanical equipment
- ◆ Mechanical section significantly reorganized for simplicity
- ◆ Revised lighting power density tables
- ◆ "Use it or lose it" allowance for decorative lighting
- ◆ Significantly revised Energy Cost Budget (ECB) section
- ◆ Requirements for compliance supplement to reduce "gaming" in the ECB section

The new ASHRAE Standard 62-1999 was developed to recognize the increased knowledge and awareness in the area of indoor air quality (IAQ) since publication of the previous 1989 edition. As compared with the 1989 edition, the new release incorporates several addenda and important changes that are consistent with the previous versions of ASHRAE 62 in scope and philosophy.

#### What's New in Standard 62-1999

- ◆ Written in code-compatible language
- ◆ Thermal comfort requirements (temperature and humidity) are removed, since ASHRAE Standards 55 already covers this subject
- ◆ Caveats are added to the scope stating that for a variety of reasons, acceptable indoor air quality may not be achieved in all buildings meeting the requirements of this standard
- ◆ Environmental tobacco smoking is no longer included implicitly in ventilation rates
- ◆ Clarify the fact that CO<sub>2</sub> is simply a useful indicator of the concentration of human bioeffluents (the previous standard led many users to misunderstand that CO<sub>2</sub> was itself a comprehensive indicator of IAQ and a contaminant with its own health impacts)
- ◆ Prescriptive ventilation rates are based on both a "building component" and a "people component" of indoor pollution
- ◆ Ventilation is based on occupant perception rather than visitor perception in order to provide a balance of health and safety with energy use
- ◆ New instructions are given for construction, startup, renovation, and maintenance

\* ASHRAE uses "continuous maintenance" procedures on those standards most impacted by rapid changes in technology. These two new standards have been placed under continuous maintenance which is a standards writing process that permits updating through public review of specific portions or sections of the standard as needed.

## Regional & Society Events

### March 2000

March 4 (Sat)  
Chapter Officer Training Workshop, Philippines

March 27 (Mon)  
Chapter Officer Training Workshop, Thailand

### June 2000

June 8 (Thu)  
2nd Regional Planning Meeting  
Kuala Lumpur, Malaysia

June 24 – 28 (Sat – Wed)  
ASHRAE Summer Meeting, Minneapolis, MN

### August 2000

August 25 – 26 (Fri – Sat)  
ASHRAE Region XIII Chapters Regional Conference  
2000, Mandarin Oriental, Kuala Lumpur, Malaysia

### January 2001

January 27 – 31 (Sat – Wed)  
ASHRAE Winter Meeting, Atlanta, GA

### June 2001

June 23 – 27 (Sat – Wed)  
ASHRAE Summer Meeting, Cincinnati, OH

### August 2001

August 25 – 26 (Sat – Sun)  
ASHRAE Region XIII Chapters Regional Conference  
2001, Taipei, Taiwan

### December 2001 (Tentative)

Asia Pacific Conference / 2nd Regional Planning  
Meeting, Singapore

### January 2002

January 12 – 16 (Sat – Wed)  
ASHRAE Winter Meeting, Atlantic City, NJ

### June 2002

June 2002  
June 22 – 26 (Sat – Wed)  
ASHRAE Summer Meeting, Honolulu, HI

### August 2002

August 29 – 30 (Sat – Wed)  
ASHRAE Region XIII Chapters Regional Conference  
2002, Manila, Philippines

### December 2002 (Tentative)

Asia Pacific Conference / 2nd Regional Planning  
Meeting, Hong Kong

### August 2003 (Tentative)

ASHRAE Region XIII Chapters Regional Conference  
2003, Thailand

### December 2003 (Tentative)

Asia Pacific Conference / 2nd Regional Planning  
Meeting, Malaysia

### August 2004 (Tentative)

ASHRAE Region XIII Chapters Regional Conference  
2004, Singapore

### December 2004 (Tentative)

Asia Pacific Conference / 2nd Regional Planning  
Meeting, Taiwan

### August 2005 (Tentative)

ASHRAE Region XIII Chapters Regional Conference  
2005, Hong Kong

### December 2005 (Tentative)

Asia Pacific Conference / 2nd Regional Planning  
Meeting, Philippines

### August 2006 (Tentative)

ASHRAE Region XIII Chapters Regional Conference  
2006, Malaysia

### December 2006 (Tentative)

Asia Pacific Conference / 2nd Regional Planning  
Meeting, Thailand

## ASHRAE Region XIII Officers and Chapter Presidents

Director and Regional Chairman (DRC): Assistant Regional Chairman (ARC): Regional Vice Chairmen (RVC): <ul style="list-style-type: none"> <li>• Chapter Program</li> <li>• Membership Promotion</li> <li>• Research Promotion</li> <li>• Student Activity</li> <li>• TEGA</li> <li>• Refrigeration</li> </ul> Newsletter Editor: Historian: Nomination & Award:	Mr. Vincent Tse (Hong Kong) Mr. W. K. Wong (Hong Kong)  Mr. Philip Yu (Hong Kong) Dr. Jimmy Wang (Taiwan) Dr. C. S. Ow (Malaysia) Mr. Sunny Tan (Singapore) Mr. Y. W. Wong (Singapore) Mr. Bernard Loh (Malaysia) Mr. T. K. Chan (Hong Kong) Mr. Henry Lee (Singapore) Dr. E. H. Ng (Singapore) and Mr. H. Y. Hing (Malaysia)	Two unofficial officers of Region XIII: <ul style="list-style-type: none"> <li>• Meeting Secretary - Mr. T. K. Chan (Hong Kong)</li> <li>• Regional Treasurer - Mr. S. K. Lee (Singapore)</li> <li>• Regional Webmaster - Dr. Sam Hui (Hong Kong)</li> </ul> Chapter Presidents (1999-2000): <ul style="list-style-type: none"> <li>• Hong Kong                      Dr. T. T. Chow</li> <li>• Malaysia                        Mr. Adrian Tan</li> <li>• Philippines                     Mr. Silvestre Penasales</li> <li>• Singapore                        Mr. S. I. Chen</li> <li>• Taiwan                            Mr. U. H. Chao</li> <li>• Thailand                         Mr. ????</li> </ul>
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