



# Region XIII Newsletter

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

Region XIII

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## DRC'S Message to Region XIII

C. S. Ow

Director and Regional Chair

### Introduction

I would like to wish all Region XIII members a warm welcome to 2005 albeit that the two countries within our region faced the wrath of tsunami towards the end of 2004, namely Thailand and Malaysia. Much has been heard from local and foreign news about the effects of Tsunami on coastal areas of Thailand and Phuket Island, Penang and Langkawi Island as well as northwest coastal areas of Malaysia. Efforts have been made locally and abroad towards assisting the victims of Tsunami. I am glad to note both the Thailand Chapter and Malaysia Chapter have played their roles in contacting their membership who may have been affected by the Tsunami and whether they needed assistance, apparently none were affected. Individually, one would have made donations to one of several charities locally and abroad and to all who have done so or yet to do so, I thank each and everyone for your compassionate effort. In this respect I would like to thank Board of Governor, Dean Borges from Nevada, who emailed me to find out how he could assist the Tsunami disaster.

I would also like to wish all members of the region who are celebrating the Lunar New Year of the Rooster early 8-9th February 2005, a warm *Gong Xi Fa Cai*. Unfortunately, all Region XIII officers who are attending the Winter meeting shall have to be in Orlando to celebrate it this year.

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Those of you who visited the Region XIII and Singapore Chapter Webpage would have notice the successful CRC hosted by the Singapore Chapter together with the photographs for the occasion. I would like to record a work of thanks to Y P Chee the CRC chair and his committee members for a job well done. The next CRC

05 shall be hosted by Hong Kong Chapter under the leadership of Dr Phillip Yu.

Society President Ron Vallort and wife visited the Institution of Engineers Malaysia enroute to the Singapore CRC. An memorandum of understanding is forthcoming between the two societies arising from this visit.

Soon after the CRC, I had the opportunity to visit the Taiwan Chapter in September 2004. Tony Lee and his Committee as well as RVC Robert Hu were at their best trying to commission me to their way of toasting at dinners. So much for your efforts and I hope I passed that test which apparently Raymond also

underwent.

Raymond Wong, the Assistant Regional Chair attended the October 2004 Members Council meeting on my behalf and had lots of goodies "action items" for me to take care of upon his return, some of these I have emailed the Chapter chairs for their response. I would like to thank those who responded to my emails and shall report accordingly to society.

The Region Vice Chair for Resource Promotion, Yim Hon Wa attended the Joint Symposium organized by the Hong Kong Chapter in November 2004 making a luncheon address on chilled water storage system. He reported that the Philippines Chapter achieved the Full Circle Award this round, the first time in their record that they succeeded. Congratulations to the Philippines Chapter.



\* DRC's visit to Taiwan Chapter (Sept. 2004)

## Society Updates

The status of the 3 motions proposed at the August 2004 CRC in Singapore are as follows after the October 2004 Members Council meeting attended by ARC Raymond on my behalf.

- Motion that ASHRAE headquarters allow individual members to pay their late chapter dues using the ASHRAE online system was defeated.
- Motion that ASHRAE develop and add a chapter in the *ASHRAE Fundamentals Handbook* to address the issue of green and sustainable building design shall be referred to the Technology Council for consideration under a separate motion.
- Motion that the Society addresses the design of refrigeration piping especially for ammonia in the *ASHRAE Refrigeration Handbook* to be more clear and easy to use shall be referred to Technology Council for consideration under a separate motion.

Past Motions from other regions which are approved are available on the Society's webpage.

## Regional Fund

The newly appointed Regional Treasurer, Adrian Tan is trying to search for ways in which we can eventually consolidate the Regional Fund which presently is operating under the auspicious of each chapter and reflected within each chapters budget. Being a region of different countries each with their own laws on reporting of finances, I feel this is a formidable task for Adrian to carry out. Chapter treasurer could be of assistance if you can respond to his emails from time to time.

The purpose of a regional fund is to fund regional travel by Chapter Programs Chair, Refrigeration Chair, Regional Webmaster, Secretary, Treasurer etc for Regional Planning Meeting and CRCs.

## Update of Chapter Constitutions

A number of chapters within the region should have received reminders from Society to update their respective constitutions. If there are any changes or no change made, please have it reported promptly to society when requested to do so.

I am glad to report that Hong Kong Chapter has overcome its hiccup of chapter accounting policies and election procedures. An ad-hoc session was held between the parties concerned with the Society President, Ron Vallort, Vice President William Harrison, ARC Raymond Wong and myself during CRC in Singapore and as it turned out things were found to be proper except that we need to make our actions more transparent.

In the respect of operations of the Chapters, the Manual of Chapter Operations is perhaps the best reference material which society has put out and if followed closely, quite a lot of petty issues can easily be ironed out.



# Membership Promotion: Building a Stronger Society



**Robert Hu**

RVC – Membership Promotion



Speaking about the Society Goals for New Members, this year “Positive Growth Campaign” is underway now. The goal is to increase Paid Members at a rate of 6% this year. Two specific objectives have been identified:

- 1) Establish a POSITIVE growth trend in NET Paid Society Membership for the year.
- 2) Through successful promotional campaigns, increase Paid Members for the Society by 6%.

In an effort to accomplish all of these goals, below is the proposed campaign for the remaining Society year.

### **Building a Stronger Society**

*(Promotional Campaign to Increase Paid Members)*

*(January 1, 2005 to June 30, 2005)*

1. For all ASHRAE **Members** (members, associate members, and affiliate members):
  - For each new member a current member recruits (as verified by the “recruiters” signature on the prospect’s application), the recruiting member will receive the following incentives:
    - a) As before, the member will receive a coupon for \$10 that can be used for ASHRAE merchandise, can be applied toward registration to any Society event (convention registration fee, seminar fee, short course, etc.) or even toward annual dues.
    - b) The names of the recruiting members each month will be included in a random drawing for that month. The monthly winner would receive a coupon from the ASHRAE merchandise store with the value of \$40. For the monthly drawings, each entry name will be for only those that recruited a new member for the previous month. Winners will be announced on the 15th of each month following the respective drawings. Coupons will be distributed by mail to the winners. Names will be held over only for the following grand prize drawing, but not for any of the other monthly drawings.
    - c) One Grand Prize will be awarded at the end of the Society year. This again will be a random drawing of the recruiters’ names that have been put into the “hat” during the entire 6 month campaign. The more new members an existing member recruits, the greater the chancing of winning. This will truly be a Grand prize. For this prize, we would offer a \$1,000 VISA gift card. To be announced in the August 2005 Insights, as well as thought a personal phone call from Membership Promotion Chairperson.
2. For Chapter Membership Promotion Chairpersons:
  - a. Each Chapter Chairperson will also be eligible for the awards as described above for all members.
  - b. For each Chapter Chairperson that finishes the year with a positive growth in Paid Members of 6% or greater, he/she will be rewarded with a \$50 ASHRAE merchandise coupon.

Area Assigned Members as of June 30, 2004 (from ASHRAE website):

	<b>Singapore</b> (#142)	<b>Hong Kong</b> (#143)	<b>Malaysia</b> (#149)	<b>Taiwan</b> (#157)	<b>Philippines</b> (#167)	<b>Thailand</b> (#170)	<b>TOTAL</b>
<b>Members</b>	324	799	185	113	73	76	1570
<b>Students</b>	124	529	43	205	89	8	998

Note:

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# Chapters Regional Conference 2004

20-21 August 2004, Novotel Apollo Hotel, Singapore



*\* Technical visit to Esplanade (Theatre on the Bay)*



*\* Welcome Party*



*\* Host Chapter Team (Singapore)*



*\* Sawadee, let's dance the Thai manner!*



*\* Let's sing the Malaysian way!*



*\* The ladies in Region XIII*

Note: For more photos, please visit the website "<http://ashrae-region13.org/gallery.htm>"

## Brief Attendance Summary:

1. Regional delegates and participants = 110 (Society = 5, Host = 22, Other Chapters = 81, DL = 2)
2. Attendance at conference events:
  - Technical tour = 44
  - Pre-conference golf game = 40
  - Welcome Party = 145
  - Technical Seminar/Presidential luncheon = 141
  - CRC participants = 70
  - Banquet dinner = 140

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# New ASHRAE Standards on Energy and IAQ

90.1-2004 (Energy)	62-2004 (IAQ)
<p><i>ANSI/ASHRAE/IESNA Standard 90.1-2004, Energy Standard for Buildings Except Low-Rise Residential Buildings</i>, provides minimum requirements for the energy-efficient design of buildings except low-rise residential buildings.</p> <p><b>Major Changes in This Version</b></p> <p><b>General:</b></p> <ul style="list-style-type: none"> <li>• The standard has undergone a dramatic makeover, resulting in a document with a more readable format that is easier to use for practitioners.</li> <li>• New technical requirements and stringency levels are presented in a more consistent format, making them easy to find and apply to building designs.</li> <li>• The standard contains a new informative appendix to rate the energy efficiency of building designs that exceed its minimum requirements. The guidance provided in this appendix should be beneficial to HVAC designers who are trying to achieve the required points for either a Silver or Gold Leadership in Energy and Environment Design (LEED) certification of a facility. For designers who are participating in a LEED-certification design, the standard's energy cost budget method was produced in collaboration with representatives of the U.S. Green Building Council.</li> </ul> <p><b>Lighting:</b></p> <ul style="list-style-type: none"> <li>• Revised interior lighting power limits are generally more restrictive than the 2001 standard values. The values are an average of 25 percent more stringent and will require more careful lighting design in some applications.</li> <li>• A new exterior lighting section includes specific lighting power limits for a variety of exterior applications.</li> </ul> <p><b>Mechanical:</b></p> <ul style="list-style-type: none"> <li>• This section is reorganized to make it easier to read. New climate zone data further simplifies many of the mechanical requirements from economizer requirements to duct insulation.</li> <li>• Energy efficiencies were increased for fans, single package vertical units and 3-phase air-cooled air conditioners.</li> </ul> <p><b>Climate Zones:</b></p> <ul style="list-style-type: none"> <li>• The number of primary climate zones for heating and cooling was reduced to eight from 26. Each county in the United States has been mapped to a particular climate zone.</li> <li>• Reduction in the number of tables of building envelope criteria to simplify the compliance procedure.</li> </ul> <p><b>Energy Cost Budget (ECB) Method:</b></p> <ul style="list-style-type: none"> <li>• A new table reformats requirements to show the symmetry between simulations of a design building model to a budget building model in the ECB method. This makes it easier to determine the efficiency of the design.</li> </ul>	<p><i>ANSI/ASHRAE Standard 62.1-2004, Ventilation for Acceptable Indoor Air Quality</i>, specifies minimum ventilation rates and indoor air quality requirements for commercial and institutional buildings.</p> <p><b>Major Changes in This Version</b></p> <ul style="list-style-type: none"> <li>• Revision of the ventilation rate procedure to reflect recent information regarding ventilation impacts on indoor air quality and to clarify the adjustments necessary for space air distribution and system efficiency of multi-zone recirculating systems.</li> <li>• The breathing zone ventilation rate now includes both an area-related component and an occupant-density-related component, which are added together to determine the required ventilation for the space.</li> <li>• The IAQ procedure was modified by converting the material in the standard into requirements that are stated in mandatory and enforceable language.</li> <li>• The minimum ventilation rate table was revised to apply only to no-smoking spaces by deleting smoking lounges from the list of occupancy categories. Also, some rates were lowered based upon their application to no-smoking spaces only. For smoking-permitted spaces, additional (but unspecified) ventilation in excess of the rates listed in the table is required.</li> <li>• A new informative appendix, Appendix G, Application and Compliance, is included to provide guidance on when the standard applies to new and existing buildings. It also contains a code-intended language version that could be adopted by jurisdictions that have not adopted a building code.</li> <li>• The standard is written in fully mandatory and enforceable language, completing a process that began in 1997.</li> </ul>

\* ASHRAE uses "continuous maintenance" procedures on those standards most impacted by rapid changes in technology. These two 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.

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## Regional & Society Events

### Feb 2005

Feb 5 – 9 (Sat – Wed)  
ASHRAE Winter Meeting, Orlando, FL

### May 2005

May/Jun  
Regional Planning Meeting, Malaysia

### Jun 2005

Jun 25 – 29 (Sat – Wed)  
ASHRAE Annual Meeting, Denver, CO

### Aug 2005

Aug 26 – 27 (Fri – Sat)  
ASHRAE Region XIII Chapters Regional Conference,  
Hong Kong

### Nov 2005

Nov 25 – 26 (Fri – Sat)  
Asia Pacific Conference / 2nd Regional Planning  
Meeting, Manila, Philippines

### Jan 2006

Jan 14 – 18 (Sat – Wed)  
ASHRAE Winter Meeting, Chicago, IL

### May 2006

May/Jun  
Regional Planning Meeting, Taiwan

### Jun 2006

Jun 24 – 28 (Sat – Wed)  
ASHRAE Annual Meeting, Quebec City, Quebec,  
Canada

### Aug 2006

Aug (Fri – Sat)  
ASHRAE Region XIII Chapters Regional Conference,  
Malaysia

## ASHRAE Region XIII Officers and Chapter Representatives

Director and Regional Chairman (DRC): Chee Sheng OW (Malaysia)  
Assistant Regional Chairman (ARC): Raymond Wong (Singapore)  
Regional Vice Chairmen (RVC):  

- Chapter Technology Transfer Alan Lam (Hong Kong)
- Membership Promotion Robert Hu (Taiwan)
- Resource Promotion YIM Ho Wa (Malaysia)
- Student Activity Sunny Tan (Singapore)

 Nomination Committee Member: W K Pau (Hong Kong)  
 Nomination Committee Alternate: CHAO Uen Hua (Taiwan)  
 Historian: HING Fook Yong (Malaysia)  
 Treasurer: Adrian Tan (Malaysia)  
 Webmaster: Sam Hui (Hong Kong)

Chapter Delegate and Alternate (2004-2005):

- Hong Kong Tim Cheng  
T K Chan
- Malaysia ONG Ching Loon  
HEN Seak Chong
- Philippines Danilo dg. Duya  
Cezar P Punzalan
- Singapore CHUA Kim Lian  
Albert Sin
- Taiwan Tony C. S. Lee  
YANG Bing Chwen
- Thailand Piya Chongvayana  
Richakorn Chirakalwasan

## New Faces / Appointments



*Mr. Alan Lam*  
RVC – Chapter Technology  
Transfer



*Mr. YIM Ho Wa*  
RVC - Resource Promotion



*Mr. HING Fook Yong*  
Regional Historian



*Mr. Adrian Tan*  
Regional Treasurer