



Region XIII Newsletter



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

Region XIII

▪ <http://ashrae-region13.org> ▪ E-mail: info@ashrae-region13.org

August 2005

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DRC's Report

C. S. Ow

Director and Regional Chair XIII

ASHRAE Winter Meeting, Orlando, Florida, February 2005

The Orlando Winter Meeting kicked off with a hectic programme for the DRC and RVCs. Arriving on 5th Feb 05, Saturday Morning, I skipped the Members Council Operations subcommittee meeting from 8am till 12 noon due to jet lag but attended the Planning subcommittee meeting the next morning. The Saturday afternoon Plenary was well attended by all ASHRAE volunteers. Programme kicked off with a solo singing of the National Anthem followed by Honors and Awards for various categories. Robert Hu (RVC Membership Promotion) received his Fellow of ASHRAE award witnessed by wife and two kids. Felicitations to Robert Hu!!!

The Saturday evening welcome party saw President Ron Vallort and wife Carolyn Vallort shaking hand with all guests at the entrance. After that some of us adjourned to Downtown Disney for dinner (for Yim, Sam Hui, Alan Lam, Chou U H, Robert Hu and family, Pau WK, meeting at lobby of Wyndham Palace Resorts).

Sunday Morning, attended the Members Council operations subcommittee meeting from 8am till 10 am then the ad-hoc meeting between President, President-Elect LEE Burgett, Raymond Wong and 3 prominent offices from the China Association of Refrigeration (CAR), Prof Wu, Qieu, Ling focusing on issues of mutual interest and Rons visit to Beijing 10-15April this year, presenting two papers one on the Cold Chain and another on the design of refrigerated units on 11 and 12th April 05. At 1230 hrs we had BOD lunch when we witnessed the handing over of mock cheques of 10K for research promotion, and addresses by invited presidents of allied societies. Evening at 730pm we went to Ming Court for Region XIII Dinner organized by Vincent Tse. A total of 34 pax including supporters assembled at lobby of Grosvenor Resort. Dean Borges and wife, Joe Ting and the 4 CAR representatives also attended the dinner.



(* Left to right: Raymond Wong, Joe Ting, C S Ow, Vincent Tse, Dean Borges)

Monday morning Members Council chaired by Lee Burgett (PE) saw all motions from Operations and Planning Subcommittee being presented, Resource Promotion, Membership Promotion, CTTC, and Student Activities being presented at that meeting.

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DRC's Report → *Cont'd from Page 1*

Several action items for DRC were identified for each of the Region's DRC which I subsequently briefed all at the Regional Planning Meeting. Presidential Luncheon at 1230pm which followed saw Ron Vallort giving a State of ASHRAE report and the recognition of Resource Promotion donors and ASHRAE Foundation donors.

Tuesday morning 8am-1230pm continuation of Members Council meeting and a report by each DRC on Successes and Problems which each Region and the Region at Large faced. Also highlighted were the Region XIII chapters namely Singapore, Thailand and Taiwan which were delinquent in submitting Constitutions and Bylaws in line with latest amendments. Afternoon was a suitable slot for me to visit AHR exposition for the first time where a booth for complimentary internet access was pretty much fancied by many visitors. Evening was the Banquet which I attended with wife and met several people including Rizal Sardon (Past President MASHRAE) from Malaysia en-route to Denver, Kim from the Korean Refrigeration Society.

Voting on many issues took place on Wednesday afternoon focusing mainly on new committee members. Thursday morning continue with decisions on more issues till 1pm when the meeting is adjourned till Denver in June 05.

Regional Planning Meeting, 21-22 May 2005, Kuala Lumpur

The Malaysia Chapter of ASHRAE hosted the above meeting attended by 30 odd Region XIII officers, incoming Chapter Presidents of the Region and Malaysian Chapter members. The venue of the meeting was at the Federal Hotel, Jalan Bukit Bintang, where the first original revolving restaurant was sited on its 18th Floor. The first day saw reports on the activities of the region and the forthcoming CRC hosted by the Hong Kong Chapter this August. As this is to be a GREEN CRC we shall be bringing out laptops along for the use of shared files. Dr Philip Yu made a pretty good presentation of what it is going to be like with all his trial runs in Kuala Lumpur. The forthcoming Region XIII Asia Pacific Conference on Built Environment organized by the Philippines Chapter this 24th -26th November in Manila is an appropriate platform for us all to promote and support.



The next day was programmed for all training workshops namely the Chapter Operations Workshop presented by me, the Membership Promotion Workshop by Dr Robert Hu, Resource Promotion Workshop by Ir Yim Hon Wa, CTTC Workshop by Alan Lam, the Student Activities Workshop by Sunny Tan(listened on keenly by Wichai L, the incoming SA Regional Vice Chair) and the Nominating Chair and Webmaster presentations respectively. For the region we now have all the Chapter's webpage up and running and linked up with the regional webpage. Participants to this workshop especially the Malaysia Chapter new volunteers find the training most informative and useful.

Activities from Sept04-Aug05

- Visited the Taiwan Chapter in Sept 04. Met up with the some past and present board of governors of the Chapter. ARC Raymond Wong attended Oct04 Members Council meeting on my behalf.
- Attended ASHRAE Winter Meeting Feb 05. Region XIII motions disposed as follows: 2 New Student Branches for Philippines: Polytechnic Univ of the Philippines and Holy Angel University. 1 new student branch of University Malaya. Two out of three motions were referred to Tech Council. The motion on collection of dues was defeated because present computer system is incapable of performing such task.
- At own expenses, visited Pradeep Bansal of Auckland University, New Zealand in April 05; visited Hong Kong to view venue for CRC on 16th June 05 and visited Indonesia on two occasions (29-31 July and 10-13th August) meeting up with ASHRAE members who are interested to set up a chapter/section there.
- Attended the ASHRAE Annual Meeting in Denver, Colorado, USA from 23-30th June 05.

Future Events

- To attend Members Council and BOD meeting at Atlanta from 26-30th October 2005.
- To attend the Asia Pacific Conference on Built Environment Nov 05 (Manila, Philippines).

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ASHRAE Distinguished Services Award

Congratulations Raymond! Being the recipient of the Distinguished Service Award at the 2005 ASHRAE Meeting in Denver.

Raymond YW Wong received the Distinguished Service Award from ASHRAE President Ron Vallort at the 2005 Annual Meeting in Denver, Co. Raymond was DRC of Region XIII from 2001- 2005 and now serves on the Honours and Awards Committee and the Professional Development Committee at Society level.

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Student Design Project Competition

Congratulation to the students from the Thailand Chapter and Taiwan Chapter who have won the 1st and 2nd prizes, respectively, in the Refrigeration System Design category of the 2004/2005 ASHRAE Student Design project Competition. This is the second time Thailand Chapter won the 1st prize. The 1st prize winners will be given one returned air ticket to Chicago for the 2006 Winter Meeting to receive the award, attend the meeting and exposition, hotel accommodations and US\$1000 pocket money.

Winners of the Competition are:

Architectural Design

1. Lawrence Technological University
2. Savannah College of Art & Design
3. Kent State University

HVAC System Selection

1. The Pennsylvania State University
2. Kansas State University
3. Minnesota State University - Mankato (tie)
3. Ferris State University (tie)

Refrigeration System Design

1. Chulalongkorn University (Thailand)
2. National Taipei University of Technology (Taiwan)
3. Pune University (India)

The theme of the 2005 competition is the Portland's Brewery Blocks. The next Student Design Project Competition (2006) will focus on high rise residential buildings. Further information can be found on the Student Zone of the ASHRAE website.

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ASHRAE-CAR Meeting in Beijing (April 2005)



** (Standing L-R) Mrs Winnie Hu (R13), Dr Robert Hu (RVC Membership R13), Mr Raymond Wong (ARC R13), Mr Edward Tsui (HK Chapter), Mr Pau Wing Keung (Nominating R13), Mr Jing Huaqian (Dy Sec Gen CAR).*

(Seated L-R) Mr Qiu Zhongyue (Executive Dy Sec Gen CAR), Prof Wu Yuanwei (VP CAR), Mr Jin Jiawei (VP & Sec Gen CAR), Mr Ron Vallort (President ASHRAE), Mrs Carolyn Vallort (ASHRAE), Mr Pan Quisheng (VP CAR).

ASHRAE President Ron Vallort was in Beijing April 2005 for the CAR Exhibition at the invitation of the China Association of Refrigeration (CAR). He made a presentation on Refrigeration and the Cold Chain at the technical seminar. Prior to the exhibition, he met with senior members of CAR to discuss collaboration between ASHRAE and CAR in technical activities and membership promotion. The ASHRAE team included Carolyn Vallort, and members from Region 13 comprising Robert Hu (RVC Membership Promotion), Raymond Wong (ARC), W.K. Pau (Nominating member) and Edward Tsui (Governor, HK Chapter).

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Status of CRC Motions

Hong Kong Chapter – Motion 16 (10/09/04):

That ASHRAE headquarters allow individual members to pay their late chapter dues using the ASHRAE online system.

Members Council defeated this motion because our current system zeroes out the chapter dues once the Society dues are paid. This is not feasible with our current payment system. We will request that our new Association Management Software allows this feature but cannot guarantee until we see the software system.



Hong Kong Chapter – Motion 32 (10/09/04) Referred to Technology Council:

That ASHRAE develop and add a chapter in the ASHRAE Fundamentals Handbook to address the issue of green and sustainable building design.

Answer (15-Jul-05): This motion was referred to TC 2.8, which reported at the Annual Meeting in Denver that they have begun a rewrite of their existing Handbook of Fundamentals chapter “Energy Resources” (Chapter 17). They held a forum in Denver on what is needed in the revised chapter. They intend to add a significant amount of information on green and sustainable design, referencing other HOF chapters and including new material not now in the Handbook.

While Tech Council will continue to follow this item we consider our response complete and that this item is closed.

Thailand Chapter – Motion 33 (10/09/04) Referred to Technology Council:

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.

Status Open (01/20/05): Technology Council referred this motion to TC 10.3 with a request to address the design of refrigeration piping for ammonia in the ASHRAE Refrigeration Handbook so that it is more clear and easy to use. Progress should be reported back to Technology Council.

Philippines Chapter – Amended Motion 23A (10/18/03) Referred to Technology Council:

That ASHRAE prepare an interior air quality standard for surface transportation vehicles.

Answer (15-Jul-05): This motion was originally referred to the Standards Committee in January 2004 and then to the Board Policy Committee on Standards; it was subsequently referred to TC 9.3 for consideration at the June 2004 Annual Meeting in Nashville. It was noted then that GPC 23P was developing a guideline for rail passenger cars.

In July 2004 TC 9.3 responded that a guideline would be more appropriate than a standard and that they were considering separate guidelines for automotive, bus, and ship systems. However, they believed they didn’t have sufficient expertise on the TC regarding bus and ship systems to start the guideline process. Their priorities are: rail (underway as G23P), automobiles, ships, and finally buses, as determined by expertise on TC 9.3. It was suggested that volunteers be solicited from Region XIII members but I don’t know whether this has occurred.

TC 9.3 further discussed this at their meeting in Orlando in February 2005 and again at their Denver meeting last month. They report that they plan to draft a Title, Purpose, and Scope for a guideline on IAQ in public surface transportation vehicles for consideration at the October 2005 meeting of Technology Council.

Although it has take a while, TC 9.3 has been quite responsive to the Philippines Chapter request and it now looks like the requested guideline is about to begin. While Tech Council will continue to follow this item we consider our response complete and that this item is closed.

Hong Kong Chapter – Amended Motion 24A (10/18/03) Referred to Technology Council:

That ASHRAE conduct research and devise standards or guidelines in HVAC system design with consideration of minimization of transmission and proliferation of Severe Acute Respiratory Syndrome (SARS) in indoor environments.

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Status of CRC Motions → *Cont'd from Page 4*

Secretary's Note: Amended Motion 24A was referred to the Technology Council with the endorsement that the appropriate Technical Committee address how ASHRAE can have a positive impact on this issue.

Answer (10/25/04): The Technical Activities Committee (TAC) referred this motion to TC 9.6 (Healthcare Facilities), with advisories to the Research Administration Committee (RAC) and the Standards Committee. TC 9.6 agreed that the topic of SARS is worthy of ASHRAE research and is adding it to its research agenda. The next step for the TC is normally to prepare a Research Topic Acceptance Report (RTAR) (a pre-Work Statement) for review by RAC. However, at the Tech Weekend meeting of Technology Council earlier this month it was agreed that the topic of SARS should have high priority in ASHRAE for research and possible development of a standard or guideline. Thus the Oversight Subcommittee of Technology Council was assigned an action item to work with TC 9.6 to develop an expedited Work Statement on research in support of a standard or guideline on HVAC system design to minimize the transmission of airborne viruses (including SARS). It is expected that a Work Statement will come forward at the Winter Meeting in Orlando and will soon result in an ASHRAE research project. Thus we consider the Hong Kong Chapter's request to be fulfilled and that this item is closed. **(Complete)**

Malaysia Chapter – Motion 25 (10/18/03):

That Society increase the number of Distinguished Lecturer visits to all the Regions.

Regions Council Note: Regions Council did not support this motion but will forward the motion as an information item to the Chapter Programs Committee including the following note.

Note: This motion is a good one however, the Chapter Programs Committee should first take action to ensure that the visits already allocated are used. This could be accomplished by the following actions:

1. A date could be set by the Committee for RVCs to have all DL visits for the Society year confirmed. Regional allocations which have not been confirmed by the deadline would be reallocated. This would ensure maximum utilization of the visits already allotted.
2. An additional visit was allocated to each region for 2003-04 exclusively for a DL visit at each CRC. Only four of the ten regions which had Fall 2003 CRCs had DLs scheduled. The remaining six allotted DL visits are unused and could be reallocated for 2003-04.

We had confirmed all of the allocated visits for several regions and the RVCs have requested reallocation of unused visits from other regions. If we had a reallocation deadline, we could address their needs and then justify the allocation of additional visits. See the current 2003-04 DL Participation & Expense Report.

Hong Kong Chapter – Motion 51 (10/18/03):

That Society offers to each chapter for their library operation one copy each of all ASHRAE Standards and Guidelines and their future revisions at cost.

Status: This motion was postponed until the 2004 Winter Meeting in Anaheim, California.

Regions Council defeated this motion because of the fiscal impact. **(Complete)**

Hong Kong Chapter – Motion 26 (10/18/03) Referred to Publishing and Education Council:

That Society make available to all ASHRAE members read-only access on the internet of all ASHRAE Standards and Guidelines.

Answer (10/06/04): Publishing Council determined that it would be too expensive to make all standards available in read-only access on the internet (cost approximately \$500 each) but they will make the most popular standards (continuing maintenance standards) available in read only as the new updates become available.

(01/10/05) Additional information for Motion 26: Acting on a recommendation by the Special Publications Committee, the Publishing Council at the June meeting decided against implementing the request. The council was concerned that a substantial negative fiscal impact would result. In the 2003-2004 Society year, the approximate revenue from the sale of Standards was \$694,700. Royalty income from Standards adds another \$100,000 plus income.

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Status of CRC Motions → *Cont'd from Page 5*

Plus there is a \$200 **per Standard** posting fee (to be incurred each time a Standard is posted, including for addenda or erratas) and a \$10 **per Standard monthly** hosting fee. The Publishing Council expressed serious concerns about the potential loss of income and the cost. The council did not have enough information regarding the positive fiscal impact on increased membership or the perceived membership benefit of such broad access to counter its concerns. Furthermore, there may be other possibilities to consider such as read-only access for a fee, but more information would be needed. Members Council may wish to refer this suggestion to other appropriate committees or councils for additional information and comments. It should be noted that ASHRAE is currently planning to provide free read-only access to the code intended Standards (Standards 62.1, 62.2, 90.1, 90.2). **(Complete)**

Hong Kong Chapter – Motion 48 (10/19/02) Referred to Technology Council:

That ASHRAE change the name of “Kowloon” to “Hong Kong” as shown in the “Station of Cooling and Dehumidification Design Conditions – World Locations in Table 3B” for future Fundamentals handbooks. It is also applicable for all relevant ASHRAE publications for future revisions in the Society.

Answer: TC 4.2 has determined that the official name of the “Kowloon” weather site has been changed to “Hong Kong” in the official World Meteorological Organizations location identifiers. Therefore, TC 4.2 will change the name of this location in the next edition of the Handbook of Fundamentals. **(Complete)**

Philippines Chapter Motion 50 (10/19/02) Referred to Technology Council:

That ASHRAE make a study and develop Safety Standards in using Hydrocarbon refrigerants for commercial and residential refrigeration systems.

Answer: The Standards Committee reports that safety standards for hydrocarbon refrigerants are already included in ASHRAE Standard 15-2001 Safety Standard for Refrigeration Systems. Hydrocarbons are addressed as Group A3 in Table 1 of Standard 15. No further action is necessary. **(Complete)**

Hong Kong Chapter – Motion 43 (10/06/01) Referred to Technology Council:

That ASHRAE increase its research on weather and cooling load data (such as detailed hourly design day data as well as a façade data for buildings, including combinations of building materials) in hot humid climate regions, and that the research results be printed in relevant ASHRAE publications for reference by members and other related professionals.

Answer (05/12/03): TC 4.2 (Weather Data) has responded that it is taking steps to provide expanded hot and humid climate region weather data and information in the Handbook of Fundamentals. New Tables 4A and 4B of monthly design data, introduced in Chapter 27 of the 2001 HOF, will be expanded to include all locations in future Handbook editions. In addition, information will be provided on how to compile a 24-hr design profile using the data in these tables.

Weather data in Chapter 27 are based on the availability of historical records for specific locations. ASHRAE research project 890-RP provided new data from the National Climatic Data Center (NCDC) for the 1997 HOF. These data included weather observations for many international sites since NCDC is the World Meteorological Organization Data Center that collects data from national weather services throughout the world. Current research project 1273-RP will update that NCDC, which is expected to expand to an increased number of sites.

TC 4.4 (Building Materials and Envelope) points out that information on the design and selection of building envelope components is included in Chapters 23, 24, and 25 of the 2001 Handbook of Fundamentals, as well as Chapter 42 (Building Envelopes) of the 1999 Applications volume. Furthermore, Standards Project Committee 160P (Design Criteria for Moisture Control) is developing a standard that will specify performance-based design criteria for predicting, mitigating, or reducing moisture damage to the building envelope, materials, components, systems, and furnishings depending on the climate, construction type and system operation. In support of this standard TC 4.4 is developing an ASHRAE research project Work Statement on “Environmental Weather Loads for Hydrothermal Analysis and Design of Buildings,” which will address moisture control in the building envelope.

Finally, TC 4.4 invites proposals for their consideration regarding additional specific design information for building envelopes that may be needed. **(Complete)**

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Regional Planning Meeting

21-22 May 2005, Federal Hotel, Kulua Lumpur, Malaysia



* Golf players (pre-meeting)



* Welcome Dinner



* At the meeting



* "We need your help" - CRC 2005 Chair (Philip Yu)



* Region XIII officers and people



* Group photo

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New Student Branches

Two student branches were setup for Philippines: (a) Mapua Institute of Technology (MAPUA) Student Branch and (b) Polytechnic University of the Philippines (PUP) Student Branch. One new student branch for Malaysia: University of Malaya Student Branch. One new student branch will be set up soon for Hong Kong: Hong Kong University of Science and Technology (HKUST) Student Branch.

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Regional & Society Events

Aug 2005

Aug 26 – 27 (Fri – Sat)
ASHRAE Region XIII Chapters Regional Conference,
Hong Kong (<http://ashrae-region13.org/crc2005.html>)

Nov 2005

Nov 25 – 26 (Fri – Sat)
Asia Pacific Conference / 2nd Regional Planning
Meeting, Manila, Philippines (<http://apc.dlsu.edu.ph/>)

Jan 2006

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

May 2006

May/June
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): Steven TOH (Malaysia)
Regional Vice Chairmen (RVC):

- Chapter Technology Transfer: Alan Lam (Hong Kong)
- Membership Promotion: Robert Hu (Taiwan)
- Resource Promotion: YIM Hon Wa (Malaysia)
- Student Activity: Wichai Laksanakorn (Thailand)

 Nomination Committee Member: CHAO Uen Hua (Taiwan)
 Nomination Committee Alternate: Eric Moreno Panzo (Philippines)
 Historian: HING Fook Yong (Malaysia)
 Treasurer: Adrian Tan (Malaysia)
 Webmaster: Sam Hui (Hong Kong)

Chapter Delegate and Alternate (2005-06):

- Hong Kong: T K Chan, Sam Hui
- Malaysia: HEN Seak Chong, CHEA Swei K
- Philippines: Cezar P Punzalan, Rosendo C Perez
- Singapore: Albert Sin Yew T, Steven C LEONG
- Taiwan: YANG Bing Chwen, TU Shih-Ta
- Thailand: Richakorn Chirakalwasan, Apichit Lumlertpongpana

New Faces / Appointments



Sunny C L Tan

After serving six years (1999 – 2005) in the ASHRAE Student Activities Committee, Sunny C L Tan of Singapore Chapter has retired from the post of Region XIII RVC for Student Activities. Although Sunny may have retired from the post of RVC, but he has not retired from his work in the Student Activities Committee, as Sunny has been reappointed by ASHRAE President-elect Lee W. Burgnett as the Consultant in the Student Activities Committee at the Society level.



Wichai

Wichai Laksanakorn of Thailand Chapter has been elected by Region XIII and appointed by ASHRAE President-elect Lee W. Burgnett as the new Region XIII RVC for Student Activities as from 1st July 2005 for a period of three years. He is the proprietor of W. & Associates Consultant Co. Ltd. which provides M&E consulting engineers, building M&E system designs (including the tallest building in Bangkok!). Wichai is also interested in aviation and loves to fly.

Chapters in Region XIII may refer to Wichai for any matters regarding ASHRAE Student Activities, alternately you may refer to Sunny Tan whom we are sure is more than willing to give a helping hand.

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< For latest info, please visit <http://ashrae-region13.org> >