

ASHRAE Region XIII  
13th Chapters Regional Conference  
27-29 August 2010

*Presents*

1st CRC in Singapore  
14-15 August 1998  
Traders Hotel  
CRC Chair: Mr Henry Lee



# 1<sup>st</sup> CRC Activities



Technical Talk by Mr Richard Charles, Society Presidential Member



Lead Table (Standing L to R) Dr S.L. Chan, Kwan Yee Siwan Delegate; K C Delegate; Mr Richard Charles, Society Presidential Member; General Chair; Alan Lau, Delegate  
Lee Teh, Singapore Delegate; George Jackins; First Vice President; Vincent, Delegate and DRC Vincent



Business session

Banquet Dinner



# Delegates received souvenirs

## Hong Kong



## Malaysia



## Singapore



## Taiwan



# CRC Group photos





2nd CRC in Hong Kong  
27 - 28 Aug 1999  
Shangri-La Hotel  
CRC Chair: Dr Roger Chu





Technical Seminar



Committees Workshop



Society President's Address



Banquet Dinner



More toasting ...





# Group photo



3rd CRC in Malaysia  
25 - 26 Aug 2000  
Mandarin Oriental Hotel  
CRC Chair: Mr Adrian Tan







## Host & Awards Lunch



Committee Workshop



One of those meetings...



Regional Planning Meeting



Relaxed moment ...





4th CRC in Taiwan  
14 - 15 Sep 2001  
Howard Plaza Hotel  
CRC Chair: Dr Chao Uen Hua





Technical Seminar



Business Session 1



Presidential Lunch



Cultural shows



# CRC Participants





Happy times  
together ...





5th CRC in Philippines  
5 - 8 Sep 2002  
Manila Midtown Hotel  
CRC Chair: Mr Eric Panzo





Technical Seminar



Director, Carolyn Kettering



Society President Richard Rooley



Business session



# Region XIII DRC, A/P Raymond Wong's Address



6th CRC in Thailand

19 - 20 Sep 2003

The Grand Hotel, Bangkok

CRC Chair: Mr Chaiyan Salicupt







Pre-CRC Golf



Technical Seminar



Welcome party



Presidential Lunch



# Banquet Dinner





# Committee Workshops



7th CRC in Singapore  
20-21 August 2004  
Apollo Hotel

CRC Chair: Mr Chee Yan Pong





## 5. Primary Variable Speed



ASHRAE - REGION XIII  
7th CHAPTERS REGIONAL CONFERENCE  
20 - 21 August 2004, Novotel Apollo Hotel, Singapore  
**Banquet Dinner**



ASHRAE - REGION XIII  
7th CHAPTERS REGIONAL CONFERENCE  
20 - 21 August 2004, Novotel Apollo Hotel, Singapore  
**ASHRAE Presidential Luncheon**



ASHRAE - REGION XIII  
7th CHAPTERS REGIONAL CONFERENCE  
20 - 21 August 2004, Novotel Apollo Hotel, Singapore  
**ASHRAE Banquet Dinner**





Summary of Regional Delegates & Participants

S/N	Region	Package				
		A	B	C	D	Golf
1	Society			3	2	3
2	Hong Kong	1	2	12	4	
3	Malaysia		10	4		2
4	Taiwan		1	9		1
5	Philippines		3	1	18	
6	Thailand	5		6	5	1
7	Singapore (Host Chapter)			13	3	13
8	S'pore (Organising comm.)			4	2	
9	Distinguished Lecturers			2		
Total		6	16	54	34	20

$B + C = 70$   
 $A + B + C + D = 110$



Summary Table

Our Fair ASHRAE Ladies



ASHRAE REGION XIII  
7th CHAPTERS REGIONAL CONFERENCE  
20-21 AUGUST 2014, Singapore Convention Centre  
ASHRAE Business Session



8th CRC in Hong Kong  
25 - 26 Aug 2005  
Shangri-La Hotel  
CRC Chair: Philip Yu















**ASHRAE REGION XIII 8<sup>TH</sup> CHAPTERS REGIONAL CONFERENCE  
HONG KONG  
26-27 AUGUST 2005**







# ASHRAE REGION XIII 8<sup>TH</sup> CHAPTERS REGIONAL CONFERENCE HONG KONG

26-27 AUGUST 2005





9th CRC in Malaysia  
25 - 26 Aug 2006



Sunway Lagoon Resort, Petaling Jaya  
CRC Chair: Mr Ng Yong Kong



TOURISM  
MALAYSIA

Malaysia  
2009

# ASHRAE Region XIII 10th Openers Regional Conference 2009







# ASHRAE Region XIII 9th Chapters Regional Conference 2006

Bandung





Happy Gatherings





ASHRAE MALAYSIA

# ASHRAE Region XIII Chapters Regional Conference 2006

ASHRAE REGION XIII

10th CRC in Taiwan

3 - 4 Aug 2007

Howard Plaza Hotel, Taipei

CRC Chair: Mr JF Chow





ASHRAE REGION XII  
16<sup>th</sup> CHAPTERS REGIONAL  
CONFERENCE  
10/17/2012 - 10/19/2012

# Society Update

rel





## Technical Seminar







# Cultural Show



ASHRAE Taiwan Chapter





ASHRAE REGION XII  
10<sup>th</sup> CHAPTERS REGIONAL  
CONFERENCE  
Business Session III



11th CRC in Philippines

29 - 30 Aug 2008

SMX Convention Center, Manila

CRC Chair: Mr Cesar Luis DL Lim







# Happy ASHRAE Families





New ASHRAE  
Friends





## Business Session



12th CRC in Thailand

21 - 22 Aug 2009

Swissotel Le Concorde, Bangkok

CRC Chair: Dr Piya









AMERICAN SOCIETY OF REFRIGERATING AND AIR CONDITIONING ENGINEERS  
CHAPTER





## CONCLUSIONS

1. Low cooling load can achieved by it's
2. DDC system saves electricity expense significantly
3. District cooling service provide concept is suitable for government project
4. Fund saving is professional team work
5. Weight building is the key
6. DMECC is the key
7. B2 ratio should be considered
8. Window to wall ratio should be controlled
9. Thermal unit provides flexibility during fit out
10. Transport of cooling energy by chilled water is better than by air

Technical

Energy Conservation





**ASHRAE Region XIII 12th Chapters Regional Conference**

**August 21-23, 2009**

**Swissôtel *Le Concorde*, Bangkok**

**Presidential Luncheon & Awards Presentation**







# ASHRAE Region XIII 12th Chapters Regional Conference

August 21-23, 2009

Swissôtel **Le Concorde**, Bangkok



# The End

Region XIII web-site  
[www.ashrae-region13.org](http://www.ashrae-region13.org)