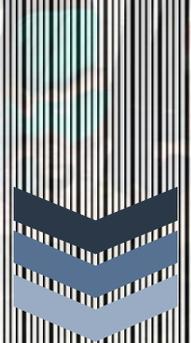




ASHRAE LINK



The Newsletter of ASHRAE Hong Kong Chapter

JANUARY 2016

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President's Message



I am greatly honored to be elected and appointed as the 32nd President of ASHRAE Hong Kong Chapter. I would firstly like to extend my sincere gratitude to our Outgoing President, *Mr. CHAN Hei Kin, Thomas* for his dedication and commitment.

At the beginning of this year term, I have addressed our Strategic Plan of ASHRAE Hong Kong Chapter in the Retreat. The plan focuses on Professional Recognition, Long Term Collaboration, Membership and Chapter Operations with the objective of strengthening our leadership role of professional society in HVAC&R industry and providing value to our membership as we strive to meet our goal of shaping tomorrow's built environment today.

Our committees have contributed their collective efforts on implementation of the Strategic Plan with the following major highlights: Facebook Page of ASHRAE Hong Kong Chapter has been officially launched on 1 July 2015 for better communications among our Chapter, members and even non-members which is in line with the Presidential theme "Making Connections" addressed by our Society President, *Mr. David Underwood*. In addition, we are focusing to promote Building Energy Quotient (bEQ) and ASHRAE Certified Professionals to government & industries. Mentoring Scheme on "ASHRAE Professional Certification Programs" has firstly launched for members who are interested in being ASHRAE Certified Professionals. I wish all the applicants of this mentoring scheme can pass the exams and will be ASHRAE Certified Professionals in this year term.

Moreover, I would like to share with our happiness that the 13th Asia Pacific Conference on the Built Environment with a title of 'Next Gen Technology to make Green Building Sustainable' was successfully held at Crowne Plaza Kowloon East Hotel on 19-20 November 2015. It is our great honour to have our Society President, *Mr. David Underwood* and the friends from ASHRAE Region XIII to join this Conference as well as other activities: Technical Visit, RP Walk and BBQ Gathering after the Conference.

Our members are the backbone of the Society and Chapter. We definitely need members' continuous support and participation to make our chapter a greater success. I hope all members can enjoy our events this year. I am looking forward to meeting all of our members in upcoming events.

Yours sincerely,



Dr. WONG Chun Sing
President (2015-2016)
ASHRAE Hong Kong Chapter



Officers, Governors & Committee Chairs 2015-2016

President	Dr. WONG Chun Sing	Attendance Chair	Mr. LEE Chun Yin, Wilfred
President-Elect	Dr. TUNG Siu Lok, Dennis	Chapter Programs Chair	Mr. LO Siu On, Andy
Secretary	Mr. SUNG Ka Leung, Michael	CRC Action Chair	Mr. CHAN Hei Kin, Thomas
Treasurer	Mr. WONG Shu Hung	Electronic Communication Chair	Dr. LAM Hang Yat, Abraham
Immediate Past President	Mr. CHAN Hei Kin, Thomas	Historical Chair	Dr. CHU Chun Ying, Roger
Member, Board of Governors	Dr. CHAN Ka Lung, Raymond	Honors & Awards Chair	Dr. YU Chung Hoi, Philip
Member, Board of Governors	Mr. LIN Wan Fuk, Albert	Information Technology Chair	Mr. LAM Ying Wai, Alan
Member, Board of Governors	Ms. MO Cheung Ying, Eagle	Institutions (HK) Liaison Chair	Ms. PANG Ching Man, Tracy
Member, Board of Governors	Mr. TSE Kam Chuen, Vincent	Mainland Relations Chair	Mr. POON Wai Kit, Vicki
Chapter Technology Transfer Chair	Mr. TAM Tsz Lung, Tenny	Public Sector Liaison Chair	Mr. MAK Ka Chun
Grassroots Government Advocacy Chair	Dr. HUI Chun Man, Sam	Publications & Newsletter Chair	Ms. PUN Mun Wai, Cindy
Membership Promotion Chair	Mr. NG Chun Kei, Jacky	Publicity Chair	Mr. LI Siu Lam
Research Promotion Chair	Mr. HUANG Hung Man, Patrick	Reception Chair	Ms. WONG Sze Man, Mandy
Student Activities Chair	Mr. CHOW Chi Fung, Taylor	Refrigeration Chair	Mr. LAM Yu Hung, Peter
Macau Section Chair	Dr. YIU Chi Man, Jacob	Sustainability Chair	Mr. MAN Chi Hou, Cecil
		Webmaster/Homepage Editor	Mr. LAM Ying Wai, Alan
		Young Members Committee Chair	Mr. WONG Man Chi, Joao

Retreat 2015-2016

ASHRAE Hong Kong Chapter Retreat 2015-2016

There were total 45 committees attended the Retreat 2015-2016 in CPD-2.37, 2/F, HKU Centennial Campus, The University of Hong Kong on 13 June 2015.

Firstly, all committee members introduced themselves and shared their experiences on chapter operations. Afterwards, Chapter President, *Dr. CS Wong* introduced the operation of ASHRAE Hong Kong Chapter to the new committee members. He also described the Presidential Award of Excellence (PAOE) issued by Society President, *Mr. David Underwood* in his 2015-2016 Presidential Newsletter to all committee members. Moreover, he presented his strategy plan with aims of long-term development of ASHRAE Hong Kong Chapter. The strategy plan is focusing on the four major issues: Professional Recognition, Long Term Collaboration, Membership and Chapter Operations.

Finally, Director and Regional Chair (DRC) of ASHRAE Region XIII, *Mr. Edward Tsui* was invited to have a presentation with the topic of "ASHRAE Structure and Leadership" to all committee members.



Macau Section Retreat 2015-2016

On 9 September 2015, *Dr. Jacob Yiu*, Chair of Macau Section organized a retreat for Macau Section Committee Members in Macao. The objective of the retreat is to introduce the latest updates on ASHRAE structure, ASHRAE Region XIII and our Hong Kong Chapter; to help the Section to build up their spirit. *Dr. CS Wong*, Chapter President, *Mr. Michael Sung*, Secretary, and our Past Presidents including *Mr. Alan Lam*, *Mr. Victor Yiu* and *Mr. Calvin Tang* also joined in and shared their valuable experiences in chapter operation.

Other than these, *Mr. Peter Chan*, Section Co-chair, shared the insight on his project of MGM Macao which had awarded the Regional Technology Award during the retreat. All in all the retreat was held successful and with friendly atmosphere.

Facebook Page of ASHRAE Hong Kong Chapter

A facebook page of ASHRAE Hong Kong Chapter has been officially launched on 1 July 2015 for better communications among our Chapter, members and even non-members.

Please like our facebook page at www.facebook.com/ASHRAE.HKC and follow us now to know more events organized by ASHRAE Hong Kong Chapter. You are encouraged to share our facebook page with your friends and colleagues too!

We also have a facebook page for Young Members Committee at www.facebook.com/ASHRAE.HKC.YEA for communication between our YMC Committee and young members of ASHRAE Hong Kong Chapter.



Latest Update

ASHRAE Certified Professionals



ASHRAE certification programs were founded to meet industry need as identified through market research and today provides value to many important stakeholders. Developed by subject matter experts, including those recruited from allied professional organizations, ASHRAE certification programs benchmark with the ANSI/ISO accreditation standards for personnel certification programs to help ensure quality. For the past 100+ years ASHRAE has worked hard to earn and maintain a worldwide reputation for being the leader in HVAC&R design. ASHRAE certification programs serve to reinforce that reputation. Earning a certification is ASHRAE's acknowledgment that the person understand the relevant body of knowledge and meet educational and experience requirements. The benefits of getting certified are many:

- Greater confidence in competence in critical job knowledge, skills and abilities
- Portable credential recognized and valued by employers
- Competitive edge and respect among peers, in the workplace and among potential clients
- Heightened job satisfaction

There are six ASHRAE certification programs which are:

- Building Energy Assessment Professional (BEAP) Certification
- Building Energy Modeling Professional (BEMP) Certification
- Commissioning Process Management Professional (CPMP) Certification
- Healthcare Facility Design Professional (HFDP) Certification
- High-Performance Building Design Professional (HBDP) Certification
- Operations and Performance Management Professional (OPMP) Certification



Each ASHRAE certification program has its own eligibility criteria that consist of combinations of education and experience in the HVAC&R industry. To learn more, please visit <https://www.ashrae.org/education--certification/certification>.

ASHRAE Hong Kong Chapter has launched a Mentoring Scheme (from January to March 2016) for members who are interested in being ASHRAE Certified Professionals. In this scheme, ASHRAE Hong Kong Chapter will arrange the experienced mentors to advise and supervise the interested members to achieve their certified professionals via detailed guidance from exam registration, arrangement of computer/pencil exams, etc. The tentative exam date of ASHRAE Certified Professionals organized in Hong Kong is targeted on 31 March 2016.

Building Energy Quotient (bEQ)

ASHRAE has a new Building Energy Quotient (bEQ) Energy Labeling Program that officially launched its "In Operation" program in 2012, and launched its "As Designed" rating in 2013. For leaning more information on bEQ, please visit www.buildingenergyquotient.org.



To promote bEQ in Hong Kong, *Mr. Ross D. Montgomery*, Chair of bEQ Committee was invited to provide the introduction of ASHRAE "bEQ" Building Laelling Program and Energy related programs to Hong Kong Green Building Council (HKGBC), Electrical and Mechanical Services Department (EMSD) as well as our members on 29-30 July 2015. Our Sustainability Co-Chair, *Mr. Kelvin Chan* also provided case sharing of assessment procedure for First bEQ buildings in Hong Kong.



During the visit, *Mr. Ross D. Montgomery* also acted as ASHRAE Certified Building Energy Assessment Professional to carry out bEQ assessment for Jockey Club Environmental Building in Kowloon Tong on 31 July 2015. After the assessment, this building is achieved as "Efficient" in operation.

If you want to know more on ASHRAE Certified Professionals or Building Energy Quotient (bEQ), please feel free to contact us via email at ashraehk@gmail.com.



Chapter Technology Transfer Committee (CTTC)

Distinguished Lecturer (DL) Talk

“Energy Audits and Commissioning of Built Environment”



Mr. Ross D. Montgomery

P.E., CXA, CPMP, BEAP, BEMP, HBDP

Mr. Montgomery is ASHRAE past Society Vice-President, Technology Council Chairman, DRC and DAL, past RVC, and chapter/section President. He has worked in ASHRAE activities for 34+ years, and has served on over 45 committees, councils and boards for ASHRAE.

A technical seminar titled “Energy Audits and Commissioning of Built Environment” was jointly organized with Building Environment Council Institute of Environmental Education on 30 July 2015 at BEC Auditorium, Kowloon Tong.

There were around 50 participants attending the technical seminar. In the first session, *Mr. Montgomery* explained the details of energy audit procedures. He defined the various levels of effort of commercial building energy audits and gave some examples of energy saving opportunities and sample energy audit reports. Besides, he also highlighted other related ASHRAE energy products and services such as the Standards 90, 100 & 189, Energy efficiency guide for existing buildings and ASHRAE bEQ (building labeling program).



In the second session, *Mr. Montgomery* went into details about the principles, process, procedure and the future of the commissioning of the built environment. Some basics of HVAC&R systems’ commissioning and international strategic directions were discussed with the audience. All participants learnt a lot from *Mr. Montgomery* and appreciated his professional.

“ASHRAE 90.1 Energy Standard & Engagement in Energy Performance”



Mr. R. Christopher Mathis

Mr. Mathis has spent the past 30 years focusing on how buildings and building products perform – from energy efficiency to code compliance to sustainability and long-term performance durability. He is a 30-year member of ASHRAE and he served 10 years on Standard 90.1 development committee and remains an active participant in its development.

A technical seminar titled “ASHRAE 90.1 Energy Standard & Engagement in Energy Performance” was also jointly organized with Building Environment Council Institute of Environmental Education on 26 August 2015 at BEC Auditorium Kowloon Tong.

There were around 40 participants attending the technical seminar. *Mr. Mathis* shared his 30 years’ experience in how buildings and building products perform – from energy efficiency to code compliance to sustainability and long-term performance durability. In the first session, *Mr. Mathis* explained the details of why buildings matter and the role of ASHRAE 90.1 at commercial buildings sector. He highlighted the new features and the requirements of Standard 90.1:2013 such as the revised building envelope provisions. He also mentioned about the connections between the buildings and their energy use and other social and environmental objectives, e.g. the peak power, water consumption, carbon emissions and other connected issues.



In the second session, *Mr. Mathis* went into details about the ASHRAE engagement in the energy performance of residential buildings. He went through the advanced building technologies for the energy efficiency in both new and existing residential buildings. For example, the new lighting, fenestration and glazing technologies, insulation innovations, air sealing and advanced HVAC systems and new diagnostic tools were discussed.

Grassroots Government Advocacy Committee (GGAC)

Introduction of ASHRAE Building Energy Labeling Program and the related Certified Professional to HKGBC & EMSD

bEQ Promotion to Hong Kong Green Building Council (HKGBC)



Mr. Ross D. Montgomery was invited by our Chapter to promote Building Energy Quotient (bEQ) to HKGBC on 29 July 2015. Our GGAC Chair, Dr. Sam Hui also provided ASHRAE Introduction & Update to HKGBC. Prof. Ronald Chin (Executive Director), Dr. Eddy Lau (Head of Green Labelling) of HKGBC, Dr. Raymond Yau and their colleagues attended the bEQ introduction.

bEQ Promotion to Electrical and Mechanical Services Department (EMSD)

Mr. Ross D. Montgomery and Mr. Kelvin Chan were invited by our Chapter to promote Building Energy Quotient (bEQ) to EMSD on 30 July 2015. Our GGAC Chair, Dr. Sam Hui also provided ASHRAE Introduction & Update before the bEQ presentation by Mr. Ross D. Montgomery. Mr. Kelvin Chan also shared his experience on carrying out the assessment for first bEQ building in Hong Kong. Director of EMSD, Mr. Chan Fan and his colleagues with around 100 persons had attended this seminar.



Communication Meeting between ArchSD and Hong Kong Building Services Professional Bodies

Representatives of ASHRAE Hong Kong Chapter (Dr. CS Wong, Dr. Dennis Tung, Dr. Sam Hui and Mr. Edward Tsui) joined the 9th Communication Meeting on 12 October 2015 at the Queensway Government Office of the Architectural Services Department (ArchSD) with other Building Services professional bodies.

Major issues discussed at the meeting include:

- BIM (MEP) development in ArchSD and in Hong Kong
- Recent development in green government buildings
- Upcoming 2017 revision of General Specifications and Testing and Commissioning Procedures for building services installations
- Major concerns in plumbing Installation
- Design and installation of BS systems for adaptive reuse of heritage buildings



The professional bodies (ASHRAE and CIBSE) reported the latest publications and upcoming conferences in Hong Kong. Dr. Sam Hui also briefly introduced the Building Energy Quotient (bEQ) and ASHRAE Certified Professionals to ArchSD. The HKIE BS Division mentioned the establishment of a new interest group "Sustainability Engineering" and a taskforce on plumbing installation.



Membership Promotion (MP) Committee

Membership Promotion to HVAC Industries and Educational Institutions

MP Chair, *Mr. Jacky Ng* has carried out the ASHRAE Membership Promotion not only to the companies of HVAC Industries, but also the Educational Institutions with Student Activities Committee:

- *Asian Institute of Built Environment* on 12 October 2015
- *Alliance Environmental Technology Limited* on 17 October 2015
- *Active Energy Management Limited* on 5 December 2015



Seminar on “Introduction of ASHRAE Professional Certification Programs”

A seminar on “Introduction of ASHRAE Professional Certification Programs” was held in CPD-3.28, 3/F, HKU Centennial Campus, The University of Hong Kong on 23 September 2015. The objective of the seminar was to introduce the ASHRAE certification programs to our members and how to become a Building Energy Quotient (bEQ) Certified Provider. The 2 speakers, *Dr. Sam Hui* and *Mr. Kelvin Chan* shared their experience on achieving ASHRAE certified professionals.



BACnet Forum – “Opening Door to Green Buildings”

Dr. CS Wong, Chapter President and *Mr. Edward Tsui*, DRC of ASHRAE Region XIII were invited to provide the introduction of ASHRAE Hong Kong Chapter and ASHRAE Update on Global and Asia Pacific Footprint in the BACnet Forum – “Opening Door to Green Buildings” which was organized by Instrumentation Technology and Economy Institute (ITEI) in Four Points By Sheraton Shenzhen, Shenzhen, China on 16 November 2015. In the Forum, *Mr. Bernhard Isler*, Chairman of the BACnet Committee from ASHRAE also delivered a talk on “A Status Update on BACnet Standardization at ASHRAE”.



Research Promotion (RP) Committee

Research Promotion (RP) Walk 2015

In the afternoon on 21 November 2015, Research Promotion Committee organized ASHRAE Research Promotion (RP) Country Walk to Tai Tam Country Park for fundraising to support ASHRAE research. There were over 50 participants with the fundraising amount of **US\$7,341** (i.e. HK\$57,260) donation. The participants included *Mrs. Jane Underwood* (Spouse of ASHRAE Society President, Mr. David Underwood), *Prof. William Bahnfleth* (ASHRAE Society Past President), *Mr. Leong Cheng-Wee* (Regional Vice Chair (RVC) for Research Promotion of ASHRAE Region XIII) and his spouse from Singapore, *Mr. Den Low* (Regional Historian of ASHRAE Region XIII) and his family from Malaysia.



The walk route started from **Quarry Bay MTR Station (Exit A)** → Mount Parker Road → Quarry Gap → Tai Tam Reservoir → Tai Tam Road → BBQ at Tai Tam Scout Centre. Total distance was approximately 10 km and the Team took around 4 hours to complete the whole journey. In this event, all participants experienced a wonderful country walk and enjoyable BBQ gathering.



Our Society President, *Mr. David Underwood* also joined our BBQ gathering in the evening at Tai Tam Scout Centre. All participants not only enjoyed this meaningful event with fun, but also provided RP donation to support ASHRAE Research.

Research Promotion (RP) Committee

Experience Sharing after RP Walk 2015 from Overseas Participants



"On November 21, 2015, while David Underwood had a great experience touring the Hong Kong Peak With Joe Chow, I loved the ~10k walk on the Hong Kong trail for ASHRAE Research Promotion. The warm feeling of shared adventure with local families and committed ASHRAE supporters was wonderful. The views of Hong Kong were spectacular, the weather was perfect

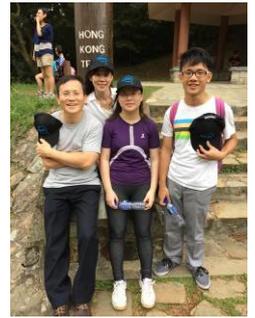
and the walking pace was comfortable. At the end of the day, both David and I also enjoyed barbecuing honey coated fish balls, corn, chicken, beef, and marshmallows on open fire at the Tai Tam Scout Centre. Special thanks to CS Wong, ASHRAE Chapter President, his wife Kennis and their beautiful children, Sonia and Max for their hospitality."

by Mrs. Jane Underwood (Spouse of ASHRAE Society President, Mr. David Underwood)



"The most remarkable family trip with Hong Kong ASHRAE RP Walk"

by Mr. Den Low
(Regional Historian of ASHRAE Region XIII)



"I can't think of a better way to raise funds for ASHRAE research than to spend a day exercising, enjoying nature, and socializing with friends. Even those unable to participate in the walk had a great time at the concluding barbeque. This was my

second RP walk and I hope that next year will be the third!"
by Prof. William Bahnfleth (ASHRAE Society Past President)

"The RP Walk was very interesting and enjoyable. I am happy to see the large turnout and support by the Hong Kong Chapter members. Great work and please keep up the good work!"

by Mr. Leong Cheng-Wee (Regional Vice Chair (RVC) for Research Promotion of ASHRAE Region XIII)



Appreciation to 2014-2015 ASHRAE Investor Honor Roll

With generous support and contribution, Research Promotion Committee had got US\$23,240 donation which met the yearly target (US\$15,350) in 2014-2015. Research Promotion Committee deeply appreciates the contribution from *Dr. Jacob Yiu*, RP Chair of year 2014-2015 in order to obtain such fruitful results. Research Promotion Committee would like to express our sincere thanks to the following donors who contributed the ASHRAE Research Funds in 2014-2015.

CHAN Hei Kin, Thomas	PAU Wai Keung	Alliance Environmental Technology Limited
David CHIU	John RIEKE	Belimo Actuators Limited
CHOW Chi Fung, Taylor	SOU Weng Hung, Wilson	China Team Engineering Consultants Limited
Roger CHU	SUNG Ka Leung, Michael	DuctPro Engineering (H.K.) Limited
CHU Tak Wing	Calvin TANG	FSE Engineering Group Limited
Jeff CLARKE	TSUI Ka Cheung, Edward	Fed-Supremetech Limited
HUANG Hung Man	TUNG Siu Lok, Dennis	Intelligent Technologies Limited
Sam HUI	WONG Chun Sing	New Way Engineering Company Limited
LI Ping Yin	WONG Shu Hung	Suli Cable International Limited
LIN Wan Fuk, Albert	Joao WONG	Sustainable Energy Limited
LIU Ho Bun	YIU Chi Man, Jacob	Trane Hong Kong
PANG Ching Man, Tracy	Philip YU	Trane Matching Funds
		Wardson Engineering Limited
		Welcome Air-Tech Limited
		Wing Shing Air-Flow Company Limited

Student Activities (SA) Committee

Joint Student Branch Annual General Meeting 2015

There were 5 student branches joined the AGM 2015 in CPD-3.28, 3/F, HKU Centennial Campus, The University of Hong Kong on 10 October 2015. Around 60 participants joined this event.

In the first session, the participants of Philippines Study Tour shared their invaluable experience on learning the local culture of Philippines and visits to local university & green sustainable building. After that, appreciation certificates were presented to all participants of Philippines Study Tour, *Dr. Sam Hui* and sponsors of Study Tour. Special thanks to *Ryowo (Holding) Company Limited*, *Telex Environmental and Energy Management Limited*



as Diamond Sponsors and *Inspiration Company Limited* and *Intelligent Technologies Limited* as Gold Sponsors for providing financial support for Study Tour 2015. In second session, Presidents (2014-2015) and Incoming Presidents (2015-2016) of student branches presented their reports and introduced his new committee members respectively. Then, appreciation certificates issued by Hong Kong Chapter and the gifts prepared by the Presidents (2014-2015) of student branches were presented to Student Advisors for their guidance. Finally, YMC Presentation and Talent Show were arranged after the tea break.



Joint Student Branch Visit: HKJC Shatin Race Course District Cooling System

There are totally 33 students joined the Hong Kong Jockey Club District Cooling site visit on 24 October 2015. Seminar was conducted in the first session for introducing the system and design criteria of the district cooling plant. After that, we visited the chiller plant room, cooling tower plant and MCC room. Student could learn not only the theory of the district cooling system, but they also understood the operation of the whole district cooling system.



the theory of the district cooling system, but they also understood the operation of the whole district cooling system.



Joint Student Branch Gathering Camp

Student activities held a year end gathering for students and youth members on 21-22 December 2015. 18 students and 3 YMCs joined this event. We were honor to have our Chapter President *Dr. CS Wong* to join our party too. We had lucky draw, board games and hotpot during the party. During the gathering, we also celebrated for Research Promotion Co-Chair, *Mr. Tom Lau's* birthday. We special thanked to *Dr. CS Wong*, *Mr. Albert Lin* and *Mr. Jacky Ng* to sponsor this event to our students and YMCs.



Student Activities (SA) Committee

ASHRAE Design Competition

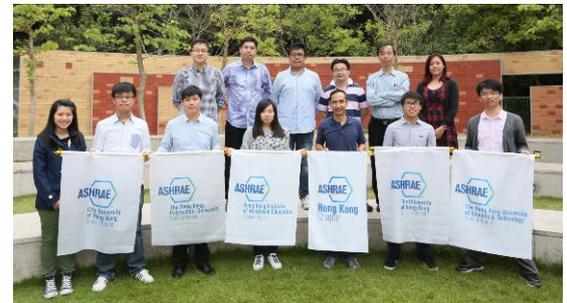


The 2016 student competition focuses on a new 2-story municipal government building in Beijing, China. Just like last year's competition, the building must be located in Beijing, China, or the entry will be disqualified. The final HVAC System Selection and Design for the proposed building shall address the following major design goals: Low Life Cycle Cost, Low Environmental Impact, Comfort and Health, Creative High Performance Green Design, and Synergy with architecture. There are two teams from PolyU and HKU enrolled ASHRAE Design Competition this year. The design tutors are *Mr. Patrick Huang* and *Mr. Taylor Chow*.

Student Branches

5 student branches of year 2015-2016 have been officially formed after the Joint Student Branch Annual General Meeting (AGM) in CPD-3.28, 3/F, HKU Centennial Campus on 10 October 2015. The Presidents and Student Advisors of Student Branches are shown in the following table:-

University	Name of President	Name of Student Advisor
The Hong Kong Polytechnic University	Mr. GO Ho Fai, Harvey	Dr. LUI Che Heng, Gigi
City University of Hong Kong	Mr. SIU Tsun Wai, Arthur	Dr. FONG Kwong Fai, Square
The University of Hong Kong	Mr. AU Tak Ho, Rocky	Dr. HUI Chun Man, Sam
Hong Kong Institute of Vocational Education	Ms. CHOI Tsui Luen, Kaicy	Mr. AU YEUNG Yiu Nam
The Hong Kong University of Science and Technology	Mr. CHOI Hang Yan, Neos	Prof. NG Lung Fai, Moses



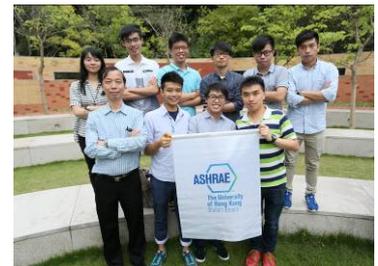
Group Photos of Committee Members (2015-2016) of Student Branches




The Hong Kong Polytechnic University
Student Branch




City University of Hong Kong
Student Branch




The University of Hong Kong
Student Branch




Hong Kong Institute of Vocational Education
Student Branch




The Hong Kong University of Science & Technology
Student Branch

Chapter Programs Committee

Technical Seminar on “How Long Will It Last? Addressing the Challenge of Sustainability”



Speaker: **Mr. R. Christopher Mathis**

A technical seminar titled “How Long Will It Last? Addressing the Challenge of Sustainability” jointly organized with HKIE BS Division and CIBSE HK Branch was held in CPD-2.58, 2/F, HKU Centennial Campus, The University of Hong Kong on 26 August 2015.

In this evening, around 50 participants attended the seminar. In the beginning, *Mr. Tenny Tam*, Chapter Technology Transfer Committee Chair, delivered a welcoming address to all participants and introduced the background of honorable speaker, *Mr. R. Christopher Mathis*, who is a Distinguished Lecturer of ASHRAE. During the seminar, He highlighted several key design features and engineering concepts on Green Building. He also introduced methodology for consideration in building sustainability with vivid examples in reality.



Comprehensive Certificate Course on HVAC&R Systems in Buildings 2015

A 12-session series of the Joint Comprehensive Certificate Course (12-evening sessions: 22, 24, 29 September, 6, 8, 13, 15, 20, 22, 27, 29 October & 3 November 2015) on HVAC&R Systems in Buildings jointly organized with ACRA, BSOMES, CIBSE HK Branch and HKIE BS Division was successfully held at Hong Kong Productivity Council. The Organizing Committee received an overwhelming response from engineering industry with around 300 applicants attending each session of the course. *Mr. Frank Chan*, Director of Electrical and Mechanical Services Department and *Ir Chan Chi-chiu*, President of HKIE were Guests of Honour to present the opening speech and closing speech respectively. *Ms. Eagle Mo* and *Mr. Kelvin Chan* were invited by ASHRAE HK Chapter to present the topics of energy audits procedures and assessment procedures & practical application of Building Energy Quotient (bEQ) respectively in the first session on 22 September 2015. *Mr. Cecil Man* was also invited by our Chapter to deliver the presentation with the topic of “New Advanced Technology on BMS System Applications & BACnet Protocol Standard” in the sixth session on 13 October 2015.



Technical Visit to “Holiday Inn Express Hong Kong SoHo on Green and Sustainability Design”

A technical visit to Holiday Inn Express Hong Kong SoHo jointly organized with HKIE BS Division and CIBSE HK Branch was held on 24 October 2015. In the morning, around 30 participants attended the technical visit. In the beginning, *Dr. CS Wong*, President of ASHRAE Hong Kong Chapter, delivered a welcoming address to all participants and represented Hong Kong Chapter to present Certificate of Appreciation to express gratitude to honorable speaker, *Mr. Antonio Chan*, Executive Director of REC Engineering Co., Ltd. / REC Green Technologies Co., Ltd., for conducting such meaningful visit. He highlighted the green design features and its key engineering consideration in Holiday Inn Express Hong Kong SoHo. Participants actively raised questions on more details of the sustainable practices implemented in the awards-winning building.



Mainland Relations Committee

Heilongjiang – Hong Kong Joint Symposium 2015: “Building Technologies – An Epoch of Enlightenment”

The symposium was held successfully at Modern Hotel (馬迭爾賓館) in Harbin (哈爾濱) on 26 and 27 June 2015. The symposium was jointly organized with CIBSE HK Branch, HKIE BS Division, BSE of PolyU and our mainland partners, including 黑龍江省土木建築學會暖通空調分會, 中國土木建築學會熱能動力分會 集中供熱與熱計量專業委員會 and 黑龍江省土木建築學會綠色建築專業委員會. The theme of the symposium was “Building Technologies – An Epoch of Enlightenment (建築科技新里程)”.



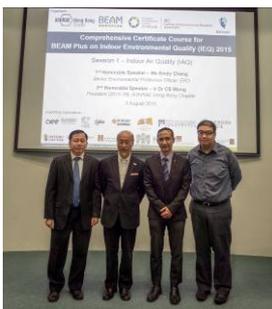
There were more than 40 participants from Hong Kong and 60 participants from the Mainland joined this symposium. The symposium started with opening speeches by Advisor from the Mainland, *Mr. Xu Wei* and representatives of Hong Kong and Heilongjiang Organizing committee, they were *Mr. CM Chung* from Hong Kong and *Mr. Chui Wah* from Heilongjiang. Then, *Mr. Stanley Chow*, Chair of the Organizing committee, also gave an opening

address to the audience. After the opening ceremony, the symposium was continued by 6 sessions including paper presentation sessions, group discussion and knowledge sharing and the introduction of professional institutions. There are two sessions for day 2 symposiums which were sharing session of “The Climate Data for Green Building Design” and “the Design and Practices of Low Carbon Technology” and introduction of professional institutions. Guests from Hong Kong and Harbin briefly introduced their own climate datum and useful information for further discussion. After that, professionals from each side shared their valuable working and design experience in tackling the climate challenges. Since the climate of Hong Kong and Harbin are totally different, we learnt a lot for the practices and design which we seldom use or know. All of us are benefited from the working experience sharing and knowledge exchange. In last session, the representatives of Hong Kong and Harbin professional institutions introduced their institutions to the participants.

Sustainability Committee

Comprehensive Certificate Course for BEAM Plus on IEQ 2015

Comprehensive Certificate Course (7-evening sessions: 3, 5, 10, 12, 17, 19 & 24 August 2015) on BEAM Plus on Indoor Environmental Quality (IEQ) jointly organized with Building Environment Council Institute of Environmental Education, BEAM Society Limited and BSOMES was successfully held at BEC Auditorium, Kowloon Tong. There were around 100 applicants attended for each session.



Green Technical Tour to “BeeXergy Consulting Limited – Platinum Rating of BEAM Plus Interiors Version 1.0”



A green technical tour to “BeeXergy Consulting Limited” was held on 14 November 2015. This company has achieved the Platinum Rating of BEAM Plus Interiors Version 1.0. In the morning, around 30 participants attended the technical tour. *Mr. Henry Mak*, Director of BeeXergy Consulting Limited highlighted the green design features and the key issues on BEAM Plus in his office. His colleague, *Mr. HW Tsang* also introduced how CFD simulation helped on sustainable design.



Young Members Committee (YMC)

This is going to be a fruitful year for young member of ASHRAE, which we had planned a lot for you. This year, the young member committee (YMC) will organize diversified activities for you to learn and relax a bit between the exhausted lives for engineers. Since July 2015 we already organized a boat trip, snorkeling, wine tasting and Christmas Party. Let see what we have done so far ^^, except the snorkeling was cancelled due to adverse weather.

Summer Boat Trip



On 7 August 2015, a normal hot and humid summary day, the YMC had co-organized a boat trip with the Student Activities Committee. The boat trip started in the afternoon in Sai Kung with water sport then travelled to the Victoria Harbour in the evening for dinner. This event gathered around 50 young member and students



This event was separated into two sessions. The first session was mainly for water sports. This activity used to provide a leisure platform to us to have a networking gathering and meet our committee. Our Chapter president *Dr. CS Wong* also joined this event in the afternoon session. For the evening session, we played ice-breaking game and had a nice dinner on the boat. Our YMC chair *Joao Wong* also presented the ASHRAE's SmartStart program and membership benefits to our student members.



Cocktail Class

Being a young member, you must have gone out for a cocktail with your friends. This time we brought our member a different experience by making their own cocktails. The class was structuralized on 29 October 2015, which we began with story well-known cocktail and now we know Mojito is a favor drink of Hemingway. We got a chance to make two cocktail drinks namely "Japanese Slipper" and "Popping Light Up" that used two different techniques in the production.



The Japanese Slipper used shaker to mixed Alcohol and juice, while the Popping Light Up used spoon to form layers. Now, our member shall be able to say "Japanese Slipper" was light body, medium alcohol and chill with Medium acidity, sweetness and low bitterness! How cool is that!

Joint Society Christmas Party 2015



The JSCP is the event of the year which allows young member from different societies of different disciplines knowing each other on a relaxing platform. This year, we organized the party with AES, HKIE, ICE, IET and IMechE.



For this year JSCP, it was on 11 December 2015 and we had a great achievement on the participants of 162, which was full-housed long before the deadline of application. It was a fun night with a lot of games and lucky draw for ice breaking and a lot of fun. It was an unforgettable night!! And you should not miss it next year!!!



ASHRAE Region XIII Activities

Chapters Regional Conference (CRC) & Regional Planning Meeting (RPM)

The 18th Chapters Regional Conference (CRC) and Regional Planning Meeting (RPM) 1 were held in New World Hotel, Makati City, Philippines on 21-23 August 2015. There were total 17 committees and 7 students to join the 18th CRC this year.



Philippines Study Tour 2015

A Philippines Study Tour was organized during 17-23 August 2015. This is the tenth year that the ASHRAE Student Branches in Hong Kong organized such a study tour. Seven university students participated and conducted technical visits to the Philippine Department of Energy, the Philippine Green Building Council, the Net Lima (green office building in Bonifacio Global City), the Mind Museum (LEED Gold Museum), and the Philippine Arena (the largest indoor arena in the world).

For cultural and academic exchanges, they visited the Ayala Museum in Makati (on Philippine history), joined the historical/cultural tours to Bulacan, and visited the University of Santo Tomas (UST) and Mapúa Institute of Technology (MAPUA). They also attended the banquet dinner of the ASHRAE Region XIII Chapters Regional Conference 2015, the students welcome party and the personal development seminar-workshop at the Asian Institute of Management (AIM) Conference Centre.



The study tour provided very good opportunities for participants to understand the history, culture, recent building developments and local universities in Philippines. The supports from ASHRAE Hong Kong Chapter, ASHRAE Philippines Chapter, the study tour sponsors and all related organizations were important and treasure in this study tour.



ASHRAE Region XIII Activities

Asia Pacific Conference on the Built Environment (APCBE)



The 13th Asia Pacific Conference on the Built Environment with the theme of “**Next Gen Technology to make Green Building Sustainable**” was successfully held at Crowne Plaza Kowloon East Hotel on 19-20 November 2015. This Conference was jointly organized by ASHRAE Hong Kong Chapter, The Chartered Institution of Building Services Engineers Hong Kong Branch, The Hong Kong Institution of Engineers – Building Services Division and Department of Building Services Engineering of The Hong Kong Polytechnic University. It is the second time for ASHRAE Hong Kong Chapter to organize the Asia Pacific Conference on the Built Environment. The last time was 7th APCBE held on 18-19 November 2003 with the theme of “Innovations and Integrated Building Performance”

Asia Pacific Conference on the Built Environment (APCBE) is a biennial event of ASHRAE Region XIII and it was first launched back in 1991. In response to the growing technology, the Conference scope has been expanded from HVAC&R to cover various aspects related to the built environment. This international conference provides an excellent platform for researchers and practitioners to share ideas, best practice, new technologies and future prospects.

The Conference theme of the 13th Asia Pacific Conference on the Built Environment “**Next Gen Technology to make Green Building Sustainable**” is not simply about the hi-tech products available today but the future technology being developed for more sustainable built environment, including design approach, system controls, construction management, commissioning, facility operation & maintenance, etc. It is intended to bring together international speakers to meet and discuss the advanced technologies with mindful of our next generation.

Conference Logo was selected from the Logo Design Competition submitted by students from local university of engineering aspects. Society President, *Mr. David Underwood* and the friends from ASHRAE Region XIII were invited to join this Conference. Before the Conference, Golf Outing to Phoenix Hill Golf Course in Dongguan, PRC and Welcoming Dinner in Sai Kung was arranged on 18 November 2015. Spouse Tour was also organized to visit the tourist attractions in Hong Kong on 19 November 2015.

For The conference, there were around 300 delegates from all over the world including China, Europe, Hong Kong, Indonesia, Japan, Malaysia, Philippines, Singapore, South Korea, Taiwan, Thailand and USA. After the Welcome Address delivered by Conference Chair, *Dr. Philip Yu*, the guest of honour, *Mr. Wong Kam-sing*, Secretary for the Environment of the HKSAR Government, officiated the Opening Ceremony with *Dr. Philip Yu* (Conference Chair), *Mr. David Underwood* (ASHRAE President), *Mr. Edward Tsui* (DRC of ASHRAE Region XIII), *Dr. CS Wong* (President of ASHRAE HK Chapter), *Mr. John Field* (CIBSE President Elect), *Mr. CM Chung* (Chair of CIBSE HK Branch), *Ir Chan Chi-Chiu* (HKIE President), *Ir KT Cheuk* (Chairman of HKIE BS Division) and *Prof. JL Niu* (Associate Head of Department of Building Services Engineering of PolyU). During the conference, there were 3 keynote speeches, 28 oral presentations and 18 poster presentations given by experts from China, Hong Kong, Indonesia, Japan, Malaysia, Netherlands, Philippines, Singapore, South Korea, Taiwan and USA, addressing different topics of session themes including Architecture & Building Materials, Design & Commissioning for High Performance, HVAC Technology & Refrigerant, Indoor Environment & Safety, Renewable Energy & Energy Efficiency and Simulation & Environmental Assessment & System Evaluation.



Optimization for Sustainability. The poster presentation covered the topics including HVAC&R Technology, HVAC&R System Applications and Environmental Assessment & System Evaluation.



ASHRAE Region XIII Activities

Asia Pacific Conference on the Built Environment (APCBE)

Keynotes speakers included *Mr. David Underwood* with a topic of “Building Energy Quotient – ASHRAE’s Building Energy Labeling Program”, *Mr. John Field* with a topic of “Improving Performance: Our Buildings and Infrastructure” and *Ir Tai Tak-him* with a topic of “Exploring E&M Service Solutions for Sustainable Green Buildings”.



A banquet cum International Nite was arranged after the Day 1 Conference on 19 November 2015. In the morning on 20 November 2015, APCBE Steering Committee Meeting was held for reviewing of 13th APCBE 2015 Hong Kong and coming APCBE arrangement. Technical visits to Kai Tak District Cooling System (North Plant) and Zero Carbon Building (ZCB) in Kowloon Bay were organized after the Day 2 Conference on 20 November 2015 which provided our delegates with invaluable insight into energy efficient DCS plant and in-depth understanding of the key facilities in ZCB & the green technologies during the visits.



Group Photo of Organizing Committee of APCBE 2015 & MCs



APCBE Steering Committee Meeting on 20 November 2015



Technical Visit to Kai Tak District Cooling System (North Plant)



Technical Visit to Zero Carbon Building

ASHRAE Region XIII Activities

30th Annual Dinner of ASHRAE Malaysia Chapter

Dr. CS Wong, Chapter President and Mr. Edward Tsui, DRC of ASHRAE Region XIII were invited by ASHRAE Malaysia Chapter to celebrate their 30th Annual Dinner at Setia City Convention Centre, Shah Alam, Selangor in Malaysia on 30 October 2015. Special thanks to Malaysia Chapter for their hospitality.



Society / Regional Awards

Society Award

Prof. CHOW Wan Ki Fellow Member

Region XIII Awards

Mr. CHAN Hei Kin, Thomas

Dr. CHU Chun Ying, Roger

Mr. LIN Wan Fuk, Albert

Dr. YIU Chi Man, Jacob

MGM Macau

2014-2015 PAOE Award (High Honor Roll-Star-Special Citation)

2014-2015 Gold Ribbon Award

Chapter Service Award

2014-2015 Certificate of Achievement (Goal, High Five, Challenge Goal)

2015 Regional Technology Award



Mr. Peter Chan, Director of Facilities Management of MGM MACAU (in the middle) received the 2015 Regional Technology Award from DRC, Mr. Edward Tsui (Right) and ASHRAE HKC President Dr. CS Wong (Left)

The ASHRAE Technology Awards recognize outstanding achievements by members who have successfully applied innovative building design in the areas of occupant comfort, indoor air quality and energy conservation.

MGM China has been recognized their achievements in energy efficiency by being awarded the 2015 ASHRAE Regional XIII Technology Award (Winner of Category I: Commercial Buildings) for the Asia Pacific Region for innovative energy conservation projects completed at MGM MACAU. Performance was measured through one year's verified operating data following the design implementation.

Mr. Chan gave a brief account on the various projects he has undertaken in the past 4 years at MGM MACAU which have significantly brought down the energy consumptions of the Property in terms of power and LP gas including the two projects submitted to ASHRAE that have earned him as well as MGM MACAU the 2015 ASHRAE Regional XIII Technology Award.



Macau Daily Times issued on 2 September 2015 also had the news to cover this Award
For details, please visit to
www.macaudailytimes.com.mo/files/pdf2015/2391-2015-09-02.pdf

All current members of ASHRAE may submit entries for their project. ASHRAE Technology Award applications are accepted in a wide range of building from commercial, institutional, health care, industrial, public assembly facilities to residential. If you would like to highlight your building, on an international scale, which incorporate ASHRAE standards for effective energy management, and excellent mechanical design, you can find more in <https://www.ashrae.org/membership--conferences/honors--awards/technology-awards-program-overview>.

Coming Up...Next

Coming Events organized by ASHRAE Hong Kong Chapter

13 January 2016	ASHRAE Night 2016 
27 January 2016	Joint Technical Seminar on Construction Accidents Related to Electrical and Mechanical Works
30 January 2016	Technical Visit to Hong Kong Science Park Phase 3
29 February 2016	 <p><i>Distinguished Lecturer (DL) Talk:</i> Technical Seminar on International Approaches for Indoor Environment and Energy Use Reduction</p> <p>Bjarne W. Olesen, Ph.D. <i>Treasurer (2015-16) of ASHRAE</i> <i>Professor</i> International Centre for Indoor Environment and Energy, Department of Civil Engineering, Technical University of Denmark</p>
31 March 2016	Annual General Meeting (AGM)
8 April 2016	 <p><i>Distinguished Lecturer (DL) Talk:</i> Technical Seminar on Building Energy Simulation - Trends, Technologies and Applications</p> <p>Drury B. Crawley, Ph.D. <i>Director, Building Performance, Bentley Fellow</i> Bentley Systems, Inc., United States</p>
25 – 27 May 2016	 <p>HVAC Design: Level I—Essentials (3-day Intensive Training Course by ASHRAE Learning Institute)</p> <p>Julia Keen, Ph.D., P.E., HBDP, BEAP <i>Professor</i> Architectural Engineering and Construction Science at Kansas State University</p>
3 June 2016	32 nd Anniversary Dinner

Coming Events organized by ASHRAE Headquarter & Region XIII

23 – 27 January 2016	ASHRAE Winter Conference & AHR Expo, Orlando, Florida, USA
May 2016	Regional Planning Meeting, Singapore
25 – 29 June 2016	ASHRAE Annual Conference, St. Louis, Missouri, USA

ASHRAE Learning Institute

Seminars & Courses at ASHRAE's Winter Conference in Orlando, FL

2 WAYS TO REGISTER

Internet: www.ashrae.org/orlandocourses

Phone: Call 1-800-527-4723 (US and Canada) or 404-636-8400 (worldwide)

Full-Day Professional Development Seminars

US\$485/US\$395 ASHRAE Member -- Earn 6 PDHs/AIA LUs or .6 CEUs

Commercial Building Energy Audits

Saturday, January 23, 2016 – 8:00 a.m. to 3:00 p.m.

Energy Modeling Best Practices and Applications

Tuesday, January 26, 2016 – 9:00 a.m. to 4:00 p.m.

Commissioning Process in New & Existing Buildings

Saturday, January 23, 2016 – 8:00 a.m. to 3:00 p.m.

Operations & Maintenance of High-Performance Buildings

Tuesday, January 26, 2016 – 9:00 a.m. to 4:00 p.m.

Designing HVAC Systems to Control Noise & Vibrations

Saturday, January 23, 2016 – 8:00 a.m. to 3:00 p.m.

Half-Day Short Courses

US\$159/US\$119 ASHRAE Member -- Earn 3 PDHs/AIA LUs or .3 CEUs

Laboratory Design: The Basics and Beyond

Sunday, January 24, 2016 – 3:30 p.m. to 6:30 p.m.

Advoiding IAQ Problems

Monday, January 25, 2016 – 2:45 p.m. to 5:45 p.m.

Troubleshooting Humidity Control Problems

Sunday, January 24, 2016 – 3:30 p.m. to 6:30 p.m.

Commissioning Process & ASHRAE Standard 202

Monday, January 25, 2016 – 2:45 p.m. to 5:45 p.m.

Understanding & Designing Dedicated Outdoor Air Systems

Sunday, January 24, 2016 – 3:30 p.m. to 6:30 p.m.

Complying with Standard 90.1-2013: HVAC/Mechanical

Monday, January 25, 2016 – 2:45 p.m. to 5:45 p.m.

Variable Refrigerant Flow System Design & Applications **NEW!**

Sunday, January 24, 2016 – 3:30 p.m. to 6:30 p.m.

Evaluation and Control of Legionella in Building Water Systems **NEW!**

Monday, January 25, 2016 – 2:45 p.m. to 5:45 p.m.

Air-to-Air Energy Recovery Applications: Best Practices

Monday, January 25, 2016 – 8:30 a.m. to 11:30 a.m.

Exceeding Standard 90.1-2013 to Meet LEED Requirements

Monday, January 26, 2016 – 9:00 a.m. to 12:00 p.m.

Applications of Standard 62.1-2013

Monday, January 25, 2016 – 8:30 a.m. to 11:30 a.m.

IT Equipment Design Evolution & Data Center Operation Optimization

Monday, January 26, 2016 – 9:00 a.m. to 12:00 p.m.

Building Demand Response & the Coming Smart Grid

Monday, January 25, 2016 – 8:30 a.m. to 11:30 a.m.

Designing High-Performance Healthcare HVAC

Monday, January 26, 2016 – 1:00 p.m. to 4:00 p.m.

Energy Management Best Practices

Monday, January 25, 2016 – 8:30 a.m. to 11:30 a.m.

ASHRAE HVAC Design Training

2 Courses, 5 Days of Intense Instruction

Atlanta • Halifax • Hong Kong • Houston • Kuala Lumpur

Miami • Minneapolis • San Francisco • Vancouver

HVAC Design: Level I – Essentials - Registration is US\$1,264 (US\$1,009 ASHRAE Member)

Gain practical skills and knowledge in designing and maintaining HVAC systems that can be put to immediate use. The training provides real-world examples of HVAC systems, including calculations of heating and cooling loads, ventilation and diffuser selection using the newly renovated ASHRAE Headquarters building as a living lab.

HVAC Design: Level II – Applications - Registration is US\$854 (US\$699 ASHRAE Member)

HVAC Design: Level II — Applications provides instruction on HVAC system design for experienced HVAC designers and those who complete the HVAC Design: Level I – Essentials training. The training provides information that allows practicing engineers and designers an opportunity to expand their exposure to HVAC systems design procedures for a better understanding of system options to save energy.

Visit www.ashrae.org/hvactraining to register.