

ASHRAE Link

Dec 2017



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1. President's Message



Mr. Sung Ka Leung, Michael
Chapter President 2017-2018
ASHRAE Hong Kong Chapter

This is my pleasure to be the 34th President of the ASHRAE Hong Kong Chapter. I would like to take this opportunity to thank you the nominating committee for nominating and members for electing me as the President 2017-2018. In addition, I would like to extend my sincere thanks to all past Presidents, Board of Governors and members, Hong Kong Chapter would not be so successful without their contributions and support.

ASHRAE has a slogan "Shaping Tomorrow's Built Environment Today". It presents ASHRAE as a dynamic and innovative Society and will be at the forefront for research and guidance. In addition to technical standards and design references, we have certification programmes for Building Energy Assessment Professional (BEAP), Building Energy Modeling Professional (BEMP), Building Commissioning Professional (BCxP), High-Performance Building Design Professional (HBDP), Healthcare Facility Design Professional (HFDP) and Operations and Performance Management Professional (OPMP). We will continue to promote and encourage accreditation of ASHRAE Built Environmental Professionals in Hong Kong in coming years.

On top of technical excellence, we have over 700 members in Hong Kong. In the past, we have organized different activities for members, such as ASHREA Nights and offer discount for members to attend technical talks or visits. Hong Kong Chapter will continue to organize or co-organize more than 40 numbers of activities for our members this year. We will enhance our communication with our members at all levels and respond to their needs promptly. Besides, we will reach out to the global community in respond to the theme set out by our Society President this year - Extending our Community. 2017-2018 will be an exciting and challenging year. I hope we can have another successful year and can see your happy face in coming activities. Check our Chapter website at www.ashrae.org.hk or facebook to get our latest information.

Michael Sung
President 2017-2018
ASHRAE Hong Kong Chapter



Board of Governors and Committees 2017 / 2018

Officers and Board of Governors

Posts	Name
President (CRC Delegate)	Mr. SUNG Ka Leung, Michael
President-Elect (CRC Alternate)	Mr. WONG Shu Hung
Secretary	Mr. NG Chun Kei, Jacky
Treasurer	Mr. TAM Tsz Lung, Tenny
Immediate Past President	Dr. TUNG Siu Lok, Dennis
Member, Board of Governors	Dr. Hui Chun Man, Sam
Member, Board of Governors	Mr. LIN Wan Fuk, Albert
Member, Board of Governors	Ms. MO Cheung Ying, Eagle
Member, Board of Governors	Mr. TSE Kam Chuen, Vincent

Working Committee

Working Committee	Name
Chapter Technology Transfer	Mr. CHOW Joe (Chair) Mr. LAM Peter (Co-chair) Ms. CHAU Rachel (Co-chair)
Membership Promotion	Mr. HUANG Hung Man, Patrick (Chair) Mr. YIP Wallace (Co-chair) Mr. WONG Joao (Co-Chair)
Research Promotion	Mr. KWOK Jason (Chair) Ms. LEE Chiu Wah, Rosa (Co-Chair)
Student Activities	Mr. LO Andy (Chair) Ms. LAW Ting Fung, Michelle (Co-Chair) Ms. WONG Yin Ka, Heidi (Co-chair)
Attendance	Ms. LAW Ting Fung, Michelle (Chair)
Auditing (2016-2017)	Mr. MAN Cecil (Chair) Mr. Tang Calvin Dr. Wong Chun Sing Mr. Huang Patrick
Chapter Programs	Ms. PUN Mun Wai, Cindy (Chair) Mr. LEE Siu Lim, Anson (Co-Chair)
Electronic Communication	Dr. LAM Hang Yat, Abraham (Chair)
Grassroots Government Advocacy	Dr. WONG Chun Sing (Chair) Mr. CHAN Chun Kit, Kelvin (Co-Chair)
Historical	Mr. PAU Wai Keung (Chair)
Honors & Awards	Ms. PANG Tracy (Chair) Dr. YU Chung Hoi, Philip (Co-chair)
Information Technology (IT)	Mr. LAM Ying Wai, Alan (Chair) Mr. LAM Ying Wai, Alan (Webmaster)
Institutions (HK) Liaison	Dr. WONG Chun Sing (Chair)
Mainland Relations	Mr. CHOW Chi Fung, Taylor (Chair) Mr. LIU Li Zheng, Ben (Co-Chair) Dr. PAN Penny (Co-chair)
Public Sector Liaison	Mr. MAK Ka Chun (Chair) Mr. LEUNG Suet Fai (Co-chair)
Publications & Newsletter	Mr. CHOW Chi Fung, Taylor (Chair) Mr. LAW Dino (Co-chair)



2. Officers, Governors & Committee Chairs 2017–2018 (Cont’)

Working Committee (Cont’)

Working Committee	Name
Publicity	Dr. CHAN Ka Lung, Raymond (Chair) Mr. CHAN Thomas (Co-Chair)
Reception	Mr. LAW Dino (Chair)
Refrigeration	Mr. LO Albert (Chair)
Sustainability	Dr. CHOW Benny (Chair) Mr. CHAN Man Him, David (Co-chair)
Young Members Committee	Ms. WONG Sze Man, Mandy (Chair) Mr. WONG Chung Yin, Eddie (Co-Chair) Ms. TSE Yan Yi, Rachel (Co-chair)

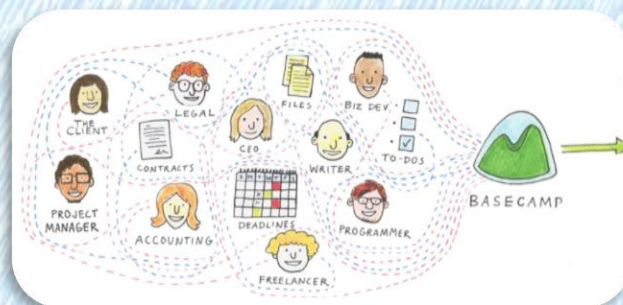
Student Branch	Advisor (s)
The University of Hong Kong	Dr. HO Pui Lam, Benjamin
The Hong Kong Polytechnic University	Dr. LUI Che Heng, Gigi
The City University of Hong Kong	Dr. FONG Kwong Fai, Square
The Hong Kong Institute of Vocational Education	Mr. AU YEUNG Yiu Nam
The Hong Kong University of Science & Technology	Prof. CHOW Christopher
Technological and Higher Education Institute of HK	Dr. HUI Chun Man, Sam



3. Retreat 2017

With altogether 45 committees, the ASHRAE Retreat 2017-2018 was successfully held in CD307, The Hong Kong Polytechnics University on 17 June 2015. After the introductions of all committee members, they shared their experiences on chapter operations.

The Chapter President, Mr. Michael Sung, presented his strategy plan for the coming development of the ASHRAE Hong Kong Chapter.



Afterwards, Mr. Vincent Chu introduced the usage of Basecamp to our committees. Being a collaborative method, Basecamp was determined and controlled by each ASHRAE group: committees, councils, regions, chapters, and all the technical committees.

Finally, Dr. CS Wong introduced the ASHRAE Hong Kong Chapter operations to the new committee members.



4.1 Chapter Technology Transfer Committee

Technical Seminar on Ventilation – from Neighbourhood to Indoors

Co-organized by: ASHRAE HKC and BEAM Society

Date: 28 September 2017

Attendees: 180

ASHRAE Hong Kong Chapter had co-organized the Technical Seminar on Ventilation – from Neighbourhood to Indoors with BEAM Society on 28 September 2017 at Innocentre, Kowloon Tong.

There were totally 180 attendees in the event. Our two honorable speakers, shared their experiences on building and city ventilation in Hong Kong as well as more energy efficiency and healthier approach to demand control ventilation. In the beginning, our honorable speaker, Prof. Yuguo Li, Professor and Associate Dean (Research) of Engineering of The University of Hong Kong, presented the topic of **“Too Hot? The Challenges and Opportunities of Building and City Ventilation in Hong Kong”**. *Professor Yuguo Li*



The second topic **“Healthy, Airside Solutions to Significantly Reduce Your Building's Carbon Footprint”** was presented by our Distinguished Lecturer of ASHRAE, Mr. Gordon P. Sharp, the Chairman of Aircurity, Inc.

For more photos, please click following link:

<https://drive.google.com/drive/folders/0B3MzVT2dmu9BQTI4NVVONIZrdTA>

Reported by: Rachel Chau
CTTC Co-Chair



4.2 Chapter Technology Transfer Committee

DL Seminar with HKIE & CIBSE. "Healthy HVAC System Design with Energy Efficiency Concerns"

Speaker: **William P. Bahnfleth**

Topic: **Integrating Indoor Air Quality and Energy Efficiency in Buildings
HVAC and Airborne Infectious Diseases**

Date: 7:00-9:00pm, 13 Nov. 2017

Venus: FJ303, Poly U

Participants: 90 (registrations)



Reported by: Joe Chow
CTC Chair

4.3 Chapter Technology Transfer Committee

DL Seminar with ACRA. "FULL DAY JOINT SEMINAR ON NEW GENERATION REFRIGERANTS, ITS APPLICATION & RISK MANAGEMENT"

Speaker: **Douglas / Philip Yu / Mitsuru Matsui**

Topic:

- A. Ammonia Refrigerant – By Prof. Douglas
- B. New Refrigerant in HVAC – By Philip Yu
- C. New Refrigerant in split type – By Mitsuru Matsui
- D. Risk Management in refrigerant handling – By Prof. Douglas

Date: 9:00am-5:00pm, 4 Dec. 2017

Venus: FJ303, Poly U

Participants: 80 (registrations)



Reported by: Joe Chow
CTC Chair



4.4 Chapter Technology Transfer Committee

DL Seminar with BSL. "Technical Seminar on New Development of Refrigerant & Refrigeration Safety Management"

Speaker: **Douglas Reindl/ Philip Yu**
Topic: A. ASHRAE Standard 15 & 34
B. New Gen Refrigerant with Low GWP

Date: 2:00pm-5:00pm, 4 Dec. 2017
Venue: BEC
Participants: 110 (registrations)



Reported by: Joe Chow
CTC Chair

5. Grassroots Government Advocacy Committee

1. Promotion of Building EQ and ASHRAE Certification

Technical Seminar - Update on "Building Energy Quotient (Building EQ) and ASHRAE Certification" (Speakers: Prof. William P. Bahnfleth, Mr. Kelvin Chan and Dr. CS Wong) would be held with HKIE-BSD, CIBSE-HKB and PolyU on 15 November 2017. After this seminar, the 3rd mentoring scheme will be conducted. The targeted date for pencil examination will be arranged in the afternoon of 23 March 2018 before the 34th Annual General Meeting.

2. Government & Professional Recognition on Building EQ and ASHRAE Certification

- A new web portal of Building EQ (In Operation) had just been launched in early November 2017 and web portal for As Designed will be launched in February 2018. The updated information of Building EQ and ASHRAE Certification were introduced to Architectural Services Department on 3 November 2017.

3. Strengthen the Relationships among Government and Other Professional Institutions

a) 11th Communication Meeting between ArchSD & HK Building Services Professional Bodies

b)

- The 11th Communication Meeting between Architectural Services Department and Hong Kong Building Services Professional Bodies was held in Room 3523, Queensway Government Offices, 66 Queensway, Hong Kong in the afternoon on 3 November 2017.



Reported by: CS Wong
Grassroots Government Advocacy Chair



6.1 Research Promotion Committee

The 1st ASHRAE HKC RP / YMC / SA Bowling Tournament 2017

was successfully organized by the Research Promotion Committee of ASHRAE Hong Kong Chapter on 17 June 2017 in U.S. Dacos Bowling Centre.

In this tournament, 16 teams with a total of 70 members and sponsor company staffs participated and competed with each other. Our Hong Kong Chapter officers, YMC committee and Student Branches had also formed a team for supporting this meaningful event.

Individual Champion Result

Lady Champion	FSE – Mandy Chan
Ind. Champion	ATAL – Dicky Yip
Ind. 1 st Runner Up	ATAL – Philip Chan
Ind. 2 nd Runner Up	FSE – Wong Ming Wah
Most Potential	YMC – Cherry Lee

Platinum Sponsor

✧ ATAL Engineering Group

Corporate Sponsor

- ✧ Belimo Actuators Ltd.
- ✧ FSE Engineering Group Ltd.
- ✧ Innovative Engineering Co. Ltd.
- ✧ Intelligent Technologies Limited
- ✧ Netsphere Solution Limited



Again, thank you very much for all the participants and the sponsor companies (as follows) who made this bowling tournament successfully.



Reported by: Jason Kwok
Research Promotion Chair



6.2 Research Promotion Committee

ASHRAE RP WALK 2017 was successfully organized by Research Promotion Committee of ASHRAE Hong Kong Chapter on 11 November 2017. The RP Walk 2017 is to visit the villages in Wu Kau Tang and Lai Chi Wo in the northeast of the New Territories and get a good view of Tiu Tang Lung. We walked down the ancient footpath of Lai Tau Shek to explore the magnificent scenery of Sam A Wan and Sam A Chung. The whole route length was around 12km.



In this event, there are more than 60 persons including student members, members and the staffs of sponsor companies. Our President of Hong Kong Chapter Mr. Michael Sung and Mr. John A. Rieke from ASHRAE Head Quarter have walked and experienced the whole journey with us.

In this RP Walk, we gained the funding amount of almost USD12,000 to contribute to the Research Promotion activities.



Reported by: Jason Kwok
Research Promotion Chair



7.1 Student Activities Committee

The Joint Student Branches Career talk was organized by Student Activities Committee of ASHRAE Hong Kong Chapter at City University of Hong Kong on 27 October 2017.

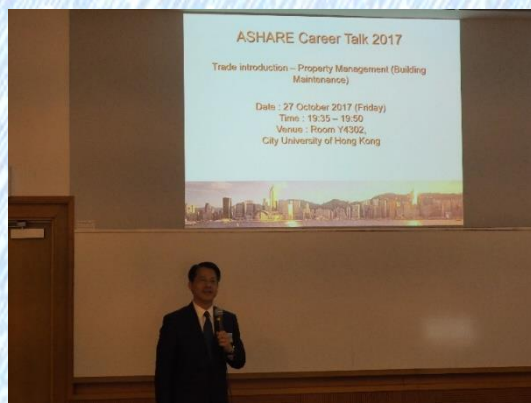
In that evening, more than 50 students from the 6 student branches of Hong Kong Chapter attended the career talk. At the beginning, Mr. Michael Sung, the President of ASHRAE Hong Kong Chapter, delivered a welcoming speech to all participants and the Student Activities Chair Mr. Andy Lo introduced the ASHRAE YEA and the smart start program.



At the career talk, representatives from different trades – Public sector, Property Management, Consultant and Contractor had been invited to share their own experience to the students.

It was definitely beneficial to the students that they could understand more about the building services engineering and the duty of different trades; which help them to have a better planning in their future career path.

During the Q&A session, the students actively raised questions and asked for details, such as to know more on the work environment in different trades. With the positive discussion, the career talk ended at 9:00 p.m. At last, on behalf of ASHRAE Hong Kong Chapter, Mr. Michael Sung presented the Certificate of Appreciation to the speakers to thank for conducting such a valuable career talk.



Reported by: Andy Lo
Student Activities Chair



7.2 Student Activities Committee

ASHRAE Hong Kong Chapter had co-organized the Future Engineers Project 2017 with IET, ICE, HKIE YMC, IMechE and AES on 15 July 2017 (Saturday).



In the morning, there were 76 students attended the event. In the beginning, our honorable speaker, Dr Tim Woo, Professor of HKUST, delivered an introduction on engineering field and his research. Next, our honorable speaker, Ir. TS Ng, Engineer of EMSD, presented the district cooling system at Kai Tak Development. After the presentation section, ASHRAE HKC has prepared two game booths for students to know more about engineering. The first game booth is Car racing by e-gen bike,

The second game booth is Draw your future,



In the afternoon, students have a drama competition on different engineering themes. Before the end of the event, six engineering societies introduced their organizations to the students. The event ended at 17:30 p.m. with joy.

Six engineering societies co-organized the Future Engineers Project 2017, aims at promote our engineering industry to secondary school students.

Reported by: Ms. Michelle Law
Student Activities Co-Chair



8.1 Student Branches' Corner

ASHRAE PolyU Student Branch

was established in 1994 which was the first Hong Kong Chapter Student Branch formed by the students from the Building Services Department at Hong Kong Polytechnic University. It provides a platform to students in learning more about ASHRAE and the air-conditioning industry by

organizing different activities such as site visits and career talks held by the Student Activities Committee every year. It allows students to gain deeper understandings towards the construction industry before graduation and influence them to enter the construction field after graduation. By joining annual study tour program, students could

also widen their global vision to immerse themselves in a different community and meet new friends from all around the world. In the future, we will continue to promote the mission of ASHRAE as well as providing an academic and engineering exchange platform for students to communicate.



ASHRAE PolyU Student Branch 2017- 2018	
President	Koon Ngai, Tommy
Internal Vice President	Cheng Tsz Yeung, Jimmy
External Vice President	Shum Ping Shue, Michael
Treasurer	Huang Man Yin, Aviva
Secretary	Chan Wai Man, Daphne
Membership Secretary	Promotion
	Wong Yat Kuen, Eric
Webmaster	NG Yui Kiu, Mike
Program Secretary	Kong Kai Ching, Vincent
Program Secretary	Wong Tsz Chun, Chris
Reception Secretary	Li Kwan Yee, Queenie
Reception Secretary	Cheng Tsz Fung, Steven
Publicity Secretary	Wong Wing Yin, Monica
Publicity Secretary	Wu Ka Pik, Cathy





8.2 Student Branches' Corner

ASHRAE CityU Student Branch

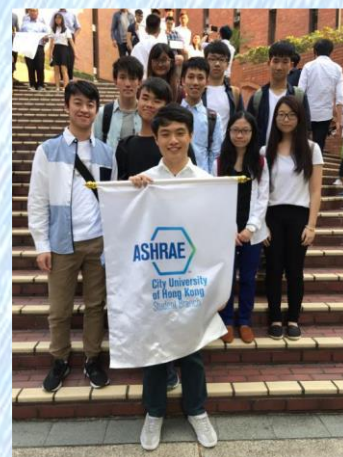
ASHRAE student branch of City University of Hong Kong was established in 2000. We keep continuously providing different types of activities for our student members for all these years, such as technical seminar and entertainment during weekends or holidays with very positive feedbacks. It is our motivation and mission to keep the good work going and improve in the following year.

2018 is coming. Our new year's resolution is to make ASHARE students branches in Hong Kong become more united and well-connected. We have planned a few joint events with other ASHRAE student branches or from other societies, such as friendly match of sports and some technical visits. We believe that it can create more exchange opportunities for ASHRAE student members.

If you are interested to get the information of the events, please feel free to follow our Facebook page with keyword CityU ASHRAE student branch to look up the latest update!



ASHRAE CityU Student Branch 2017- 2018	
President	Luk Kin Hei, Glory
Internal Vice President	Lui Siu Fung, Andy
External Vice President	Chiu Wai Cheong, Derek
Treasurer	Leung Mo Tsz, Shirley
Secretary	Leung Cho Ying, Candy
Membership Promotion Secretary	Li Dehui, Jay
Publicity Secretary	Chan Wai Tak, Daniel
Program Secretary	Wan Cheung Chun, Owen
Reception Secretary	Ho Yuen Ying, Sharon
Webmaster	Fan Man Ho, Nigel





8.3 Student Branches' Corner

ASHRAE HKU Student Branch

The University of Hong Kong (HKU) Student Branch was founded on 16th January 2002 by a group of students studying Mechanical Engineering and Building Services Engineering. The aims and objectives of the student branch are promoting heating, ventilation, air conditioning and refrigerating to the students in HKU through organizing technical visits, social functions and seminars. Also, the student branch would welcome all students interested in developing their professional careers in building services industry to join the student branch.



This year, the student branch plans two technical visits in spring and early summer 2018. Also, continuous class promotions will be performed and we will look forward to co-organize more diversified academic and social activities with other student branches or societies in Hong Kong.

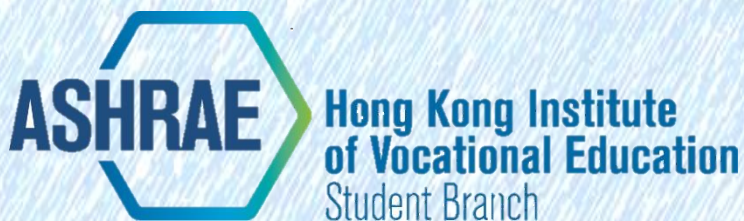
ASHRAE HKU Student Branch 2017- 2018	
President	Mr. Law Tin Shing Raymond
Internal Vice President	Mr. Chung Hing Kit
External Vice President	Mr. So Tsun Hin Patrick
Treasurer	Mr. Chan Wing Yin
Secretary	Mr. Lin Wai Keung Howard
Membership Promotion Secretary	Mr. Sze To Ka Wa Andy
Publicity Secretary	Ms. Tam Suet Yin Sue
Webmaster	Mr. Wong Chak Nang Leon





8.4 Student Branches' Corner

ASHRAE IVE Student Branch



Hong Kong Institute of Vocational Education (HKIVE) Student Branch is formed by students studying in Building Services Engineering. Most of our students would like to learn more knowledge, which could help them to pursue a career in the Building Services Engineering Industry. The goal is to provide more events, such as site-visit or academic talk, in order to widen their horizons.

In this year, our student branch is proposed to organize a site-visit and a talk.

In 2018, there will be a site-visit to the International Finance Centre (IFC) in Hong Kong and a talk about the technology of VRF system, which are planning.

ASHRAE IVE Student Branch 2017- 2018

President	Mr. Chu Yiu Kei
External Vice President	Mr. Fan Wan Kit
Internal Vice President	Mr. Wong Man Kin
Membership Promotion Secretary	Mr. Chan Sui Hing
Reception Secretary	Mr. Ip Ka Wun
Treasurer	Mr. Leung Ho Ching
Secretary	Ms. Lui Lai Shan
Program Secretary	Mr. Yip Chin Fung
Webmaster	Mr. Chang Yu Ho
Publicity Secretary	Mr. Kwong Wai Kit



8.5 Student Branches' Corner

ASHRAE HKUST Student Branch



The Hong Kong University of Science and Technology (HKUST) Student Branch was formed by a group of students majoring in mechanical engineering at HKUST on 26th January 2006. Without a specific major in building services provided by the school, mechanical engineering graduates from HKUST are still interested in the building services industry and would like to know more information from this industry. Therefore, the interested students joined ASHRAE Hong Kong Chapter and formed the HKUST Student Branch to provide more activities and site-visit opportunities to HKUST students.

In this school year, the branch has planned three site-visit events and they are the visits to The House of Dancing Water in Macau, Tuen Mun Hydropower Plant and Grand Resort Deck in Macau or Chime long Water Park in Panyu.

ASHRAE HKUST Student Branch 2017- 2018	
President	Mr. Yeung Tsz Fung Charles
Internal Vice President	Mr. Shiu Tin Yau Michael
External Vice President	Mr. Lui Wai Chung Derek
Treasurer	Ms. Choi Yuen Ching Cherry
Secretary	Mr. Luk Hin Shing Kyle
Membership Promotion Secretary	Ms. Lai Yuen Yu Ashley
Publicity Secretary	Mr. Wong Kwong Ching Jacky
Program Secretary	Mr. Cheng hum Lok Steven
Reception Secretary	Ms. Pak Hau Yung Cathy





8.6 Student Branches' Corner

ASHRAE Thei Student Branch



Technological and Higher Education Institute of Hong Kong
Student Branch

THEi was set up in 2012 vocationally and professionally oriented and developed with significant industry input, with by the Vocational Training Council of Hong Kong to offer degree programs in niche areas, combining areas of study in Hong Kong which is much needed by it. They enable students to apply specialized knowledge and skills to real-world issues. All programs are accredited by the Hong Kong Council for Accreditation of Academic and Vocational Qualifications and by professional bodies in Hong Kong and overseas. In short, THEi aims to produce work-ready graduates.



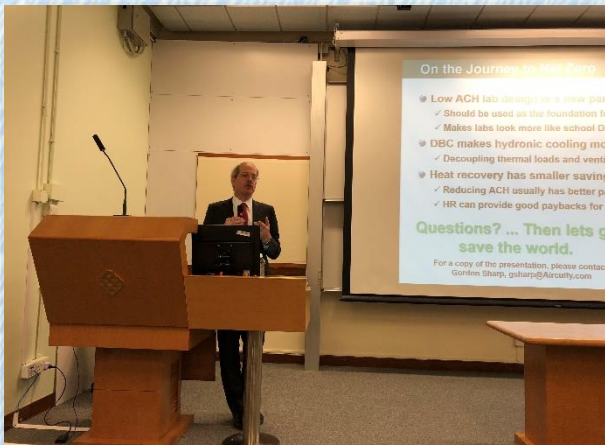
THEi ASHRAE student branch also set up in 2016. we enhance THEi students' interests in HVAC&R technologies, we will organize or publicize various functions and activities for THEi students such as:

- Technical seminars, Talks and Visits
- Training Courses and Workshops
- Gathering Meetings
- China-Hong Kong Symposia
- Joint-Institution Study Tour
- Professional Course

ASHRAE Thei Student Branch 2017- 2018	
President	Mr. KWOK Tsz Yin
Internal Vice President	Mr. WONG Kin Shing
External Vice President	Mr. CHING Man Kit
Treasurer	Ms. CHIU Wing Kei
Secretary	Mr. CHAN Tak Hei
Membership Promotion Secretary	Mr. CHAN Hei Nam
Publicity Secretary	Mr. LO Tak Chi
Program Secretary	Mr. SO Ka Him
Reception Secretary	Mr. CHEN Si Tong
Reception Secretary	Mr. WONG Wai Lok
Webmaster	Mr. KWONG Hiu Fai

9. Chapter Programs Committee

Technical Seminar on “Building a Net Zero Lab in the United Arab Emirates: Mission Impossible?”



AHRAE Hong Kong Chapter had joint organized a technical seminar with HKIE BSD and CIBSE, titled “Building a Net Zero Lab in the United Arab Emirates: Mission Impossible?” on 28 September 2017 (Thursday) in a lecture theatre FJ304, The Hong Kong Polytechnic University.

In this evening, around 77 participants attended the technical seminar. In the beginning, Chapter Program Chair, delivered a welcoming address to all participants and introduced the background of honorable speaker, Gordon P. Sharp, who

is Distinguished Lecturer of ASHRAE.

During the seminar, Mr. Sharp highlighted several key design features and engineering concepts on high efficiency laboratory. He also shared his project experience in designing a net zero lab in extreme climate for consideration in building sustainability.

Being interested in the globally concerned engineering topic, participants raised questions for more details in laboratory designs and their implementation in the Q&A session. With the enthusiastic discussion, the technical seminar was ended at 8:50p.m. Finally, Mr Michael Sung, President (2017-18), represented ASHRAE Hong Kong Chapter to present Certificate of Appreciation and expressed gratitude to Mr. Sharp for conducting such valuable seminar.



Hong Kong Chapter President Mr. Michael Sung presented the certificate of Appreciation to Gordon P. Sharp, together with the organizing committees

Reported by: Ms. Cindy Pun
Chapter Program Chair



10. Mainland Relations Committee

晉·港 2017 建築設備工程技術交流研討會



自一九九八年開始，香港及內地的屋宇裝備（設備）專業人士透過舉辦技術交流研討會來交換經驗及擴闊網絡以提高專業水平，舉辦至今已二十周年，本次技術研討會於二零一七年六月廿九日至七月一日假山西省太原市順利舉行。是次活動由香港工程師學會、美國採暖、制冷與空調工程師學會 -- 香港分會、英國屋宇裝備工程師學會 -- 香港分會、香港理工大學屋宇裝備學系、山西

省土木建築學會暖通空調專業委員會、山西省土木建築學會熱能動力專業委員會與山西制冷學會空調熱泵專業委員會合辦。與會專家學者逾一百五十人，濟濟一堂，為研討會帶來各項新技術之熱烈討論。

本屆主題為「智慧城市 - 科技創未來」，論文共十五篇。此外，雙方亦就〈板片蒸發冷凝式無霜熱泵〉和〈典型暖通空調案例設計介紹〉進行了深入的探討。由大會主席香港工程師學會會長傅保華工程師亦在會中為大會致開幕歡迎詞及學會介紹，而美國採暖、制冷與空調工程師學會 -- 香港分會會長宋家樑先生亦作學會介紹并致閉幕詞。在這兩天會議中，各團員能增廣見聞及鞏固團員間之友誼，對推廣屋宇裝備專業起了積極作用。我們藉此向參與人士、贊助商及籌委會致謝，並期待 2019 年舉辦之研討會。





11. Young Members Committee

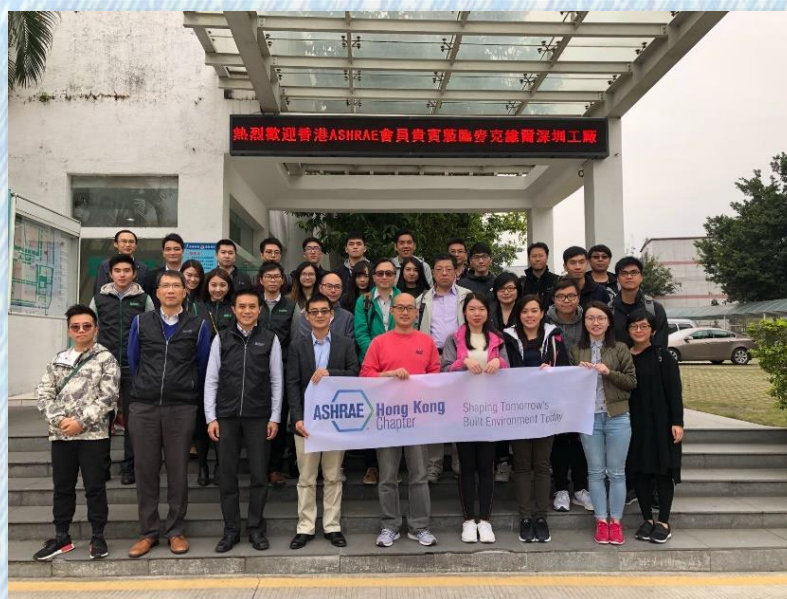
Technical Visit to McQuay & AAF Factories

Under the Chapter Opportunity Fund, YEA from ASHRAE Hong Kong Chapter had organized a technical visit to McQuay & AAF Factories on 25 Nov 2017 (Saturday) in order to encourage students to transfer their membership to Associate grade member by promoting the corresponding benefits. It aims at attracting potential members to join our big family continuously.



Being one of the largest air conditioning, heating, ventilating and refrigeration company in the world, McQuay provides flexible HVAC solutions with reliable products. This visit provided a comprehensive tour of McQuay's production line illustrating how air-conditioning equipment, e.g. split units, fan coil units, air handling units, chillers as well as air filtration products, being manufactured and how testings being carried out in order to guarantee the product quality and performance.

A total of 25 participants joined the technical visit, including 7 ASHRAE members, 6 student members and 12 potential members.



Reported by: Mr. Dino Law
Reception Chair



12.ASHRAE Young Engineer International

The 2017 YLI event was held successfully in Hong Kong during December 8-10, 2017. YEA international 2017 gave us a valuable chance to meet other YEA members in Hong Kong, during which our social and leadership skills had been trained successfully with great fun. This event is an opportunity for you — the future leaders of ASHRAE — to develop soft skills, learn more about the Society, and attain the network with other young professionals around the world.



Reported by: Mr. Taylor Chow
Newsletter and Publication Chair

13. New ASHRAE Hong Kong Chapter Library

ASHRAE Hong Kong Chapter is relocated to following address,

Address: Bright Growth Medical Centre, Unit A,
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Point of Contact: Michael Leung
Telephone No.: 2376 1933

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AHK0003	ASHRAE Journal 10/2012	ASHRAE	N/A	2012	Bookshelf A
AHK0004	ASHRAE Journal 11/2012	ASHRAE	N/A	2012	Bookshelf A
AHK0005	ASHRAE Journal 12/2012	ASHRAE	N/A	2012	Bookshelf A
AHK0005A	ASHRAE Journal 12/2012	ASHRAE	N/A	2012	Bookshelf A
AHK0006	ASHRAE Journal 2/2013	ASHRAE	N/A	2013	Bookshelf A
AHK0006A	ASHRAE Journal 2/2013	ASHRAE	N/A	2013	Bookshelf A
AHK0007	ASHRAE Journal 3/2013	ASHRAE	N/A	2013	Bookshelf A
AHK0007A	ASHRAE Journal 3/2013	ASHRAE	N/A	2013	Bookshelf A
AHK0008	ASHRAE Journal 4/2013	ASHRAE	N/A	2013	Bookshelf A
AHK0008A	ASHRAE Journal 4/2013	ASHRAE	N/A	2013	Bookshelf A
AHK0009	ASHRAE Journal 5/2013	ASHRAE	N/A	2013	Bookshelf A
AHK0010	ASHRAE Journal 6/2013	ASHRAE	N/A	2013	Bookshelf A
AHK0011	ASHRAE Journal 7/2013	ASHRAE	N/A	2013	Bookshelf A
AHK0011A	ASHRAE Journal 7/2013	ASHRAE	N/A	2013	Bookshelf A
AHK0012	ASHRAE Journal 8/2013	ASHRAE	N/A	2013	Bookshelf A
AHK0013	ASHRAE Journal 9/2013	ASHRAE	N/A	2013	Bookshelf A
AHK0014	ASHRAE Journal 10/2013	ASHRAE	N/A	2013	Bookshelf A
AHK0014A	ASHRAE Journal 10/2013	ASHRAE	N/A	2013	Bookshelf A
AHK0015	ASHRAE Journal 11/2013	ASHRAE	N/A	2013	Bookshelf A
AHK0015A	ASHRAE Journal 11/2013	ASHRAE	N/A	2013	Bookshelf A
AHK0016	ASHRAE Journal 12/2013	ASHRAE	N/A	2013	Bookshelf A
AHK0016A	ASHRAE Journal 12/2013	ASHRAE	N/A	2013	Bookshelf A
AHK0017	ASHRAE Journal 1/2014	ASHRAE	N/A	2014	Bookshelf A
AHK0018	ASHRAE Journal 2/2014	ASHRAE	N/A	2014	Bookshelf A
AHK0019	ASHRAE Journal 3/2014	ASHRAE	N/A	2014	Bookshelf A
AHK0020	ASHRAE Journal 5/2014	ASHRAE	N/A	2014	Bookshelf A
AHK0021	ASHRAE Journal 6/2014	ASHRAE	N/A	2014	Bookshelf A
AHK0022	ASHRAE Journal 8/2014	ASHRAE	N/A	2014	Bookshelf A
AHK0023	ASHRAE Journal 9/2014	ASHRAE	N/A	2014	Bookshelf A
AHK0024	ASHRAE Journal 12/2014	ASHRAE	N/A	2014	Bookshelf A
AHK0025	ASHRAE Journal 2/2015	ASHRAE	N/A	2015	Bookshelf A
AHK0026	ASHRAE Journal Summer 2015	ASHRAE	N/A	2015	Bookshelf A
AHK0027	ASHRAE Journal 8/2016	ASHRAE	N/A	2016	Bookshelf A
AHK0028	ASHRAE Journal 9/2016	ASHRAE	N/A	2016	Bookshelf A
AHK0029	ASHRAE Journal 10/2016	ASHRAE	N/A	2016	Bookshelf A
AHK0030	ASHRAE Journal 11/2016	ASHRAE	N/A	2016	Bookshelf A
AHK0031	ASHRAE Journal 12/2016	ASHRAE	N/A	2016	Bookshelf A
AHK0032	ASHRAE Journal 2/2017	ASHRAE	N/A	2017	Bookshelf A
AHK0033	ASHRAE Journal 1/2001	ASHRAE	N/A	2001	Bookshelf A
AHK0034	ASHRAE Journal 5/2001	ASHRAE	N/A	2001	Bookshelf A
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AHK0036	ASHRAE Journal 7/2001	ASHRAE	N/A	2001	Bookshelf A
AHK0037	ASHRAE Journal 9/2001	ASHRAE	N/A	2001	Bookshelf A
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AHK0039	ASHRAE Journal 11/2001	ASHRAE	N/A	2001	Bookshelf A
AHK0040	ASHRAE Journal 12/2001	ASHRAE	N/A	2001	Bookshelf A
AHK0041	ASHRAE Journal 1/2002	ASHRAE	N/A	2002	Bookshelf A
AHK0042	ASHRAE Journal 3/2002	ASHRAE	N/A	2002	Bookshelf A



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AHK0044	ASHRAE Journal 6/2002	ASHRAE	N/A	2002	Bookshelf A
AHK0045	ASHRAE Journal 7/2002	ASHRAE	N/A	2002	Bookshelf A
AHK0046	ASHRAE Journal 9/2002	ASHRAE	N/A	2002	Bookshelf A
AHK0047	ASHRAE Journal 10/2002	ASHRAE	N/A	2002	Bookshelf A
AHK0048	ASHRAE Journal 12/2002	ASHRAE	N/A	2002	Bookshelf A
AHK0049	ASHRAE Journal 3/2003	ASHRAE	N/A	2003	Bookshelf A
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AHK0051	ASHRAE Journal 8/2003	ASHRAE	N/A	2003	Bookshelf A
AHK0052	ASHRAE Journal 9/2003	ASHRAE	N/A	2003	Bookshelf A
AHK0053	ASHRAE Journal 10/2003	ASHRAE	N/A	2003	Bookshelf A
AHK0054	ASHRAE Journal 11/2003	ASHRAE	N/A	2003	Bookshelf A
AHK0055	ASHRAE Journal 12/2003	ASHRAE	N/A	2003	Bookshelf A
AHK0056	ASHRAE Journal 1/2004	ASHRAE	N/A	2004	Bookshelf A
AHK0057	ASHRAE Journal 2/2004	ASHRAE	N/A	2004	Bookshelf A
AHK0058	ASHRAE Journal 4/2004	ASHRAE	N/A	2004	Bookshelf A
AHK0059	ASHRAE Journal 5/2004	ASHRAE	N/A	2004	Bookshelf A
AHK0060	ASHRAE Journal 7/2004	ASHRAE	N/A	2004	Bookshelf A
AHK0061	ASHRAE Journal 8/2004	ASHRAE	N/A	2004	Bookshelf A
AHK0062	ASHRAE Journal 9/2004	ASHRAE	N/A	2004	Bookshelf A
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AHK0064	ASHRAE Journal 11/2004	ASHRAE	N/A	2004	Bookshelf A
AHK0065	ASHRAE Journal 1/2005	ASHRAE	N/A	2005	Bookshelf A
AHK0131	HKIE Journal 4/2013	HKIE	N/A	2013	Bookshelf A
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AHK0133	HKIE Journal 6/2013	HKIE	N/A	2013	Bookshelf A
AHK0134	HKIE Journal 8/2013	HKIE	N/A	2013	Bookshelf A
AHK0135	HKIE Journal 11/2013	HKIE	N/A	2013	Bookshelf A
AHK0136	HKIE Journal 12/2013	HKIE	N/A	2013	Bookshelf A
AHK0137	HKIE Journal 1/2014	HKIE	N/A	2014	Bookshelf A
AHK0138	HKIE Journal 2/2014	HKIE	N/A	2014	Bookshelf A
AHK0139	HKIE Journal 3/2014	HKIE	N/A	2014	Bookshelf A
AHK0140	HKIE Journal 4/2014	HKIE	N/A	2014	Bookshelf A
AHK0141	HKIE Journal 5/2014	HKIE	N/A	2014	Bookshelf A
AHK0142	HKIE Journal 7/2014	HKIE	N/A	2014	Bookshelf A
AHK0143	HKIE Journal 8/2014	HKIE	N/A	2014	Bookshelf A
AHK0144	HKIE Journal 9/2014	HKIE	N/A	2014	Bookshelf A
AHK0145	HKIE Journal 10/2014	HKIE	N/A	2014	Bookshelf A
AHK0146	HKIE Journal 12/2014	HKIE	N/A	2014	Bookshelf A
AHK0147	HKIE Journal 1/2015	HKIE	N/A	2015	Bookshelf A
AHK0148	HKIE Journal 2/2015	HKIE	N/A	2015	Bookshelf A
AHK0149	HKIE Journal 3/2015	HKIE	N/A	2015	Bookshelf A
AHK0150	HKIE Journal 4/2015	HKIE	N/A	2015	Bookshelf A
AHK0151	HKIE Journal 6/2015	HKIE	N/A	2015	Bookshelf A
AHK0152	HKIE Journal 7/2015	HKIE	N/A	2015	Bookshelf A
AHK0153	HKIE Journal 8/2015	HKIE	N/A	2015	Bookshelf A
AHK0154	Joint Symposium 2010	CIBSE, HKIE, ASHRAE, Poly U	N/A	2010	Bookshelf A
AHK0155	HKIE 25th Anniversary	HKIE	N/A	2012	Bookshelf A
AHK0156	3rd Asia-Pacific Conference on Building Commissioning Proceedings	HKBCXC	N/A	2008	Bookshelf A
AHK0157	LED Architectural & Underwater	SPEC	N/A	2008	Bookshelf A
AHK0158	Piano Pienes for Children	Amsco Music	N/A	1951	Bookshelf A



AHK0159	Liaoning (Dalian) - Hong Kong Joint Symposium 2010	ASHRAE, CIBSE, HKIE, Poly U, SoF, DIADR, DUT	N/A	2010	Bookshelf A
AHK0159A	Liaoning (Dalian) - Hong Kong Joint Symposium 2010	ASHRAE, CIBSE, HKIE, Poly U, SoF, DIADR, DUT	N/A	2010	Bookshelf A
AHK0160	ASHRAE Journal 4/2014	ASHRAE	N/A	2014	Bookshelf A
AHK0161	Fan Efficiency Regulations: Where are they going?	AMCA	N/A	2012	Bookshelf A
AHK0162	Utility Protection & Work Safety in Road Excavation 2005-2007	HKIUS, UTI, HKIE-SSC, HKAASST	N/A	2007	Bookshelf A
AHK0163	ASHRAE 25th Anniversary	ASHRAE	N/A	2009	Bookshelf A
AHK0163A	ASHRAE 25th Anniversary	ASHRAE	N/A	2009	Bookshelf A
AHK0164	Henan-Hong Kong Joint Symposium 2008	CIBSE, HKIE, ASHRAE, Poly U	N/A	2008	Bookshelf A
AHK0165	IIC LED Lighting System	HKIE, IET	N/A	2008	Bookshelf A
AHK0166	HKFEMC 8th Anniversary	HKFEMC	N/A	2009	Bookshelf A
AHK0167	High Performance Building Vol. 6, No. 4	HPB	N/A	2013	Bookshelf A
AHK0168	Building Automation Systems	JEC	N/A	2007	Bookshelf A
AHK0169	Metasys delivers more...Mobility, Productivity, Sustainability...	Johnson Controls	N/A	2010	Bookshelf A
AHK0170	ANSI/ASHRAE Standard 135-1995	ASHRAE	N/A	2000	Bookshelf A
AHK0171	Shangdong-Hong Kong Joint Symposium 2003	HKIE, ASHRAE, CIBSE, Poly U	N/A	2003	Bookshelf A
AHK0171A	Shangdong-Hong Kong Joint Symposium 2003	HKIE, ASHRAE, CIBSE, Poly U	N/A	2003	Bookshelf A
AHK0172	Shenyang-Hong Kong Joint Symposium 2004	ASHRAE, CIBSE, HKIE	N/A	2004	Bookshelf A
AHK0172A	Shenyang-Hong Kong Joint Symposium 2004	ASHRAE, CIBSE, HKIE	N/A	2004	Bookshelf A
AHK0173	Handbook of Air Conditioning and Refrigeration	McGraw-Hill	Shan K. Wang	2001	Bookshelf A
AHK0174	Renewing ASHRAE International Headquarters	ASHRAE	N/A	-	Bookshelf A
AHK0175	ASHRAE IAQ Applications Vol. 7, No. 2	ASHRAE	N/A	2006	Bookshelf A
AHK0176	Energy University	Schneider Electric	N/A	2010	Bookshelf A
AHK0177	A Bright Future Ahead!	CIBSE	N/A	-	Bookshelf A
AHK0178	Renewable Energy Solution	ATAL	N/A	-	Bookshelf A
AHK0178A	Renewable Energy Solution	ATAL	N/A	-	Bookshelf A
AHK0179	Energy Efficient Lighting Solution	ATAL	N/A	-	Bookshelf A
AHK0179A	Energy Efficient Lighting Solution	ATAL	N/A	-	Bookshelf A
AHK0180	Downlight DL1812	ATAL	N/A	-	Bookshelf A
AHK0180A	Downlight DL1812	ATAL	N/A	-	Bookshelf A
AHK0181	LED Downlight DL1807	ATAL	N/A	-	Bookshelf A
AHK0181A	LED Downlight DL1807	ATAL	N/A	-	Bookshelf A
AHK0182	Downlight DL383R	ATAL	N/A	-	Bookshelf A
AHK0183	Light Up with LED	AZ e-lite	N/A	-	Bookshelf A
AHK0183A	Light Up with LED	AZ e-lite	N/A	-	Bookshelf A
AHK0184	2012 ASHRAE Winter Conference	ASHRAE	N/A	2012	Bookshelf A
AHK0185	Poly U Faculty of Engineering Newsletter	Poly U	N/A	2008	Bookshelf A
AHK0186	Performance of Vacuum Tube and Flat Plate Collectors Concerning Domestic Hot Water Preparation and Room Heating	ESTEC	Christoph Tinkl, Wilfried Zorner, Claus	2005	Bookshelf A
AHK0187	Cold Climate HVAC	Danvak		2009	Bookshelf A



AHK0188	Changes for the Betterment of the Building Services Profession in Hong Kong	HKIE, Poly U	N/A	2010	Bookshelf A
AHK0189	HVAC Retrofit	ASHRAE	N/A	2004	Bookshelf A
AHK0190	100 Years of Refrigeration	ASHRAE	N/A	2004	Bookshelf A
AHK0191	ASHRAE's Sustainability Roadmap	ASHRAE	N/A	2006	Bookshelf A
AHK0191A	ASHRAE's Sustainability Roadmap	ASHRAE	N/A	2006	Bookshelf A
AHK0192	ASHRAE Handbook (2012 HVAC Systems and Equipment)	ASHRAE	N/A	2012	Bookshelf A
AHK0193	ASHRAE Handbook (2014 Refrigeration)	ASHRAE	N/A	2014	Bookshelf A
AHK0194	Efficient Build Environment for Tomorrow - Joint Symposium 2006	ASHRAE, CIBSE, HKIE, Poly U	N/A	2006	Bookshelf A
AHK0194A	Efficient Build Environment for Tomorrow - Joint Symposium 2006	ASHRAE, CIBSE, HKIE, Poly U	N/A	2006	Bookshelf A
AHK0194B	Efficient Build Environment for Tomorrow - Joint Symposium 2006	ASHRAE, CIBSE, HKIE, Poly U	N/A	2006	Bookshelf A
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AHK0194F	Efficient Build Environment for Tomorrow - Joint Symposium 2006	ASHRAE, CIBSE, HKIE, Poly U	N/A	2006	Bookshelf A
AHK0194G	Efficient Build Environment for Tomorrow - Joint Symposium 2006	ASHRAE, CIBSE, HKIE, Poly U	N/A	2006	Bookshelf A
AHK0195	Achieving Sustainable Performance in Built Environment - Joint Symposium 2002	HKIE, ASHRAE, CIBSE, Poly U	N/A	2002	Bookshelf A
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AHK0195C	Achieving Sustainable Performance in Built Environment - Joint Symposium 2002	HKIE, ASHRAE, CIBSE, Poly U	N/A	2002	Bookshelf A
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AHK0195I	Achieving Sustainable Performance in Built Environment - Joint Symposium 2002	HKIE, ASHRAE, CIBSE, Poly U	N/A	2002	Bookshelf A
AHK0195J	Achieving Sustainable Performance in Built Environment - Joint Symposium 2002	HKIE, ASHRAE, CIBSE, Poly U	N/A	2002	Bookshelf A
AHK0196	Hubei-Hong Kong Joint Symposium 2005	CIBSE, HKIE, ASHRAE, Poly U	N/A	2005	Bookshelf A
AHK0197	Chongqing - Hong Kong Joint Symposium 2002	HKIE, ASHRAE, CIBSE, Chongqing U, Poly U	N/A	2002	Bookshelf A
AHK0198	Technical Workshop on High Voltage Distribution System in Buildings - Configuration & Protection	ASHRAE, HKIE, CIBSE, IEE	N/A	2002	Bookshelf A

AHK0199	Towards Environmental Sustainability Joint Symposium 2001	HKIE, ASHRAE, CIBSE, Poly U, EECS	N/A	2001	Bookshelf A
AHK0200	One-day Seminar on Hot Smoke Test	HKIE, ASHRAE, CIBSE	N/A	1999	Bookshelf A
AHK0201	HVAC Systems Approach the 21st Century	ASHRAE	N/A	1999	Bookshelf A
AHK0202	中區連絡處成立特刊	台灣省冷凍空調工程技師公會	N/A	2001	Bookshelf A
AHK0203	遼寧-香港暖通空調研討會	遼寧省土木建築學會暖通空調專業委員會 遼寧省制冷學會空調制冷專業委員會	N/A	2004	Bookshelf A
AHK0204	滬港澳台智能建築工程與新技術研討會	上海市電子學會 亞洲智能建築學會	N/A	2005	Bookshelf A
AHK0205	Symposium on Energy and Environment in the New Era	IE, HKIE, ASHRAE, CIBSE	N/A	2001	Bookshelf A
AHK0206	Second Power Symposium 2002 Modern Building Electrical Systems Status Quo & Issues	IEE	N/A	2002	Bookshelf A
AHK0207	The Intelligent Building Index (IBI) Manual	AIIB	N/A	2001	Bookshelf A
AHK0208	Proceedings of Local Symposium on Intelligent Systems, Structures & Facilities 2002	AIIB	N/A	2002	Bookshelf A
AHK0209	A Management Practice Guidance Note on Air Duct Cleaning for Hong Kong	AIIB, BSOMES, HKACRA, HKBCXC	N/A	2004	Bookshelf A
AHK0210	Asia Pacific Conference 2003 on Built Environment	ASHRAE, HKIE, CIBSE, Poly U, EMSD	N/A	2003	Bookshelf A
AHK0211	Servicing Dense Built Environments Joint Symposium 2004	CIBSE, HKIE, ASHRAE, Poly U	N/A	2004	Bookshelf A
AHK0212	智能建築	清華大學	張瑞武	1997	Bookshelf A
AHK0213	中國工程師學會會刊Vol. 79, No. 2	中國工程師學會	N/A	1995	Bookshelf A
AHK0214	Engineering for Sustainability	ASHRAE	N/A	2006	Bookshelf A
AHK0215	ASHRAE Publications and Courses	ASHRAE	N/A	2006	Bookshelf A
AHK0215A	ASHRAE Publications and Courses	ASHRAE	N/A	2006	Bookshelf A
AHK0216	2006 ASHRAE Annual Meeting Quebec City	ASHRAE	N/A	2006	Bookshelf A
AHK0216A	2006 ASHRAE Annual Meeting Quebec City	ASHRAE	N/A	2006	Bookshelf A
AHK0217	2007 ASHRAE Winter Meeting	ASHRAE	N/A	2007	Bookshelf A
AHK0218	Manual for Chapter Operations	ASHRAE	N/A	1998	Bookshelf A
AHK0219	LPC Workshop	HKIE, IFE, LPC, CIBSE, FSICA	N/A	1999	Bookshelf A
AHK0220	CIBSE Hong Kong Branch 25th Anniversary	CBISE	N/A	2004	Bookshelf A
AHK0221	HKIE BS Division 20th Anniversary	HKIE	N/A	2007	Bookshelf A
AHK0222	Green Energy & Utilisation - Reality or Idealism	IEE	N/A	2005	Bookshelf A
AHK0223	Professional Workshop on Forefront of Building Services Design and Technologies	HKIE, ASD, CIBSE	N/A	2006	Bookshelf A
AHK0224	Final Design Report - Serviced Apartment & Complex Building at Tsuen Wan	City U	Chen Chi Kit	2005	Bookshelf A
AHK0225	Position Paper on Prevention and Reducing Risk from Spreading of SARS Virus in Buildings via Building Services Systems	BSOMES	N/A	2003	Bookshelf A
AHK0226	Proceeding of International Conference on Intelligent Systems, Structures & Facilities	AIIB, City U	N/A	2007	Bookshelf A



AHK0227	ASHRAE Learning Insutute In-company Seminars	ASHRAE	N/A	2001	Bookshelf A
AHK0227A	ASHRAE Learning Insutute In-company Seminars	ASHRAE	N/A	2001	Bookshelf A
AHK0228	Quality Student Project Campaign	ASHRAE, City U	Li Ka Chim	2006	Bookshelf A
AHK0229	ASHRAE Handbook (2013 Fundamentals)	ASHRAE	N/A	2013	Bookshelf A
AHK0230	ASHRAE Handbook (2015 HVAC Applications)	ASHRAE	N/A	2015	Bookshelf A
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Tuesday, September 19, 2017 – 1:00 p.m. to 4:00 p.m.

Laboratory Design: The Basics and Beyond
Tuesday, October 10, 2017 – 1:00 p.m. to 4:00 p.m.

Introduction to Ultraviolet Germicidal Irradiation (UVGI) Systems
Monday, October 16, 2017 – 1:00 p.m. to 4:00 p.m.

NEW! Complying with Standard 90.1-2016
Part I: Wednesday, November 1, 2017 – 1:00 p.m. to 4:00 p.m.
Part II: Tuesday, November 7, 2017 – 1:00 p.m. to 4:00 p.m.

NEW! Variable Refrigerant Flow System: Design & Application
Wednesday, November 29, 2017 – 1:00 p.m. to 4:00 p.m.

NEW! New ASHRAE-Classified Refrigerants to Meet Society's Changing Needs
Tuesday, December 5, 2017 – 1:00 p.m. to 4:00 p.m.

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