



# NEWSLETTER

## Presidential Address

Happy New Year to all ASC Members.

My deepest appreciation to all ASC Members as we concluded 2019 with successes. One of its exciting events was our Bilateral Meeting, held in November 2019 with MASHRAE in Kukup, Malaysia. ASC, the host chapter, chaired the meeting to review and discuss various operational challenges. The meeting concluded with greater understandings and collaboration between the two Chapters.



2020 promises to be another exciting year and I'm looking forward to working with everyone closely. The Board of Governance (BOG) and I will focus on achieving ASC objective in advancing the arts and sciences of air conditioning, ventilation, refrigeration and heating to serve humanity and contribute to promote a sustainable world.

ASC with the continuous support from all Members and our Industry Partners have been growing with increased membership; maintaining and remaining as the Centre of Excellence in its knowledge and technology transfer through technical workshops and organized seminars delivered by dedicated lecturers assigned by ASHRAE Incorporation. Our forthcoming seminars are listed in the ASC websites and we look forward to Members participating in these seminars. Do take advantage of our special rates for early bird's registrations. So, don't miss out these great seminars lined up for you!

Following the meeting held on 30th December 2019, ASC is in the process of updating the 2012 version of ASC Constitution. The Review Committee comprises of our three past presidents, namely, YP Chee, Albert Sin, Leong Cheng Wee and three current Office Bearers, namely Peter Cheng, Patrick Ho and me. An EOGM will be held for Members to cast their votes to pass the revised constitution. An announcement, prior to the Annual General Meeting, will be made to inform the event date. In the meantime, we will be holding our ASC 38th Annual Dinner on 17th July 2020 at the Orchard Hotel Singapore. Similarly, we look forward to your ardent support and attendance.

As we gear towards developing talents and identifying future leaders, we graciously extend invitations to Members who are keen to contribute, provide their expertise to serve the Society through sharing and assuming key appointments in our working committees for our Local Chapters. To ensure a smooth transition volunteering, all interested Members are welcome to attend our monthly meetings as an observer together with our current committee. Once elected, they will assume their appointed roles successfully under the stewardship of Dr Peter Cheng for the new term.

As we usher prosperity into the Lunar New Year of the Rat, be in the best of your red outfits, joining us in our loudest "Huat-Ah" shout-out during our traditional "Loi-Hei" Lunar New Year RP/MP Night on 7th February 2020.

Once again, Thank you for your continuous support. Here's wishing everyone "A Happy Lunar New Year, Gong Xi Fa Cai". 恭喜发财，万事如意!

Florence Chan

President 2019-2020

ASHRAE Singapore Chapter

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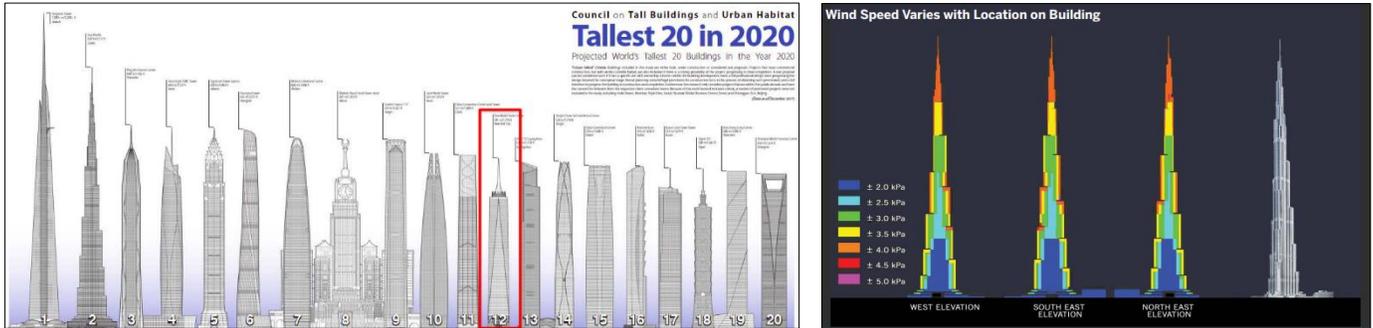
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DL - "21st Century Tall Building Design" and "Net Zero Building vs. Net Zero District"

10<sup>th</sup> OCT 2019

ASC organized ASHRAE Distinguished Lecturer (DL) Seminar by Mr. Luke Leung, PE, Director of SOM, on 10<sup>th</sup> Oct 2019 at Singapore Polytechnic Graduate Guild. He presented two topics in "21st Century Tall Building Design" and "Net Zero Building vs. Net Zero District". 22 participants from various industries attended the seminar.



In the seminar he provided an overview of the microclimates of tall buildings, in particular, the impact of climate and air contaminants on tall buildings. The topics include: the integration of tall buildings within the city to achieve optimal energy performances; the latest stack effect data, monitoring, and control; elevator door opening sequences and their impact on elevator shaft pressure; the integration of natural ventilation in tall buildings; how energy consumption changes with height; and cloud computing and advanced modeling techniques on tall building design.

He also discussed the advantages that can be offered by Net Zero Buildings (NZB) and Net Zero District (NZD). A design process was proposed to achieve NZB/NZD that begins with optimizing the architectural systems to reduce the energy requirements of buildings and then apply practical alternative energy strategies at the building level.



## Asia Pacific Conference on the Built Environment (APCBE)

18<sup>th</sup>, 19<sup>th</sup> OCT 2019

The 15<sup>th</sup> APCBE was held at Taiwan on 18<sup>th</sup> and 19<sup>th</sup> Oct 2019. Three representatives from Singapore Chapter presented three papers at the conference. The APCBE played as a good platform in Region XIII for the chapters to communicate on the recent researches, studies and development in the field of built environment, continued to serving as a social and networking platform for ASHRAE members.



## Bilateral Meeting with Malaysia Chapter

09, 10 NOV 2019

ASHRAE Singapore Chapter hosted the 30<sup>th</sup> bilateral meeting with Malaysia Chapter at Kukup, Johor, Malaysia. There were 6 BOG members from Singapore Chapter attended the meeting. The cooperation between the two chapters are discussed in the meeting. The discussion includes but not limit to below:

Chairs from Malaysia, Singapore and Philippines Chapter to communicate further on this collaboration for ASHRAE design competition.

CTTC Chairs to continue exchange schedule of events. The schedule is to be published by both sides.



## Call for Committee Volunteers

ASC depend on our members to volunteer their time and expertise to carry out the mission and work of the organization towards advancing the arts and sciences of air conditioning, ventilation, refrigeration and heating. Volunteering at the Chapter level helps you develop a better understanding of how the Society functions and how to receive the most benefit from your membership while contributing to the growth of ASHRAE. If you are looking to enrich your ASHRAE experience and contribute to the field of HVAC&R, we welcome you to join our Chapter Committee. The following are committees which you can join:

- Membership Promotion
- Student Activities
- Research Promotion
- Chapter Technology Transfer
- Government Affairs
- Young Engineers in ASHRAE
- Publicity and Publication
- Refrigeration

Please send email to [volunteer@ashrae.org.sg](mailto:volunteer@ashrae.org.sg) indicate your preferred committee to join and we'll get in touch with you.

The responsibility of each committee as follows:

### •Membership Promotion Committee

The responsibilities typically include:

- A. Attracting new members who will be active in the Society, locally and/or at the Society level
- B. Encouraging membership from all segments of the industry
- C. Encouraging advancement to higher grades of membership when candidates' qualifications meet the specified requirements
- D. In conjunction with the Secretary, ascertaining that all prospective chapter members are bona fide members of Society
- E. Reducing the number of member resignations or membership lapses
- F. Advising the President and the Secretary when new members are elected or when members advance in membership grade, to ensure proper recognition at chapter meetings and in chapter publications
- F. Organizing and executing membership drives, including encouraging participation from local consulting firms
- G. Receiving from the Attendance Committee and/or Reception Committee a record of the names of people attending the chapter meetings
- H. Cooperating with and seeking advice from the Membership Promotion Regional Vice Chair
- I. Providing a computer and internet access at chapter meetings so that individuals can join online
- J. Reviewing each member's status to select and recommend nominations for honors and awards
- K. Collaborating with Student Activities Committee and Young Engineers in ASHRAE Committee to encourage students to retain their memberships when they graduate

### •Student Activities Committee

The responsibilities typically include:

- A. Act as liaison between the chapter and area educational institutions
- B. Develop and coordinate awards, scholarships and other student incentives

- C. Encourage the formation and continuing operation of student engineering organizations such as ASHRAE Student Branches
- D. Recruit new student members
- E. Provide information on present and future industry manpower needs at both faculty and student levels, by means of counseling, programs, group discussion, etc.
- F. Promote credit courses in the fields of heating, ventilating, air conditioning and refrigerating at universities, colleges, technical institutes and junior colleges
- G. Provide speakers to college and high school groups
- H. Provide individual counseling to promote HVAC&R fields of interest to college students
- I. Plan use of visual aid presentations for high schools and trade school groups; materials are available through the RVC for Student Activities
- J. Cooperate with and seek advice from the RVC for Student Activities
- K. Provide to the RVC PAOE statistical report forms
- L. Collaborate with the Membership Promotion Committee and Young Engineers in ASHRAE Committee to contact and encourage graduating student members to continue their membership through the SmartStart program. Contact graduating students toward the end of the school year, preferably two or three months prior to the graduation dates.

#### •Research Promotion Committee

The responsibilities typically include:

- A. Attending the CRC and Research Promotion Centralized Training
- B. Communicating effectively the objectives, accomplishments and benefits of ASHRAE research and its value to every Society member and the industry
- C. Increasing the annual income for Society sponsored research through chapter solicitation of members and businesses that directly or indirectly benefit from ASHRAE research
- D. Providing support for and collecting funds for the ASHRAE Foundation and scholarships
- E. Coordinate efforts to obtain chapter Full Circle donations
- F. In collaboration with chapter officers, developing a plan and setting a total goal for funds to be collected
- G. Developing a prospect list of businesses in the area, especially those represented in the Society membership and those in an ASHRAE-related field
- H. Assigning minimum goals for the prospects
- I. Assigning each prospect to a committee member and preparing a detailed program with targeted dates for activities and reports
- J. Following current administrative procedures for collecting and reporting contributions
- K. Completing the Research Promotion Donor Form and submitting it with all checks to Research Promotion.
- L. Maintaining a written record of each activity
- M. Cooperating and coordinating efforts with Regional Vice-Chairs for Research Promotion
- N. Coordinating with chapter officers to ensure that one meeting per year is dedicated to "Research" or "Research Promotion"

#### •Chapter Technology Transfer Committee

The responsibilities typically include:

- A. Coordinating dissemination of technical information in the chapter's geographic area
- B. Promoting and administering the chapter's Technology Awards program and encouraging entries in the regional competition
- C. Keeping the chapter informed on technical issues related to heating, ventilating, refrigeration and air conditioning
- D. Providing assistance to the Chapter Publicity Committee in contacting local news media and chapter

- publications and offering to provide necessary information and material
- E. Providing assistance to the Chapter Historian in maintaining a history of the chapter's technical and energy activities
- F. Reporting to the RVC for the Chapter Technology Transfer Committee
- G. Assisting the RVC for Chapter Technology Transfer to achieve the goals of the Society at the chapter level
- H. Planning the speakers and other logistics of monthly chapter meetings for the year, including reviewing speaker presentations for Commercialism Policy infractions.

#### •Government Affair Committee

The responsibilities typically include:

- A. Providing current, relevant information to chapter members regarding government activities in their communities, including any limitations placed on these activities by local governmental bodies.
- B. Keeping the chapter, region and Society Government Affairs staff informed on relevant governmental activities.
- C. Coordinating dissemination of governmental activities-related information to members and obtaining feedback from chapter and individual member government activities.
- D. Maintaining tools to train and enable chapter members to effect positive interactions with government entities in their communities, especially in the use of Society documents and the advancement of the Society's public policy agenda.
- E. Serving as a clearinghouse of government adoptions of ASHRAE-developed and endorsed standards, guidelines and positions.
- F. Keeping local governments updated on technical issues.
- G. Promoting the appointment of chapter members to local governmental bodies.
- H. Reporting PAOE points earned in accomplishing the committee's goals.
- I. If approved by the BOG, assisting a governmental body in writing or developing a regulation, a code, an ordinance or law, or participating in an advisory group to such a body, provided such activity:
  - a. Does not conflict with Society or chapter bylaws, or Society-approved documents or publications;
  - b. Involves technical or method-of enforcement aspects only, and not support of a political party or candidate; "Chapter cannot speak for Society" policy.
  - c. Does not conflict with any existing Memorandum of Understanding or contractual obligation between ASHRAE and another code or standards writing organization; and
  - d. The member does not request any travel or transportation reimbursement (as defined by the ASHRAE Travel Policy), nor any reimbursement for time away from their regular employment, for the activity.
- J. Providing assistance to the Chapter Publicity Committee (if one exists) in contacting local news media and chapter publications and offering to provide necessary information and material.
- K. Providing assistance to the Chapter Historian in maintaining a history of the chapter's grassroots governmental activities.
- L. Reporting to the Regional Vice Chair (RVC) for the Government Affairs Committee.
- M. Assisting the RVC for Government Affairs to achieve the goals of the Society at the chapter level.
- N. The Chapter GAC chair is responsible for informing chapter members involved in GAC activities of any local statutory or regulatory limitations placed upon government activities.

#### •Young Engineers in ASHRAE Committee

The responsibilities typically include:

- A. Attracting new Young Engineers in ASHRAE who will be actively involved in Society, locally and/or at Society level.

- B. Encouraging membership from all segments of industry
- C. Organizing activities focused at attracting and retaining Young Engineers in ASHRAE
- D. Working with the Student Activities Committee to encourage student transfers

#### •Web Master

The responsibilities typically include:

- A. Serving as the interface between the BOG and the website maintenance company (if one exists) to ensure all items requested by the BOG are uploaded/updated on the chapter's and/or the region's websites
- B. Providing a budget for website activities to the Treasurer
- C. Managing the website budget to include the costs of the website maintenance company and any revenue from business card ads, job postings and online store sales
- D. Ensuring that the chapter's website complies with Society's website policies
- E. Establishing an online payment system for chapter activities

#### •Electronic Communications Committee

- A. Interfacing with the Regional Electronic Communications Chair (RECC), for all questions, concerns and updates to ECC rules and regulations
- B. Attending all BOG meetings
- C. Assisting the BOG in learning and utilizing new software that is available (e.g. web conferencing)
- D. Working with Chapter Technology Transfer Committee, and other relevant committees in setting up and maintaining the chapter's online registration system
- E. Working with Chapter Publications Committee and/or Newsletter Editor to assist with electronic distribution of the Chapter's e-Newsletter, including posting both current and past issues on the Chapter's website and via Social Media
- F. Working with Publicity Committee when using electronic methods of publicity, including Social Media
- G. Performing other duties as assigned by the chapter President

#### •Publications and Publicity Committee

- A. Edit and publish Chapter's Newsletters
- B. Working with Chapter Technology Transfer Committee for advertising Society's events and opportunities
- C. Working with Electronic Communications Committee and Web Master for distributing the Newsletter
- D. Performing other duties as assigned by the chapter President

#### •Refrigeration Committee

The responsibilities typically include:

- A. Cooperating with, coordinating efforts with and seeking advice from the Chapter Technology Transfer Regional Vice Chair and Regional Refrigeration Chair
- B. Promoting the interests and activities of those ASHRAE members whose primary concern is refrigeration
- C. Assisting the Chapter Technology Transfer Committee with chapter sponsored seminars and monthly meeting speakers
- D. Assisting the Student Activities Committee in making arrangements with area educational institutions for continuing education courses and by other available means
- E. Cooperating with the Membership Promotion Committee chair in identifying potential new members who are refrigeration-oriented

ASHRAE Certification

**Certified HVAC Designer (CHD)**



More than 2,750 certifications have been earned by professionals who have demonstrated their knowledge and expertise in the HVAC&R industry. Gain a competitive edge by earning an ASHRAE certification in HVAC design.

The CHD certification validates competency to do the following:

Design HVAC systems to meet building/project requirements, including equipment, equipment sizing, load calculations, mechanical equipment room design, duct and piping design and layout, and develop HVAC plans for permit and construction.

**HVAC Designers**

**Why is earning the ASHRAE Certified HVAC Designer (CHD) credential the best way to gain a competitive edge?**

In a recent “Industry Need” survey, ASHRAE Member respondents who influence the HVAC Designer hiring decision had this to say:

- HVAC Designer certification is a tool to identify competent new hire prospects (74%)
- It is a worthwhile professional development goal (82%)

HVAC Designers themselves agree that earning an HVAC Designer certification would be a “worthwhile professional development goal” (75%) and “help differentiate practitioners from their peers” (70%).

Earning the Certified HVAC Designer (CHD) certification will let your employer, peers and customers know that you have the knowledge, skills and abilities needed to get the job done, and position you for continued recognition and success.

**How do I apply?**

CHD examination opens 3<sup>rd</sup> June at testing centers available worldwide. You must register for and take the examination within 90 days of 3<sup>rd</sup> June, which is 3<sup>rd</sup> September.

Visit [ASHREA Ciftication Webpage](#) for more details.



## Upcoming Events

(More details will be updated on [ASC Website](#))

07<sup>th</sup> Feb 2020 | MP-RP Night & Chinese New Year Celebration | ([direct download registration form](#))

19<sup>th</sup> Feb 2020 (tentatively in MAY 2020) | DL Seminar | Frank Mills. Tentative

24<sup>th</sup> Mar 2020 | DL Seminar | Mick Schwedler

08<sup>th</sup> or 09<sup>th</sup> Jun 2020 | DL Seminar | Terry L. Rodgers

17<sup>th</sup> Jul 2020 | ASC 38<sup>th</sup> Annual Dinner | ([direct download registration form](#))

[End]