

Malaysia NEWSLETTER

35TH ANNIVERSARY

www.ashrae.org.my

MESSAGE FROM THE PRESIDENT

First of all, I am honoured to be delegated with the role of the President for 2020 – 2021 ASHRAE Society Year and to have this opportunity to write a short message for the members. I have always liked new beginnings, and I believe that some of us may share my views.



Mr. Ng Wen Bin

In the ASHRAE context, this leads us to our International President's theme for the 2020-21 ASHRAE Society Year entitled "The ASHRAE Digital Lighthouse and Industry 4.0". From the Society President 2020-21, Mr. Charles E. Gulledge III, P.E., HBDP, LEED AP, Fellow ASHRAE, "Why should we engage in digital transformation? To gain a competitive advantage amongst our peers, position ourselves as the go-to resource for clients, improve margins, provide greater value, and attract and retain a digitally skilled workforce."

It is most significant and challenging that this year is ASHRAE Malaysia Chapter's 35th Anniversary and as an industry leader in research, standards writing, publishing, certification and continuing education, ASHRAE and members are dedicated to promoting a healthy and sustainable built environment for all, through strategic partnerships with an organization in HVAC&R community and across related industries. Therefore, it is timely and appropriate to take stock of our capability and capacity to set our goals for achieving the next quantum leap. To kick-start this next step, the new Board of Governors has approved ASHRAE Malaysia Chapter's 4-year strategy plan 2020-2024 that charts the way forward to what the future holds for us and the HVAC&R industry in general. The future is in our own hands and it looks exciting and promising as there is so much more that we can do together.

We have planned activities that will allow more interaction among members and friends, sharing common interests, ideas and directions. Our focus shall be to liaise with the Government on issues related to environmental, energy efficiency and sustainability. On continuous professional development, we are preparing fundamental courses for HVAC&R and hope to start them by November 2020. We also would like to upgrade our library to be more user-friendly and to provide more books, guidelines and standards. Our website has been just updated. Through it, we hope to reach out to every member in the most cost-effective way.

(Continued to page 2)

The conception of forming ASHRAE Malaysia Chapter was established back in 1984. Then, a Steering Committee was set up in Kuala Lumpur in 1985 and well supported by the Society in order to organize and establish ASHRAE Malaysia Chapter. On 4th April 1986, ASHRAE Malaysia Chapter was registered with The Registry of Societies Malaysia.

This year, ASHRAE Malaysia Chapter celebrates the 35th Jade Anniversary!

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Editorial Team:

Ir. Leong Siew Meng

Dr. Khoo Chun Yong

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In this newsletter, I would like to highlight one of the activities thus far in ASHRAE Malaysia Chapter. We were one of the biggest delegations attending the recent CRC meeting. Unfortunately, due to the COVID-19 pandemic, we could not travel and attend face-to-face meetings and hence, had to participate in the first virtual CRC recently in August 2020.

To conclude my presidential message, this ASHRAE Society session is a challenging term for me with the current COVID-19 pandemic. I can only accomplish the tasks we set by connecting the resourcefulness of this chapter namely, the committees and the members. They have voluntarily contributed their time, energy and effort to make things happen and to make a difference, and for that, I am truly thankful. It is my ardent hope that more ASHRAE Malaysia Chapter members can spare their valuable time and share their knowledge to help with the various activities that we have planned presently and in the near future. There is not only so much more to be accomplished but also so much more to be improved and shared as well. Please join us to achieve sustainability in all facets of our daily living which may influence the continued existence of our future generations. I look forward to working closely with the team to make the most for ASHRAE Malaysia Chapter in the spirit of fellowship.

ANNOUNCEMENT

ASHRAE Malaysia Chapter is now HRDF Registered Training Provider



Another milestone achieved by ASHRAE Malaysia Chapter!

ASHRAE Malaysia Chapter is now the registered training provider under the Human Resources Development Fund (HRDF) Malaysia, the agency under The Ministry of Human Resources Malaysia.

Chapter Service Award

Congratulations to the following members in ASHRAE Malaysia Chapter for being awarded the Society's Chapter Service Award:

1) Loh Soon Wah 2) Adrian Tan Jin Kiat 3) Foo Say Jan

4) Chea Suei Keong 5) Tan Chioo Bin

If You Know...

Chapter Service Award

- Recognizes activities and contributions of members at chapter level.
- Recognition is in the form of a certificate.
- Nominations are made by delegate from candidate's chapter at the Chapters Regional Conference (CRC). Twelve (12) merit points are required for the Chapter Service Award.
- An updated ASHRAE Biographical Record and Point Tally Form are required for the Chapter Service Award (Available via the Honors and Awards web page).
- No Limit on awards per chapter per year in each region.



ANNOUNCEMENT

ASHRAE Malaysia Chapter 35th Annual General Meeting & Election Results for Chapter Officers, BOGs and Committee Chairs 2020-21

ASHRAE Malaysia Chapter 35th Annual General Meeting (AGM) was held via the virtual platform Google Meet from 10:00 a.m. to 12:00 p.m. on July 11, 2020. A total of 36 members, 2 student members and 2 observers attended the AGM.

Agenda of AGM as follows:

- 1) President's welcome note.
- 2) To confirm and adopt the Minutes of last Annual General Meeting held on May 24, 2019.
- 3) To receive the Secretary's Report for the year 2019/20.
- 4) To receive the Audited Treasurer's Report for the year ending December 31, 2019.
- 5) To elect members of the Board of Governors for the year 2020-21.
- 6) To elect Nominating Committee 2021-22.
- 7) To re-appoint external Auditors.
- 8) Other matters arising.
- 9) Adjourn meeting.

The election of ASHRAE Malaysia Chapter Officers and Board of Governors 2020-21p was conducted in the AGM. The Nominating Committee 2020-21 introduced to all members Mr. Ng Wen Bin, Senior Lecturer of HVACR Thermal Fluid Unit, *Universiti Kuala Lumpur Kampus Cawangan Malaysia France Institute*, as the incoming President 2020-21 term for the second consecutive year.

Nominations for President-Elect, Vice President, Honorary Secretary, Honorary Treasurer and Board of Governors (except Immediate Past President) proposed by Nominating Committee which are from the list recommended by individual members. The meeting finally seconded the nominated Officers and BOGs as follows: -

Chapter Officers

President: Mr. Ng Wen Bin
President-Elect: Dr. King Yeong Jin
Vice President: Ir. Chen Thiam Leong
Honorary Secretary: Mr. Lim See Boon
Honorary Treasurer: Mr. Lim Tiong San

Immediate Past President : Ir. Tan Chioo Bin

Board of Governors

1st Ordinary Board Member: Ir. Ng Yong Kong
 2nd Ordinary Board Member: Mr. Tee Tone Vei
 3rd Ordinary Board Member: Mr. Law Kok Zhen

Following the completion of election formality, the incoming President Mr. Ng Wen Bin appointed other officers for his term.

The incoming Officers, BOGs and Committee Chairs will perform their duties commencing from July 11, 2020 to June 30, 2021. To any members who would like to volunteer assisting any Chairs, kindly feel free to contact Committee Chairs listed below for information.

ANNOUNCEMENT

CHAPTER OFFICERS 2020-21



President Mr. Ng Wen Bin ngwenbin@unikl.edu.my



Honorary Secretary Mr. Lim See Boon, Jeffrey jeffreylsb@hotmail.com



President Elect Dr. King Yeong Jin kingyj@utar.edu.my



Honorary Treasurer Mr. Lim Tiong San ts.lim@truwater.com.my



Vice President Ir. Chen Thiam Leong Tlchen55@gmail.com



Immediate Past President Ir. Tan Chioo Bin chioobin@gmail.com

BOARD OF GOVERNORS 2020-21



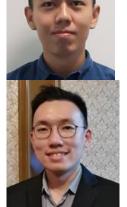
Ordinary Board Member Ir. Ng Yong Kong nyk@nyk.com.my



Chapter Government Affairs Chair Mr. Chea Suei Keong Suei.keong.chea@gmail.com



Ordinary Board Member Mr. Tee Tone Vei teetv@intrixrenewable.com



Chapter Technology Transfer Chair Ir. Leow Chee Huan, Keith zeehuan@gmail.com



Membership Promotion Chair/ Research Promotion Co-Chair Mr. Poh Kai Sin anthonnypoh.919@gmail.com

CHAPTER COMMITTEE CHAIRS 2020-21



Research Promotion Chair / Chapter Technology Transfer Co-Chair Mr. Eng Ee Seong, Jeffrey eeseong_93@hotmail.com



Chapter Historian Mr. Chan Jian Wen jianwen.my@gmail.com



Chapter Refrigeration Chair Mr. Chew Soon Jin sjchew@nrs.com.my



Chapter Publicity
Ms. Irin Kang Siew Foon
irinkang@nyk.com.my



Student Activities Chair Ms. Cheong Yun Kim cheongyunkim@gmail.com



Chapter Honors and Awards
Ir. Ong Ching Loon
ching-loon.ong@cofreth.com



Student Activities Co-Chair Ms. Ooi Zi Wei ziwei8993@gmail.com



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leong.siewmeng@gmail.com



Membership Promotion Co-Chair Mr. Lai Ching Sheng cshenglai@gmail.com



Chapter Librarian /
Chapter Newsletter Editor 2
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kcybiz@gmail.com



YEA (Yong Engineers in ASHREA)
Ms. Lin Ye Shan shanlin@liangchict.com



Webmaster & Electronic Communications Chair Mr. Soon Hock Tatt, Andy andysoon@yahoo.com

NOMINATING COMMITTEE 2020-21



Nominating Committee Chair Mr. Chea Suei Keong suei.keong.chea@gmail.com



Nominating Committee sjanfoo@gmail.com





Nominating Committee Ir. Leong Siew Meng leong.siewmeng@gmail.com



Nominating Committee Ir. Low Han Guan, Den denlow@excel-ms.com



Nominating Committee Mr. Chan Jian Wen jianwen.my@gmail.com

PENANG SECTION 2020-21



Penang Section Chair Mr. Chew Soon Jin sjchew@nrs.com.my



Section Membership Promotion Mr. Jack Ng Wei Lin wlng2000@hotmial.com

KUCHING SECTION 2020-21



Kuching Section Chair Mr. Rafal Lulko r.lulko@glwca.com



Section Technology Transfer Dr. Victor Bong Nee Shin vnsbong@swinburne.edu.my



Section Membership Promotion Mr. Christopher Jantai Boniface jchristopherboniface@gmail.com

INTERNAL AUDITING COMMITTEE



Internal Auditing Committee Mr. Tan Wee Han



Internal Auditing Committee Ms. Lin Ye Shan

ASHRAE RESEARCH PROMOTION RECOGNITION AWARD 2019-2020

A Special Thank You to our ASHRAE Research Investors!

Honor Roll of Investors USD250

Company Sponsors

American Air Filter Manufacturing
BAC Malaysia Sdn Bhd
Belimo Automation Malaysia Sdn Bhd
Daikin Air Conditioning (Malaysia)
Japan Air Filter Malaysia Sdn Bhd
Panasonic Malaysia
Trox Malaysia
Truwater Fillex Sdn Bhd
Yilida Industries Sdn Bhd

Individual Sponsors	
Ir. Low Han Guan, Den	USD200
Ir. Tan Chioo Bin	USD150
Mr. Tee Tone Vei	USD150
Ir. Ong Ching Loon	USD120
Mr. Chea Suei Keong	USD100
Dr. King Yeong Jin	USD100
Ir. Lam Kim Seong	USD100
Mr. Law Kok Zhen, Kozen	USD100
Ir. Leow Chee Huan, Keith	USD100
Mr. Lim See Boon	USD100
Mr. Ng Kah Choong	USD100
Mr. Ng Wen Bin	USD100
Mr. Tan Wee Han	USD100
Mr. Tan Yu Chai	USD100
Mr. Yong Sieng K	USD50
Mr. Yeo Kok Siang	USD50

INVEST IN THE 2020-2021 RESEARCH PROMOTION (RP) CAMPAIGN

Kindly Click here: ONLINE CONTRIBUTION

Thank You!



Board of Governors' Meeting No.1 (Session 2020/21)

Board of Governors' Meeting No.1 for the session 2020-2021 was held at ASHRAE Malaysia Chapter Secretariat on 28 July 2020. It was attended by 20 committee members. The president, Mr. Ng Wen Bin called the meeting to order at 6:30p.m.

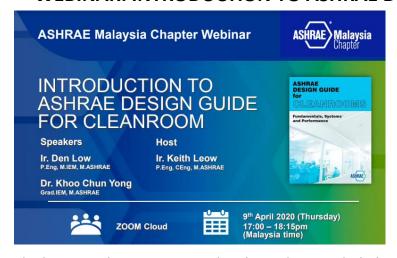
The agenda discussed include:

- 1) Update of events and activities
 - a. Year-to-date Financial report
 - b. PAOE points for 2020/21 Term
 - c. Chapter Chairs' & Sections' Proposal & Activities Report
 (Membership Promotion, Resource Promotion, Student Activity, YEA, Chapter Technology
 Transfer, Government Affairs, Newsletter Publication, Electronic Communications, Historian,
 Honors & Awards, Kuching Section)
- 2) MASHRAE Operation Proposal
 - a. HRDF briefing
 - b. Souvenir Programme 2020
 - c. AGM 2020 implementation method
- 3) Region XIII: Virtual CRC and RPM-1, APCBE
- 4) REVAC ASEAN M&E Show: Super 8 (20-22 Oct 2020), MITEC, KL
- 5) Industry Events
- 6) Annual Dinner 2020 (35th Jade Anniversary)
- 7) Other matters

The meeting was adjourned at 8.00 pm. Next BOG meeting was tentatively scheduled to be held at ASHRAE Malaysia Chapter Secretariat on 18 August 2020.

CHAPTER TECHNOLOGY TRANSFER

WEBINAR: INTRODUCTION TO ASHRAE DESIGN GUIDE FOR CLEANROOM



ASHRAE Malaysia Chapter presented the first webinar entitled "Introduction to ASHRAE Design Guide for Cleanroom" on April 9, 2020. The objective of this free webinar was aimed to introduce this comprehensive publication to fellow ASHRAE members and publics in our local community. Both Ir. Den Low and Dr. Khoo Chun Yong, who are the members of ASHRAE Technical Committee 9.11 (TC9.11), were the speakers for this webinar. Meanwhile, Ir. Keith Leow was the moderator who hosted this webinar.

The learning objectives covered in this webinar included:

- (1) Understanding what a cleanroom is;
- (2) Understanding various Cleanroom standards;
- (3) Understanding various industries requirements on cleanroom;
- (4) Understanding the construction planning and various design parameters of cleanroom; and
- (5) Understanding on the testing, commissioning & certifications of cleanroom.
 - ~ * ASHRAE Design Guide for Cleanrooms is available at ASHRAE Malaysia Chapter's Library * ~



Managing COVID-19 and HVAC in Buildings for Emerging Economies

ASHRAE Epidemic Task Force and **Government Affairs Committee** presented the webinar entitled "Managing COVID-19 and HVAC in Buildings for Emerging Economics" on June 18, 2020. The objective of this free webinar was aimed to provide essential technical information to people of emerging economies, targeting government officials and policymakers so they can provide guidance on the management of COVID-19 through HVAC systems in buildings.

The webinar was successfully held with the participants attending from all around the world. Experts from the ASHRAE epidemic task force from USA, HK and SG gave their views about the COVID 19 pandemic in the application of hospital, residential buildings and commercial buildings. The event was very fruitful with discussions on ways forward to tackle the virus with various methods including UV, ionizer, etc.

Speakers and Moderator:



William P. Bahnfleth, PhD, PE Professor of Architectural Engineering The Pennsylvania State University (Chair of ASHRAE Epidemic Task Force and Former ASHRAE President)



Luke Leung, PE, LEED® Fellow Director of Sustainable Engineering Skidmore, Owings & Merrill LLP (Team Lead for Commercial/Retail on ASHRAE Epidemic Task Force)



Sitaraman Chandra Sekhar, PhD
Co-Director, Centre for Integrated
Building Energy and Sustainability in
the Tropics (CiBEST)
Professor, National University of
Singapore
(Team Member for Residential on
ASHRAE Epidemic Task Force)



Moderator:
Ir Sam C. M. Hui, PhD
Chair of Developing Economies AdHoc and Regional Vice Chair (Region
XIII) of ASHRAE Government Affairs
Committee

If You Know...

ASHRAE EPIDEMIC TASK FORCE is formed to deploy ASHRAE's technical resources to address current pandemic and future epidemics: -

- HVAC System Operation during Building Shutdown
- How to Return the HVAC System to Normal Operation
- Operating of Heating/Cooling System in Home
- Healthcare Facilities, Commercial, Residential, Schools and Universities, Residential, Transportation
- Riding Mass Transit and Airlines
- Upgrading Filters and Use of Air Cleaners
- Air Conditioning and Heating

- Ventilation Systems
- Exhaust Systems
- Filtration and Disinfection
- BAS and Access Control Systems
- Elevator Control
- Water Systems

For more information, visit to www.ashrae.org/covid19

Energy Efficiency Management for Air-Conditioning and Mechanical Ventilation (ACMV) Training Course







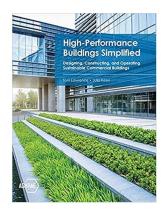
On 11-12 August 2020 and 21-22 September 2020, respectively, **ASHRAE Malaysia Chapter** conducted the Energy Efficiency Management for Air-Conditioning and Mechanical Ventilation (ACMV) training course at the Secretariat of ASHRAE Malaysia Chapter, Kelana Jaya. This training course is supported by Sustainable Energy Development Authority (SEDA) Malaysia, and is HRDF claimable. Ir. Chen Thiam Leong and Ir. Ng Yong Kong were invited as the trainers as both of them possess expertise in the ACMV field with years of experience. For each session, a total of twenty participants joined this two-days training course.

The objectives of this training are: -

- a) To increase awareness on the energy efficiency practices and saving measure in building ACMV system for building operators/engineers.
- b) To provide knowledge on efficient management of ACMV system.

The training adopted a combination of approaches, which included formal presentations, interactive discussion, group discussion and case studies. During the two-days training, the participants were introduced to the types of ACMV systems, principles of refrigeration and the refrigerant related matters, energy efficiency management practises and saving measure in building ACMV system that can be implemented in their workplace. The participants were also exposed to the understanding on cooling load & load profile and the lessons learnt from the past real-life case studies under the SAVE Chiller Program. In addition, the trainers shared generously their wealth of experiences with the participants. The trainers also encouraged the participants to implement knowledge gained in this training, to know about various practical aspects of energy management not only at the participants' workplace but also at their home.

Latest ASHRAE Publication at ASHRAE Malaysia Chapter Library



High-Performance Buildings Simplified: Designing, Constructing, And **Operating Sustainable Commercial Buildings (5th Edition)**

With a significant basis in the ASHRAE GreenGuide, now itself in its fifth edition, High-Performance Buildings Simplified introduces readers to the fundamentals of:

- Building design and commissioning
- Sustainability, including water and energy conservation
- Indoor air quality and indoor environmental quality
- Materials selection, construction, and operations and maintenance
- Energy informatics, smart grid, and resilience
- Future trends: Each chapter includes a list of industry-standard terms as well as self-guided and instructor-led exercises.
- Case studies and more than 30 supplemental files containing additional in-depth information and relevant articles round out the practical content.





Energy Standard for Data Centers

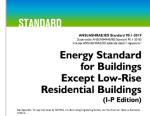


ANSI/ASHRAE/IES Standard 90.4-2019: Energy Standard for Data Centers

ASHRAE Standard 90.4 establishes the minimum energy efficiency requirements of data centers for design, construction, and operation and maintenance, and use of onsite or off-site renewable energy resources. The standard was developed to be codeintended, similar to Standard 90.1, and references in Standard 90.4 are made to Standard 90.1 for building envelope, service water heating, lighting, and other equipment criteria.

Key updates to the 2019 edition include:

- In Section 6, a reduction of the maximum MLC values required for compliance, and removal of the design MLC compliance path in favor of a more accurate maximum annualized MLC calculation
- In Section 8, a reduction of the maximum ELC values for the UPS segment required for compliance, made to recognize improvements in the efficiency of core electrical distribution equipment







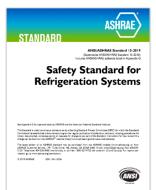


ANSI/ASHRAE/IES Standard 90.1-2019 Energy Standard for Buildings Except Low-Rise Residential Buildings (I-P Ed.)

The latest edition of ASHRAE's most prolific energy standard includes more than 100 updates since the last edition was published in 2016. The newly updated ANSI/ASHRAE/IES Standard 90.1-2019, Energy Efficiency Standard for Buildings Except Low-Rise Residential Buildings, includes new and updated equipment efficiency requirement tables and a clearer compliance path for renewable energy treatment.

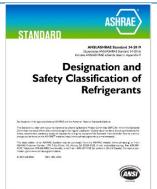
The expanded, revised version of the energy standard focuses on energy-saving measures the Standard 90.1 committee hopes will help designers create more energyefficient buildings.

Latest ASHRAE Publication at ASHRAE Malaysia Chapter Library



ANSI/ASHRAE/IES Standard 15-2019 Safety Standard for Refrigeration Systems

- Makes changes to requirements for R-717 ammonia systems
- Introduces requirements specific to Low Global Warming Potential (Low GWP)
 A2L refrigerants
- Changes restrictions for small, self-contained systems with higher-flammability refrigerants
- · Defines "low-probability pumps" and provides requirements for their use
- Identifies requirements when changing a refrigerant within the same refrigerant class and lists restrictions on mixing refrigerants from different classes



ANSI/ASHRAE/IES Standard 34-2019 Designation and Safety Classification of Refrigerants

- Incorporates the 24 approved and published addenda to Standard 34-2016.
- Addition of fifteen total new refrigerants
- Revisions to make 2L a separate flammability classification of refrigerants
- Changes that base toxicity classification on the nominal formulation of the blend
- Corrections to language for the proper naming of molecules containing iodine
- Revisions to address fluids whose critical temperature is < 130°F (54.4°C)
- Standardization of terminology



ANSI/ASHRAE/IES Standard 62.1-2019 Ventilation for Acceptable Indoor Air Quality

- New informative tables of ventilation rates per unit area for checking new and existing buildings ventilation calculations
- Simplified version of the Ventilation Rate Procedure improving calculations for system ventilation efficiency and zone air distribution effectiveness
- Modified Natural Ventilation Procedure calculation methodology
- Revised scope to specifically identify occupancies previously not covered
- Natural ventilation now requires considering the quality of the outdoor air and interaction of the outdoor air with mechanically cooled spaces.
- Humidity control requirements are now expressed as dew point.



ANSI/ASHRAE/IES Standard 62.2-2019 Ventilation and Acceptable Indoor Air Quality in Residential Buildings

- Added a compliance path that gives credit for particle filtration, distinguishing between balanced and unbalanced ventilation system interactions with natural infiltration, requiring compartmentalization limits for new multifamily dwellings, and allowing for single-point envelope leakage test results to be used when calculating infiltration credit.
- Defines the roles of and minimum requirements for mechanical and natural ventilation systems and the building envelope intended to provide acceptable indoor air quality in low-rise residential buildings.
- The three primary sets of requirements involve whole-building ventilation, local demand-controlled exhaust, and source control.
- The secondary requirements focus on properties of specific items needed to achieve the main objectives of the standard.

Updates: Technical Meeting on Smoke Management for Malaysian Standard

TC/M/4 meeting no. 2/2020 (virtual meeting) on Smoke Management for Malaysian Standard was held on July 2, 2020.

Under Presidential Initiatives on Standard and Environmental Health, both Ir. Chen Thiam Leong and Ir. Tan Chioo Bin as the representatives of the Board of Governors of ASHRAE Malaysia Chapter, attended this meeting.

In the meeting, the main decision was consensus to propose drafting 4 new standards relating to smoke control and management. The drafting will be proceeded upon the approval by the main Steering Committee.

In Attendance: JSM, IEM, IFEM, MFPA, MASHRAE, ACEM.

Training Course on MS 1525:2019 Code of Practice on Energy Efficiency and Use of Renewable Energy for Non-Residential Buildings

On July 21, 2020, ASHRAE Malaysia Chapter-Malaysian Green Building Council were jointly organised a full-day Energy Efficiency Seminar for the Public Works Department (JKR) of Malaysia, Ministry of International Trade and Industry (MITI), at Armada Hotel, Petaling Jaya, Selangor.

The training course was entitled "MS 1525:2019 Code of Practice on Energy Efficiency and Use of Renewable Energy for Non-Residential Buildings". Speakers invited were Ar. Von Kok Leong of MGBC and Ir. Chen Thiam Leong of ASHRAE Malaysia Chapter.

The seminar was attended by 26 participants from JKR comprising architects, mechanical and electrical engineers with an interactive Q&A session.





Appointment of Technical Advisor of Building Sub-Sector for Malaysian Climate Action Simulator (MCAS)

The Ministry of Environment and Water (KASA) and Malaysian Green Technology & Climate Change Centre (MGTCCC) are collaborating with the UK Government's Department for Business, Energy and Industrial Strategy (BEIS) and Mott Macdonald to develop the Malaysian Climate Action Simulator (MCAS) which is formerly known as Malaysia 2050 Carbon Calculator. The MCAS project is aimed to develop a simulation tool that allows the user to run a series of technically-possible low carbon future scenarios through 2050 in order to visualize national carbon emissions trajectory over time. This simulation model covers five (5) sectors (energy, industrial processes, waste, agriculture and forestry) of which the building sub-sector will be part of the energy sector. Ir. Chen Thiam Leong has been appointed as the Technical Advisor for the Building Sub-Sector.

An online meeting with the UK collaborators was held on July 27, 2020, hosted by Ms. Komathi Mariyappan of MGTCCC and chaired by Mr. Jerome Meesen of Climact (UK McKay Calculator). The technical advisors of all sub-sectors, MGTCCC staff and Climact and Mott Macdonald staff were in attendance.



Government Affairs Committee (GAC) Virtual Training Workshop 2020-2021

Regional Vice-Chair for Government Affairs (RVC GA) of ASHRAE Region XIII, Dr. Sam Hui C.M. of Hong Kong Chapter, conducted a virtual training workshop for all Government Affairs Committee (GAC) Chapter Chairs of ASHRAE Region XIII on August 15, 2020.

The training workshop begun with the presentation on the 2020-21 Presidential Award of Excellence (PAOE): Government Affairs (GA) Category (PAOE) by RVC GA. The 2020-21 PAOE scheme for GA consists of five (5) aspects, namely the Presidential Initiatives, Efficient Use of Volunteer's Time, Awards and Submission Activities, Meetings, Presentation or Events, and RVC Assigns/Enter.

Each chapter GA Chair took turn to introduce themselves and briefly explained the year planning/goals for their Chapters on GA matters. Before ending the workshop, RVC GA shared some tips on improvising the GA's yearly plan and ways achieving the PAOE points effectively.



Coming Up Events

5-6 June 2021 (Sat-Sun) 20-21 August 2021 (Fri-Sat) 22-23 October 2021 (Fri-Sat) Regional Planning Meeting (RPM), Tokyo, Japan

Chapters Regional Conference (CRC), Jakarta, Indonesia

16th Asia Pacific Conference on the Built Environment (APCBE): Net Zero Strategies for

Existing Buildings, Studio City Macau

19-20 August 2022 (Fri-Sat) 18-19 August 2023 (Fri-Sat) Chapters Regional Conference (CRC), Waseda University, Tokyo, Japan

Chapters Regional Conference (CRC), Taiwan

Oct./Nov. 2023 (Fri-Sat) 17th Asia Pacific Conference on the Built Environment (APCBE), Kuala Lumpur, Malaysia



SEDA-UNIDO Brainstorming Session on Training Framework for Thermal Energy Efficiency & Solar Thermal Technology

The Sustainable Energy Development Authority (SEDA) plan to take over the training modules developed by the Malaysia Energy Efficiency and Solar Thermal Application project (MAEESTA) under UNIDO. Ir. Leong Siew Meng was invited to attend a brainstorming session held on 10 September 2020 in Dorsett Hotel, Putrajaya. The agenda discussed included:

- 1) To localise the existing training modules that would suit the local practices/requirements.
- 2) To ensure training modules adhere to all related Acts/Regulations.
- 3) To match with updated energy efficiency and management terminology in Malaysia
- 4) To utilize local trainers.

Training module framework/structure were discussed:

- o It was suggested that the training modules to be localised on modular or series basis.
- o Training execution will be discussed further (i.e. online, on site, face-to-face etc.).
- o On-site training is ideal but difficult to get the commitment from the company's management.
- o SEDA agreed to establish thermal energy technical training that will be focused on technical classroom training.
- o Suggested onsite hands-on training to focus on the equipment handling, learning to do measurements, identify the measurement points etc. This exercise can be done through collaboration with university and any training centre that have the facilities.





23RD Chapters Regional Conference (CRC Year 2020)

In view of the pandemic COVID-19, ASHARE Region XIII held the 23rd Chapters Regional Conference (CRC) via the virtual platform from August 1, 2020, followed by August 8, August 15, August 22 and lastly on August 23, 2020. This was the very first virtual conference and experience for all delegates and committee members from ten Chapters (Thailand, Malaysia, Singapore, Indonesia, Philippines, Taiwan, Hong Kong, Macau, Japan and Korea) and four Sections (Vietnam, Myanmar, Penang and Kuching) in Region XIII.

Dr. Apichit Lumlertpongpana as the Director and Regional Chair (DRC) welcomed all delegates and committee members for attending the conference and delivered his opening speech for the virtual CRC Year 2020. The activities in this CRC included the orientation session, executive caucus, workshops, business sessions and regional planning meeting (RPM-1). Poster Design Competition was also held virtually where all chapters submitted their poster via online.



VIRTUAL CRC-2020 PROGRAM

	1st AUGUST	08:30AM ~ 11:00AM	ORIENTATION SESSION (OPEN SESSION)
	1st AUGUST	13:00PM ~ 15:30PM	EXECUTIVE CAUCUS (CLOSE SESSION)
	8th AUGUST	08:00AM ~ 16:00PM	VIRTUAL WORKSHOP NO.1 1. OPERATIONS WORKSHOP 2. MEMBERSHIP PROMOTION (MP) 3. RESEARCH PROMOTION (RP) 4. STUDENT ACTIVITIES (SA) 5. YEA
AHEIHING.	15th AUGUST	08:00AM ~16:00PM	VIRTUAL WORKSHOP NO.2 1. ELECTRONICS COMM (EC) 2. CHAPTER TECH TRANSFER (CTT) 3. REFRIGERATION (RR) 4. GOVERNMENT AFFAIRS (GA) 5. APCBE
	22nd AUGUST	08:00AM ~ 16:00PM	VIRTUAL CRC-2020 BUSINESS MEETINGS
	23rd AUGUST	08:00AM ~ 12:00PM	VIRTUAL RPM-1

TIMELINE FOLLOWS THAI TIME (GMT +7.0)

Photo above: Virtual CRC-2020 Program.



Photo above: RXIII 2020-2021 Delegates and Alternates - 2020 Virtual CRC Executive Session

FEATURE



Photo above: RXIII 2020-2021 Delegates and Alternates - 2020 Virtual CRC Business Session



Photo above: RXIII Virtual CRC 2020 Poster Competition – Poster by Malaysia Chapter.



What is the SmartStart program?

Simply put, it's the best way for ASHRAE student members to receive the many benefits of Associate grade membership after finishing college. SmartStart is a 3 year program that allows Student members to transfer to Associate grade membership at a rate that is recent-graduate friendly.

Prices as of July 1, 2020: SmartStart participants who join or renew after this date will be part of the new dues structure. Participants who only paid for one year upon transferring their membership will renew based on this new dues structure. New program prices are (for 3 years respectively): \$25 (+) \$85 (+) \$115= \$225 for 3 years.

The Developing Economies pricing (\$15 + \$45 + \$60 = \$120) is open to those residing in countries considered to be "Low Income" & "Lower Middle Income" by the World Bank. <u>Visit the World Bank's Web site for a list of low income /lower middle income countries.</u>

By submitting this application you are agreeing to abide by the ASHRAE Code of Ethics, found at <u>ashrae.org/codeofethics</u>.

Please note that the SmartStart program is for current ASHRAE Student members who have been a Student member for at least one year.

Why Transfer to Associate Membership?

Associate Membership Benefits as below: -

- **Dedicated events and resources** for young professionals are offered at the chapter and Society level through the Young Engineers in ASHRAE (YEA) program.
- Tremendous **networking opportunities** through chapter events, committee participation, volunteering, attending conferences, and more.
- The ASHRAExChange participate in the online forum that brings together members from across the world to discuss design, construction, operation, and support of the built environment.
- The ASHRAE Handbook the indispensable, industry-wide resource for all HVAC&R professionals.
- ASHRAE Journal this monthly resource is the most trusted technical magazine in the HVAC&R community.
- **High Performing Buildings** the quarterly magazine for innovation in building technology design and operation
- HVAC Industry News a weekly news resource keeping ASHRAE members abreast of the latest industry news.
- Bookstore Access to, and discounts on, more than 300 of the industry's leading technical publications.



- - - Coming Up Short Courses - - -



HUMIDITY CONTROL WITH AND WITHOUT REHEAT





Thomas H. Durkin Distinguished Lecturer, P.E., LEED AP, ASHRAE Fellow

Durkin's approach is that most applications do not need for designers to control humidity, rather just make sure it doesn't get out of control. Humidity control can be active or passive, but it should never be ignored. This talk will explain low cost but highly effective solutions that work in all climate zones.



3rd October 2020 (Saturday) 09:00 - 11:00am (Malaysia Time)



ZOOM Webinar



MASHRAE Member: RM35 ASHRAE Member: RM55 Public: RM85

ASHRAE Distinguished Lecturer Program brought to you by:







Click HERE for Registration

- Step 1: Register yourself at Google Form
- Step 2: Receive payment request link from ASHRAE MALAYSIA CHAPTER
- Step 3: Click the Paypal link and pay with credit card/ debit card
- Step 4: Receive confirmation and log in link

Available seats are on first-come, first-served basis.

Connect Us:





PREPAREDNESS FOR BUILDING AIR CONDITIONING TO FACE CORONA SPREAD CHALLENGE





Dr. Aloysius Decruz

Covid-19, pandemic spread due to the virus SARS-CoV-2, is a challenge of epic dimensions posing in our daily life, worst known in the recent history. The whole society it is sufficiently likely to be air borne and most spreads are traced to be happening in indoor environment, building engineers and architects have a role to play, mainly to inspect the likely contributing factors and addressing them in commercial buildings. ASHRAE as a leading professional body in the HVAC field in the world and the Malaysian Chapter MASHRAE, recognize their own responsibility. To help manage the specific situations of shut-downs and intermittent operations of businesses, ASHRAE has come up with a set of guidelines. This short training is an effort to explain those guidelines and recommendations. It addresses specific questions such as:

- Is it advisable to turn off the air conditioner?
- What types of filters are effective?
- What are some of the new technologies available?
- Does it help if we follow IAQ ventilation standards?
- What are some of the other professional bodies' recommendations?



21st October 2020 7:00 - 9:00pm

Click for Registration

MASHRAE Member: RM35 ASHRAE Member: RM55 Public: RM85

Step 1: Register yourself at Google Form

BEM CPD

Step 2: Receive payment request link from ASHRAE MALAYSIA CHAPTER

Step 3: Click the Paypal link and pay with credit card/ debit card

Step 4: Receive confirmation and log in link



ZOOM







VENUE: MASHRAE
Secretariat
Unit 518 Block A, Kelana Business
Center, No 97 Jalan SS7/2, 47301
Petaling Jaya,
Selangor Darul Ehsan

ORGANISED BY:



Who Should Enroll in this Course?

This is an excellent course for anyone who needs a general overview of the principles of heat transfer and cooling load calculation. You will benefit from this course if you are:

- A recent engineering graduate working in the HVAC&R industry.
- An experienced engineer who has entered the HVAC&R field from another engineering area.
- An architect, technician, construction or building management professional who wants to increase your knowledge of HVAC systems.

FUNDAMENTALS COOLING LOADS AND SYSTEM ANALYSIS COURSES

Biodata of Speaker



NG WEN BIN

Ng Wen Bin currently works at Universiti Kuala Lumpur Malaysia France Institute (UNIKL MFI), as a senior lecturer of Heating, Ventilating, Air Conditioning and Refrigerating section. He has 23 years of experience as a lecturer in UNIKL MFI and well educated over 2000 Bachelor and Diploma graduates in Air conditioning and refrigeration. His former students work in the air conditioning and refrigeration sector as Engineers or Technicians. Before he joins UNIKL MFI, he worked as Engineer in Air Conditioning Manufacturer.

He is actively involved in ASHRAE activities since 2002. He currently is President of ASHRAE Malaysia Chapter. He was also actively involved in Refrigeration in ASHRAE as Refrigeration Chair for 4 years, from 2010 to 2014.

He is involved in the development of numerous National Skill Standard for air conditioning and refrigeration since 1999 with MLVK, JPK and CIDB. He also served in several of the working committees on developing Training Manual for Technician in Refrigeration & Air-Conditioning Sector for DOE, CIDB and developed standard and code of practice for SIRIM. He is appointed by DOE Malaysia as Master Trainer for Certified Service Technician Program and as Speaker for roadshows of Phase-out refrigerant supported by (HCFC) Phased-out Management Plan (HPMP Stage 2) (2017 – 2022)

His area of expertise is in Air conditioning and refrigeration, and current research is focusing on Refrigeration especially related to the refrigerant. One of the interesting researches is to develop a novel refrigerant for the air conditioning system in the Tropical region which is collaborating with few Universities in Malaysia.

He is actively involved in conducting surveys, training or short course for the industry for buildings and plants. The training included cooling load calculation, ducting and piping design, refrigeration systems and refrigerant.

FUNDAMENTALS COOLING LOADS AND SYSTEM ANALYSIS COURSES

Courses Program

DAY 1		
9:00 - 10:30 am	Heat Transfer and load calculation	
	Temperture Design conditions and weather	
10:30 - 11:00 am	Break	
11:00 - 1:00pm	Thermal properties of materials	
	Heat transfer through walls, roofs and floors	
1:00 – 2:00pm	Break	
2:00 – 3:00 pm	Infiltration and ventilation	
3:00 – 3:30 pm	Break	
3:30 - 4:30 pm	Cooling load calculation	

DAY 2	
9:00 - 10:30 am	Air –conditioning load on walls, Roofs and Partitions
10:30 – 11:00 am	Break
11:00 – 1:00pm	Cooling load for windows Internal loads
1:00 – 2:00pm	Break
2:00 – 3:00 pm	Example of Cooling load
3:00 – 3:30 pm	Break
3:30 - 4:30 pm	Example of Cooling load

What You Will Learn

You will develop an understanding of heat transfer as it applies to buildings and the various factors that must be considered when calculating the cooling loads of a building. After completing the course, you should know:

- How to find and use local climate data
- The thermal properties of building materials
- The effects of air infiltration and ventilation
- The basic concepts and methods to determine cooling loads
- The effects of windows, walls, roofs and partitions on loads
- The basic types of internal loads
- How to use the CLTD Method

REGISTRATION FORM FOR TWO-DAY FUNDAMENTALS COOLING LOADS AND SYSTEM ANALYSIS COURSES

ASHRAE/PERSATUAN JURUTERA PEMANANASAN DAN PENYEJUKAN DAN PENYAMAN UDARA AMERIKA, SEKSI MALAYSIA

REGISTRATION FEE	RM900 (MASHRAE Member); RM1000 (Non Member);		
NAME	ORGANISATION/POSITION/CONTACT/ EMAIL	MASHRAE NO	FEE
	GRAND TOTAL		
	TOTAL PAYABLE		
Email: mashrae.n We are pleased to amount RM	o enclose herewith ourissued in favour of " MALAYSIA ossed "A/C Payee Only" or make Teleg unt "Malayan Banking Berhad, Acc. No.	AN CHAPTER raphic Transfe :: 0141234143	OF er to 366". y/our
	epted by the Committee but substitutional to attend the Seminar the fee paid we		
NAME OF COMP CONTACT PERS TEL MOBILE EMAIL	PANY :		

35th Annual Souvenir Program Book Advertisement

LETTER OF INVITATION TO PARTICIPATE IN ASHRAE MALAYSIA CHAPTER'S 35TH ANNIVERSARY E-BOOK SOUVENIR PROGRAMME

ASHRAE Malaysia Chapter will be celebrating our 35th Anniversary this year. The e-book Program Chair, Dr. King Yeong Jin, also our President-Elect recently sent out a letter of invitation to industry players and stakeholders to join us commemorating this significant milestone. The **ASHRAE Malaysia Chapter's 35th Anniversary E-Book Souvenir Programme** is planned to be published by the 4th quarter of this year.

MASHRAE, as a learned society and a non-profit organization, need to continuously raise funds to support our Chapter operation and continuation of our effort in promoting the objectives of the Chapter in the advancement of the arts and sciences of heating, ventilating, air-conditioning and refrigerating.

In the light of the uncertainty caused by the unabated COVID-19 global pandemic, we are unable to physically gather everyone this year to congregate at our annual dinner celebration as in the past. However, we would like to maintain the momentum of keeping our valuable relationship and partnership through the creation of an E-Book in conjunction with our 35th anniversary. This E-Book will be distributed to all our network of members and industry players/stakeholders locally and overseas. It is hoped that continued support from industry players and stakeholders could help us deliver our goals uninterrupted during this trying time.

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,	Website Advertisement -Hyperlink (1 year)			
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	Reacher Promotion Donor	RM12,500.00		
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	Corporate logo display on the Sponsorship Recognition Board			
	At MASHRAE Office (1 year)			
	GOLD SPONSOR			
B)	2-page Advertisement			
	Website Advertisement-Hyperlink			
	RM 1000 Seminar Voucher	RM9,000.00		
	Reacher Promotion Donor			
	Corporate bunting display in MASHRAE event for 1 year			
	SILVER SPONSOR			
C)	1-page Advertisement			
	Website Advertisement -Hyperlink (1 year)	RM5,500.00		
	RM 1000 Seminar Voucher			
	Reacher Promotion Donor			
BRONZE SPONSOR				
D)	1-page Advertisement			
	Website Advertisement -Hyperlink (1 year)	RM2,500.00		
	RM 500 Seminar Voucher			
	ADVERTISEMENT			
E)	1-page Advertisement	RM1,000.00		
F)	Half page Advertisement	RM500.00		

