

# NEWSLETTER

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## # Mission:

To serve humanity by advancing the arts and sciences of heating, ventilation, air conditioning, refrigeration and their allied fields.

## # Vision:

A healthy and sustainable built environment for all

# Website: [www.ashrae.org.my](http://www.ashrae.org.my)



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Ir. Leong Siew Meng  
Miss Chia Hui Yin



**17.10.19**

APCBE Taiwan



**12.12.2019**

RP/MP Interaction Night



**17.02.2020**

EECA Steering Committee meeting drafting of Energy Efficiency & Conservation Act at MESTECC



**02.03.2020**

SEDA Energy Efficiency Management of ACMV Training Course



**19.04.2020**

Dialog : HVAC Career Path and Trend Across Borders



**21.11.2019  
20.02.2020**

Networking Badminton Session at The Challenger Sports, Jln Semangat, PJ



**06.02.2020**

Technical committee on smoke management at MITI



**01.03.2020**

Hosted by the ASHRAE University of Malaya Student Chapter. Theme of ASHRAE Run 2020 is Travel – crossed 4 countries



**02.03.2020**

ASHRAE Undergraduate Program Equipment Grant Application Result



**24.04.2020**

HVAC & Construction Industry (VooVmeeting)







# Asia Pacific Conference on the Built Environment

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

The 15th APCBE on Built Environment which was organised by ASHRAE Taiwan Chapter and held on 17-18 October 2019 in Hansin Arena 9F, Kaohsiung. This was a 2-day conference with participants from academics, architects, building owners, consultants, contractors, facilities managers, government, industries, suppliers and other parties who have interest in design, installation, testing, commissioning, operation and maintenance of the built environment.

3 presenters and 6 participants from Malaysia attended 15th APCBE Taiwan 2019 in Kaohsiung. They were Ng WenBin, Kozen Low and Chin Kok Hoe and the participants were Mr and Mrs Den Low and 4 persons from IAQ Technology Sdn Bhd. Total of 39 papers presented in 2 parallel sessions.

Papers presented by ASHRAE Malaysia Chapter were as follows:

- Impaction of Air Filter Standard ASHRAE 52.2:2017 and ISO 16890:2016 on Industry, presented by Kozen Low
- Experiment Investigation of Two Phase Loop Thermosyphon Solar Drying System, presented by Ng WenBin
- Energy Efficiency & Conservation of Small & Medium Office Buildings, presented by Chin Kok Hoe





# Research Promotion and Membership Promotion



Research Promotion and Membership Promotion (RP/MP) Night was organized to create a platform for ASHRAE members for networking, promoting new membership and recognizing the RP sponsors.



The event was successfully held on 12th December 2019 and was welcomed by more than 70 members and industry players. MASHRAE President Mr. Ng Wen Bin gave a welcome speech during the event.



# Young Engineer Activities & Student Activities

 **The Challenger Sports,  
Jln Semangat, PJ**

## YEA BADMINTON SESSIONS

The 3rd session of MASHRAE Networking Badminton Session was successfully held on 21st Nov 2019.

The badminton session was organized by YEA regularly for the members and non-members to take part in an exercise for healthy lifestyle while creating opportunity for meeting up regularly.



# GAC Reports

## GAC Report #1 Smoke Management

Title: Technical Committee on Smoke Management

Organization: Ministry of International Trade and Industry

Department: Department of Standards Malaysia

Date: February 6, 2020

Time: 9:30am to 1:00pm

Place: Department of Standards Malaysia, Cyberjaya

MASHRAE  
Representative: Ir. Chen TL, Ir Lam KS and Ir CB Tan

Agenda: Discussion carried out on all relevant Malaysia Standards on Smoke Management under the purview of this Technical Committee

Report: The Technical Committee is chaired by Ir. Chen TL

The Technical Committee comprised representatives from ASHRAE Malaysia Chapter, Public Works Department (JKR), Fire and Rescue Department (JBPM), Association of Consulting Engineers (ACEM),



Pertubuhan Akitek Malaysia (PAM), The Institution of Engineers Malaysia (IEM), Malaysian Fire Protection Association (MFPA), The Institution of Fire Engineers (UK) Malaysia Branch (IFEM), Universiti Putra Malaysia (UPM), Universiti Teknologi MARA (UiTM), SIRIM QAS International Sdn Bhd (SIRIM)

## GAC Report #2

### Review of final draft of proposed EEC Act and Regulations

**Title:** Review of final draft of the proposed EEC Act and Regulations

**Organization:** MESTECC

**Department:** Secretary General (KSU)

**Date:** Mon 17 Feb 2020

**Time:** 2.30pm to 5.00pm

**Place:** MESTECC

**MASHRAE Representative:** Ir Chen TL and Ir Ong Ching Loon

**Report:** The Steering Committee was chaired by the Sec-Gen to review the final draft of the proposed EECA.  
The Steering Committee comprised reps from the AG, KPKT, MITI, MOF, ST and SEDA.  
3 WG chairmen were specially invited to explain the draft; namely Ir Chen, Ir Ong and Prof Zainuddin.  
ZICO, the appointed consultants did the presentation of the draft.

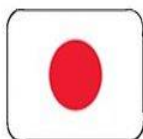




# 2020 ASHRAE RUN

*Travel*

Run through 4 exotic countries



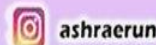
within specially decorated 5km & 10km route.  
Experience a run that makes you feel like travelling.

\*There's more fun even after the run



## ASHRAE REGION XIII

Organized By





# WORDS FROM UM ASHRAE COMMITTEE : ASHRAE RUN 2020



PHOTO : UM Student committee 2020

ASHRAE Run 2020, held on 1<sup>st</sup> of March 2020 was a successful annual event hosted by the ASHRAE University of Malaya Student Chapter. The theme of ASHRAE Run 2020 was Travel, which the organizers included 4 countries of ASHRAE Regional XIII: Japan, Thailand, Taiwan and Malaysia. The uniquely themed fun run was held in High Impact Research Building Car Park of University of Malaya.

A total of 1,100 participants from the public, students and ASHRAE related industrial players had fun in ASHRAE Run 2020, which was organised by a total of 30 student committee members and 60 student volunteers. The participants ran through the beautifully decorated running route of 5km & 10km routes around University of Malaya (UM).



PHOTO: ASHRAE COMMITTEE MEMBERS



PHOTO: PLATINUM SPONSOR , MIDEA

The event ended with a performance of traditional bamboo flute, which was performed by the Champion of Malaysia Championship of Performing Arts 2019 (Instrument), Mr Ayawan Musafir Singgah. It was a wonderful event and made successful with the help from officers and most importantly sponsors of the run, Midea Scott & English Electronics Sdn Bhd (Platinum Sponsor), MayAir Manufacturing (M) Sdn Bhd (Silver Sponsor), Kinetics Systems Malaysia Sdn Bhd (Silver Sponsor), American Air Filter Manufacturing Sdn Bhd (Bronze Sponsor), Bezaire Sdn Bhd (Bronze Sponsor) and ADF Technologies Sdn Bhd (Bronze Sponsor).

After the run came the carnival of the event, participants relaxed themselves after a tedious run and enjoyed the booths prepared notably by the honourable sponsors. Mr. Ng Wen Bin, President of ASHRAE Malaysia Chapter and Benjamin Ong, Student President of ASHRAE Run 2020 gave a warm welcoming speech to all fellow participants. With the help of Mr Ng Wen Bin and Mr. King Yeong Jin, Chapter President Elect of ASHRAE Malaysia Chapter, awards and prizes were given to the honourable sponsors and winners of the run.







# Energy Efficiency Management For Air-Conditioning And Mechanical Ventilation



Photo (Left top): Speaker Ir Chen TL (far left), Speaker Ir Ng YK (middle), Organizer Jeffery Eng (far right)

ASHRAE Malaysia Chapter in collaboration with Sustainable Energy Development Authority (SEDA) had successfully organized a 2-day seminar on “Energy Efficiency Management for Air Conditioning and Mechanical Ventilation (ACMV) Training Course” on 2<sup>nd</sup> & 3<sup>rd</sup> March, 2020. The event was attended with about 30 participants.

Conducted by Ir Chen Thiam Leong and Ir Ng Yong Kong, with the objectives:

- To increase awareness on the energy efficiency practices and saving measures in building ACMV system for building operators; and
- To provide knowledge on efficient management of ACMV system

Chapter 1: Introduction to ACMV

Chapter 2: Factors Affecting Air-Conditioning Design

Chapter 3: Type of ACMV System : Design & Selection

Chapter 4: Understanding Cooling Loads & Load Profile

Chapter 5: Water & Air Distribution

Chapter 6 : Energy Efficient Equipment Components

Chapter 7 : Testing & Commissioning & Sustainable Maintenance

Chapter 8 : SAVE Chiller Program Case Studies

In addition to the fundamentals, case studies were presented on the SAVE Chiller Programme that have demonstrated both CAPEX and OPEX real saving projects implemented in Malaysia. Thus, providing sustainable system operation throughout the life time of the building.



# ASHRAE Undergraduate Program Equipment Grant Application



To Hieng Kiat Jun,  
Congratulations! Your submission to ASHRAE's Undergraduate Program Equipment Grant entitled, "Development and evaluation of thermoelectric refrigerator driven by nanostructure-based solar cells" was approved by ASHRAE for funding in the amount of \$4200 to Universiti Tunku Abdul Rahman.


To Qamar Fairuz Zahmani,  
Congratulations! Your submission to ASHRAE's Undergraduate Program Equipment Grant entitled, "Design And Development Of New Concept Evaporative Cooling Condenser For Energy Performance Optimization" was approved by ASHRAE for funding in the amount of \$4500 to Universiti Teknikal Malaysia Melaka.





# Dialogue : HVAC Career Path and Trend Across Borders

**ASHRAE STUDENT ACTIVITIES**



**SO, YOU DESIGN THE AC SYSTEM?**

A DIALOGUE ON HVAC CAREER PATH AND TRENDS ACROSS BORDERS  
(DATA CENTERS, HOSPITALS, LABORATORIES, INDOOR FARMING FACILITIES)



**HOSTED LIVE ONLINE**

**APRIL 19TH 2020**

**TUNE IN 8.30 AM MYT**

NOTE: APRIL 18TH 8.30 PM EST

Discover opportunities and growth within the HVAC industry across Canada, USA and Malaysia. Join our conversation with panelists representing the regions discussing trends and challenges and most importantly how can students prepare themselves for a career in this field!



Panel: Mark Maguire, PE, LEED AP BD+C, BEMP, CCP Group Lead, Buildings Mechanical, Jacobs Philadelphia  
Brad Tully, P.Eng Vice President Sales and Engineering, SolutionAir Group Canada  
Chan Jian Wen, C.Eng, ATD, CBIF, M.IMechE Vice President of Field Services, Schneider Electric Malaysia

Led by Malaysia Chapter Student Activities Committee Chair, Rex Foo together with Philadelphia Chapter and Toronto Chapter organized a dialogue session on HVAC Career Path and Trend Across Borders with industry speakers.

Joined by 45 students across 3 countries, speakers shared their HVAC experiences including trends, challenges and growth from unique application in different regions. Particularly on indoor farming, facilities laboratory environment, and data center.

Also discussed: Advice for graduating students to maneuver themselves in a tough market condition; Steps student can take that may help them find a job or even keep one that they already have; what other fields that are being overlooked in your geographic location; etc...

**SO, YOU DESIGN THE AC SYSTEM?**

A DIALOGUE ON HVAC CAREER PATH AND TRENDS ACROSS BORDERS  
(DATA CENTERS, HOSPITALS, LABORATORIES, INDOOR FARMING FACILITIES)

**PANEL OF THE DAY**



**Mark Maguire,**  
PE, LEED AP BD+C,  
BEMP, CCP  
Group Lead, Building  
Mechanical, Jacobs  
Philadelphia



**Brad Tully,**  
P. Eng  
Vice President Sales  
and Engineering,  
SolutionAir Group  
Canada



**Chan Jian Wen,**  
C. Eng, ATD, CBIF,  
M.IMechE  
Vice President of Field  
Services, Schneider  
Electric Malaysia

**Moderated by**



**Norazman Manisagar**  
ASHRAE MALAYSIA CHAPTER  
STUDENT ACTIVITIES CHAIR



**Rajen Ethirveerasingham**  
ASHRAE TORONTO CHAPTER  
STUDENT ACTIVITIES CHAIR



**Foo Shiyau, Rex**  
ASHRAE PHILADELPHIA CHAPTER  
STUDENT ACTIVITIES CHAIR

**THANK YOU FOR ATTENDING**

**PANEL WILL BEGIN @**

**APRIL 18TH 2020 8:30PM EST**

**APRIL 19th 2020 8:30AM MYT**

ASHRAE STUDENT ACTIVITIES

ASHRAE Philadelphia Chapter ASHRAE Malaysia Chapter ASHRAE Toronto Chapter

# HVAC & Construction Industry (VooV Meeting Webinar)

As the Movement Control Order (MCO) due to Covid-19 has created a big impact to the industry, we should not stop learning but to use the technology platform to promote knowledge sharing. A webinar on the topic of “HVAC & Construction Industry” was successfully held on 24th April 2020 through Voov Meeting platform. YEA committees were invited to share their knowledge and experience to more than 40 student members so that they are prepared to meet the demand in the industry.

