



MASHRAE NEWSLETTER

Website: www.ashrae.org.my

MASHRAE 34TH AGM

24 MAY 2019

At the MASHRAE's 34th Annual General Meeting (AGM) held on 24 May 2019, Ng Wen Bin was elected to be the Chapter President for the 2019-2020 session. Congratulations to Ng Wen Bin! The 2019-2020 session would be an important session as soon after the AGM, the Chapter would host the 22nd Chapters Regional Conference (CRC) on 23-24 August 2019 for the fourth time as host since the establishment of Region XIII in 1997.

MASHRAE Secretariat:
Unit 518 Block A, Kelana Business Centre
97, Jalan SS7/2, 47301 Petaling Jaya
Selangor Darul Ehsan

NEW
MILESTONE AT
MASHRAE!

ASHRAE'S MISSION & VISION

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.

Editorial Team:

Ir. Leong Siew Meng
Miss Chia Hui Yin



2019 – 2020 ASHRAE Malaysia Chapter Board of Governors

President:	Mr. Ng Wen Bin
President-Elect:	Dr. King Yeong Jin
Vice President:	Ir. Lam Kim Seong
Hon. Secretary:	Mr. Jeffrey Lim See Boon
Hon. Treasurer:	Mr. Tan Wee Han
Board of Governor:	Ir. Chen Thiam Leong
Board of Governor:	Mr. Foo Say Jan
Board of Governor:	Mr. Ng Yong Kong
Immediate Past President:	Mr. Tan Chioo Bin

2019 – 2020 ASHRAE Malaysia Chapter Committee Chairs

Government Advocacy Chair:	Mr. Chea Suei Keong
Chapter Technology Transfer Chair:	Mr. Jeffrey Eng Ee Seong
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Membership Promotion Co-Chair:	Mr. Lai Ching Sheng
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Student Activities Co-Chair:	Miss Ooi Zi Wei
Young Engineers in ASHRAE (YEA):	Miss Cheong Yun Kim
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Nominating committee:	Ir. Leong Siew Meng, Ms. Irin Kang, Mr. Chan Jian Wen, Ir. Den Low Han Guan
Internal Auditing Committee:	Mr. Tee Tone Vei, Mr. Chan Jian Wen

MESSAGE FROM THE CHAPTER PRESIDENT



Firstly, I would like to thank ASHRAE Malaysia Chapter (MASHRAE) members for their confidence in electing me to become the Chapter President for the 2019-2020 session. I am particularly thankful to the Immediate Past President, Ir. Tan Chioo Bin as well as the past presidents of MASHRAE for having firmly established the Chapter as the leading learned-society in the country in contributing towards human well-being through sustainable technology for the built environment, which is in line with the mission and vision of ASHRAE globally.

ASHRAE Malaysia Chapter was one of the four founding chapters of Region XIII, which was established in June of 1997 after much persistent efforts of some senior members of the four founding chapters, namely, Malaysia, Singapore, Hong Kong and Taiwan. Under the continuous efforts of the past Chapter Presidents and office bearers who had volunteered their time selflessly and together with the support of members and Society over the years, Malaysia Chapter has grown to become one of ASHRAE's significant Chapters in Region XIII. In addition, Malaysia Chapter follows the global vision of ASHRAE: "A healthy and sustainable built environment for all" to provide many technical seminars and workshops to disseminate updated research and best-practice information to members and also to meet the needs of local HVAC&R industry. It has established a professional image and reputation in line with the aspirations of ASHRAE in both the private and public sectors of Malaysia.

From the onset, ASHRAE Malaysia Chapter was part of the efforts of local professional bodies to improve the standards and practices of HVAC engineering in Malaysia. To date, ASHRAE Malaysia Chapter has actively participated in local committees that set standards, codes of practice and guidelines on Malaysia Standards, IAQ, building systems energy performance, sustainability and handling of refrigerants.

I hope all members and friends of MASHRAE who share our mission and vision will continue to give us their support. Thank you.

Ng Wen Bin
President (2019-20)
ASHRAE Malaysia Chapter



MASHRAE 34TH AGM

24 May 2019

The 34th MASHRAE AGM was attended by xx members including xx student members. IPP Tan Chioo Bin made a welcome address and thanked each of his BOG members and Chapter Chairs for their hard work and contributions during the 2018-19 session. The AGM was successfully conducted with the following agenda:

- To confirm and adopt the Minutes of last Annual General Meeting held on 25th May 2018
- To receive the Secretary's Report for the year 2018/19
- To receive the Audited Treasurer's Report for the year ending 31 December 2018
- To elect members of the Board of Governors for the year 2019-20
- To elect Nominating Committee 2019-20
- To re-appoint external Auditors
- Other matters arising

The 2nd Regional Planning Meeting (RPM 2018-19) for Region XIII held in Jakarta on 1.06.19

The RPM2 for the 2018-19 session was successfully hosted by the Indonesia Chapter in Jakarta on 1 June 2019 at the Harris Suites FX Sudirman, Sanayan. Ir. Ng Yong Kong conducted the meeting and bade farewell to everyone present at the end of the RPM2 as he completed three sessions as the Region XIII DRC since assuming this honourable regional top post in the 2016-17 session.



22nd Chapters Regional Conference





The biggest event for MASHRAE in the 2019-20 session was undoubtedly the 22nd CRC held at the Sunway Resort Hotel on 23-24 August 2019. The conference was planned a year ago, headed by the CRC General Chair, Chea Suei Keong, who together with his team of dedicated committee members, delivered a great CRC that would go down in the history of Region XIII as one of the most well-organised and memorable CRCs.

The CRC was attended by ASHRAE President, Darryl K. Boyce. Pre-conference events such as bowling, golf and welcome party were held on 22 August, and the CRC momentum picked up once the technical seminar was opened by the Society President in the morning of 23 August. The gala banquet dinner saw the hype of activities with student performances in the evening of 23 August. Various awards were presented in the host chapter luncheon on 24 August. The 2-day conference was successfully completed as planned. The regional planning meeting, RPM1 was successfully conducted on Sunday, 25 August before overseas participants bidding farewell to each other. The next CRC will be hosted by the Indonesia Chapter in 2020.



34TH ANNUAL DINNER



MASHRAE celebrated its 34th anniversary with a gala dinner held on 11 October 2019 at the Dorsett Grand Hotel Subang. The organising chairman, Dr. King Yeong Jin and his team of dedicated committee members organised another superb annual dinner event, which was well attended by members and industry players.



SEMINAR

In conjunction with the 34th Annual Dinner, a technical seminar on *Building for People & Performance – Achieving Operational Excellence* was held on 11 October 2019 at the Dorsett Grand Subang. The seminar was conducted by Luke Leung and Chen Thiam Leong, both are ASHRAE Distinguished Lecturers. The topics that they presented were:

21st Century Tall Building Design

- Burj Khalifa – The Tallest Building in the World
- Tropicalisation of high-performance strategies for hot and humid climate
- Net-Zero Building vs. Net Zero District
- Live Long, Healthy and Low Energy
- Operational Excellence & Beyond



LEFT : PRESIDENT NG WEN BIN ; RIGHT : IR TL CHEN



LEFT : PRESIDENT NG WEN BIN ; RIGHT : IR LUKE LEONG



Young Engineer Activities & Student Activity



UM – YEA Interaction Night

1ST crossed universities event was organised by UM

Date : 17th of November (Sunday).

Venue : UM

Time : 9am - 2pm

Objective :

- Let YEA and student interact each other.
- Increase the percentage membership retention
- Bonding between students and students
- Interaction activities between ASHRAE members

YEA BADMINTON SESSIONS

ASHRAE YEA Badminton Session 1

Date: Thursday, 12/9/2019

Time: 6.30 pm

Location: Dwi Emas International School, Pusat Bandar Shah Alam
Joint Event - Daikin

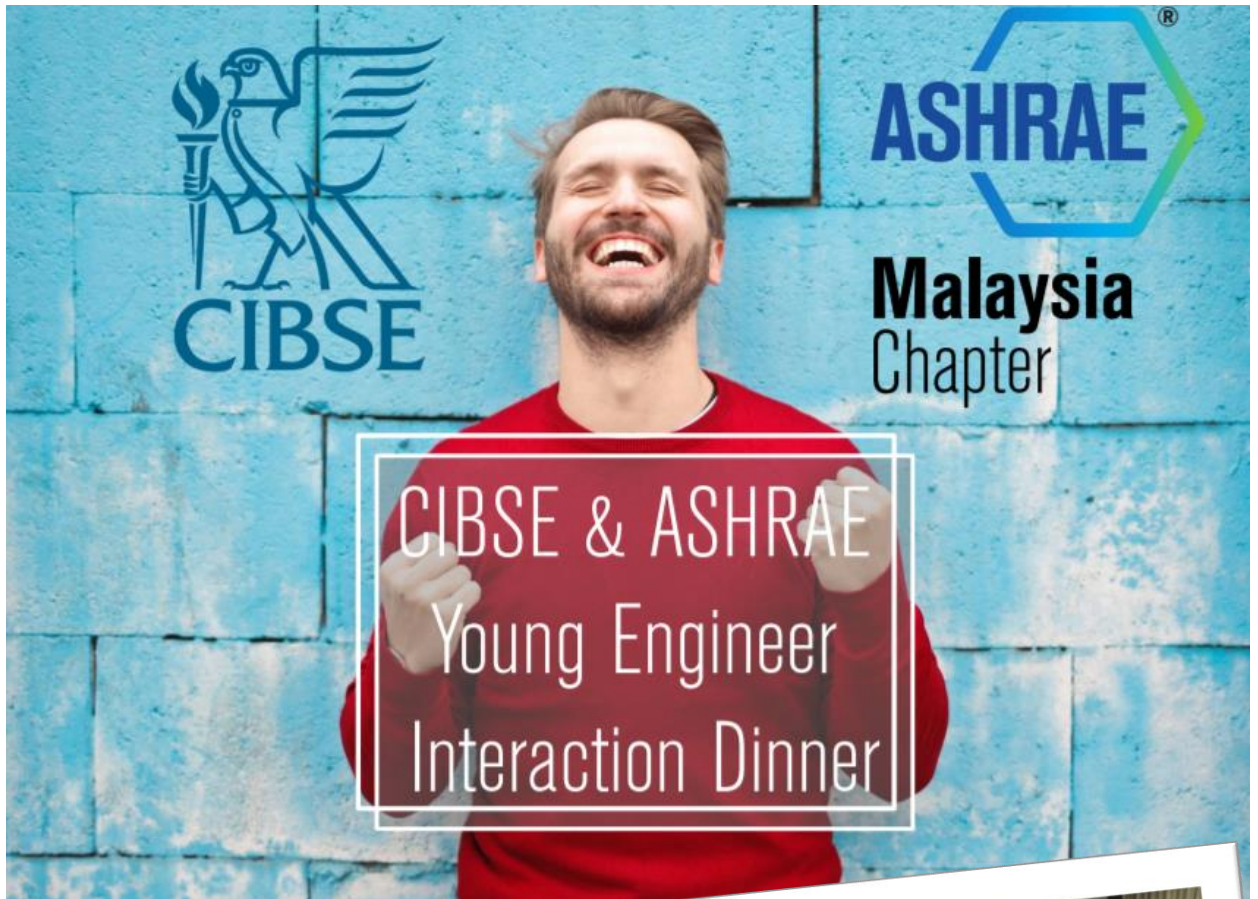
ASHRAE YEA Badminton Session 2

Date: Thursday, 17/10/2019

Time: 6.30 pm

Location: The Challenger, Jalan Semangat , Petaling Jaya
Joint Event – CHT International (Formerly NDY)





OBJECTIVE :

Create a platform for Young Engineers in ASHRAE To Interact with CIBSE Young Engineers. The young engineers (CIBSE & ASHRAE) came from the UK, Dubai, Hong Kong, America, New Zealand and Malaysia



DATE : 13 NOV 2019

LOCATION : Majapahit KLCC

GAC Report #1 Kigali Amendment To The Montreal Protocol

Title:	National Survey Of Non-ODS Alternatives
Organization:	MESTECC and The World Bank
Organizing	Mashitah Darus
Person:	
Department	Department of Environment
Date:	Wednesday, July 24, 2019
Time:	9.00am to 13.30pm
Place:	Le Meridian Hotel, Putrajaya
MASHRAE:	Chea Swei Keong (GAC Chapter Chair), Ng Wen Bin (President), Ir Chen TL (BOG), Kozen Law (YEA).
Representatives:	Stakeholders in Refrigerant



Malaysia is one of the signatories to ratify the Kigali Amendment to the Montreal Protocol as confirmed by Y.Bhg. Puan Norlin Binto Jaafar, Director General of Department of Environment Malaysia. Malaysia is listed under Articles 5 Parties - Group 1, and the HFC Phase Down Obligations as per table below.

Mr Ho Yueh Chuan, Principal Consultant (Tri EcoEdge Environmental Consultant) presented the findings of Stakeholders' survey to the audience. Of the 183 Survey sent out, 84 responded, 99 either no response or declined. This represented 45.9% of total response, refer to table 2.

With 45.9% industries stakeholders responded, the imports by Chemical Suppliers Relative to Survey based on % Imports by Chemical suppliers showed 83.6%. Table 3 Import by Chemical Suppliers in Custom Database on % Import by Chemical suppliers showed 79.9%. Table 4

The percentages showed on table be 3 and 4 are relatively good, the ministry will continue to pursue the other 99 non respondents and identify the number gaps issues between the Market Survey and the data from Custom Department.

Article 5 Parties: Group 1 Phase-down Obligations

Target Year	Reduction	Remarks
Date for Agreement coming into force:	1 st January 2019	
Baseline Years	2020, 2021 & 2022	
Calculation	Average production/consumption of HFCs for baseline years plus 65% of HCFC baseline production/ consumption	
Freeze date	2024	No additional production/consumption
Step 1 target	2029	10% reduction
Step 2 target	2035	30% reduction
Step 3 target	2040	50% reduction
Step 4 target	2045	80% reduction

PRIMARY SURVEY RESPONSE SUMMARY FOR PRINCIPAL ENTERPRISES

Sector	No Identified	Responses received	No Response/ Declined	% Response
Chemical suppliers (Importer-exporter)	31	20	11	64.5
Refrigeration manufacturers	40	12	27	32.5
Air-Conditioner manufacturers	37	21	16	56.8
Motor Vehicle (manufacturer/assembler)	35	11	24	31.4
Firefighting / Fire protection	22	14	8	63.6
Solvents	14	4	10	23.1
Aerosol	4	1	3	25.0
Total	183	84	99	45.9

Imports by Chemical Suppliers Relative to Survey Total

Item (in kg)	2015	2016	2017	2018	Total
Survey total	7,276,880	8,564,435	8,639,174	5,551,020	33,031,509
Imports reported by Chemical suppliers	6,405,780	6,934,170	7,141,868	7,140,500	27,622,318
% Imports by Chemical suppliers	88.0	81.0	82.7	83.5	83.6
Imports by others	868,468	1,628,291	1,494,016	1,407,559	5,398,334

Primary Survey total = Suppliers + Manufacturers

Imports by Chemical Suppliers in Customs Database

Item (in kg)	2015	2016	2017	2018	Total
Customs total	6,093,002	8,277,242	7,885,667	7,499,221	29,755,132
Imports by Chemical suppliers	5,036,566	6,335,836	6,395,503	6,010,338	23,778,245
% Imports by Chemical suppliers	82.7	76.5	81.1	80.1	79.9
Imports by others	1,056,435	1,941,405	1,490,163	1,488,882	5,976,887

Chemical Suppliers as in primary survey

GAC Report #2 National Energy Award

Organization: MESTECC
Department MESTECC
Date: Thursday, August 1, 2019
Time: 7.00pm to 10.00pm
Place: Majestic Hotel, Kuala Lumpur
MASHRAE: Ir Chen TL (BOG) & IPP Ir Tan Chooi Bin
Representatives MESTECC & Energy Industries



The minister, YB Yeo Bee Yin, in her opening speech, graciously thanked MASHRAE and Malaysia GBC as new partners to support the Malaysia Green Technology Corporation (MGTC) for future NEAs. The NEA is an annual recognition to acknowledge outstanding achievements and best practices in driving the country's sustainable energy sector. NEA, now in its second year, is a platform for promoting the development of renewable energy and energy efficiency innovations. For this year, there were 145 applications with 77 final submissions competing in 3 core areas of energy efficient buildings, energy management, and renewable energy sectors. A total cash reward over RM700,000.00 were given out to the winners. The winners will go on to represent the country in the annual ASEAN Energy Awards. MASHRAE member, Ir. TL Chen was once again the chief judge for this year's NEA competition.

GAC Report #3 Advance Trainers' Course on ACMV (HVAC)

Event:	2-Day Course to enhance knowledge on HVAC Energy Efficiency for practitioners of Chiller replacement program completed by government of Malaysia over the last 5 years
Organization:	Ministry of Energy, Science, Technology, Environment & Climate Change (MESTECC)
Organizing PIC:	Steve Lojuntin
Department	Sustainable Energy Development Authority (SEDA) Malaysia
Date:	7th & 8th August 2019
Time:	9.00am to 5.30pm
Place:	SEDA Training Room
MASHRAE:	Ir Chen TL (BOG), Ir Ng Yong Kong (DRC).
Representatives:	28 invited Verifiers of Chiller Replacement Program, Facilities Managers and Energy Consultants

The SAVE (Sustainability Achieved Via Energy Efficiency) Program for Chillers was a specific part of the overall SAVE Program that was created and administered federally by MESTECC in 2011 and is funded by the Government under its Economic Transformation Program (ETP) to stimulate the economy.

The SAVE Program was under Entry Point Project 9 where improving energy efficiency had been identified to boost the economy development of Malaysia.

RM 14.4 million was allocated for the SAVE Program (Chiller) with funding awarded on a first come, first served basis to eligible business owners who replace existing chillers with new EE chillers for their buildings during the rebate offer period through SEDA Malaysia.

The rebate amount was RM200 per RT (refrigeration ton).

The project commenced in 2014 and 50 applications to replace chillers were approved with the last installation completed early 2019.

Training courses were regularly conducted to train verifiers and applicants over the last 8 years with this being the concluding Advanced Course.

Meanwhile, SEDA has in principle agreed to MASHRAE's proposal to convert this course into a SEDA-MASHRAE course to be conducted at least twice a year. Final approval is now pending SEDA's Board.



GAC Report #4

International Construction Week (ICW) 2020 Stakeholder Meeting & Press Conference

Organization:	Construction Industry Development Board (CIDB) Malaysia & UBM
Organizing Person:	Mr Adzli Ariff
Department	CIDB
Date:	Tuesday, 8 August 2019
Time:	8.30am to 12.15pm
Place:	Putra World Trade Centre (PWTC), Kuala Lumpur
MASHRAE representatives:	WenBin Ng, King YJ
Representatives:	MASHRAE, IEM, MACRA, FPAM, ACEM, TEEAM, FMM, MBAM, etc

More than 40 attendees from NGO and Government department attended this Stakeholder meeting and Press Conference of International Construction Week (ICW) 2020. The collaboration between CIDB and UBM on organising Event of Super 8. ASEAN Super 8 is the leading trade fair in the ASEAN region that integrates various leading exhibitions dedicated towards promoting the latest developments and technologies within industries related to construction, energy and the built environment. The three day extravaganza featuring exhibitions, conferences, seminars, technology symposiums and so much more will attract thousands of exhibitors and tens of thousands of visitors to MITEC, This 1st stakeholder meeting will be gather informations and suggestions for Stakeholders and discussed the overall findings of the Super 8 2019 , particularly the exhibition of the event. In addition, this meeting also discussed in depth with stakeholder members about the future activities that will be organised conjunction with Super 8.



Held in conjunction with



GAC Report #5 EECA Act Stakeholders Engagement

Event:	MESTECC Initiatives for Energy Efficiency and Conservation Act (EECA) for Electricity and Thermal
Organization:	MESTECC and EC
Organizing PIC:	Zulkiflee Umar
Department	Energy Commission
Date:	Thursday, September 12, 2019
Time:	9.00am to 13.30pm
Place:	Bangi Resort Hotel, Bandar Baru Bangi
MASHRAE:	Chea Swei Keong (GAC Chapter Chair), Ng Wen Bin (President), Ir Chen TL (BOG), Ir Leong Siew Meng
Representatives:	Stakeholders: American Malaysia Chamber of Commerce (AMCHAM), Association of Consulting Engineers Malaysia (ACEM), Association of Energy Engineers, Board of Engineers Malaysia (BEM), Centre for Environment, Technology & Development, Malaysia Association of Energy Service Companies (MAESCO), Malaysian Investment Development Authority (MIDA), National Chamber of Commerce and Industry of Malaysia (NCCIM), SIRIM Berhad, Persatuan Arkitek Malaysia (PAM), Persatuan Pengguna Islam Malaysia (PPIM), Malaysian Association of Facility Management (MAFM), Malaysian Associated Indian Chambers of Commerce & Industry (MAICCI), Malaysia Gas Association, Dewan Perniagaan Melayu Malaysia and TNB Energy Services Sdn Bhd.
Report:	Energy Commission (EC) team briefed the completed EECA Draft Act to Stakeholders prior to further actions.



GAC Report #6 Cambodia Energy Efficiency (EE) Master Plan Study

Organization:	Ministry of Mines and Energy Cambodia
Department	General Department of Electricity (GDE)
Date:	18-19 September 2019
Time:	9:30am to 4:30pm
Place:	GDE office in Phnom Penh
MASHRAE:	Ir. Leong Siew Meng
Representatives:	GDE Energy Efficiency & ERIA Team

At the request of the Ministry of Mines and Energy, Cambodia, the Economic Research Institute for ASEAN and East Asia (ERIA) offered to conduct EE Master Plan study for Cambodia. The ERIA team was headed by Mr. Shigeru Kimura, who was supported by four engineers from Malaysia, Ir. Leong Siew Meng, Ir. Luk Chau Beng, Ir. Yau Chau Fong and Ir. Lee Yuen How.

This was the first meeting to brief GDE which was the department responsible to plan and develop EE programmes for Cambodia. The topics presented included:

- 1) Legislative Framework
- 2) Establishment of ESCO
- 3) Energy Managers
- 4) Standards & Labeling System
- 5) Education and Promotion Campaigns
- 6) Methodology of collecting energy consumption data and establishment of EEI



GAC Report #7 OZONE DAY 2019

Title: Seminar: Cooling Technology in Refrigeration & Air Conditioning Sector (Food & Beverage Industry)

Organization: Department of Environment (DOE)

Organizing Person: Mr Salahudin B. Sidek

Department: Department of Environment (DOE)

Date: Tuesday, 24 September 2018

Time: 8.30am to 1.00pm

Place: Tenera Hotel Bandar Baru Bangi Selangor

MASHRAE Representatives: WenBin Ng, Wee Han Tan, Kai Sin Poh, Tone Vei Tee, CHEE HUAN LEOW, SJ Chew.

Other Representatives: MASHRAE, JKR, MOSTI, DOE, UTM, Petronas, IKM, ILP, other NGOs, professional bodies and the general public.



ASHRAE Malaysia Chapter participated in the DOE Ozone Day Seminar. SJ Chew presented on ammonia refrigeration systems and Tee TV presented on refrigerant applications in heat pump systems.



GAC Report #8

Adopting Low Carbon Design Strategies In Professional Practice For Low Carbon Cities 2030 Challenge

Organization:	Malaysian Green Technology Cooperation
Organizing Person:	Saiful Adib Bin Abdul Munaff
Department	MGTC
Date:	Wednesday, 9 October 2018
Time:	14:30 to 15:30
MASHRAE representatives:	WenBin Ng, King YJ
Representatives:	MASHRAE, IEM, PAM, ACEM, MAESCO , MGBC, MIOB

The LCC2030C is an initiative by MESTECC and MGTC to accelerate the transformation of our cities into low carbon cities. It was officially launched by YB Puan Yeo Bee Yin, Minister of MESTECC on the 23rd of July 2019. We are currently working with 52 out of 154 Local Authorities to establish Low Carbon Zones within these cities. These Low Carbon Zones will have reduced emissions from energy and water consumption from buildings and common areas, reduced emissions from petrol and diesel private vehicle use and reduced emissions from the generation of waste that end up in landfills. The Low Carbon Zones, once designated, will allow the Local Authorities to implement a more structured and systematic low carbon city program. This is all in-line with our National 45% emissions reduction target. Their intention is to collaborate with all the Professional Bodies that are involved in the built environment to work together towards achieving the LCC2030C objectives and to sign an MOU with MASHRAE along with other Professional Bodies at IGEM which will be witnessed by YB Minister.



WHAT NOT TO MISS!

ASHRAE RUN | ashraerun

2020 ASHRAE RUN

RUN BEYOND BORDERS

1 March 2020 | *Travel* | University of Malaya
6.30am

Runner's Entitlement

- T-SHIRT
- RACE BIBS
- MEDAL
- GOODIES
- PHOTOS
- DRAWSTRING BAG
- LUCKY DRAW

Students from **Rm45** · **Early bird from Rm50** · Adults from **Rm60**
5km Fun Run · 10km Male Female

Organized By
ASHRAE Malaysia Chapter | UNIVERSITY OF MALAYA

ASHRAE Run 2020 introduces a whole new running experience — **travel while you run!** Engage yourself with the culture of exotic countries like **Japan, Thailand, Taiwan and Malaysia** in the specially **decorated 5km and 10km routes**. Everyone loves travel and running ! Don't miss out on **ASHRAE Run 2020**, where you can **Run Beyond Borders** of countries !

You'll be amazed by the fresh idea of the run! That's not all, surprises await you at every corner! Come immerse yourself in the **mini-festival!** Show your love for the run at our featured **Instagrammable photo walls of each country!**

Register NOW! **Limited slots to 1,500 participants only!**
Don't miss the opportunity to run and travel!

PS* In case you haven't received the memo, **ASHRAE Run 2020** has beautifully decorated entrances and historic costumes of different countries, unique medals, impressive entitlements and much more!.

Event Date	1 March 2020
Event Time	6.30 a.m.
Event Venue	UM Arena

CONTACT PERSON

Benjamin : 011-13024830

Joey : 018-4073998

Ticket Website :

[https://www.ticket2u.com.my/event/14489/ashrae-run-2020-\(travel\)](https://www.ticket2u.com.my/event/14489/ashrae-run-2020-(travel))