

## HALF DAY COURSE ON DESIGN, SELECTION AND IMPROVING EFFICIENCY OF PRECISION COOLING SYSTEM FOR NEW AND EXISTING DATA CENTRE

No	Name	M'ship No.	Grade	Fee (RM)
<b>SUB TOTAL</b>				
<b>TOTAL PAYABLE</b>				

Enclosed herewith a crossed cheque No: \_\_\_\_\_ for the sum of RM \_\_\_\_\_ issued in favor of "The Institution of Engineers, Malaysia" and crossed 'A/C payee only'. I/We understand that the fee is not refundable if I/We withdraw after my/our application is accepted by the Organising Committee as stated in the cancellation term. If I/We fail to attend the seminar, the paid registration fee will not be refunded.

Contact Person: \_\_\_\_\_ Designation: \_\_\_\_\_

Name of Organization: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone No.: \_\_\_\_\_ (O) \_\_\_\_\_ (Fax)

\_\_\_\_\_ (H) \_\_\_\_\_ (HP)

Email: \_\_\_\_\_

Signature & Stamp \_\_\_\_\_

Date \_\_\_\_\_

### REGISTRATION FEE (SST shall be at 6% with effect from 1 March 2019)

GRADE	ONLINE	NORMAL (OFFLINE)
IEM STUDENT MEMBER	RM 80.00	RM 100.00
IEM GRADUATE MEMBER	RM 150.00	RM 180.00
IEM CORPORATE MEMBER	RM 250.00	RM 300.00
NON-IEM MEMBER	RM 400.00	RM 500.00

#### Terms & Conditions:

- For ONLINE REGISTRATIONS, only ONLINE PAYMENT is applicable [via RHB and Maybank2u –Personal Saving & Personal Current; Credit Card - Visa/Master].
- Payment via CASH / CHEQUE / BANK-IN TRANSMISSION / BANK DRAFT / MONEY ORDER / POSTAL ORDER / LO / WALK -IN will be considered as NORMAL REGISTRATION
- FULL PAYMENT must be settled before commencement of the course, otherwise participants will not be allowed to enter the hall. If a place is reserved and the intended participants fail to attend the course, the fee is to be settled in full.
- Fee paid is not refundable. Registration fee includes lecture notes, refreshment.
- The Organizing Committee reserves the right to cancel, alter, or change the program due to unforeseen circumstances. Every effort will be made to inform the registered participants of any changes. In view of the limited places available, intending participants are advised to send their registrations as early as possible so as to avoid disappointment.

#### The Institution of Engineers, Malaysia

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#### PERSONAL DATA PROTECTION ACT

I have read and understood the IEM's Personal Data Protection Notice published on IEM's website at <http://www.myiem.org.my> and I agree to IEM's use and processing of my personal data as set out in the said notice.



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**APPROVED CPD HOURS: 4 REF. NO: IEM19/HQ/014/C**

**DATE :** 13TH MARCH 2019 – Rescheduled to 3<sup>rd</sup> April 2019  
**TIME :** 9.00 AM – 1.00 PM  
**VENUE :** C&S, TUS LECTURE ROOM, 2<sup>ND</sup> FLOOR, WISMA IEM, PETALING JAYA, SELANGOR  
**SPEAKER :** IR. ERIC CHANG

**ORGANISED BY: MECHANICAL ENGINEERING TECHNICAL DIVISION**

### SYNOPSIS

Due to the exponential use of Internet, virtualization and cloud technology, the heat density per server racks has increased from average of 1-3 Kw/Rack to 4-6 Kw/rack. Certain IT application for financial institution, co-lo and research have even reach 15-30 Kw/Rack. With this development, the ability for the existing cooling technology to cater for this increasing cooling demand becomes the one of biggest challenging problem for data center owner and collocation operator. This talk will share data center precision cooling design standards, design of precision cooling, various options of precision cooling systems and technologies, evolution of precision cooling technologies to adapt to the above challenge and various cooling efficiency mythologies that can be implemented for existing and new data center to improve the energy efficiency and green data center initiative.

### BIODATA OF SPEAKER



Ir. Eric Chang is Managing Director of PA Vision Sdn Bhd. The Company is involved in providing one stop solution for all data center infrastructure setup. Ir. Eric Chang has over 30 years from manufacturing, implementing, project and consulting experience especially in the area of data center and critical space cooling from conceptual planning to implementing and maintenance of mechanical and electrical system for data center.

Ir Eric Chang is a Mechanical Engineer graduated with Hons. from University of Malaya, 1988. He also has a MSc. in Information Technology from University Putra Malaysia, 2000. He is a GBI green building facilitator. He is also an Uptime and TIA 942 accredited data center consultant. He is trained in data center cooling expert and energy efficiency by Data center dynamics which is the leading data center training program in the world.

#### TENTATIVE PROGRAMME

8:00 am – 9:00 am	Registration/breakfast
9.00 am - 9.30 am	Server Room Environment Criteria and Tier Rating
9.30 am - 9.15 am	Comfort Air conditioner vs precision Air conditioner
9.15 am - 10.00 am	Heat Load and Design of Precision air conditioner
10.00 am – 11.00 am	Precision air conditioner system option and selection
11.00 am - 11.45 am	Best practice for maximum data centre cooling efficiency
11.45 am – 12.30 pm	Best Practice to Improve New/Existing data centre cooling efficiency.
12.30 pm – 1.00 pm	Cooling Technology To Tackle High heat density data centre.