

Consulting Engineering Special Interest Group

The Institution of Engineers, Malaysia

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Organised by:

Consulting Engineering Special Interest Group, The Institution of Engineers,
Malaysia

2-Day Seminar on “High Performance Chiller Plant”

By: Mr Yow Kuan Yee

2-Day Seminar on “High Performance Chiller Plant”

| Name(s) | IEM M'ship No. /Grade | Fees (RM) |
|----------------------|--------------------------|-----------|
| | | |
| | | |
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| SUB TOTAL | | |
| ADD GST @ 6% | | |
| TOTAL PAYABLE | | |

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(Please write clearly as the “Confirmation Notification” will be sent via email)

Contact Person: _____ Designation: _____

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PAYMENT DETAILS

 Cash RM _____

 Cheque no. _____ for the amount of RM _____
(non-refundable) and made payable to “**THE INSTITUTION OF ENGINEERS, MALAYSIA**”
and crossed ‘**A/C Payee Only**’.

IMPORTANT NOTES

- For ONLINE REGISTRATIONS, payment MUST BE MADE ON REGISTRATION [via RHB Now and Maybank2u – Personal Saving & Personal Current: Any 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. If the participant failed to attend the course, the fee paid is non refundable. IEM reserve the right to reject any LOU/LOG not in accordance with these instructions.
- The Organising Committee reserves the right alter or change the program due to unforeseen circumstances.

Date : 17th & 18th January 2020, Friday & Saturday

Time : 9.00am – 5.00pm

Venue : C&S & TUS Lecture Hall, 2nd Floor, Wisma IEM, PJ

REGISTRATION FEES (SUBJECT TO 6% SST)

| Grade | Online Fee | Normal Fee |
|---------------------|------------|------------|
| IEM Student Member | RM 30.00 | RM 50.00 |
| IEM Graduate Member | RM 200.00 | RM 300.00 |
| Corporate Member | RM 400.00 | RM 500.00 |
| Non IEM Member | RM 550.00 | RM 650.00 |

Closing Date: 14th January 2020

BEM Approved CPD/PDP Hours: 13
Ref. No: IEM19/HQ/592/C

CANCELLATION POLICY

IEM reserves the right to postpone, reschedule, allocate or cancel the course. Full refund less 30% if cancellation is received in writing more than 7 days before start date of the event. No cancellation will be accepted prior to the date of the event. However, replacement or substitute may be made at any time with prior notification and substitute will be charged according to membership stat

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.



BIODATA OF SPEAKER

Mr. K Y Yow, Director, HVAC Technical Centre of Excellence, HVAC & Transport, Asia Pacific & India, Ingersoll Rand

Yow is the Director of Trane HVAC Technical Center of Excellence, HVAC & Transport Business Unit, Ingersoll Rand, with responsibility to drive technical competency and system applications across the organization. A veteran in the industry, he has 38 years of experience in the air-conditioning field, that includes overseas

assignments in Malaysia and China. Prior to his current role, he has served as general sales manager of Trane Singapore and AP Regional System & Product Management leader. His vast experience covers product management, sales management and systems applications focusing on promotion of green and cost-effective HVAC solutions.

A member of the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE), he has served as Chairman of the Education Committee (Singapore Chapter). He is also a past president of the Air-conditioning & Refrigeration Association of Singapore.

Yow holds a Degree in Mechanical Engineering from National University of Singapore (1981), and MBA from The Nanyang Business School (NTU).

Synopsis- High Performance Chiller Plant Seminar

Business around the world are being challenged to improve energy efficiency in support of climate protection commitments by countries to address the threat of Climate Change. According to the World Business Council for Sustainable Development, buildings worldwide account for 40% of global energy consumption. Of that amount, between 45% to 65% is utilized by HVAC systems that keeps building environment comfortable and healthy. The slightest inefficiency in the HVAC systems will create a huge energy drain and the financial impact is significant.

The market, including Trane, offers a broad portfolio of chiller types with proven technologies for efficiency, reliability and easy adaptation of system application strategies such as Variable Primary Flow (VPF), Variable condenser Flow (VCWF) and Chiller-Tower optimization(CTO) to deliver HP Chiller Plants. Understanding the dynamic interactions of the various components under varying conditions of load, Wet Bulb, Flow and temperatures are fundamental to system optimization.

The desire to save energy, while operating within budget, lies in the heart of many of our decisions. VPF designs uses fewer pumps and fewer piping connections than primary secondary systems, which means fewer electrical lines and a smaller plant footprint. These factors reduces the initial cost of the chilled water system while enhancing performance.

The speaker will highlight on the design approach related to a High Performance Chiller plant room design, Chiller Plant Controls incorporating investment-grade Measurement & Verification (M+V) instrumentations and as well as remote live viewing of some chiller plants to illustrate the salient points of optimization.

TENTATIVE PROGRAMME

Day 1 (17th January 2020)

| | |
|----------|--|
| 8:30 AM | Registration |
| 9:00 AM | Welcoming Speech by Session Chairman |
| 9:15 AM | Speaker Introduction |
| 9.20 AM | ASHRAE Green Guide – Benchmark for HP Plant |
| 10:30 AM | Tea Break |
| 11:00 AM | Pumping Efficiency |
| 12:30 AM | Lunch Break |
| 1:30 PM | Heat Rejection Efficiency- Cooling Tower |
| 3:30 PM | Tea Break |
| 4:00 PM | Chiller Integrated Performance & Configuration |
| 5.00 | Q & A Session |
| 5.30 PM | Adjourned |

Day 1 (18th January 2020)

| | |
|-----------|---------------------------------|
| 8.30AM | Attendance Signing |
| 9:00AM | Chiller Plant Controls |
| 10:30AM | Tea Break |
| 11:00AM | Variable Primary Flow Revisited |
| 12:30NOON | LUNCH |
| 1:30PM | Measurements & Verification |
| 3.30PM | Tea Break |
| 4:00PM | Live Demo (Q & A) |
| 5:30PM | End of the Session |