

KL CONVENTION CENTER 23 - 25 MAY 2016

The mechanical and electrical (M&E) engineering fields are ever evolving. There are many changes in the legislation, practices and contracts that has change how the engineer approaches the design and specifications. And in today's world of multi-tasking and being technology savvy, M&E engineers are expected to have broad knowledge in the area of safety and risk management. To be a leading-edge engineer, engineers would need to know how a sub-system builds into an infrastructure and be beneficial to the community.

Day 1 – 23 May

Day 2 - 24 May

Day 3 - 25 May

- Green Energy & Sustainable
 Conservation of Water Apply Basic
 Engineering Principles Green Tech
- Why Green Energy & Sustainability
- Hdrocarbon as greener and more efficient refrigerants
- Renewable Energy in the Context of Sustainable Development
- Energy Efficiency : Catalyst for Green?

STREAM 1

Power

- Renewable Energy Policy & latest development of RE in Malaysia
- Overview of MS ISO 50001 Energy Management System
- * Latest electrical installations requirement
- * Electrical Safety Legislation Update
- * Why Earn a Professional Certification in Project Management?

REVAC

- Commissioning Process for Smoke Control System
- Healthcare Ventilation System
 Requirements and
 Challenges Emphasising
- Controls In Green Buildings (Airconditioning Systems)
- IOT of REVAC Systems

STREAM 2

Development in Code and Standards

- <u>عدالته م</u>
- * M&E concern with Strata or mixed development
- New UBBL
- * IEM M&E form of contract
- * Earthquake Restrains for Mechanical Systems

M&E Infrastructure

- * Railway control centre ergonomic M&F
- Greenfield Power Plant Project
- Regulatory Compliance to Water Services Industry Act 2006 (WSIA) for Water and Sewage Works
- Water Use Reduction in Green Buildings
- PM of Major Infra Works

Safety and Risk Control

- Combustible Dust Explosion
 Risk Management
- Lift & Escalator Code in Malaysia
- Very Early Aspirating Smoke Detection Technology and Solutions& New approach to Gas Detection
- * CLASS and GHS for M&E

DATE	ТІМЕ	ТНЕМЕ	STREAM 1	ТНЕМЕ		STREAM 2			
23 May 2016 (Monday)	10:30 am - 11:30 am	4	Conservation of Water - Apply Basic Engineering Principles		ហ	M&E Concern with Strata or Mixed Development			
	11:30 am - 12:30 am Hay in the second of th	Why Green Energy & Sustainability (Mr. James Chua)	STANDA	Hours: 85/F	(Ir. Lum Youk Lee) OSC 3.0 of Building Permits (Ir. Yim Hon Wa)				
	12:30 pm – 2.00 pm	STA PDF Q/1	BREAK	8	PDF 0/1	BREAK			
	2:00 pm - 3:00 pm	1 CPD/1 M16/H	Hydrocarbom as Greener and More Efficient Refrigerants (Mr. Ferdinand Ng)	NCODE	1 CPD/J M16/H	New UBBL (Ir. Thin Choon Chai)			
	3:00 pm – 4:00 pm	GREEN ENEGY & SUSTAINABLE BEM Approved CPD/PDP Hours: Ref No: IEM16/HQ/184/F	Green Technology & Sustainable Development (Ir. Dr. Aidil Chee Tahir)	DEVELOPMENT IN CODE & STANDARDS	BEM Approved CPD/PDP Hours: Ref No: IEM16/HQ/185/F	Earthquake restrains for Mechanical Systems (Ir. Tan Yiing Yee)			
	4:00 pm – 5:00 pm	GRE BEM A	Energy Efficiency : Catalyst for Green? (Ir. Kok Yen Kwan)	DEVELO	BEM /	IEM Form of Contracts for Civil and Mechanical & Electrical Engineering Works (Ir. Oon Chee Kheng)			
24 May 2016 (Tuesday)	10:30 am - 11:30 am		Renewable Energy Policy & Latest Development of RE in M'sia (Dato' Dr. Ali Askar)			Railway Control Centre Ergonomic M&E (Ir. Syed Neguib)			
	11:30 am – 12:30 pm	ours: 5 5/F	Overview of MS ISO 50001 Energy Management System - Requirements with Guidance for Use (Ir. Francis)	띩	ours: 5 //F	Greenfield Power Plant Project (Ir. Fam Yew Hin)			
	12:30 am - 2.00 pm	Р Н 186	BREAK	ŢŪ	P H 187	BREAK			
	2:00 pm – 3:00 pm	<u>POWER</u> BEM Approved CPD/PDP Hours: 5 Ref No: IEM16/HQ/186/F	Latest Updates on MS1979:2016- Electrical Installations of Buildings – Code of Practice (Ir. Yau Chau Fong)		BEM Approved CPD/PDP Hours: 5 Ref No: IEM16/HQ/187/F	Regulatory Compliance to Water Services Industry Act 2006 (WSIA) for Water and Sewage Works (Mr. Chow Kin Liung)			
	3:00 pm – 4:00 pm	BEM Appro Ref No:	Electrical Safety Legislation Update- Amendment of Electricity Supply Act 1990 with Respect to Improving Safety Practices (Ir. Hj. Nur Ali Bin Omar)		BEM Appro Ref No	Water Use Reduction in Green Buildings (Mr. Gregers Reimann)			
	4:00 pm -5:00 pm		"Why Earn a Professional Certification in Project Management?" (Ir. Frankie Chong)			PM of Major Infra Works (Ir. Dr. Cheong Thiam Fook)			
25 May 2016 Wednesday)	10:30 am - 11:30 am	ours: 4 /F	Commissioning Process for Smoke (Ir. Soong Peng Soon)	<u>][</u>	urs: 3 /F	Combustible Dust Explosion Risk Management (Mr. Felipe Ong)			
	11:30 am – 12:30 am	REVAC BEM Approved CPD/PDP Hours: Ref No: IEM16/HQ/188/F	IOT of REVAC Systems (Ir. Dr. Tan Chee Fai)	ONTRC	² DР Но 2/189/	Lift & Escalator Code in M'sia (Mr. Raghib, Grad IEM) BREAK			
	12:30 pm – 1:30 pm		BREAK	KC					
	1:30 pm – 2:30 pm		Healthcare Ventilation System Requirements & Challenges (Ir. Al-Khairi)	SAFETY & RISK CONTROL	BEM Approved CPD/PDP Hours: Ref No: IEM16/HQ/189/F	Very Early Aspirating Smoke Detection Technology and Solutions& New approach to Gas Detection (Mr. Derrick Wong)			
	2:30 pm – 3:30 pm	BEM App	Emphasising Controls In Green Buildings (Air-conditioning Systems) (Ir. Daniel Lim Kim Chuan)	SAFE		CLASS & GHS for M&E EngineersCLASS (Ir. Kim Kek Seong)			

DATE	TIME	STREAM 2			
23 May 2016 (Monday)	12:30 p.m - 1:30 p.m	COPE in Code Assessment and Risk Management (Ir. Loo Chee Kin) BEM Approved CPD/PDP Hours: 2 Ref No: IEM16/HQ/190/T			
24 May 2016 (Tuesday)	12:30 p.m - 1:30 p.m	Flood Pumping Stations (Ir. Puvanesan) BEM Approved CPD/PDP Hours: 2 Ref No: IEM16/HQ/191/T			

^{*}Attending on the lunch time forum is complimentary to participants who have signed up for any day or stream

25 MAY 2016 (WEDNESDAY) STREAM 1 REVAC

> BEM Approved CPD/PDP Hours: 4 Ref No: IEM16/HQ/188/F

10. 00 am - 10.30 am

Registration

10. 30 am - 11.30 am



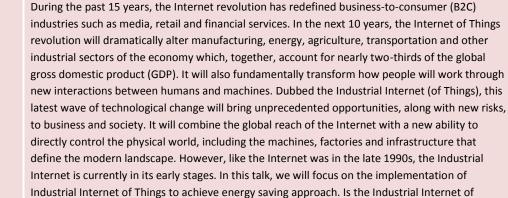
Ir. Soong Peng Soon

Topic: Commissioning Process for Smoke

Commissioning is a quality assurance process that ensure building systems are designed, installed and performing to the Owner's Project Requirements. High performance building often mandates commissioning report from industry experts describing and verifying performance based metrics for conventional building systems such as air-conditioning, electrical services, etc. Commissioning process for smoke control system is a relative new topic, whereby BSI Standards Publication has just added part 8 to the BS 7346 in year 2013 that including code of practice for commissioning. For AHSRAE, Guideline 1.5 was published in year 2012 that describes the Commissioning Process for Smoke Control Systems. Commissioning process cuts across the design, delivery and performance evaluation of smoke control system that requires Owner's commitment and expertise in fire engineering, mechanical & electrical services & any innovative technologies. Performance verification process is more clearly define in the newly established standards and they can be applicable to both old & new systems. The session will present a general discussion on content BS-7346 Part 8 and making some reference to ASHRAE Guideline.

11.30 am - 12.30 pm

Topic: IOT of REVAC Systems



Ir. Dr. Tan Chee Fai

Break

12.30 pm – 1.30 pm 1.30 pm – 2.30 pm



Ir. Al- Khairi Mohd Daud

Topic : Healthcare Ventilation System Requirements and Challenges

Things is able to reduce the energy use by space cooling, space heating, water heating and refrigeration which represents about 70% of total energy consumption for residential buildings?

Healthcare buildings house many clinical departments and support services that require specialized air conditioning and ventilation system. Many healthcare facilities expanded their services or change the service of the rooms or floor throughout the life of the hospital. Though the space may be suitable for the new services, the original mechanical and electrical system such as ventilation systems may not be able to accommodate the needs of the new services especially when the area has been retrofitted.

In many cases the architects and health planners decides the requirements but overlooked the mechanical and electrical needs that are critical in getting conducive patient care as per the standard. The speaker shall talk about the healthcare air condition and ventilation requirements and the challenges that face the professionals in the industry to design and retrofit the current installation.

2.30 pm - 3.30 pm



Ir. Daniel Lim Kim Chuan

Topic: Emphasising Controls In Green Buildings (Air-conditioning Systems

25 MAY 2016 (WEDNESDAY) STREAM 2

SAFETY & RISK CONTROL

BEM Approved CPD/PDP Hours: 3 Ref No: IEM16/HQ/189/F

10. 00 am - 10.30 am

Registration

10. 30 am - 11.30 am



Mr. Felipe Ong

Topic: Combustible Dust Explosion Risk Management

This talk cover very important aspects on creating awareness of such a risks, identifying type of hazardous materials, type of processing equipment at risk, type of Industries which require Dust explosion Risk Management, Hazards evaluation & testing including: Kst - Dust Explosibility Index; Pmax - Max pressure arising of deflagration; identifying all the possible sources of ignition that is present & how to control & mitigate them, and discuss what the available prevention methods: such as inertion; static controls; containment; Sparks & burning embers detection; CO monitoring, etc...etc... Available protection method such as venting, Suppression, Building Vents, Mechanical & Chemical Isolation. International Codes & Standards covering NFPA (USA), ATEX (EU). Some of the recent and significant dust explosion case studies will be shared as well along with valuable lesson learnt!

11.30 am - 12.30 pm



Mr. Raghib Fasih Azmi, **Grad IEM**

Topic: Lift & Escalator Code in Malaysia

The Malaysian Lift Regulations which is based on BS2655 was established under the Factory and Machineries Act 1967. The regulations came into force on 1st February 1970. The Lift Regulations is for Passenger and Goods lifts while Escalators are managed under special provision.

Since the establishment of the Lift Regulations, the BS which it is based on has undergone many revisions. However, the Malaysian Lift Regulations has remained the same. Jabatan Keselamatan dan Kesihatan Pekerjaan (JKKP) is the regulatory authority which enforces the Lift Regulations and has issued directives to incorporate some important requirements that are in the latest standards but are not in the Lift Regulations.

The Working Group on Lift and Escalator (WGLE) at SIRIM has published some Malaysian Standards by adapting EN in an effort to bring the Malaysian VTS industry up to par with global standars. Currently the WGLE is working on adapting the latest EN.

12.30 pm - 1.30 pm

Break

1.30 pm - 2.30 pm

Topic: Very Early Aspirating Smoke Detection Technology and Solutions& New approach to Gas Detection

Mr. Derrick Wong

2.30 pm - 3.30 pm



Ir. Kim Kek Seong

Topic: CLASS & GHS for M&E Engineers CLASS

	Category 1 IEM Member	Category 2 For Non-Member			
Per Session	RM400.00	RM600.00			
Per Stream	RM800.00	RM1200.00			
Full Flex	RM900.00	RM1350.00			

*GST not included

SPECIAL!!

- 1. Student will be entitled to 30% discount (upon authentication of student status)
- 2. Group discount will be entitled for groups of 3 or more delegates from same company - 10%
- 3. Early bird registration before 23 April 2016 will be entitled to 10% discount

Terms & Conditions:

- Meals are not provided
- For ONLINE REGISTRATIONS, only ONLINE PAYMENT is applicable [via Credit Card]
- Payment via CASH / CHEQUE / BANK-IN TRANSMISSION / BANK DRAFT / MONEY ORDER / POSTAL ORDER / LO / WALK -IN will be considered as NORMAL REGISTRATION
- For online registrations, please note that **payment MUST be made on 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. Registration fee includes lecture notes, refreshment and lunches.
- The Organising 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.

REGISTRATION

			S	tream 1	L*	S	tream 2	2*	(,)
No	Name	IEM M'ship No	23 May	24 May	25 May	23 May	24 May	25 May	Fees (RM)
*Please tick to the appropriate day			Subtotal						
			GST 6%						
			Total Pavable						

Organisation/ Company:							
Address:							
		Postal Code:					
Email:							
Tel:	Mobile No:	Fax:					
For Further details, please contact	Who should attend:						
and/or fax this REGISTRATION	Mechanical and electrical (M&E) engineers.						
FORMAL	Puilding convices engineers and those involved in green						

FORM to:

The Institution of Engineers, Malaysia Bangunan Ingenieur, Lots 60/62, Jalan 52/4, 46200 Petaling Jaya, Selangor

Tel: 03-7968 4001/2 Fax:03-79577678 Email:sec@.org.my/ norfarehan@iem.org.my Website:www.myiem.org.my

- Building services engineers and those involved in green technology and renewable energy; power and electrical industries; or refrigeration, ventilation and air-conditioning.
- Facility management, engineers, consultants, designers, contract administrators and project managers interested in recent developments in Code and Standards.
- Planners, engineers, designers and project consultants involved in planning M&E infrastructure.
- Safety engineers and those responsible to implement safety and risk control measures.

PERSONAL DATA PROTECTION ACT

I have read and understood the IEM's Personal Data Protection Notice published IEM's website 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.

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 notification prior substitute will be charged according to membership status.

Organised By:



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