Chairman
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**CLOSING DATE: 16 MAY 2016**

**GST implemented effective 1 April 2015**

## TWO DAY COURSE ON PRACTICAL FIRE DETECTION AND ALARM SYSTEMS DESIGN

~~**18 & 19 May 2015**~~ **(POSTPONED UNTIL FURTHER NOTICE)**

## REGISTRATION FORM

| No | Name (s) | M'ship No | Grade | Fees (RM) |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| ***Note: Fees MUST be fully paid A WEEK BEFORE the commencement of the course. Bookings by fax from outstations MUST be forwarded with payments at least A WEEK BEFORE the day of the course. Seats could only be confirmed upon payment.*** | | | **Sub-Total** | |
| | | | **Add GST @ 6%** | |
| | | | **Total Payable** | |

Enclosed herewith a cheque No.: _____ for the sum of RM _____ issued in favour 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 registration is accepted by the Committee but substitution of participants will be allowed. If I/we fail to attend the course, the fee paid would not be refunded.

Contact Person: .....

Designation: .....

Name of Organization: .....

Address: .....

.....

.....

Tel (O) : ..... T (H) : .....

Fax No. : ..... E-mail : .....

**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.

.....
*Signature & Stamp*

.....
*Date*

**BEM Approved CPD/PDP: 14 Hours**
**Ref No: IEM16/HQ/156/C**

The Institution of Engineers, Malaysia

YES THE INSTITUTION OF ENGINEERS, MALAYSIA

**CLOSING DATE: 16 MAY 2016**

# TWO DAY COURSE ON PRACTICAL FIRE DETECTION AND ALARM SYSTEMS DESIGN

**Organized by**
**Young Engineers Section, IEM**

**Date** : ~~18 & 19 May 2016~~ - **Postponed until further notice**
**Time** : 9.00am – 5.30pm
**Venue** : C&S and TUS Lecture Room, 2nd Floor, Wisma IEM, Petaling Jaya, Selangor
**Speaker**: Mr. Hao-giang Tay **(IFE (UK) Malaysia Branch President)**

**REGISTRATION FEE *(Subject to 6% GST)***

| Grade | Online Registration (www.myiem.org.my) | Normal Registration |
|---|---|---|
| Student Member | **RM 250** | **RM 300** |
| Graduate Member | **RM 450** | **RM 500** |
| Corporate Member | **RM 700** | **RM 750** |
| Non-Member | **RM 950** | **RM 1000** |

**TERMS & CONDITIONS:**

For **ONLINE REGISTRATION**, only ONLINE PAYMENT is applicable [via RHB and Maybank2u – Personal Saving & Personal Current; Credit Card - Visa/Master]. Please note that payment **MUST** be made **"ONLINE" before the closing date**. If payment is not received and verified within the stipulated time, the fee will be reverted to the normal registration fee.

- 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 made payment and failed to attend the course, the fee paid is non-refundable. Registration fee includes lecture notes, refreshment and lunches.
- 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.

POSTPONED (until further notice)

## BIODATA OF SPEAKER

Mr. Hao-giang Tay is a qualified and experienced fire consultant. He graduated with a Bachelor of Science degree with honours from Heriot-Watt University. He is also a graduate of Edinburgh University with a Master of Science degree in Fire Safety Engineering.

On top of his academic background, Mr. HG Tay has cumulated 34 years of experience in the fire safety engineering industry. Due to his working experience, he is one of the very few fire engineers who have gained vast practical knowledge and experience in Fire Engineering, active and passive fire protection concepts, products as well as systems. As a fire safety engineering trainer, he has over the years been engaged by many local as well as International corporations to conduct both in-house training on top of public training short courses.

Other than his Master of Science thesis "Audibility of fire alarm signals for high ambient noise environment", his continuing research in human behaviour in response to fire alarm signal has many interesting findings that is applicable to modern fire detection and alarm design. He is co-author of "Guide to Fire Protection in Malaysia", a Guide to Uniform Building By-laws 1984 that is widely used by fire officials, architects and engineers in Malaysia.He is also actively involve in Malaysian Standard development. He is a member of Industrial Standard Committee (IC) for Fire Safety and Prevention for many years and also chairs SIRIM Technical Committee (TC), Working Group (WP) other that serving as members of several TCs.

He is a regular speaker in this region. He has presented fire detection and alarm design papers during Fire Asia Conference, fire safety engineering papers at Tenaga Bhd National Conference, IEM Conference; Ministry of Human Resource Malaysia Conference on Occupation Safety and Health National Conference. He has also been invited to present a fire safety paper for health industry during the conference for Association of Private Hospitals Malaysia and Hospital Built Asia Conference in Suntec city, Singapore. Currently he is also the President of Institution of Fire Engineers UK (Malaysia Branch).

His unique and lively presentation which encompasses relating work experience; international case studies; insight into active and passive fire protection systems; best industrial practices; fire risk assessment photos make learning very much easier. He is highly rated basing on feedbacks from participants who had attended his seminars and conferences. His presentation is interesting and easy to understand with video, photos and illustrations.

In recognition of his expertise in fire engineering field, he has been invited to speak at national and International conferences in countries around the world. His technical papers of new best industrial practices are well received in countries like Singapore, Australia, Philippines, Taiwan, Hong Kong, USA, England, Scotland, China, India, South Africa, Netherlands, U.A.E. He was also invited as a speaker at EU Fire Advisory Panel Forum in Prague, Republic of Czechoslovakia.

## TARGETED PARTICIPANTS

Fire engineers, M&E engineers, fire detection and alarm system designers, fire contractors, fire detection and alarm manufacturers and suppliers, fire officers, building owners, property managers/engineers, facility managers/engineers, estate management manager/engineers, factory facility managers/engineers, hotel maintenance managers/engineers, shopping complex maintenance mangers/engineers, hospital facility managers/engineers, Insurance auditors, insurance underwriters and SMI entrepreneurs.

## SYNOPSIS (Course Contents)

- Fire behaviour and fire Science
- Fire risk and fire hazards
- International Fire Incident Case Studies and lessons learnt
- MS 1745 Fire Detection and Alarm System
- What is the objective of Fire Detection and Alarm System
- Types of Fire detection and Alarm Concept and Systems
- Types of Fire Indicative Panel Control Panel
- Types of heat sensor, smoke sampling, linear and beam detectors
- Learn the latest Fire detection technology
- How to select the most appropriate Audio Fire Alarm Sounders
- What is the difference between a mechanical bell and an electronic sounder in terms of audibility
- Find out why Visual Alarm units are necessary
- Learn the optimum positioning of Audio and Visual Alarm Units
- Essential calculation for back-up battery power supplies
- How do you validate your design to complied with Standards in terms of achieving the minimum audibility
- Types of cables and wirings required
- Best industrial practice for installation
- Rule of thumb of fire detection design
- Learn the limit of fire detection system
- Learn the height restriction beyond which you do not need a fire detection system
- How to ensure designed fire alarm signal generated fulfilled minimum Standard requirement of 65dBA and 75dBA
- The significant of audibility of fire alarm signal as the pre-requisite of pre-movement time in Performance-based design for RSET under tenable conditions
- The significance of fire detection and alarm system for mass evacuation during fire incidents

POSTPONED (until further notice)

## TENTATIVE PROGRAMME

| Time | 1st Day | 2nd Day |
|---|---|---|
| 0830 - 0900 | **Registration** | **Registration** |
| 0900 - 1000 | International Fire incidents and lesson learnt | Appropriate Selection and mounting of Fire Alarm Sounders |
| 1000 - 1015 | BREAK | BREAK |
| 1015 - 1115 | Fire and Smoke Behaviour | Fire Detection and Alarm System for Clean Agent Fire suppression system |
| 1115 - 1240 | Uniform Building By-laws 1984, Code and Standards | Incorporating acoustic fundamentals into Performance-based Fire Detection and Alarm system design |
| 1240 - 1300 | Q & A | Q & A |
| 1300 - 1400 | Lunch | Lunch |
| 1400 - 1530 | Fire Detection and Alarm Systems | Fire Detection and Alarm Design Tutorial and Workshop |
| 1530 -1545 | BREAK | BREAK |
| 1545 - 1645 | Fire Detectors, Selection and Applications | Fire Detection and Alarm Design Tutorial and Workshop |
| 1645 -1730 | Q & A | Q & A |

## 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 status