



**THE INSTITUTION OF ENGINEERS, MALAYSIA
(SOUTHERN BRANCH)**

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ONE DAY SEMINAR ON

“BEST PRACTICES IN JET FAN DESIGN IN ACCORDANCE TO BOMBA GUIDELINES”

Jointly Organised By:

IEM Southern Branch and

Sub-Committee on Fire Advisory Board, IEM

Date : **19th January 2013 (Saturday)**
 Time : 9.00 am – 5.00 pm
 Venue : The Zon Regency Hotel, Johor Bahru
 Speaker : Ir. Soong Peng Soon and Ir. Dr. Kannan M. Munisamy

**BEM Approved
CPD/PDP Hours: 6.5
IEM12/SB/340/S**

BACKGROUND

The application of jet fan system for smoke control in car park has been replacing conventional ducted system in ever faster pace for last few years. Thus, a guideline on this application has been issued by Jabatan Bomba dan Penyelamat Malaysia (JBPM) at end of June this year. This guideline is a very valuable tool to designer since application of jet fan system for building ventilation & smoke control is still a relatively new topic. Even the Code of Practice on smoke & heat control system for covered car parks of British Standard (BS 7346 Part 7) which had officially included jet fan system (so-called Impulse Ventilation in BS), was only issued in October 2006. JBPM's guideline is the result of many months of joint effort in research and technical discussion by a work group formed by JBPM, ACEM, IFE and IEM. Representatives from PAM has also given their valuable opinion in the final draft of the guidelines. The purpose of this Talk is to disseminate information in this new guideline to fellow IEM members and brief illustration on various clauses of the guideline. IEM Representatives to JBPM work group will try as far as possible to explain important aspects of it though we expect full coverage of such comprehensive guideline may only be possible in another forum or course that may take 4-8 hours in future (now in the planning stage).

BIODATA OF SPEAKER

Ir. Soong Peng Soon graduated from the University of Malaya in 1984 and has more than 28 years in the design, manufacturing, construction and testing of ventilation, HVAC system & components and general M&E services. He is highly regarded for his wide hands-on experience from design to start-up of many prestigious projects. He often shares his experience with professionals in design & trouble shooting of HVAC & general M&E systems. He is one of the IEM Representative to JBPM work group on jet fan system, Presently he provides advisory services to Malaysian and international contractors involved in prestigious projects in Malaysia & overseas. His knowledge in jet fan system was accumulated since many years ago with his wide exposure. He had assisted a major Malaysian main contractor in successful negotiation of a mega project in Middle East that had the one of world first large scale application of jet fans by end year 2005, even before inclusion of jet fan in document BS7346-7. He will be joined by other IEM Representatives to JBPM work group during the Talk.

Ir. Dr. Kannan M. Munisamy graduated from UNITEN in 2000 with Bachelor of Mechanical Engineering (Hons). Then joined UNITEN as tutor. Upon completion of training with TNB as trainee engineer he pursued his Master Degree in Cranfield University, Milton Keynes, UK. He was conferred with Master of Science in (Aerodynamics) specializing in Computational Fluid Dynamics and currently serving as senior lecturer in UNITEN. He has completed PhD in Mechanical Engineering specializing in CFD and experimental on automotive brake application from Universiti Tenaga Nasional in year 2012. With fundamental knowledge of CFD, various industrial consultancy projects were lead and contributed as team member. The consultancy projects including hydro power plant water flow problems, thermal power plant heat transfer related solutions, and air conditioning industry flow cases, high efficiency axial fan development, fire simulations and green building air change effectiveness calculations. Besides that, his expertise is in the area of automotive brake disk design and flow analysis for commercial and race car applications. He has lead couple of Ministry of Science and Innovation (MOSTI) funded projects on the development of brake disk experimental rig in lab located at UNITEN. He is also a member of Center of Advance Computational Engineering (CACE) at UNITEN, Fire Advisory board member (IEM), SIRIM work group member for a few sub-standard in MS standard, IEM, IMechE, and Engineers Australia member. He has published in international and local journals and conferences. He is also reviewer for IMechE journals. He has vast experience operating CFD ACE+, GRIDGEN and FLUENT, commercial CFD software. Special interest is on rotating type of flow simulations. His industrial CFD and thermo-fluid engineering experiences are accredited by Board of Engineers Malaysia and Engineering Council, United Kingdom and Engineers Australia by granting him Professional and Chartered Engineer status.

IEM Student & YES Member (Graduate below 30 yrs)	- RM 120.00
IEM Member Corporate Member	- RM 200.00
Non IEM Member	- RM 300.00

Closing for registration: 11th January 2013

TENTATIVE PROGRAMME	
8.30 - 9.00 a.m.	Registration
9.00 – 10.00 a.m.	Session 1
10.00 – 10.20 a.m.	TEA BREAK 1
10.20 - 12.00 nn	Session 2
12.00 – 1.00 p.m.	Session 3
1.00 – 3.00 p.m.	LUNCH BREAK
3.00 – 3.15 p.m.	TEA BREAK 2
3.15 – 4.45 p.m.	Session 4
4.45 – 5.00 p.m.	Question and Answer

REGISTRATION FORM

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Name(s)	IEM M/ship No. and Grade	H/P No. and Email	AMOUNT (RM)
TOTAL AMOUNT PAYABLE (RM) :			

(A) CONTACT DETAILS

Company : _____ Contact Person : _____

Address: _____ Postcode _____

Telephone No.: _____ (Off) _____ (Fax) _____ (HP) _____

Email: _____ Signature: _____

(B) PAYMENT DETAILS

By Cash / Cheque no. _____ dated _____ for the amount of RM _____ (non-refundable) and made payable to “THE INSTITUTION OF ENGINEERS, MALAYSIA (SOUTHERN BRANCH)” and crossed ‘A/C Payee Only’. Alternatively, you could bank-in the participant fees into the Institution’s Maybank Current Account (No. 5-013920-15708), and to facsimile both the Bank-in and Reply Slips to the Institution.

FOR FURTHER DETAILS, PLEASE CONTACT:

Hon. Secretary, IEM (Southern Branch) 24B Jalan Abiad, Taman Tebrau Jaya, 80400 Johor Bahru, Johor. (T) 07-3319705; (F) 07-3319710; Email: iemsouthern@gmail.com

IMPORTANT NOTES

FULL PAYMENT must be settled before commencement of the event, otherwise participants will not be allowed to enter the hall. If a place is reserved and the intended participant fails 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 L/O not in accordance with these instructions. Registration fee includes lecture notes, refreshment and lunch.

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.