

SYNOPSIS

Parts of Malaysia is known to experience seismic movement due earthquakes. Malaysia is bordered by Indonesia and the Philippines, which are two of the most seismically active countries with frequent intense earthquakes. Malaysia faces a certain degree of earthquake risk from these distant earthquakes. Major earthquakes, with long period surface waves originating from Sumatra have been felt in Peninsular Malaysia, particularly the west coast.

Civil and Structure Engineers are adopting the Eurocode for their building design. In that code there are elements for the 'design of structures for earthquake resistance'. It is high time that Mechanical Engineers incorporate such seismic preventive measures into the M&E services. Loss history in earthquake prone areas have shown that many building losses caused by fire following, equipment toppling and cracking or breaking of liquid and gas lines. These can be prevented when those M&E services incorporate the properly designed and installed shut-offs, flexibility, bracing and/or anchoring. This seminar will explore and present some of the M&E seismic components and equipment that are widely available in the industry.

8:30 - 9:00	Registration
9:00 - 9:30	Session 1 : Introduction, Understanding the Seismic Exposures and Available Design Standards Speaker: Ir Loo Chee Kin of FM Global
9:30 - 10:20	Session 2 : Seismic Restraint Guidelines for Mechanical HVAC Systems Speaker: Ir Soong P.S. of PureaireSdnBhd
10:20 - 10:45	Break
11:45 - 12:30	Session 3 : Seismic Bracing for Sprinkler Piping - Part 1 Speaker: Mr. David Jeltres of Erico
12:30 - 13:30	Lunch
13:30-14:20	Session 4 : Seismic Bracing for Sprinkler Piping – Part 2 Speaker: Mr. David Jeltres of Erico
14:20-15:15	Session 5 : Seismic Anchoring Speaker: Dipl.Ing. MuljadyWongsonegoro Of BBP International SdnBhd
15:15-15:30	Break
15:30 - 16:10	Session 6 : Seismic Flexibility for Sprinkler Piping Speaker: Mr. Louis Tan of Victaulic
16:10 - 17:00	Session 7 : Seismic Engineered Water Tanks Speaker: Mr PareshkumarRameshchandra Shah of CST Industries
17:00 - 17:30	Session 6 : Other M&E Considerations – Seismic Restrain of Building Features, Equipment Panel, Shut-Off System for Flammable Gas and Liquid Systems Closing Summary. Speaker: Ir Loo Chee Kin of FM Global

BIODATA OF SPEAKERS

Ir. Loo Chee Kin is a loss prevention consultant engineer with FM Global. He has more than 17 year engineering experience, from design to field work, since graduating from UIMST, Manchester, UK with a B.Eng in Electromechanical Systems Engineering. He is a P.Eng in Mechanical and Electrical Engineering and a Member of IEM. He is a Member of IMechE and IEE, and registered C.Eng. He is an active committee member in the IEM's Mechanical Engineering Technical Division as well as various Sub-Committees and Boards.

Ir. Soong Peng Soon graduated from University of Malaya in year 1984 and has more than 28 years in the design, manufacturing, construction and testing of general M&E system especially in HVAC system & components. He was once the Factory Manager of one of the largest ACMV equipment manufacturer & was once the General Manager of one of the largest ductwork & piping contractor in Malaysia and has vast experience in many of the mega-projects in Malaysia. His success in adhering to the stringent standard for the construction and testing of ACMV system in Petronas Twin Towers project marked the peak of his career in the industry. He has subsequently involved in the construction of several super high rise buildings in Middle East whereby seismic restraint requirement is more stringent than PTT. Presently he is an advisor for Malaysian and international contractors who involve in prestigious projects in Malaysia & overseas such as Middle East. Also, he is now one of the few best Commissioning Engineers for the technical intensive green building rating systems such as GBI or LEED. He will discuss the prevailing seismic restraint standard such as SMACNA guideline for the site requirement & quality assurance of mechanical system.

Mr. David Jeltres is Registered Professional Engineer (USA) with over 25 year experience. His background includes project development / design / construction, product applications, training, committee representation and product management. David has been with ERICO 2 1/2 years first as Worldwide Market Manager for Seismic and is current Product Manager for Seismic. Currently, David represents ERICO on two national seismic committees: (1) NFPA Technical Committee on Hanging and Bracing of Water-Based Fire Protection Systems, and (2) ASHRAE TC 2.7 "Seismic and Wind Restraint Design". While on ASHRAE TC 2.7, David was an integral part of the development of the rigid bracing section of the ANSI/ASHRAE Standard 171-2008 "Method of Testing Seismic Restraint Devices for HVAC&R Equipment. In addition, David also has experience in the development and approval of two (2) seismic bracing Pre-Approvals for California OSHPD (Office of State Wide Health Planning and Planning Development) – one for fire sprinkler bracing and the other for MEP systems using strut channel bracing.

Mr. Louise Tan graduated from University of Malaya in 2002, with a degree in Computer Science. He has been involved in the building and construction industry for the past 10 years. His previously worked as a project estimator and sales engineer in Johnson Controls, dealing with BMS, security and fire alarm systems. He then joined Victaulic in 2006, now working as a Fire Protection Specialist covering Malaysia and Singapore. The name a few, his successful involvement were in major projects such as Mid Valley the Gardens Mall, Putrajaya 4G8-11, Marina Bay Sands & KLCC Lot C.

Dipl.Ing. MuljadyWongsonegoro graduated from Institut of Technology Hamburg, Germany in 1995. He has work as Engineer & Product Manager with PT.Hiti Nusantara from 1996 to 1999. He is now the Technical Director & Managing Director of Mr.Safety Group and also BBP International Sdn. Bhd., Malaysia. The latter is the agent for the fischerwerke GmbH and Co KG fasteners and anchors.

Mr PareshkumarRameshchandra Shah is the Engineering Manager in CST Industries, UK. He obtained his BE Civil from M.S.University of Baroda, India in 1995 and Post Graduate Diploma in Structural Design (PGDSD) from Centre for Environmental Planning & Technology (CEPT), India in 2000. He is responsible for all the technical matters in this company in UK and internationally. His Key responsibilities include approval of design calculations and resolution of technical query, responsible for approval to various standards, implementation of Eurocode, design of tanks with Finite Element Analysis (FEA) and design of tanks in moderate to heavy seismic area to various standards. CST tanks are made from epoxy coated, galvanized and glass-fused to steel tanks. He is s CEng MStructE and MICE.

REGISTRATION FORM

Please register the following person(s) for the seminar

No.	Name	Grade & Membership No.	Fees
1			
2			
3			
TOTAL			

Company: _____

Address: _____

_____ Mobile: _____

Tel(O): _____ Fax: _____ E-Mail: _____

Please write clearly as the confirmation letter will be sent via email

Contact Person: _____ Signature: _____

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".

Registration Fees

<u>Normal</u>	<u>Online</u>
IEM Student Member	IEM Student Member
RM250.00	RM 200.00
IEM Member	IEM Member
RM450.00	RM 400.00
Non IEM Member	Non IEM Member
RM700.00	RM 600.00

Important Notes : For ONLINE REGISTRATIONS, payment MUST BE ONLINE .; 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 before the closing date at the latest. If payment is not received and verified within the stipulated time, the registration fee will be reverted to the normal registration fee. 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.



ONE DAY SEMINAR "EARTHQUAKE PROVISIONS & SAFEGUARDS FOR M&E SYSTEMS IN A BUILDING"

Organised by : Mechanical Engineering Technical Division, IEM
(BEM Approved CPD Hours :6hoursRef. No. : IEM12/HQ/137)

Closing date: 25 May 2012

by
Ir. Loo Chee Kin
Ir. Soong Peng Soon
Mr. David Jeltes
Mr. Louise Tan
Dipl.Ing. MuljadyWongsonegoro
Mr.PareshkumarRameshchandra Shah

28 May 2012

9.00 am – 5.30 pm

3rd Floor, Tan Sri Prof Chin Fung Kee Auditorium, Wisma IEM

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