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TERMS & CONDITIONS:

- For ONLINE REGISTRATIONS, only ONLINE PAYMENT is applicable [via RHB and Maybank2u –Personal Saving & Personal Current; Credit Card - Visa/Master].
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- 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.
- Fee paid is not refundable. Registration fee includes lecture notes, refreshment.
- 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.

Important Note:

- IEM members are required to produce their IEM membership cards for CPD scanning at the start and end of the course.
 - For all online payments above RM500, please notify the IEM Secretariat if you need a Tax Invoice to be issued.
- NOTE:** No tax invoice can be issued after 21 days from the event.

ONE-DAY SEMINAR ON EMBRACING AND OVERCOMING SAFETY AND HEALTH RISK

24 August 2016 (Wednesday)

9.00 am – 5.30 pm

Auditorium Tan Sri Prof. Chin Fung Kee, Third Floor, Wisma IEM,
Petaling Jaya

Speakers:

1.	Ir. Hussein bin Rahmat (IEM)
2.	Ir. Hj Saiful Azhar bin Mohd Said (DOSH)
3.	Puan Azreen Shazwani bt Omar (DOSH)
4.	Mr Ng Hon Seng (ERM)
5.	Mr Megat Ridzuan bin Megat Amat
6.	Ms Christie Leong (ERM)

Organised By:

Environmental Engineering Technical Division, IEM

BEM Approved CPD/PDP Hours: 5.5

REF: IEM16/HQ/286/S

Registration Fees		
Grade	Online Registration	Normal (Offline)
IEM Student Member	RM 50	RM 80
IEM Graduate Member	RM 300	RM 350
IEM Corporate Member	RM 500	RM 550
Non IEM Member	RM 650	RM 700

Closing Date: 20 August 2016

No Online Registration will be allowed after the Closing Date.

SYNOPSIS

Health Risk Assessment in developments & project and Chemical Health Risk Assessment Techniques in Compliance with Regulations

Health risk assessment (HRA) is a tool used to understand and assess the potential health effect resulting from the activities performed; or the workplace or environment the human receptors are exposed to. In Malaysia, DOSH enforced a mandatory HRA for all chemical exposure (CHRA) in the workplace. This paper will discuss on the differences of a HRA compared to a CHRA. In addition, the paper will also discuss the application of HRA in various stages of a project lifecycle and how it has been used to inform design decision during project planning and development.

Use of Nanomaterials in Malaysia - A Simple Guide on Control and Handling of Nanomaterials

Nanomaterials have very wide applications in a lot of fields such as the use of nanomaterials as fillers to produce lightweight and strong materials. Other than that, commercial uses of nanomaterials are blooming in cosmetics and medicinal product as the large surface area of nanomaterials used in the products can improve delivery and functionality of the product to the targeted areas. In Malaysia, R&Ds on nanomaterials are actively being done by the universities. Like all other developing countries, Malaysia is eager to take advantage of the potential of nanomaterials and venture into the world of commercialisation of the profitable novel materials that are made and produced locally. Other than the universities, there are some industries which have ventured commercially in this field. Putting the commercialisation effort aside, Malaysia has been widely using cosmetics, coating solutions and electronics embedded with nanomaterials imported from other countries.

HAZOP and SWIFT – Safety Tools for Process Design Manufacturing and Logistics

Before risk can be managed, organisations and projects must understand what could happen and what it could lead to in terms of their goals and objectives. It is essential that risk identification and analysis should always be carried out at the front end of process design in projects to discover and understand risks. This should involve the application of a suitable systematic risk assessment technique. There are many techniques to choose from which includes structured what-if technique (SWIFT), Hazard and operability study (HAZOP), Failure modes and effects analysis (FMEA) and many others. A SWIFT analysis is usually performed early in the design process when there is less detailed information. A HAZOP study is a detailed and systematic examination of a process or design, structured around a set of guidewords, to identify and assess the risks and operability problems and the existing controls. It systematically considers the potential deviations from the design intent. The speaker will explain these methods and their application.”

Reliability – Centered Maintenance – (RCM) – a tool in enhancing in safety performance.

RCM has been a tool generally utilised for focusing on condition-based maintenance versus preventive maintenance which is time-based. As such, it has been widely used in optimising operations and maintenance cost. However, the original intent of RCM is actually applying a technique that focuses on preventing failures whose consequences are most likely to be serious. The specific techniques on preventing failures whose consequences are most likely to be serious, mainly about the safety implication, will be discussed.

Implementing Risk-Based Thinking (RBT) – Requirement in the New Generation of Management Systems

The new generation of Management System standards published by International Organisation for Standardization (ISO) is a departure from the previous publications of management system standards beginning with its ISO 9001 Quality Assurance system it published way back in 1987. Not only are the new generation of management system standards more streamlined and easy to integrate between one system and another but has several concepts that is an attempt to modernize and bring into line the concepts of management excellence and sustainability in business management. The renewal in these new management systems incorporate among others the need for an outward looking organization where each organization has to consider the context of the business environment it is working in, the use of process approaches in managing its day to day operations and finally the use of risk-based thinking in planning and executing its operations. The risk-based thinking is applied at two levels; at the level of the organization and also at the operations level. Obviously if your organization is indulging in risky operations, such as affecting the environment and handling machinery and materials that are hazardous, this will involve a third level of risk management considerations. Ir Hussein will take this issue of risk-based thinking and explain how an organization should approach it and to what levels of detail it should take.

SPEAKERS

Mr Ng Hon Seng

Mr. Ng earned his Bachelor's degree in Environmental Science from Putra University of Malaysia in 1997. He earned his Master's Degree in Environmental Engineering specializing in Solid Waste Management from the same university in 1999. Currently he is a Managing Partner with ERM Malaysia and has over 16 years' experience in HSE consulting, specializing in chemical health risk assessment (CHRA) and contaminated land management. He is a registered Chemical health Risk Assessor (CHRA) with the Department of Occupational Safety and Health (DOSH) and he is currently the Vice President of the Malaysian Industrial Hygiene Association (MIHA).

Ir. Hj. Saiful Azhar bin Mohd Said

Ir. Hj. Saiful Azhar b. Mohd Said is an Engineer by profession and currently, he is the Director of Petroleum Safety Division, in Department of Occupational Safety and Health (DOSH) Malaysia. He earned his B.Sc Mechanical Engineering from California State University Chico, USA in 1987. Started his career as a Factory and Machinery Inspector in 1988 and had served DOSH as a director in Melaka and then Terengganu until 2004. He was the Director of Policy and Research Division until end of 2011 on which he was given an opportunity to develop an OSH Master Plan 2011-2015. OSH MP15 provides a strategic vision, direction, action framework to encourage organization to give higher priority to OSH and to boost national OSH performance.

Ms Christie Leong

Christie has over 16 years' experience in the risk and safety aspects of onshore/ offshore, petrochemical and other industries. She obtained her BEng Chemical Engineering Science in 1999 from University of Malaysia. Specifically, she has extensive experience in design/ engineering of onshore facilities, offshore platforms and FPSO in various life cycle ie. From conceptual to decommissioning including design, operations and SIMOPS.

Puan Azreen Shazwani bt Omar

Graduated with a degree in chemical engineering (Bachelor of Engineering (Hons) Chemical) from Monash University, Australia, she was offered the opportunity to contribute back to the community by practicing her knowledge in the Department Of Occupational Safety And Health as an Occupational Safety and Health Officer. Starting her career in June 2011, she was made part of a team in the Hazard Classification and Communication Unit under the Toxicology and Chemical Risk Assessment Section, Chemical Management Division. She is responsible for various activities and projects concerning the chemical management in Malaysia, particularly the implementation of GHS in Malaysia and the enforcement of the Occupational Safety and Health (Classification, Labelling and Safety Data Sheets of Hazardous Chemicals) Regulations 2013.

Ir Hussein bin Rahmat – Institution of Engineers Malaysia -

Ir. Hussein Rahmat is a mining engineer and a member of the Environmental Technical Division of the Institution of Engineers Malaysia. He has had an extensive working experience spanning more than 40 years including 20 years in PETRONAS. Ir. Hussein is currently on the panel of trainers and examiners at the National Institute Of occupational safety and Health (NIOSH) for Safety and Health Officer Certificate and Site Safety Supervisor Certificate examinations respectively. Ir. Hussein has been involved in standards making committees since the mid-1990s and on several occasions led the Malaysia delegation to international meetings. He is currently a member of the international committee that is drafting the ISO 45001 Occupational Health and Safety Management System standard.

Mr Megat Ridzuan bin Megat Amat

Megat Ridzuan Megat Amat is an ICT, Quality, Safety, and Health Environment Consultant and has eighteen years of working experience. He established a consulting firm Alfa Persada Sdn. Bhd. (APSB) in 2011 and became its managing director. His expertise include safety management, risk assessment management, industrial safety, industrial hygiene, accident investigation, and the environment and management systems. He graduated from Universiti Kebangsaan in Manufacturing Engineering 1998. Currently he is finishing his Master's degree in Risk Management.

TENTATIVE PROGRAMME

Time	Programme
8.30am – 9.00am	Registration of participants
9.00am – 9.15am	Opening speech by Session Chairman
9.15am - 10.00am	Health Risk Assessment in developments & project
10.00m -10.45am	Chemical Health Risk Assessment Techniques in Compliance with Regulations
10.45am - 11.15am	Tea Break
11.15am – 13.00pm	Use of Nanomaterials in Malaysia - A Simple Guide on Control and Handling of Nanomaterials
13.00pm – 14.00pm	Lunch
14.00pm – 14.45pm	HAZOP and SWIFT – Safety Tools for Process Design Manufacturing and Logistics
14.45pm – 15.30pm	Reliability – Centered Maintenance – (RCM) – a tool in enhancing in safety performance.
15.30pm – 16.15pm	Implementing Risk-Based Thinking (RBT) – Requirement in the New Generation of Management Systems
16.15pm - 17.00pm	Q&A