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- 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 THE NEW PARADIGM IN OCCUPATIONAL HEALTH & SAFETY (OHS) MANAGEMENT AND LEGISLATION

#### Speakers:

1. Ir. Hussein bin Rahmat (IEM)
2. Ir. Santha Kumaran Erusan (IEM)
3. Mr. Ghafar Kaprawi (DOSH)
4. Madam Nor'afiza bt Saim (SIRIM)
5. Mr. Ricky Yu (ERM Singapore)
6. Mr Najeeb Rosli (KPX Sdn Bhd)

29<sup>th</sup> July 2015 (Wednesday)

9.00 am – 5.00 pm

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

#### Organised By:

**Environmental Engineering Technical Division, IEM**

**BEM Approved CPD/PDP Hours: 6.5 Hours**

**REF: IEM15/HQ/252/S**

Registration Fees		
Grade	Online Registration	Normal (Offline)
IEM Student Member	RM 150	RM 180
IEM Graduate Member	RM 250	RM 300
IEM Corporate Member	RM 400	RM 450
Non IEM Member	RM 550	RM 600

**Closing Date: 22 July 2015**

*No Online Registration will be allowed after the Closing Date.*

## Synopsis

### The new paradigm in OSH management systems

The management system standard that you now know and love, such as ISO 9001, ISO14001 and OHSAS18001 will all be unrecognizable starting from this year. There will be drastic changes in their concepts and character. This is brought about by a new ISO/IEC Directive that requires all ISO management systems to be as common as possible for ease of implementation, integration with other systems in the organization and for consistency in auditing. The new management system will omit some of the requirements of the previous systems but introduce others that may look foreign to those initiated with the previous management systems. This paper will enumerate the changes in the management systems, the approaches and the new paradigm in management systems. The author will illustrate this by using management system standards that are already published based on the new paradigm as well as the proposed ISO 45001 occupational safety and health management system standard that is slated to be published in late 2016. The author is familiar with the latter standard as he sits on the international committee writing the standard.

### Integrating Health and Safety in Enterprise Risk Management

The current trend in management systems standards such as ISO 9001, ISO 14001 and the long awaited (still in the draft stage), ISO 45001 is leaning towards the framework of risk management. The principles, framework and process of risk management is explained at length in ISO 31000 Risk Management –Principles and Guidelines. As these developments are taking place, it is expected that compliance to the Malaysian Code of Corporate Governance will be much improved. The recommendation under Principle 6: Recognise and manage risks whereby a sound framework to manage risks need to be established to cover a wide spectrum of risk categories including health and safety.

### Recent and future developments in Occupational Safety and Health legislation in Malaysia

Malaysian safety legislation has a long history dating from the end of 1800s to the present. In its journey it has transformed from purely on the concerns of safety of machinery of yesteryears to concerns on health and welfare of workers in the midst-1900s. Some of these changes were because of the introduction of new machinery and chemicals in the workplace or new knowledge about old materials such as asbestos that were widely used in industry. The scope, philosophy and administration of the legislation has also changed over the years from the “Command and Control” regime of the Factories And Machinery Act 1967 to the current regime of “Self-regulation” of the Occupational and Safety Act 1994. As new materials such as Nano-materials and new radiation technologies are being introduced into the workplace, legislation as of necessity has also to change too.

### GHS what is it and what its implication in occupational safety and health

According to WHO, 70% of incidents affecting workers in the workplace involve chemicals. Extensive international trade in chemicals results in a wide variety of labels, safety data sheets and other forms of information. All sectors of industry need information regarding the chemicals they are exposed to, in a form appropriate for their needs. Thus the issue became a global concern and became the subject of international Conventions and programmes such as Strategic Approach to International Chemicals Management (SAICM), Rotterdam Convention/Prior Informed Consent (PIC), Stockholm Convention /Persistent Organic Pollutants (POPs), Basel Convention/Hazardous Waste and ILO Convention on Chemicals. A Globally Harmonized System (GHS) for Hazard Classification and Labelling became an international, standardized approach to hazard communication. GHS is the tool for supporting SAICM and other Conventions mentioned above. It is important that everyone understands what it is and support its use.

### Safety and Environmental Management at MRT

The Klang Valley Mass Rapid Transit Project involves the construction of a railway network which will form the backbone of the Klang Valley’s public transport system. The project is a crucial component of the Greater Klang Kuala Lumpur/Klang Valley National Key Economic Area (Greater KL/KV NKEA) and will be the largest infrastructure project in the country. However the constructions of the viaducts and stations have never been easy. Facing the live highways and limited work space has been a huge task. Despite the highest level of Safety, Health and Environmental (SHE) policy adoption, the occurrences of mishaps could not be eliminated. It would be a great opportunity for Engineers to gain more on the first-hand Health, Safety and Environmental management experiences through this paper. This paper presents the knowhow, the shortfalls and the insight of Safety issues as well as learning points in MRT constructions.

### A “Mature” Safety Culture: What exactly does this mean?

“Several incidents involving LOTO procedure deviations in a period of 3 months”, “we have conducted every training you can identify and yet they still don’t follow the safety requirements”, “if we report, supervisors will criticize us for not being careful” – these are the common symptoms of organizations sharing a common root cause called “safety culture”. In most cases, “work as planned” does not equal to “work as done”, resulting in a performance gap. Unfortunately, the actions proposed are to conduct more training, more inspection, more meetings, more audits, and more reports, etc. In this presentation, the author will discuss the common pitfalls of these approaches, including change management aspects which are critical to the sustainability of any safety initiatives. Many cultural models have emphasized on progress of system sophistication as a proxy for different maturity levels, without a corresponding step change in leadership thinking, skills development, and employee engagement. A proven safety culture maturity model, based on these important characteristics, will be presented as well as sensible ways of applying the model.

### Traffic Management and Logistics in an Oil and Gas Pipeline Project

This presentation is about the experience of planning to implementation, the challenge, the incidents and accidents involved and the success story behind the application of Traffic Management and Logistics concept in managing “work place transport” at the Sabah Sarawak Gas Pipeline Project (SSGP). SSGP is a project where 520 km of pipeline is id from Kimanis in Sabah to Bintulu in Sarawak, which involves the movement of various types of vehicle on

different types of roads, which include public, private, logging road, access road and on right of way (ROW). The roads are either paved, gravel surfaced and/or off road.

## Speakers

### Mr Ghafar Kaprawi - Director of International Policy Development and Research– DOSH

Mr Ghafar Kaprawi has obtained his degree in Mechanical Engineering from Universiti Teknologi Malaysia and he has more than 20 years’ experience in Occupational Safety and Health in Malaysia. He also once of the member in National Council for Occupational Safety and Health Malaysia. He is currently a Director of International Policy Development and Research, DOSH.

### 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.

Nor’afiza Saim – (SIRIM) - Norafiza Saim has a Masters and Bachelor degrees from Memphis State University, Tennessee and Kansas State University, Kansas, USA respectively. She was a founding member of the OHSAS 18001 Project which was led by British Standards Institute (BSI), United Kingdom. She has wide expertise in auditing practice and is registered with auditor institutes such as IEMA, United Kingdom and JACO, Japan. She is currently the GENERAL MANAGER, Group Business Assurance, SIRIM Berhad since October 2008 and before that she was *Senior Manager, Occupational Safety and Health System Certification, SIRIM QAS International Sdn. Bhd. and Senior Certification Executive Environmental System Certification.*

Ricky Yu – ERM Singapore - Mr. Ricky Yu is a Sustainable Safety practice partner of ERM in Singapore with over 25 years of EHS and operations management experience in the Asia Pacific region. Prior to joining ERM, Ricky was the Asia head of a safety consulting company that specializes in the areas of leadership, culture and behaviors. Mr Ricky Yu have Bachelor of Science, Biochemistry/Biology (Upper Second Honour) – The University of Hong Kong (1986 – 1989) and also Master, International and Public Affairs - The University of Hong Kong (2002 – 2003).

### Ir. Santha Kumaran - Institution of Engineers Malaysia

Ir. Santha kumaran Erusan has obtained his Master’s degree in Business administration as well as an honour degree in Mechanical Engineering from University Technology Malaysia. In his 20 years of working life he has designed, managed and lead the engineering team for the building and infrastructure services for various sectors such as Transportation namely MRT, LRT, Highways and Port works, Shopping Complexes, Hotels, Hospitals and Health Complexes in Malaysia as well as overseas such as Dubai, UAE and India.

### Mohd Najeeb Rosli (KPX Sdn Bhd)

Mohd Najeeb has 15 years of unparalleled and extensive road safety experience ranging from developing driver training curricula for Malaysia to designing novel and innovative fleet safety programmes for the dangerous and unpredictable off-road driving conditions in the jungles of Malaysia. He is a Chartered Member of the United Kingdom’s Chartered Institute of Transport and Logistics and a qualified Defensive and Advance Driving Trainer from the highly regarded Royal Society for the Prevention of Accidents, United Kingdom.

## TENTATIVE PROGRAMME

Time	Programme
8.30am – 9.00am	Registration of participants
9.00am – 9.15am	Opening speech by Session Chairman
9.15am - 10.00am	The new paradigm in OHS management systems – Ir Hussein
10.00m -10.45am	Integrating health and safety in enterprise risk management – Pn. Norafiza
10.45am - 11.30am	Tea Break
11.30am – 12.15pm	Recent and future developments in occupational safety and health legislation in Malaysia – Mr Ghafar
12-15.pm – 13.00pm	GHS what is it and what its implication in occupational safety and health - Mr Ghafar
13.00pm – 14.00pm	Lunch
14.00pm – 14.45pm	Safety and environmental management at MRT – Ir. Santha
14.45pm – 15.30pm	A “Mature” safety culture: what exactly does this mean? – Mr. Ricky Yu
15.30pm – 16.15pm	Traffic management and logistics in an oil and gas pipeline project – Mr. Najeeb rosli
16.15pm - 17.00pm	Q&A