

**Registration Form: ONE DAY WORKSHOP ON ROCK BLASTING AND EXPLOSIVE ENGINEERING****BEM Approved CPD/PDP: 6 hours  
Ref. No.: IEM15/HQ/211/W**

Name of Organisation: .....

Mailing Address: .....

Email : ..... Hand Phone : .....

Tel (Office) : ..... Fax : .....

Contact Person : ..... Designation : .....

I/We wish to enrol the following person(s) for the above-mentioned Course:

Name	M/ship No.	Reg. Fee (RM)
<b>SUB TOTAL</b>		
<b>ADD GST @ 6%</b>		
<b>TOTAL PAYABLE</b>		

Enclosed herewith a crossed 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 application is/are accepted by the Organizing Committee but substitution of participant will be allowed. If I/we fail to attend the workshop, I/we will still pay the registration fee in full.

Signature: ..... Date: .....

**Registration Fee (GST not included)**

GRADE	ONLINE	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 650

**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.

**Terms & Conditions:**

- For ONLINE REGISTRATIONS, only ONLINE PAYMENT is applicable [via RHB and Maybank2u –Personal Saving & Personal Current ; Credit Card - Visa/Master].
- 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.
- 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.

**Tentative Programme**

08:30 – 09:00	<b>Registration</b>	14:00 – 14:30	Initiation System (Plain detonator and Safety Fuse)
09:00 – 10:30	Introduction [Ir. Hj Look Keman Sahari]		[Ir. Hj Look Keman Sahari & Mr. Mohamad Razif Kemat]
10:30 - 10.45	<b>Tea Break</b>	14.30 – 15.00	Initiation System (Electric and Non-Electric)
10.45 – 11.30	Commercial Explosive [Mr.Yap Hong Hor]		[Ir. Hj Look Keman Sahari & Mr. Mohamad Razif Kemat]
11.30 – 12.30	ANFO and Emulsion [Mr.Yap Hong Hor]	15:00 – 15:30	Initiation System (Detonating Cord and Electronic)
12.30 – 1.00	Package Explosive and Booster [Mr.Yap]		[Ir. Hj Look Keman Sahari & Mr. Mohamad Razif Kemat]
13:00 – 14:00	<b>Lunch Break</b>	15:30 – 16:00	<b>Tea Break</b>
		16:00 – 17:00	Conclusion / Q&A

**Correspondence**

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**ONE-DAY WORKSHOP ON ROCK BLASTING AND EXPLOSIVE ENGINEERING**

**Date** : 15 OCTOBER 2015 (THURSDAY) –**RESCHEDULED FROM 11 AUGUST 2015**  
**Time** : 9:00 am – 5.00 pm  
**Venue** : Tan Sri Prof. Chin Fung Kee Auditorium, 3<sup>rd</sup> Floor, Wisma IEM, Petaling Jaya, Selangor  
**Speakers** : Ir. Hj Look Keman Sahari, Mr. Yap Hong Hor & Mr. Mohamad Razif Kemat

Organised and hosted by  
Oil, Gas and Mining Technical Division, IEM

**Synopsis**

Explosive contribution to the National development is immense. Without it, we would not be enjoying of what we have now. We have taken some many things for granted, like good roads and tunnels that we are using today in our daily life; and good houses, ports, airports and shops that we are having now. They are all made up of aggregates, and explosives are used to break the rocks to produce aggregates. Besides, explosive is also being used to remove rocks to empty the space for building construction developments. Furthermore, mining operation and oil exploration also require explosives as well. All these will be contributing to the daily used products, like the electronic gadgets which require plastics and electronic chips. As a result, explosive will be used somewhere along the production chain.

This Workshop will be a series of Courses on the Application of Explosives in mining, quarrying and Construction industries tailored to the engineers and other professionals such as Safety personnel who need to know how explosives are used safely and efficiently in rock blasting operation, mining, quarrying, and construction industries. The Workshop will introduce the various types of explosives used in the commercial application and suitability of particular explosives for a particular application. The right choice of an initiation system, for example, will determine the degree of disturbance to the public and the potential complaints from them which may cause delays in a blasting project. This may also help the project manager to understand the proposal made by the consulting engineer or blasting engineer for a particular blasting project instead of just depend on blasting contractor's proposal which purely focus on the cheapest costs.

The Workshop is also a good introduction to those who wish to learn about the productive use of explosives in our life. It includes lectures and demonstration of explosive products (dummy samples) used in our industries.

**Biodata of Speakers**

**Ir. Hj Look Keman Sahari** graduated in mining engineering in 1979 from Strathclyde University and M.Sc in Explosives Ordnance Engineering from Royal Military College of Science, Cranfield University in 1991. He worked for 17 years with the Mines Department (Now JMG) and retired in 1996. He now work as Consultant Engineer specializing in Explosives, mining and Construction. He is a committee member of Oil & Gas and Mining technical Division. He had given many lectures on application of explosives in quarrying construction and demolition at IEM. He also regularly gives lectures on the Shotfirer Courses conducted by Institute of Quarrying, Malaysia and supported by Jabatan Mineral and Geoscience.

**Mr. Yap Hong Hor** graduated with a B.Sc in Chemistry and further obtained a M.Sc from the University of Manchester Institute of Science and Technology in 1976. He held the title of a Chartered Chemist and also a Member of the British Royal Chemical Society. He initially joined Tenaga Kimia Sdn Bhd as a Chemist in the late 70's, with responsibilities in QC and R&D work for two-component explosive. In 1983, he was further trained in Nitro Nobel Sweden in the latest technology in 3<sup>rd</sup> generation Emulsion high explosive. He later assumed the position of Technical Manager and was responsible for all technical matters, techno-marketing as well as technical services to users in the whole of Malaysia. He also helped Tenaga Kimia pursued newer technologies such as Bulk Emulsion in late 1990's, as well as instrumental in the set up of a Non-electric detonator plant. As Tenaga Kimia expands vigorously regionally, Mr Yap was called upon to build and serve in a JV company in Thailand from 2006 to 2013. He travels widely to conduct training and holds talks on various subject concerning explosives and safety. He is also the previous trainer for Shotfirer courses conducted by the Police and Mine Dept.

**Mr. Mohamad Razif Kemat (Demonstrator)** graduated from University Sains Malaysia in Mineral Resources Engineering in 2006. He had 2 years working experience with Apex Granite Sdn Bhd Muar (Hap Seng Quarry) as quarry engineer and 7 years with Tenaga Kimia Sdn Bhd. Joined as Technical Engineer and was promoted as Technical Services Manager in 2013. Went to Cambodia, Brunei and Thailand for giving product knowledge and troubleshooting services in seismic explosive exploration with CGG companies as well as Nippon exploration Oil & Gas in Miri, Sarawak. More than a year working and involved with Phu Bia Copper Gold Mine and BHX Site Laos, Akara Mining Copper-Gold Mine Thailand and BUMA-Leighton Coal Mine Kalimantan Indonesia Project. Giving a training for some subsidiaries on product application at Philippines (tunnel and underground blasting), Singapore (underground electronic det), and Vietnam. He attended Electronic Det training at Kentucky, Atlanta and Texas US under DYNNO NOBEL US with expertise in signature whole analysis. Members of EFEE (European Federation Explosive Engineers) in 2010 and ISEE (International Society Explosive Engineers).