



## Talk On

### “Rock Blasting in Construction Projects”

*(Jointly Organized by Engineering Education Technical Division, Oil, Gas, & Mining Technical Division, IEM, Engineers Australia Malaysia Chapter & Institution of Mechanical Engineers (IMEchE) Malaysia Branch)*  
**BEM Approved CPD/PDP Hours: 2 Ref No: IEM/15/HQ/149/T**

Date: 19 May 2015  
 Time: **5.30pm – 7.30pm** (Refreshment will be served at 5.00pm)  
 Venue: **Tan Sri Prof Chin Fung Kee Auditorium, 3<sup>rd</sup> Floor, Wisma IEM.**  
 Speaker: **Dr. Karra Ram Chandar, Assistant Professor, NITK (India)**

#### **SYNOPSIS**

To develop infrastructure projects like tunnels, canals, open excavation for hydro power stations, underground metros, etc., a large quantity of soil and rock mass are to be removed. Rock fragmentation by blasting is the cheapest and easy methods of excavating the hard rock mass. Expertise is required in planning and execution of blasting in such projects as the locations may be very near to human habitats and other important structures, which needs to be protected from blasting. So, the blasting engineer needs to select suitable explosives, initiating devices, and carefully decide the blast geometry parameters keeping in view the rock properties. Blast analysis is required in critical cases where ground vibrations and air over pressure is to be monitored using sophisticated geophones and burden rock movement and fly rock ejection can be monitored using high speed video cameras. This talk highlights the details of few construction projects in India like a pipeline project, hydro power project and an underground metro where controlled blasting was carried out.

#### **BIODATA OF SPEAKER**

Dr. Karra Ram Chandar graduated with degree from Kakatiya University, Telangana State in India in 1999; graduated with his Masters from Indian Institute of Technology (IIT), Banaras Hindu University (BHU), India in the year 2001, and Ph.D in Mining Engineering with specialization on Rock Blasting from National Institute of Technology Karnataka, Surathkal, India, in 2011. He has 14 years of teaching and research experience. He has worked on 6 R&D projects, 42 consultancy projects and published around 50 research papers in reputed journals and conferences. His services not limited to Mining sector were also utilized in Construction sector like safe excavation of hard rock for hydro-electric power installation at dams, petroleum products pipelines, underwater blasting in ports, underground metro in urban areas etc. He has received the “SRG-IT Award-2008’ from Mining Engineers Association of India for his significant contribution in using Information Technology in Mining Engineering field, ‘ISTE-SGITS National Award-2011’ from Indian Society for Technical Education – India for the best research work done by young (below 35years age) teachers among engineering colleges in India, and also Institution of Engineers India (IEI), Young Engineer Award-2012” from IEI in recognition to his contribution to the field of Mining Engineering. He is also on the editorial board of three international journals.

**Ir. Prof. Dr. Vinesh Thiruchelvam**  
**Chairman**  
**Engineering Education Technical Division**

#### **ANNOUNCEMENTS TO NOTE:**

- **Preferential admission to talk shall be accorded to IEM members (pre-registration and online registration are NOT required). (telephone and/or fax reservation will NOT be entertained)**
- Non members may also attend the talk but will be charged a registration fee of **RM50** and an administrative fee of **RM15**.
- For affiliate members, there will be no registration fee. However, they are requested to produce their membership card as proof of membership. For the list of affiliates, please refer [www.myiem.org.my/content/memorandum\\_of\\_understanding-469.aspx](http://www.myiem.org.my/content/memorandum_of_understanding-469.aspx).
- Limited seats are available on a "first come first served" basis (maximum 110 participants).
- IEM members are required to produce your membership cards for confirmation of attendance (CPD purpose).
- Latecomers will not be allowed to enter if the lecture hall is full nor be entitled to CPD. **IEM members who fail to produce their membership cards will be charged a fee of RM25.00.**

#### **FUNDS FOR IEM BUILDING FUND (WISMA IEM)**

- Kindly be informed that IEM will be charging participants **RM15** as administrative fee for talks organized by IEM.
- The fee would be used to cover overhead costs, building maintenance expenses as well as to support the purchase of the new building.
- All contributions will be deeply appreciated by IEM
- Students are however exempted. Your understanding is greatly appreciated.

#### **CPD HOURS CONFIRMATION**

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Membership No: .....

Signature: .....