



# THE INSTITUTION OF ENGINEERS, MALAYSIA

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## Talk On

### “Planning & Design of Underground Stations in High Density Urban Environment”

(Organised by the Tunnelling and Underground Space Technical Division)

Date : 25 May 2013 (Saturday)  
Time : 9.00 am – 10.30 am (Refreshment will be served at 8.00 am)  
Venue : C&S/TUS Lecture Room, 2<sup>nd</sup> Floor, Wisma IEM, Petaling Jaya  
Speakers : Mr. Satpal Sati Bhogal (BSc. (Hons), CEng, FStructE, FICE)

**BEM Approved**  
**CPD Hours: 2**  
**IEM13/HQ/107/T**

#### SYNOPSIS

This talk sets out the key issues facing promoters and designers of mass rapid transit systems (rail based) in highly populated urban environments with case histories from the various cities.

It reviews the planning and design parameters required to make these systems efficient to operate and maintain and how these demands are met by designers and builders in constructing such complex underground structures.

- It also examines how the requirements of safety of passengers are met and what affect this has on the station layouts.

#### BIODATA OF SPEAKER

Mr. Sati has over 40 years' experience in the field of transportation, with his formative years spent on bridge engineering, including the design and construction of long span steel and concrete bridges. Between 1980 and 2013, he has spent over 27 years in Asia Pacific on design, construction supervision and management of major transportation projects.

In 1980-87, he was involved in the design, and construction supervision of phase 1 of the Singapore MRT project.

#### **Ir. Dr. Mohd Farid b. Hj. Ahmad**

Chairman

Tunnelling and Underground Space Technical Division, IEM

#### **Announcement to note:**

1. Limited seats available on a "first come first served" basis.
2. No telephone and/or fax reservation will be entertained.
3. Latecomers will not be allowed entrance, if the lecture hall is full.
4. Please bring along this flyer and membership card for confirmation of attendance (CPD purpose).

**or IEM members, membership cards MUST be presented for identification purpose. Members who fail to show their membership card will be charged a fee of RM20.00.**

#### FUNDS FOR IEM NEW BUILDING

**Kindly be informed that IEM will be charging participants RM10.00 administrative fee to talks organized by IEM. The fee would be used for overhead costs, building maintenance expenses as well as to support the purchase of the new building.**

**Students are however exempted. Your understanding is greatly appreciated.**

#### **CPD HOURS CONFIRMATION**

Name of Member: .....

Membership No: .....

Signature: .....

Date : .....