

IEM (Southern Branch)  
 24B Jalan Abiad, Taman Tebrau Jaya  
 80400 Johor Bahru  
 Tel: 07-3319705 Fax: 07-3363406

Email: [iemsouthern@gmail.com](mailto:iemsouthern@gmail.com)



## 1-Day Seminar on “Structural Investigations for Repair & Rehabilitation of Concrete Structures”

### REGISTRATION FORM

| Name(s)      | M/ship No | Fees |
|--------------|-----------|------|
|              |           |      |
|              |           |      |
|              |           |      |
| <b>TOTAL</b> |           |      |

Enclosed herewith a Cheque No. : \_\_\_\_\_ for the sum of RM \_\_\_\_\_ issued in favour of “*The Institution of Engineers, Malaysia (Southern Branch)*” and crossed ‘*A/C Payee only*’. If I/we fail to attend the course, the fee paid will not be refunded.

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

Name of Organisation: .....

Address : .....

Tel (O) : ..... Fax : .....

Mobile : ..... E-mail: .....

.....  
 Signature Date

#### IMPORTANT NOTES

- **CLOSING DATE : 24 February 2023 (Friday)**
- For **ONLINE REGISTRATION**, payment **MUST BE MADE VIA ONLINE PAYMENT** (bank-in the participant fees into the Institution’s **Maybank Current Account (No. 5-013920-15708)** before the **closing date**.
- **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 seminar, the fees is to be settled in full. If the participant made payment and failed to attend the seminar, the fees paid is non-refundable.
- The Organizing Committee reserves the right to alter or change the program due to unforeseen circumstances.

## 1-Day Seminar on “Structural Investigations for Repair & Rehabilitation of Concrete Structures”

**BEM APPROVED CPD HOURS: 7.0**  
**IEM23/SB/005/S**

Date:

**4 March 2023 (Saturday)**

Venue: IEM (SB) Training Centre, Johor Bahru

**EARLY BIRD FOR IEM MEMBERS**  
**BEFORE 15<sup>TH</sup> FEBRUARY 2023**  
**RM 120.00 NETT**

| Grade                                     | On-line   |
|-------------------------------------------|-----------|
| IEM Student Members (Free limit to 5 pax) | RM 25.00  |
| Non-IEM Student Members (Limited seats)   | RM 35.00  |
| IEM Members                               | RM 160.00 |
| Non-IEM Members                           | RM 220.00 |

**Closing Date: 24 February 2023 (Friday)**

## SYNOPSIS

Defects or faults in concrete structures occur due to a number of reasons. Structural Investigations are often the starting point in determining the root cause of the deterioration. Therefore, adopting a systematic approach to deal with structures suffering from distress is key in any Structural Investigation. This Seminar attempts to showcase a step-by-step approach to designing investigation plans using the 5-Step Guide for appraising structures which are in need of repair or rehabilitation. The Seminar concludes with real life case studies featuring investigation and rehabilitation of concrete structures using the 5 Step-Guide.

## SPEAKER BIODATA



**Ir. PARNAM SINGH** *B. E (Hons), MSc Civil (U. K), MIEMP. Eng* graduated from the Queen's University of Belfast, U.K. in 1989. He is a registered Professional Civil Engineer with the Board of Engineers Malaysia and a Corporate Member of the Institution of Engineers, Malaysia.

He has more than 32 years of experience in structural assessment and repair of concrete structures. He served L&M Structures Sdn. Bhd. as Technical Manager from 1990 to 2000. From 2000 onwards he served RNC Repair Technology (M) Sdn. Bhd. as Manager (200-2010), General Manager (2010-2018) and was later promoted to the post of Senior General Manager at RNC Repair Specialist Sdn. Bhd. from 2018 to March 2020. During his career at RNC, he led a team of managers and engineers specializing in structural assessment and rehabilitation technology.

He has spent a life-long career exploring and investigating faults and failures in concrete structures since 1990 and has spent several years majoring in forensic engineering. He has published more than 40 technical papers which were presented at national and international seminars and conferences.

Ir. Parnam Singh is the Past President of the American Concrete Institute, KL Chapter (2010-2012) and past member of the Concrete Society of Malaysia (MCSM) and Asian Concrete Federation (ACF).

He is a registered Specialist Trainer with National Ready Mixed Concrete Association of Malaysia (NRMCA). Ir Parnam Singh has been engaged by the National Defence University (UPNM) as Adjunct Lecturer and is a member of their Industry Advisory Panel (IAP) and Panel of Project Examiners since 2014.

He is also a Final Year Project External Examiner at Universiti Teknologi PETRONAS (UTP) and Universiti Pertahanan Nasional Malaysia (UPNM). He is a Universiti Malaya (UM) Certified Business Coach and has successfully applied his skills in coaching and mentoring his subordinates, entrepreneurs and individuals from different sectors of the construction industry.

Ir. Parnam Singh is currently the Principal of SHR Associates. He is very passionate about investigating faults and failures in concrete structures and truly believes that their causes are often related to our poor understanding of concrete as a building material.

## PROGRAMME

|                         |                                                                                |
|-------------------------|--------------------------------------------------------------------------------|
| 8.30 a.m. – 9.00 a.m.   | Registration                                                                   |
| 9.00 a.m. – 9.10 a.m.   | Welcome Speech by IEM (SB)                                                     |
| 9.10 a.m. – 10.45 a.m.  | <b>Defects, Faults, and Failures in Concrete Structures</b>                    |
| 10.45 a.m. – 11.00 a.m. | Morning Coffee Break                                                           |
| 11.00 a.m. – 1.00 p.m.  | <b>Introducing the Five Step Guide to Structural Appraisal</b>                 |
| 1.00 p.m. – 2.00 p.m.   | Lunch Break                                                                    |
| 2.00 p.m. – 4.00 p.m.   | <b>Case Studies on Structural Investigations for Repair and Rehabilitation</b> |
| 4.00 p.m. – 4.30 p.m.   | Question and Answer                                                            |
| 4.30 p.m.               | End of Seminar                                                                 |