

SPEAKER

MR. PARNAM SINGH

B.E (Hons) (Civil), MSc. (Civil),
MCSM, MACF, MACI (KL Chapter)

Mr. Parnam Singh graduated from Birla Institute of Technology and Science Pilani in 1984 and the Queen's University of Belfast, U.K. in 1989. He is a registered Civil Engineer with the Board of Engineers Malaysia and The Institution of Engineers Malaysia. He has more than 27 years of experience in the assessment and repair of concrete structures. He served L&M Structures Sdn Bhd as Technical Manager from 1990 to 2000. He is currently the General Manager of RNC Technology (M) Sdn Bhd, leading a team of managers and engineers specialising in concrete assessment and repair technology.

He has spent a life-long career exploring and investigating faults and failures in concrete and has spent several years majoring in forensic engineering. He has published more than 36 technical papers which were presented at national and international seminars and conferences.

Mr. Parnam is the Past President of the American Concrete Institute, KL Chapter, and 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, Malaysia (NRMCA). He has also served SIRIM as a committee member of the Working Group for Reinforced Concrete and with JKR Malaysia on Carbon Fibre Reinforced Polymer (CFRP). He was appointed as Adjunct Lecturer at Universiti Teknologi Petronas (UTP) in 2005 to share his experience in the field of civil engineering with undergraduate students. He is also serving as a member of the Panel of Project Examiners at UTP. He was responsible for establishing the University Industry Linkage Programme or Uni-Link which is a joint collaborative effort between Universiti Malaysia Pahang, Universiti Sains Malaysia and RNC Technology (M) Sdn Bhd, promoting best practice in concrete assessment and repair technology.

Mr. Parnam has also been engaged by the National Defence University as Adjunct Lecturer and member of their Industry Advisory Panel and Panel of Project Examiners since 2014. He is a Universiti Malaya Certified Business Coach and has successfully applied his skills in coaching subordinates, entrepreneurs and individuals from different sectors of the construction industry.

REGISTRATION FEE *(inclusive of 6% GST)*

ACEM member firms	RM 636.00 per person
Others	RM 742.00 per person

The registration fee shall be made payable to '**The Association of Consulting Engineers Malaysia**' by crossed cheque and to be submitted with the completed registration form by 4 April 2017 to:

The Association of Consulting Engineers Malaysia
No. 63-2 & 65-2, Medan Setia 1
Damansara Heights
50490 Kuala Lumpur

Fee will not be refunded for any cancellation. However, substitution of participants can be arranged by informing the organiser one week before the seminar commences.

ENQUIRIES

For further enquiries, please contact the ACEM secretariat at:

Tel. no.: 03-20950031;

Fax no.: 03-20953499; or

E-mail: sec@acem.com.my

Seminar on Structural Defects, Faults and Failures in RC Structures

*(Diagnosis and Remedies using New
Generation Materials and Techniques)*

Tuesday, 11 April 2017

MATRADE Exhibition and Convention Centre
Menara MATRADE
Jalan Sultan Haji Ahmad Shah
50480 Kuala Lumpur

Organised by



The Association of Consulting Engineers Malaysia

SYNOPSIS

Structures suffering from distress are akin to patients requiring medical attention. Many engineers whose training did not emphasise on the basic understanding of concrete as a structural material often find themselves faced with challenges related to analysing symptoms and diagnosing causes of defects related to faults and failures in RC structures. The challenges faced by practicing engineers today are linked to the lack of understanding of the root cause of the various deterioration mechanisms. Basic knowledge of the specific causes of these problems is vital. Furthermore, in the field of forensic engineering, the skills and technology related to the appraisal of structures are very different from those acquired from the construction of new structures.

It is the aim of this technical seminar to provide an overview of the common types of deterioration mechanisms prevalent in our built environment. In this seminar, different mechanisms responsible for the deterioration of concrete in RC structures shall be illustrated to highlight the importance of identifying and diagnosing causes of defects, faults and failures in existing structures.

This seminar further highlights a pathological approach in determining the root cause of defects associated with concrete deterioration before undertaking repairs. State-of-the-art testing techniques commonly employed in the testing and appraisal of concrete shall be highlighted in this presentation. Selection of both materials and techniques is equally important in ensuring that remediation works are successfully carried out during the rehabilitation stage. Today, with the advent of technology, new generation remedial systems are available to complement traditional repair materials and techniques, thus allowing the engineer to optimise and value-add innovative repair propositions during the design stage.

PROGRAMME

- 8.30 a.m. Registration
- 9.00 a.m. Structural Defects, Faults and Failures in RC Structures: An Engineer's Dilemma
- 9.45 a.m. Assessment of Concrete Structures
- 10.15 a.m. Tea Break
- 10.30 a.m. Corrosion Protection using Cathodic Protection
- 11.30 a.m. Remediation Waterproofing of RC Structures using New Generation Materials and Techniques
- 12.30 p.m. Q & A
- 12.45 p.m. Lunch
- 2.00 p.m. New Generation Repair Systems for Concrete Remediation
- 3.00 p.m. Self-Consolidating and Guniting for Concrete Remediation
- 3.30 p.m. Tea Break
- 3.45 p.m. Case Studies on Structural Diagnostics and Concrete Remediation
- 4.30 p.m. Q & A
- End of Seminar

CONTINUING PROFESSIONAL DEVELOPMENT

The seminar is eligible for 7 CPD hours for Professional Engineers registered with the Board of Engineers Malaysia, and a Certificate of Attendance will be issued subject to full attendance.

REGISTRATION FORM

(to be returned by 4 April 2017)

Seminar on Structural Defects, Faults and Failures in RC Structures (*Diagnosis and Remedies using New Generation Materials and Techniques*)
Tuesday, 11 April 2017
MATRADE Exhibition & Convention Centre, KL

Name: _____

Designation: _____ BEM PE No.: _____
(if applicable)

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(confirmation of registration will be sent via e-mail)

Contact person: _____

ACEM member firm RM 636.00 per person

Others RM 742.00 per person

Enclosed is cheque no. _____ for RM _____ being registration fee for the seminar.

Signature & Company Stamp

Date