

**TECHNICAL TALK ON**  
**“BS EN 1504 PRODUCTS AND SYSTEMS FOR THE PROTECTION AND REPAIR OF CONCRETE STRUCTURES. DEFINITIONS, REQUIREMENTS, QUALITY CONTROL AND EVALUATION OF CONFORMITY”**

Organised by the Civil and Structural Engineering Technical Division (CSETD)  
**BEM Approved CPD/PDP: 2 Hours**      **Ref : IEM19/HQ/420/T**

**Date** : 25<sup>TH</sup> NOVEMBER 2019 (MONDAY)  
**Time** : 5.30 p.m. – 7.30 p.m.  
**Malakoff Auditorium**  
**Venue** : Ground Floor, Wisma IEM,  
Petaling Jaya, Selangor  
**Speaker** : *Dr. PAYAM SHAFIGH & Mr KUAN YOU WAI*

## SYNOPSIS

BS EN 1504 is the national standard for Britain and European Nations in concrete diagnosis, maintenance and repair. It was developed as a result of chaos in such practices and subdue repair quality previously. The objective of such standard is to define appropriate procedures and characteristics for systematic repair in view of optimum costs and durability.

There are 10 parts in the standards. The key parts of the standard are outlined hereunder:

- ✚ BS EN 1504-9 sets out assessment of defects and specification guidelines for choosing the right products and systems for task in hand.
- ✚ BS EN 1504-10 sets out material application guidelines for contractors.
- ✚ BS EN 1504, 2-7 classifies the products and systems which can be used
- ✚ BS EN 1504-8 specifies procedures for quality control and evaluation of conformity and compliance of the products for manufacturers

The holistic approach of concrete repair includes addressing the restoration of structural strength of concrete matrix. Additionally, it also includes tackling the corrosion of reinforcement steel bars and the passivity protection thereof. Nevertheless, we must address the differences in local climate, availability of products and construction practices during the selection of repair products and procedures in order to realise the principles in and objectives of such practices.

## ANNOUNCEMENT TO NOTE FEES

(Effective 1<sup>st</sup> October 2017)

### Members

Registration Fee :	No Charge
Administrative Fee :	
<u>Online</u>	RM15
<u>Walk In</u>	RM20

### Non-Members

Registration Fee :	RM50
Administrative Fee :	RM20

- Limited seats are available on a "first come first served" basis (maximum 100 participants).
- **To secure your seat, kindly register online at [www.myiem.org.my](http://www.myiem.org.my)**

## PERSONAL DATA PROTECTION ACT

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### CPD Hours Validation:

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**“IEM reserves the right to alter or cancel the programme due to unforeseen circumstances at its discretion”.  
For intending participants who choose to ‘walk in without prior registration’, IEM SHALL NOT be responsible for any direct or consequential losses”.**

## **SPEAKER BIODATA**



**Dr. PAYAM SHAFIGH** has received his doctoral degree (with distinction) in Structural Engineering & Materials from the University of Malaya, Malaysia in 2013. He obtained his MSc. in Civil Engineering-Structure (2003) and BSc. in Civil Engineering (2000) from the University of Mazandaran, Iran. After his doctoral degree, he was appointed as Research Fellow in the Department of Civil Engineering, University of Malaya for two years and currently he is the Senior Lecturer in the Department of Building Surveying, Faculty of Built Environment, University of Malaya.

He received a number of national and international awards such as 2nd place award the American Concrete Institute (ACI) in concrete cube strength competition in 2000; ACI-Iran chapter award for the best MSc. thesis in civil engineering in 2003; 1st place award the Faculty of Engineering, University of Malaya for the highest number of ISI indexed publications in 2012.

He has more than 50 journal publications in which 46 are ISI indexed. He is reviewer for more than 60 international journals and he was recognized as the Outstanding Reviewer for several journals such as journal of Construction and Building Materials (2014, 2016 & 2017), Journal of Cleaner Production (2016 & 2017), journal of Engineering Structures (2017) and Journal of Building Engineering (2017).

He has supervised 10 MSc. and 4 PhD students and currently, he has 4 MSc. and 10 PhD students under his supervision. He has taught courses of Concrete Technology, Construction Materials, Theory of Structure, Structural Design and Strength of Materials. His research interests include Lightweight Concrete structures, Concrete Composites, Concrete Thermal Properties, Concrete Repair and Strengthening of Concrete Structures. To date, he has the highest research records in "Lightweight Aggregate Concrete" based on the Scopus database.



**Mr KUAN YOU WAI** has nineteen (19) years of experiences in contracting repair work in concrete repair, waterproofing, cracking, leaking, plumbing and mould remediation. Ten (10) years of experiences in Non-Destructive Testing and Inspection in Dampness and Concrete. An advisory committee in the authorities ; {a}. Focus Group in Construction Permit, Ministry of Urban Wellbeing, Housing and Local Government (KPKT) and {b.} CIS 7 Quality Assessment Systems for Building Work, Construction Industry Development Board (CIDB)

Also a speaker as an Industrial Expert in "Inter Floor Leakage", "Dampness, Mould, Moisture Control and Water Damage Restoration", Building Pathology and Building Performance in

- ✦ Tribunal of Home Buyers Claim, KPKT, b. Tribunal of Strata Management, KPKT
- ✦ SP Setia Berhad
- ✦ Malaysia Institute of Property and Facility Managers
- ✦ Royal Institute of Surveyors Malaysia
- ✦ Building Surveying Department, Faculty of Built Environment, University of Malaya
- ✦ Building Defects & Safety Conference 2019, Comfori Malaysia
- ✦ Strata Management Conference 2018, Roaz Venture Malaysia

A certified person in

- ❖ Professional Mould Remediator based on ANSI: IICRC S520 Professional Guides in Mould Remediation, USA
- ❖ Infrared Thermography Level 1, Infrared Training Centre, Sweden
- ❖ BS EN 1504: Products and systems for the protection and repair of concrete structures. Definitions, requirements, quality control and evaluation of conformity
- ❖ Concrete Repair and Rehabilitation, America Concrete Institute, USA
- ❖ Professional Roofing, National Roofing Contractors Association, USA
- ❖ The Deterioration of Concrete and Its Repairs & Protection according to EN1504, Institute of Engineers Malaysia
- ❖ Building Sector Energy Efficiency Program, UNPD and JKR Malaysia
- ❖ Primelog + Data Logger Analyst, Primayer UK
- ❖ Professional applicator in Waterproofing and Concrete Repair Products, Mapei Malaysia, Green Seal, Dongji Malaysia and Elmich Singapore
- ❖ Working At Height on Rope, Industrial Rope Access Technologies (M) Sdn Bhd

A member of

- International Institute of Building Enclosure Consultants, USA
- International Concrete Repair Institute, USA
- National Roof Contractors Association, USA
- National House Buyers Association, Malaysia

## **Ir. CHONG CHEE MENG**

**Chairman**

**Civil and Structural Engineering Technical Division**