



HALF-DAY SEMINAR ON “STRENGTHENING OF STRUCTURES WITH COMPOSITE MATERIALS AND HPC TECHNOLOGY”

SPEAKERS:

MR. GIULIO MORANDINI

Date : 8th NOVEMBER 2019 (Friday)
Venue : Ballroom A, HOLIDAY INN KUALA LUMPUR GLENMARIE
Time : 9.00 a.m. – 13.15 p.m.

**BEM Approved CPD/PDP Hours: 3.5
(IEM19/HQ/541S)**

LIMITED TO 80 SEATS ONLY

‘FIRST-COME-FIRST-REGISTRATION BASIS’

CLOSING DATE: 5TH NOVEMBER 2019

*OR if the Seminar Reach its
Target Registered Participants
NO ONLINE/OFFLINE Registration
will be allowed after the Closing Date*

Organised and Hosted by
Civil and Structural Engineering Technical Division,
The Institution of Engineers, Malaysia

In Collaboration with
Mapei Malaysia Sdn Bhd

Cancellation Policy

No cancellation will be accepted prior to the date of the event. However, replacement or substitute may be made at any time with 7 days prior notification and substitute will be charged according to membership status.

Personal Data Protection Act

I have read and understood the IEM's Personal Data Protection Notice published on IEM's website at <http://www.myiem.org.my> and I agree to IEM's use and processing of my personal data as set out in the said notice.

**“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”.**

SYNOPSIS

Externally-applied FRP reinforcement for concrete structures is widely used to upgrade structures for change of use, or to allow structural modifications, or to remedy errors in design or construction, etc. Retrofitting has also proven to be an excellent option for making existing structures safe against seismic shocks, severe weather, and other environmental attacks, and to satisfy the requirements of revised design codes. The use of composites technology is now commonplace.

The speaker will present various types of FRP systems for structural strengthening work e.g. FRP fabrics, pultruded FRP plates and rods which are available in various materials (carbon, glass & basalt) with different weights, sizes and elastic moduli to suit different applications. He will also discuss the relevant codes and industry standards for the use of composites.

Besides composites, the use of high-performance concrete technology for strengthening will also be reviewed by looking at the testing and application of fibre-reinforced, high-ductility mortars with free-flowing workability for enlarging structural members without the need to add steel reinforcement.

SPEAKER



Mr Giulio Morandini graduated with a degree in Civil Engineering from the Polytechnic of Milan and specialized in the strengthening and reinforcement of existing buildings. He has been with Mapei for 16 years and has been the Corporate Product Manager of the company's Structural Strengthening Line since 2006.

He has collaborated in the writing of the Italian Guidelines for Structural Reinforcement of the CNR (Italian National Research Council) with composite materials (FRP) on masonry and concrete buildings (CNR DT 200/2004), steel buildings (CNR DT 201/2005) and wooden buildings (CNR DT 202/2005).

He also recently contributed to the writing of the new Italian guidelines for Structural Reinforcement of the CNR (Italian National Research Council) with fibre-reinforced cementitious matrix composite materials (FRCM) on masonry and concrete buildings (CNR DT 215/2018). Since 2008 he has been a member of the Steering Committee of Assocompositi (the Italian Industry Association for Composite Materials) which represents the Italian Division of EUCIA (European Composites Industry Association).

He is co-author of more than 15 essays and dissertations concerning the strengthening of existing masonry and concrete buildings with FRP and FRG composite materials. He has actively taken part in the study and implementation of more than 200 projects for the strengthening with composite materials of buildings damaged after earthquakes in Italy (Umbria-Marche in 2002, Salò in 2004, L'Aquila in 2009, Emilia in 2012, Marche in 2016) and abroad (New Zealand in 2011, Lorca – Spain in 2011).

Since 2018 he has been also a member of the board of American Concrete Institute – Italy Chapter.

PROGRAMME

TIME	PROGRAMME	Presented By
<i>0830 – 0900</i>	Registration of Participants <i>Welcome Refreshment</i>	
<i>0900 – 0915</i>	Welcoming Remarks by Chairman, Civil and Structural Engineering Technical Division (CSETD), Ir. Chong Chee Meng	
<i>0915 – 1015</i>	Session 1: <ul style="list-style-type: none"> ❖ FRP systems for structural strengthening works ❖ Definition of FRP Systems ❖ Relevant codes and industry standards for the use of composites. ❖ Applications of FRP systems – Case studies 	Mr. Giulio Morandini
<i>1015 – 1030</i>	Q&A Session 1	
<i>1030 – 1100</i>	<i>Morning Tea Break</i>	
<i>1100 – 1200</i>	Session 2: <ul style="list-style-type: none"> ❖ High Performance Fiber Reinforced Cementitious Concrete ❖ Applications of high performance fiber reinforced cementitious concrete ❖ Case studies 	Mr. Giulio Morandini
<i>1200 – 1215</i>	Q&A Session 2	
<i>1215 – 1315</i>	<i>Break for Lunch</i>	
1315	End of Seminar	

*** IEM reserves the right to postpone, reschedule, allocate or cancel the course.**

REGISTRATION FORMS

HALF DAY SEMINAR ON
"STRENGTHENING OF STRUCTURE WITH COMPOSITE MATERIALS AND HPC TECHNOLOGY"
ORGANISED BY CIVIL AND STRUCTURAL ENGINEERING TECHNICAL DIVISION (CSETD)
08TH NOVEMBER 2019
Fax: 03-7957 7678 Email: shahrul@iem.org.my

REGISTRATION FEE (Subject to 6% SST – Effective 1st March 2019)

	ONLINE / NORMAL FEE (RM)
IEM Members	50.00
Non Members	70.00

No	Name(s)	Membership No.	Grade	Fee (RM)*
				SUB TOTAL
				ADD 6% SST
				Total Payable

PAYMENT DETAILS :

Cash RM _____

Cheque no. _____ for the amount of RM _____ (non refundable) and made payable to
"THE INSTITUTION OF ENGINEERS, MALAYSIA" and crossed 'A/C Payee Only'. Bank Account No. : 640320010020215,
Bank Name: Alliance Bank Malaysia Berhad. (SHOULD PAYMENT IS MADE, KINDLY EMAIL THE 'BANK-IN-SLIP' TO IEM FOR VERIFICATION BEFORE THE EVENT FOR EASY REGISTRATION)

FULL PAYMENT must be settled before commencement of the seminar, otherwise participants will not be allowed to enter the hall. If a place is reserved and the intended participant fails to attend the course, the fee is to be settled in full. If the participant failed to attend the course, the fee paid is non refundable. The Registration Fee includes lecture notes, refreshment and lunch.

For **ONLINE REGISTRATIONS**, please note that payment **MUST** be made **BEFORE** the closing date. If payment is not received within the stipulated time, the registration fee will be reverted to the normal registration fee.

Contact Person : _____ Designation : _____

Name of Organization : _____

Address : _____

Telephone No. : _____ (O) Fax No : _____ (O)

Handphone : _____ (HP) Email: _____

Signature & Stamp _____

Date _____

TERMS & CONDITIONS:

- For ONLINE REGISTRATIONS, only ONLINE PAYMENT is applicable [via RHB and Maybank2u – Personal Saving & Personal Current ; Credit Card - Visa/Master.
- Payment via CASH / CHEQUE / BANK-IN TRANSMISSION / BANK DRAFT / MONEY ORDER / POSTAL ORDER / LO / WALK -IN will be considered as NORMAL REGISTRATION
- The Organising Committee reserves the right to cancel, alter, or change the program due to unforeseen circumstances. Every effort will be made to inform the registered participants of any changes. In view of the limited places available, intending participants are advised to send their registrations as early as possible so as to avoid disappointment.

For further details, kindly contact:

The Institution of Engineers, Malaysia
Bangunan Ingenieur, Lots 60/62, Jalan 52/4, P.O. Box 223 (Jalan Sultan), 46720 Petaling Jaya, Selangor
Tel : 603-7968 4001/2 Fax : 603-7957 7678 Email : shahrul@iem.org.my