

A TWO - DAY COURSE AND DESIGN WORKSHOP ON DESIGN AND CONSTRUCTION OF PRECAST CONCRETE STRUCTURE

REGISTER NOW!!!

WORKSHOP FEE

CPD Hours
by **BEM**

CCD Points
by **CIDB**

Will Be
AWARDED

~~RM 1,300.00~~

RM 1,000.00 / per pax

Workshop Details

Date: 13 - 14th October 2020

Time: 8.30am to 5.30pm

Venue: Kuala Lumpur

SCAN FOR
REGISTER ONLINE



☎ 03-4040 0040 ✉ event@cream.my

PRECAST CONCRETE STRUCTURE

Precast concrete is one of the elements being associated with IBS construction. The use of precast concrete framed buildings is now widely regarded as an economic, structurally sound, and architecturally versatile form of construction. It combines the benefits of VERY rapid construction and high-quality materials with the advantages of production line economy and quality assurance. Design is carried out to the highest standards surpassed in the concrete industry - and yet the knowledge remains essentially within the precast concrete industry itself.

This workshop is intended for practicing engineers, architects and contractors engaged in the design and construction of commercial, private and industrial buildings. It is also suitable for graduate civil engineering, building technology and architecture. It aims to provide the widest possible appreciation of the use of precast concrete for innovative and modern buildings. Aspects of design creativity at the conceptual stage will be followed by detailed examination of the structural mechanics of multi-storey frames, enabling the delegates to engaged in a real design problem of a 10-storey precast frame during the second day.

SPEAKER'S PROFILE



Dr. Izni Syahrizal Ibrahim has a Bachelor Degree (Hons.) in Civil Engineering from UTM in 1998. He then join UTM as a tutor in 1999 and completed his Master in Structural Engineering also from UTM in 2000. He obtained his PhD from the University of Nottingham, United Kingdom in 2008 and a former student of Dr. Kim S. Elliott who has broad experience in precast concrete structures. Dr. Izni, currently a Senior Lecturer at the Faculty of Civil Engineering, Universiti Teknologi Malaysia.

Since 2015, he is attached and a Research Fellow at the Forensic Engineering Centre (FEC), Institute for Smart Infrastructure and Innovative Construction (ISIIC), Universiti Teknologi Malaysia. He is also the Technical Manager (Structures & Materials) for the Civil Engineering Testing Unit (CETU). His major research interests have focuses on the precast concrete construction, composite action behaviour in precast structure, steel fibre reinforced concrete and application of waste materials in Civil Engineering. He has published widely on these issues more than 50 technical papers in international journals and conference proceedings mainly in Structures and Materials.



Dr. Roslli Noor Mohamed has a Bachelor Degree (Hons.) in Civil Engineering from UTM in 1998 and completed his Master in Structural Engineering also from UTM in 2002. He obtained his PhD from the University of Nottingham, United Kingdom in 2008 and also a former student of Dr. Kim S. Elliott. Dr. Roslli, currently a Senior Lecturer at the Faculty of Civil Engineering, Universiti Teknologi Malaysia.

Dr. Roslli is actively involved in Faculty of Engineering Program as a committee member. He also is a committee member in lab accreditation program for the Faculty of Engineering. He has also actively participated in various international and national conferences, seminar and training courses. He has been responsible for a wide range of studies on precast concrete structure, self-compacting concrete, finite element analysis in precast joints in Civil Engineering. He has published more than 20 papers in international and national journals and conference papers mainly in Structures and Materials.

TENTATIVE PROGRAM

DAY 1 – Wednesday, 13th October 2020

08.30am	REGISTRATION
09.00am	Precast frame concepts, economics, and architectural requirements. Design concepts, visual & structural concrete elements, framing plans, costs and comparisons, construction programmes and methods
10.30am	Refreshment
11.00am	Mixed Precast Concrete Construction Precast with structural steel, insitu concrete, timber, masonry and glass.
11.30am	Precast flooring and composite design. Types of flooring, cost and depth comparisons, manufacture, materials, hollow cores slabs, double tee slab, beam and plank floors, lateral load distribution, composite design.
12.45pm	Networking Lunch
02.15pm	Frame and component design Frame analysis methods, materials, pre-stressed and reinforced beam design in flexure and shear, beam end shear design, truss analogy, column analysis, design and details.
03.15pm	Refreshment
03.45pm	Frame stability and floor diaphragm action. Horizontal loads, braced, un-braced, partially braced frames, shear wall or core positions, horizontal diaphragm floors, shear mechanisms, wind walls, hollow cored walls, concrete and masonry infill walls.
04.45pm	Discussion
05.00pm	End of Day-1

DAY 2 – Thursday, 14th October 2020

08.30am	REGISTRATION
09.00am	Design of beam to column connections. Bearing pressures, compression and tension joints, types of connectors (billet, welded plate, cleat), column insert design, confinement links, corbel and nib design, failure modes, experimental test results.
10.30am	Refreshment
11.00am	Column to foundation connections. Grouted sleeve, prefabricated shoe, base plate and pocket foundations, load capacity and failure modes
11.30am	Frame robustness and stability ties. Background to the problem, progressive collapse, recent amendment rules, protected members, structural catenary ties in the floor, beams, columns and in toppings.
12.00pm	Discussion
12.30pm	Networking Lunch
02.30pm	Design Exercise Groups of 4 – 5 delegates perform a feasibility study and carryout some detailed design of a 10-storey multi-storey precast concrete frame. The design involves structural stability, shear wall design, plus floor slabs, beam and column design, and beam-column connections. The session is 2 ½ hours duration with up to 30 minutes for delegates to reveal their solutions.
04.30pm	Solution presentation
05.30pm	Refreshment / End of Program

REGISTRATION FORM

NO.	NAME OF PARTICIPANT	POSITION	EMAIL

Nature of Business:	<input type="checkbox"/> Government	<input type="checkbox"/> Consultant, Engineering, Architect or QS	<input type="checkbox"/> Academic	<input type="checkbox"/> Developer
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<input type="checkbox"/> Contractor, Gred G _____	<input type="checkbox"/> Manufacturer/ Supplier. Please specify product: _____
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Food Preference:	<input type="checkbox"/> Vegetarian	<input type="checkbox"/> Non-Vegetarian
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Payment can be made through Cash Deposit / Cheque Deposit / Online Transfer to our bank account as follow:	Registration and Payment Deadline: 08th October 2020 (Thursday) Fee RM1,000.00 per participant
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Name Account : CONSTRUCTION RESEARCH INSTITUTE OF MALAYSIA	Please complete the form and fax to +603 4050 2649 or email to event@cream.my (Mr. Mohammad Khairul Annam Roslan / Mr. Sulfitri Suwandi)
Account Number : 80-0064066-5	
Bank Name : CIMB Bank Berhad	
Bank Branch : Jalan Tuanku Abdul Rahman, Kuala Lumpur	

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Kindly attach/send the payment proof to the Secretariat after payment has been made

Contact Person (Administration)	Tel
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Organisation & Address	Mobile
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- Booking Conditions:
1. Registration will only be confirmed upon receipt of full payment, receipt for payment made is to be attached with the registration form.
 2. Full payment must be made before the date of the conference.
 3. NO REFUND will be made for any cancellation but replacement of participant is allowed