



CPD Hours (BEM) & CCD Points (CIDB)

PENDING

Approval

2ND JCI-USM International Joint Seminar on Practical Approaches Towards Assessment, Repair and Strengthening of Crack Damaged Concrete Structures

18th - 19th July 2016

**Promenade Hotel
Kota Kinabalu, SABAH**

3RD JCI-USM International Joint Seminar on Practical Approaches Towards Assessment, Repair and Strengthening of Crack Damaged Concrete Structures

**Pullman Hotel
Kuching, SARAWAK**

22nd - 23rd August 2016

In most cases, cracking in concrete is always associated with one or a combination of factors such as drying shrinkage, thermal contraction, restraint to movement (expansion or shortening), subgrade settlement, and applied loads. In addition, cracks in concrete structures often occur due corrosion of steel reinforcement which may take place after several year in service. Further deterioration due to cracking could be evaded through proper planning for the assessment, repair and strengthening of the crack damaged concrete structures. Thus, a comprehensive procedures and guidelines for assessing, repair and strengthening of cracks in concrete structures are necessary and highly demanded. The revised version of the "Practical Guideline for Investigation, Repair and Strengthening of Cracked Concrete Structures - 2009" has been recently published by the Japan Concrete Institute (JCI). The guideline has been drafted based on the compilation of research data and hands-on experience of engineers from case studies in Japan. It contains useful technical knowledge and information on crack assessment, rehabilitation and maintenance. Hence, this joint seminar aims at sharing the knowledge and experience on assessment, repair and strengthening of crack damaged concrete structures with overseas counterparts who are dealing with concrete structures.

Who Should Attend

Civil & Structural Engineers; Consulting Engineers; Contractors; Maintenance Personnel & Engineers; Project Engineers; Project Managers; Project Supervisors; Quantity Surveyors; Technicians; Assistant Engineers & Academicians.

HRDF CLAIMABLE*

* Subject to HRDF Approval



(wholly-owned by Universiti Sains Malaysia)
(Co. No. 473883-H)
HRDF : 0159

Participant

SEMINAR
FEE

LOCAL	INTERNATIONAL	STUDENT
RM 1200.00	USD 300.00	RM 850.00



Dr. Toshiro Kamada, Professor
Osaka University, Japan

Area of Specialization:

- Maintenance of Civil Structures
- Non-Destructive Testing of Concrete



Dr. Nobuaki Otsuki, Professor Emeritus
Tokyo Institute of Technology, Japan

Area of Specialization:

- Durability and rehabilitation of concrete structures
- Corrosion of steel in marine environments
- Use of industrial by-products in concrete
- Ion migration mechanism in concrete



Dr Badorul Hisham Abu Bakar, Professor
School of Civil Engineering, Universiti Sains Malaysia

Area of Specialization:

- Structural Engineering
- Masonry Structures
- Timber Structures
- UHPFRC for Repair Material



Dr. Takahiro Nishida, Associate Professor
Laboratory on Innovative Techniques for Infrastructures (ITIL)
Kyoto University, Japan

Area of specialization:

- Maintenance of Concrete Structures
- Corrosion of Steel
- Use of Industrial by-Products in Concrete



Dr. Kei-ichi Imamoto, Professor
Tokyo Institute of Technology, Japan

Area of Specialization:

- Conservation of RC buildings
- Non-destructive evaluation of carbonation progress of concrete structure
- Creep and shrinkage of concrete
- Recycling of building materials



Dr. Megat Azmi Megat Johari, Associate Professor
School of Civil Engineering, Universiti Sains Malaysia

Area of Specialization:

- Supplementary Cementitious Materials
- High strength and High Performance Concrete
- Alkaline Activated Binders & Geopolymers
- Concrete Evaluation and Retrofitting



Dr. Tadatsugu Kage
Research Managing Coordinator for Advanced Building Technology
National Institute for Land and Infrastructure Management (NILIM),
Ministry of Land, Infrastructure and Transport, Japan

Area of specialization

- Design for durability and rehabilitation of concrete structures
- Crack and corrosion off RC structures
- Use of recycled materials and industrial waste as concrete materials
- Use of fiber reinforced composites in strengthening RC structures

Dr. Koji Osada
Director, Engineering Standards Team, P.E.
Central Nippon Expressway Company Limited, Japan

Area of Specialization:

- Maintenance management of RC and PC structures
- Durability and rehabilitation of concrete structures
- Seismic strengthening of concrete structures



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Dr. Norazura Muhammad Bunnori, Associate Professor,
School of Civil Engineering, Universiti Sains Malaysia

Area of Specialization:

- Structural Engineering
- Structural Health Monitoring
- Non Destructive Testing and Evaluation
- Acoustic Emission (AE) Technique in Damage Assessment Evaluation

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Seminar Programme

Time	Presentation	Speakers	DAY 1
8:30 - 9:00	Registration		
9:00 - 9:15	Opening remarks		
9:15 - 10:30	Introduction of JCI Guideline Cracks Investigation Method	T. Kamada	
10:30 - 11:00	Tea Break		
11:00 - 12:00	Type of Cracks and Cause Estimation	T. Kamada	
12:00 - 12:30	Q & A		
12:30 - 14:00	Lunch		
14:00 - 15:30	Crack Detection using Non-destructive Evaluations	T. Nishida	
15:30 - 16:30	Application of AE in Cracks Monitoring	Norazura Muhammad Bunnori	
16:30 - 17:00	Q & A and Afternoon Refreshment		
Time	Presentation	Speakers	DAY 2
9:00 - 10:15	Evaluation of Cracks and Judgment for Repair and Strengthening	T. Nishida	
10:15 - 10:45	Tea Break		
10:45 - 12:45	Repair and Strengthening (Part 1 & 2)	T. Kage	
12:45 - 13:00	Q & A		
13:00 - 14:15	Lunch		
14:15 - 15:15	Self-healing Concrete : A Solution for Cracks	Badorul Hisham Abu Bakar	
15:15 - 16:15	Improving the Fluid Transport Properties and Corrosion Resistance of Concrete Utilizing Palm Oil Fuel Ash	Megat Azmi Megat Johari	
16:15 - 16:45	Q & A		
16:45 - 17:00	Closing Ceremony & Presentation of Certificate		
17:00	Afternoon Refreshment		

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Time	Presentation	Speakers	DAY 1
8.30 - 9.00	Registration		
9.00 - 9.15	Opening remarks		
9.15 - 10.30	Introduction of JCI Guideline Cracks Investigation Method	N. Otsuki	
10.30 - 11.00	Tea Break		
11.00 - 12.00	Type of Cracks and Cause Estimation	N. Otsuki	
12.00 - 12.30	Q & A		
12.30 - 14.00	Lunch		
14.00 - 15.30	Crack Detection using Non-destructive Evaluations	K. Imamoto	
15.30 - 16.30	Application of AE in Cracks Monitoring	Norazura Muhammad Bunnori	
16.30 - 17.00	Q & A and Afternoon Refreshment		
Time	Presentation	Speakers	DAY 2
9.00 - 10.15	Evaluation of Cracks and Judgment for Repair and Strengthening	K. Imamoto	
10.15 - 10.45	Tea Break		
10.45 - 12.45	Repair and Strengthening (Part 1 & 2)	K. Osada	
12.45 - 13.00	Q & A		
13.00 - 14.15	Lunch		
14.15 - 15.15	Self-healing Concrete : A Solution for Cracks	Badorul Hisham Abu Bakar	
15.15 - 16.15	Improving the Fluid Transport Properties and Corrosion Resistance of Concrete Utilizing Palm Oil Fuel Ash	Megat Azmi Megat Johari	
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17.00	Afternoon Refreshment		

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Certificate of Attendance

Upon the completion of the two-day seminar, participants will receive a seminar certificate from the University.

Online Registration

For registration, please visit: <http://bit.ly/238u7Dc>

Please make your payment to "USAINS HOLDING SDN BHD (Account No : 8003817364, CIMB Bank Berhad, USM Branch)" and email your proof of payment to the secretariat on or before 7th July 2016 (Seminar JCI-USM @ Sabah) and 11th August 2016 (Seminar JCI-USM @ Sarawak) . [Swift Code : CIBBMYKL]
Bank Transfer (CIMBClick, Maybank2u etc. Money Order, LO/PO, Cheque, Bank Draft)

Cancellation / Substitution

A full refund less administration cost of 15% from the paid fee will be given for cancellation received not later than 10 working days before the event. No refund will be made after this period. However, substitute participants are welcomed at no extra charge provided written notice of at least 5 working days before the event is given to the Organizer.

Any inquiry can be sent via fax / mail / email to:

The Secretariat

JCI-USM International Joint Seminar on Practical Approaches Towards Assessment, Repair and Strengthening of Crack Damaged Concrete Structures

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