

1st Announcement



1-Day Course on

CONSERVATION OF HISTORIC REINFORCED CONCRETE STRUCTURES

Organised by

EPC Engineering Consultant Ltd.

Supported by

Hong Kong Institute of Architectural Conservationists (HKICON)

Date: 27 November 2019 (Wednesday)

Time: 9:00 a.m. for registration to 5:45 p.m.

Venue: Conference Room AC2, Administration Building (Level 4) - Hong Kong Cultural Centre, Tsim Sha Tsui, Kowloon



Introduction:

Although reinforced concrete (RC) structures have been extensively used for the past 100 years and are not proven to outlast timber and masonry construction, they are the modern building materials offering unique design freedom in the creative building form which form an important part in the construction history deserving conservation.

This 1-Day Course outlines the history of the materials, properties, strengths and weaknesses of the materials in the building structures. Survey techniques, repair methods to rectify defects and their suitability, testing and strengthening options will be presented. Corrosion protection techniques will also be presented together with methodology for the conservation of the RC structures.

The course is technical yet only very basic structural principles will be presented and is very practical to suit practicing professionals. This is the rare opportunity for experience sharing with numerous examples based on the speaker's experience in the building conservation practice.

WHO SHOULD ATTEND: This course has been specifically developed to serve Building professionals including Structural Engineers, Architects, Building Surveyors, Conservationists, Fire Safety Engineers, Property Managers, Regulators, Contractors and Builders working on heritage conservation projects involving historic buildings who need a working knowledge of the RC structures. The course is also suitable for clerk of works, site inspectors, students and graduates who need to acquire the specialist skill of conservation of RC buildings.

Speaker's Profile: Ir Eric P.W. CHAN BSc, MSc, DIC, RPE, CEng, MStructE, MHKIE, MICE



Eric has over 40 years of experience in building structures in the United Kingdom and Hong Kong and has more than 10 years' experience working with historic buildings. Eric served as an in-house structural consultant to the Antiquities and Monuments Office for seven years (2010-2017). Prior to his retirement, Eric was a senior structural engineer of the Heritage Unit in Architectural Services Department (ArchSD). His work in ArchSD included the Yuen Long Theatre, Tsing Yi Complex, Hong Kong Wetland Park and Visitor Centre and many other conservation projects such as Dr Sun Yat-sen Museum and Yau Ma Tei Theatre. He also worked on the Revitalization Scheme,

Financial Assistant Scheme and other conservation of buildings in Private Partnership participation initiated by the Government of HKSAR.

Eric holds a Masters in Concrete Structures from Imperial College in the UK and a Bachelor of Science in Civil Engineering from the City University of London.

Continuing Professional Development Credits:

The course is considered suitable for 1 CPD-day (6-hour) credits.

* A 'Certificate of Attendance' will be issued to those who attend all sessions.

Course Fee: HK\$1,250 for HKICON Members, HK\$1,300 for members of HKIA, HKIE, HKIS, government officials and HK\$1,500 to others with a special discount for graduates members of the above Institutions and students (including course notes, a 1 CPD-day 'Certificate of Attendance'* and tea/coffee during morning and afternoon breaks; Lunch is not provided) (Non-refundable)

Enquiries: All enquiries about this course should be made to Ir Eric PW Chan, EPC Engineering Consultant Ltd. Tel/WhatsApp 6176 3658 (Email: epcericchan@gmail.com).

Note: Limited seating is provided at the venue and early registration is highly recommended. EPC reserves the right to return the cheques to Applicants should the number of Applicants exceeds the seating capacity.

Official Language: Cantonese will be used in the presentation and supplement with English technical terms. Course notes will be printed in English.

One-day course
**CONSERVATION OF HISTORIC REINFORCED CONCRETE
STRUCTURES**

Registration Form

(Applications to be received by post on or before 11th Nov 2019)

Please follow the 2-step registration procedure:

1. Email the completed registration form to Ir Eric PW CHAN (Email: epcericchan@gmail.com) for reservation.
2. Post the completed registration form to EPC Engineering Consultant Ltd., P.O. Box 84193, Hunghom Bay Post Office, Kowloon (to be received on or before 11th Nov 2019)

Personal Details:

	Surname	Given Name	Name of Company	Member	Phone No.	Email Address
1						
2						
3						
4						
5						

Item	Registration Fee	Total no. of registration	Sub-total
1. Members of HKICON	\$1,250	_____person(s)	= HK\$ _____
2. Members of HKIA, HKIE, HKIS and government officials	\$1,300	_____person(s)	= HK\$ _____
2. Non-members of the above Institutions	\$1,500	_____person(s)	= HK\$ _____
3. Graduate Members & Students**	\$750	_____person(s)	= HK\$ _____
Total amount:			HK\$

**Note: Limited seats at special fees on first-come-first-served basis.

I enclose a crossed cheque (no. _____) with a sum of HK\$_____ payable to EPC Engineering Consultant Ltd. for the registration fee of the captioned course.

Signature: _____ Date: _____

CPD Certificate of Attendance: Please tick the appropriate box to indicate your choice:

- Yes, I/ we would like to have CPD certificate(s).
- CPD certificate(s) not required.

One-Day Course Programme

CONSERVATION OF HISTORIC REINFORCED CONCRETE STRUCTURES

Venue: Conference Room AC2, Hong Kong Cultural Centre Level 4 of the Administration Building, Tsim Sha Tsui, Kowloon

尖沙咀梳士巴利道香港文化中心行政大樓四樓會議室 AC2

Time	27 November 2019 (Wednesday)
9:00am-9:15am	Registration
9:15am-10:45am	History of concrete and steel reinforcement, concrete constituent materials, characteristics and properties
10:45am-11:10am	Tea break
11:10am-12:30pm	Concrete construction, finishes & casting techniques, weathering & decaying process, advancement of design codes and fire performance
12:30pm-2:00pm	Lunch break
2:00pm-3:25pm	Concrete defects, reinforcement corrosion process, corrosion protection methods, inspection & condition assessment and diagnosis & testing methods
3:25pm-3:50pm	Tea break
3:50pm-5:20pm	Concrete repair methods & suitability, strengthening options, life expectancy, methodology of conservation of concrete structures and conclusions
5:20pm-5:35pm	Q & A
5:35pm-5:45pm	Collection of CPD certificates