

TALK ON

“NON-STRUCTURAL CRACKING IN CONCRETE. WHAT CODES OF PRACTICE DON'T (CANNOT) TELL YOU?”

Organised by the Civil and Structural Engineering Technical Division (CSETD)

BEM Approved CPD/PDP: 2 Hours

Ref No: IEM18/HQ/335/T

Date : **07 AUGUST 2018 (TUESDAY)**
Time : **5.30 p.m. – 7.30 p.m.**
Venue : **Malakoff Auditorium, Ground Floor, Wisma IEM, Petaling Jaya, Selangor**
Speaker : **PROFFESOR STEVE GARRITY**

SYNOPSIS

In practice, concrete structures can exhibit many forms of non-structural cracking. Such cracks can be the principal cause of major defects – defects that can often lead to costly and disruptive repair or strengthening work or, in the most extreme situations, collapse and loss of life! Unfortunately, although most engineers are very aware of cracking caused by applied load (structural cracking), many do not have sufficient awareness of the many common forms of non-structural cracking. To make matters worse, although the Eurocode mentions non-structural cracking of concrete and acknowledges that such cracks can be unacceptably large, it provides only very limited guidance on how such cracks can be avoided or controlled in practice.

The main aims of the presentation are therefore to:

- Raise awareness of the common forms and causes of non-structural cracking;
- Explain how the chances of non-structural cracking occurring can be reduced through action taken during the design process;
- Explain how some types of non-structural cracking can be controlled (or largely avoided) during construction;
- Explain what to do if such cracking is found in hardened concrete.

It is likely that the presentation will be of interest to those engaged in the design, specification, construction and management of any form of concrete structure.

SPEAKER BIODATA



Professor Steve Garrity,
BSc(Hons), MSc, PhD, CEng,
MICE, FStructE, FCIHT, FIMS
University of Leeds, Leeds, UK

Professor Steve Garrity is a chartered engineer with 40 years' experience in the planning, design, supervision of construction and repair or strengthening of a variety of civil and structural engineering works. He gained much of this experience with consulting engineers and the bridge engineering department of a major UK public highway authority. Steve has also spent part of his career as an academic. He was the Head of the Department of Civil and Environmental Engineering at the University of Bradford, UK (1997 - 2002) where he later served as a Civil Engineering Consultant and Visiting Professor in Civil Engineering Design.

He is currently the Hoffman Wood Professor of Architectural Engineering at the University of Leeds, UK. His current academic work includes teaching at undergraduate and postgraduate levels and research into the performance of concrete and masonry structures. Since 2002 he has also been the principal of Garrity Associates, an independent firm of consulting civil and structural engineers and educational consultants. He has provided training and CPD courses for a wide range of construction professionals and has designed various new structures and repair or strengthening works for a variety of clients including government departments, local authorities, consulting engineers and design and build contractors. Most of his recent work has been associated with the repair or strengthening of concrete and masonry structures.

Steve is the recipient of the Chartered Institution of Highways and Transportation Babbie Premium Award (1992) and the Institution of Structural Engineers Cass Hayward Prize (1993), Sir Arnold Waters Medal (1995) and the Lewis Kent Award (2004). He was the co-recipient of the Institution of Civil Engineers Historic Bridge and Infrastructure Awards in 2004 (winner) and 2009 (commendation). He continues to serve on various learned society and professional body committees for the ICE, IStructE, CIHT and HKIE and has served as the external examiner for BEng, MEng, MSc and PhD programmes and students at a variety of UK universities.

Ir. CHONG CHEE MENG

Chairman

Civil and Structural Engineering Technical Division (CSETD)

ANNOUNCEMENT TO NOTE

FEES

(Effective 1st October 2017)

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Registration Fee : FOC

Administrative Fee:

Online RM15

Walk In RM20

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Administrative Fee : RM20

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