



Indian Concrete Institute
Mumbai Center

India Chapter of ACI, in association with Indian Concrete Institute, Cordially invites you to attend an Evening Technical Lecture

Topic: Structural Health Monitoring for Predicting the In-Service Performance of Concrete Structures A Case Study on Concrete Repair of a Bridge in Northern Ireland

Day & Date: Thursday, 16th July 2026

Time: 6.30 PM IST

Venue: Kohinoor Park, Opp. Siddhivinayak Mandir, Prabhadevi, Mumbai: 400025.



SPEAKER

**Prof. P.A. Muhammed
Basheer, CBE**

ABOUT THE SPEAKER:

Prof. P.A. Muhammed Basheer, CBE, is Professor of Structural Engineering, Honorary Visiting Professor at City St George's, University of London, Technical Advisor at Amphora Consulting, Northern Ireland, and Distinguished Professor at Xi'an University of Architecture and Technology, China. He is an internationally renowned expert in concrete technology and structural engineering.

An alumnus of NIT Calicut, Prof. Basheer has over 40 years of distinguished academic and research experience in concrete durability, non-destructive testing, structural health monitoring, and sustainable construction materials.

He has supervised 35 Ph.D. scholars and 15 post-doctoral researchers, published more than 400 papers in international journals and conferences, and successfully led numerous major research projects. In recognition of his outstanding contributions to civil engineering, he was awarded the prestigious Commander of the Order of the British Empire (CBE). He also served as the first Indian President of the Institute of Concrete Technology (UK) and is a Fellow and member of several leading international engineering academies and professional organizations.

ABOUT THE LECTURE:

Concrete structures such as bridges, buildings, and other infrastructure assets are expected to perform safely and efficiently throughout their service life. However, environmental exposure, material degradation, and increasing service demands can adversely affect their long-term performance and durability.

Structural Health Monitoring (SHM) has emerged as a powerful tool for assessing the condition of structures, predicting future performance, and supporting informed maintenance and repair decisions. By integrating advanced sensing technologies, data analytics, and performance modeling, SHM enables engineers to move from reactive maintenance to proactive asset management.

This lecture will present the principles and applications of Structural Health Monitoring and demonstrate its practical implementation through a detailed case study involving the repair and long-term monitoring of a concrete bridge in Northern Ireland.

This lecture is free but registration is necessary: **Registration link: <https://forms.gle/otdQLYZEXwgCaW996>**



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