

Neville Centre of Excellence

in Cement and Concrete Engineering

Multi-Scale Cracking of Concrete Materials

Online CPD Short Course

Delivered over three days:

11th October 2021 - 2:00pm to 4:30pm (GMT)

12th October 2021 - 10:00am to 12:30pm (GMT)

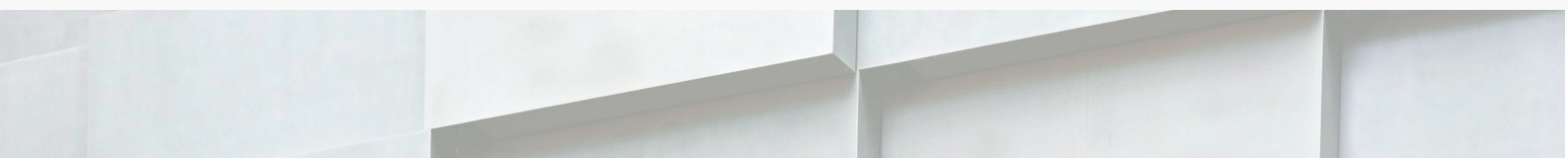
13th October 2021 - 2:00pm to 4:30pm (GMT)

Delegate fee: **£95** - limited bursaries available for PhD students

Topics covered

Designed to improve your understanding of cracking in concrete, this jointly-delivered online course will cover key topics including:

- The **origin and analysis of the crack shape**, profile and width at different ages; this is related to the RILEM technical committee TC 287 - CCS - Early age and long-term crack width analysis in RC Structures and it is fundamental to understanding the link between cracking, durability and structural performance
- How we can **control cracks** at nano, micro and macro-scale
- **Prevention and repair** of cracks
- The concept of **self-healing cracks** and an update of the current state of this technology



Who should attend?

This course is suitable for you if you are:

- A **civil, structural or materials engineer** involved in design, construction and management concrete infrastructure
- An **academic or researcher** interested in the latest challenges on durability and structural performance of concrete assets
- A **service engineer or scientist** who would value a deeper understanding of cracking in concretes and how the theory can be applied to develop effective control strategies

Delivered by

Dr Miguel Azenha
Minho University, Portugal

Prof A. Perez Caldentey
Universidad Politecnica de Madrid, Spain

Dr Daniela Ciano
RILEM

Dr Nuno Ferreira
ARUP, UK

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Coordinated by

Prof John Forth
University of Leeds, UK

Dr Samuel Adu-Amankwah
University of Leeds, UK

Prof Susan Bernal Lopez
University of Leeds, UK

Further details

The course will be delivered **online** and joining instructions will be provided to delegates following registration.

The **course fee is £95** for engineers and industry participants. This covers CPD certificates accredited by the Institute of Concrete Technology (ICT).

The Neville Centre will offer bursaries to cover the course fees of 10 PGR students. For further details please email NevilleCentre@leeds.ac.uk.

View the full programme and book your place online: <https://bit.ly/2VM32yh>