Aston University
Birmingham

Aston University, in the School of Engineering & Applied Science, presents a One-day Course in the Main Building on Thursday 3 December 2009

An Introductory Course on the Degradation of Reinforced Concrete Structures

The UK along with many other countries has an ageing built infrastructure. Concrete is the most widely used construction material and despite its general durability and high performance, increasing numbers of reinforced concrete structures built in the 20th century are showing signs of deterioration due to poor design or construction or due to adverse environmental conditions that were not fully understood when they were built. Often these structures are well within their design lives or the required life has been extended beyond that originally envisaged. This course will review the major deterioration processes encountered on ageing and deteriorating reinforced concrete structures and discuss how the causes of deterioration can be identified and remedied or controlled. Course Tutor Dr John P. Broomfield CEng, FICorr, FIM^3.

09.00 - 09.45	***Registration***
09.45 - 11.00	**Introduction to Concrete**
11.00 - 11.15	***Coffee***
11.15 - 12.00	***Deterioration Processes***

Chemical Attack
- Alkali Aggregate Reaction
- Sulphates
- Acids etc

Physical
- Freeze thaw
- Shrinkage
- Wear, erosion etc.

12.00 - 13.00	***Reinforcement Corrosion***
13.00 - 14.00	***Lunch***
14.00 - 14.30	***Investigation and Diagnosis***
14.30 - 15.00	***Repair Methods according to the principles of BS EN 1504***
15.00 - 15.15	***Tea***
15.15 - 16.45	***Case Histories***

For course availability: Helen Mallinson 0121 204 3593 or Claire Wallis 0121 204 3624 **Fax:** 0121 204 3684
Email: cpd-seas@aston.ac.uk **Website and Mailing Subscription:** http://www.seas.aston.ac.uk/cpd
Our courses are intended to contribute towards the CPD requirements of the relevant professional institutions.
Course Organiser: Dr M Sadeghzadeh, 0121 204 3606
Please note the programme is subject to change without prior notice **CODE 30943**

Please send all correspondence to: The Course Secretary, CPD Centre, Room MB166, SEAS, Aston University, Birmingham, B4 7ET

Please reserve .....place(s) at the course, (subject to terms & conditions) **Degradation of Concrete - 3.12.09**

Delegate name(s): ..... Company: .....

Address: .....

.....

Post Code: ..... Email Address: .....Tel: .....

Have you any dietary, access or other requirements? **YES/NO if YES** please state: .....

Do you wish to be invoiced? **(CODE 30943) YES/NO** Purchase Order No: .....

Invoice address if different from above: .....

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Cost £229 per delegate, covering attendance, papers, lunch and refreshments during the day.

(Cheques should be made payable to **Aston University**).

Major Credit Cards are accepted