



Presents a One-day Training Course on Tuesday 31 March 2011  
At Aston University

**Conservation & Repair of 19<sup>th</sup> & 20<sup>th</sup> century  
R.C & steel framed historic buildings & monuments**

The UK along with many other countries has an ageing built infrastructure and increasing numbers of 20th century buildings of architectural merit are being awarded historic listed status or are in conservation areas. Engineers, surveyors, building managers, owners and architects are increasingly required to maintain and repair such buildings and other large structures. This one day course will introduce the principles of conservation and its application to late 19th century and early 20th century structures with an emphasis on the corrosion of steel frames and reinforcement, and associated electrochemical investigation and repair techniques. Interesting and high profile case histories from the Course Tutor's project portfolio will be discussed. This course will be of interest to engineers, surveyors, building managers, owners and architects responsible for the investigation, maintenance, repair and conservation of such structures.

- 09.00 - 09.45 **Registration**
- 09.45 - 10.15 **Principles of conservation**
- 10.15 - 11.00 **Deterioration processes**
- 11.00 - 11.15 **Coffee**
- 11.15 - 12.00 **Investigation methods**
- 12.00 - 13.00 **Repair Methods**
  - Coatings
  - Masonry and brick repairs
  - Concrete repair
  - Electrochemical treatments
- 13.00 - 14.00 **Lunch**
- 14.00 - 14.30 **Documentation**
- 14.30 - 15.00 **Maintenance**
- 15.00 - 15.15 **Tea**
- 15.15 - 16.45 **Case Histories**
  - Grade I listed wrought iron framed ship
  - Grade II\* listed terracotta gateway
  - Grade II listed steel framed department store
  - Grade II listed R.C university buildings

**Course Tutor:** Dr John Broomfield CEng, FICorr, FIMMM

**For course availability:** [enquiries@astoncpdcentre.co.uk](mailto:enquiries@astoncpdcentre.co.uk) Telephone enquiries: 0121 250 3818

**Fax:** 0121 250 3817 **Website & Mailing Subscription:** <http://www.astoncpdcentre.co.uk>

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

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**All correspondence to: Aston CPD Centre, Birmingham Science Park Aston, iBIC, Holt Court South, Jennens Road, Birmingham B7 4EJ**

Please reserve .....place(s) at the course, (subject to terms & conditions) **Conservation & Repair of 19<sup>th</sup> & 20<sup>th</sup> Century Historic - 31.3.11**

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? 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 CPD**)