

3-Day International Conference

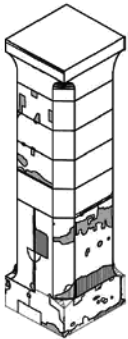
New Theme!  
Early age materials + testing

# STRUCTURAL FAULTS & REPAIR—2010

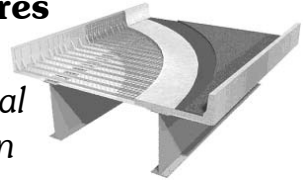
Incorporating Early Age Construction + Materials Testing



**“Extending the Life of Bridges;  
Concrete + Composites, Buildings,  
Masonry + Civil Structures**



*The Thirteenth International  
Conference and Exhibition*



**“CALL FOR PAPERS”**

**15th – 17th June 2010**

***Abstract deadline: 10th December 2009***



**Assembly Rooms  
George Street  
Edinburgh, Scotland**

Historic venue completed in 1787

[www.structuralfaultsandrepair.com](http://www.structuralfaultsandrepair.com)

# Exhibition

FREE EXHIBITION VISITOR TICKET: see form overleaf



Early Exhibition bookings:

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**A major feature of the 13th International Conference will be the State-of-the-Art Exhibition which will be open to visitors.**

**3-Day Exhibition Fee = £1,150 + VAT  
for 3m × 2m Exhibition space  
50% deposit required with booking**

***Exhibition Registration:* Conference Secretariat, ECS Publications  
46 Cluny Gardens, Edinburgh EH10 6BN, UK**

**Tel: +44-(0)131-447 0447 • Fax: +44-(0)131-452 8596  
email: [exhibition@ecspublications.com](mailto:exhibition@ecspublications.com)**

# STRUCTURAL FAULTS & REPAIR–2010

## Networking Opportunities

- (1) **AUTHORS & EXHIBITORS ICEBREAKER + MALT WHISKY TASTING:** Monday, 14th June @ 19.00 – 20.30 in the Venue, The Assembly Rooms, 54 George Street, Edinburgh. Malt Whisky, sparkling wine, soft drinks and Scottish canapés will be served, hosted by the Conference. This is an excellent opportunity for Speakers (from 35+ countries) and Exhibitors to network prior to the start of the Conference. Invitations will be issued to all Authors (& partners) and Exhibitors.
- (2) **CIVIC RECEPTION + AWARDS CEREMONY:** Tuesday, 15th June @ 19.00 – 20.00 in the City Chambers, High Street (Royal Mile), Edinburgh. The Lord Provost of the City of Edinburgh will host the Reception and present the Conference and Exhibitors Awards. Invitations will be issued to all conference participants and partners. Wine and soft drinks will be served, plus light canapés.
- (3) **CONFERENCE BANQUET + THE CEREMONY OF BEATING RETREAT BY “THE ROYAL SCOTS ASSOCIATION PIPE BAND” [Optional]:** Wednesday, 16th June @ 19.30 for 20.00 in the Playfair Library Hall, University of Edinburgh, Old College, South Bridge, Edinburgh EH1. Pre-dinner sparkling wine and soft drinks will be served in the Raeburn Room, which contains the University’s historic and priceless collection of Raeburn Paintings. Dinner will be served in the Playfair Library Hall regarded as one of Scotland’s finest public rooms. At the end of the banquet The Royal Scots Association Pipe Band will “Beat Retreat” in the Quad. Malt whisky and soft drinks will be served. Tickets may be booked on the Registration Form, including tickets for guests.
- (4) **CONFERENCE LUNCHEAS AND ALL COFFEE AND TEA BREAKS WILL BE SERVED IN THE EXHIBITION HALL:** a “hot fork buffet lunch” with wine and soft drinks will be offered to registered Delegates and Exhibitors each day.

## Sponsorship Opportunities

Companies are offered the opportunity to raise their profile by sponsoring any of the following:

- (1) Conference Delegate Bags
- (2) Authors & Exhibitors Icebreaker + Malt Whisky Tasting – 14 June 2010
- (3) Raeburn Room Drinks Reception prior to the Conference Banquet – 16 June 2010
- (4) Conference Banquet – 16 June 2010
- (5) Malt Whisky Reception during the “Beating Retreat” after the Conference Banquet – 16 June 2010
- (6) Conference Lunch – Day-1: 15 June 2010
- (7) Conference Lunch – Day-2: 16 June 2010
- (8) Conference Lunch – Day-3: 17 June 2010

email to: [editor@structuralfaultsandrepair.com](mailto:editor@structuralfaultsandrepair.com)  
or post to: Conference Secretariat, ECS Publications,  
46 Cluny Gardens, Edinburgh EH10 6BN, UK

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# STRUCTURAL FAULTS & REPAIR–2010

## Conference Awards

1. **Construction & Building Materials Award:** to be presented for the best paper on materials by Elsevier Ltd publishers.
2. **CNS Farnell NDT Award:** to be presented for the best paper on the use of geophysical or NDT techniques for investigating structures.
3. **Design Award:** to be presented by Engineering Technics Press for the best paper by a design team from a Local Authority or Consulting Engineer.
4. **Research Award:** to be presented for the best paper by a University researcher.
5. **Early Age Construction Materials Award:** to be presented for the best paper on new build techniques or testing of concrete, mortar or masonry.  
*To be eligible for a **Conference Award**, authors must register for the Conference and present their paper.*
6. **Lifetime Achievement Award** - will be presented to a distinguished contributor to the field of Structural Faults & Repair.
7. **Structural Faults & Repair Exhibition Award** – will be presented to the Exhibitor with the best display.

Sponsored by:



### SUBMISSION OF ABSTRACTS

*Short to medium length contributions from practising engineers will be particularly welcome – in addition to papers from university researchers. Presentations will be in oral or interactive poster forms.*

**DEADLINE: Abstracts of Papers (200 words) should be submitted not later than 10th December 2009 to:**

**Professor M.C. Forde, PhD, FREng, FRSE, CEng, FICE, FIET**  
**University of Edinburgh**

**School of Engineering & Electronics**  
**The Kings Buildings, Edinburgh EH9 3JL, UK**

**Fax: +44-(0)131-452-8596**

**email: [editor@structuralfaultsandrepair.com](mailto:editor@structuralfaultsandrepair.com)**

# “Call for Papers”

Following the highly successful first twelve International Conferences held in Edinburgh and London, the 13th International Conference,

## STRUCTURAL FAULTS & REPAIR—2010

will be held in the historic Assembly Rooms in central Edinburgh – considered the finest in the land when opened in 1787. King George IV, Queen Victoria and Prince Albert all dined there; Charles Dickens gave readings of *A Christmas Carol* and Bachman, Paderewski, Rubenstein and Ysaye were among musicians to perform in the magnificent rooms.

### Conference Themes: Each theme will run in parallel over all three days:

#### Theme 1: BRIDGE INVESTIGATION & REPAIR

- Bridge Management & Whole Life Costing
- Remaining Life Prediction of Bridges
- Monitoring & Investigation of Bridges
- Bridge Assessment
  - NDT: AE, Radar, Sonics & Ultrasonics
- Bridge Scour
  - Composites in Bridge Repair
- Composites in Bridge Repair
  - Corrosion & Cathodic Protection
- Seismic Evaluation & Strengthening
- Concrete Bridge Investigation & Repair
- Post-Tensioned Concrete Bridges
  - Masonry Arch Bridges
- Steel, Iron, Cable-Stayed & Aluminium Bridges
- Timber Bridges
  - Forensic Investigation of Bridges

#### Theme 2: CONCRETE & ADVANCED COMPOSITES

- Concrete Investigation & Repair
- Corrosion, Cathodic Protection & Realkalisation
- Concrete Repair
  - Restoring Concrete Durability
- Repair Materials & Techniques
  - Composites in Repair
- Column Repair
  - Beam Repair
- Composites in Seismic Retrofit
  - NDT of concrete and composites
- Forensic Investigation of Concrete & FRP

#### Theme 3: BUILDINGS, MASONRY & CIVIL STRUCTURES

- Building & Housing Assessment & Repair
- Masonry Structure & Bell Tower Investigation
- Brick Masonry Repair & Stone Masonry Repair
- Masonry Strengthening with FRP
  - Cast Iron Repair with FRP
- Timber Preservation & Repair
  - Car Parks
- Civil Structures & Repair
- Marine Structures & Jetties: Management & Repair
- Dams & Power Station Repair
  - Tunnels, Pipes & Foundations
- Highway Pavements
  - Repair in Seismic Zones
- NDT Methods for Structural Investigation
- Forensic Investigation of Buildings, Masonry & Civil Structures

#### Theme 4: EARLY AGE CONSTRUCTION MATERIALS

- Avoiding Long Term Problems
- Early Age Testing of Concrete, Mortar & Masonry
- Developing Low Maintenance, Long Life, Sustainable Concrete
- Developing Low Maintenance, Long Life, Sustainable Masonry
- Developing Low Maintenance, Long Life, Sustainable Bridges

**Open Discussion Forums** – At the end of each day there will be an Open Discussion Forum at which all Delegates may contribute

Email 200-word Abstract by 10th December 2009 to: [editor@structuralfaultsandrepair.com](mailto:editor@structuralfaultsandrepair.com)

# Proceedings of Previous Conferences

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# STRUCTURAL FAULTS & REPAIR-2010

## Registration Form

I/We wish to register as a Delegate at **STRUCTURAL FAULTS & REPAIR-2010** at the registration rate of

	<b>Early*</b>	<b>Late</b>
Delegate (incl. VAT)	£455	£495
Author (incl. VAT)	£420	£455

\*Early rates only apply to registration fees paid before 31 March 2010.

**Registration Fee** includes attendance at Conference Sessions, Morning Coffee, Lunch, Tea, and one copy of the Proceedings on CD-Rom.

**Conference Dinner** on the second evening of the Conference – £80 per person (inc. VAT)

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