

Final Call-for-Papers

STRUCTURAL FAULTS + REPAIR – 2010

13th International Congress and Exhibition

15th – 17th June 2010

Assembly Rooms
George Street
Edinburgh, Scotland



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

3-Day Registration at £495 stg • Daily Registration at £265 stg per day
(early Registration = £455 before 31st March 2010)

250+ Papers from 38 Countries

Papers from Asset Owners include:
Bureau of Reclamation, USA; FHWA, USA; Highways Agency, UK; LoBEG, UK, Malaysian Nuclear Agency; SNCF, France; Surrey County Council, UK; Transport for London, UK; Transport Scotland

OPEN DISCUSSION FORUMS each day: Bridges, Concrete, Masonry

EXHIBITION @ STRUCTURAL FAULTS + REPAIR – 2010

Companies exhibiting in 2008 included:

- 3D Radar AS
- Allied Associates Geophysical Ltd
- BASF Construction Chemicals (UK) Ltd
- Bridge Design & Engineering
- Cintec International Limited
- CNS Farnell Ltd
- Concrete
- Concrete Engineering International
- Elsevier Ltd
- Freyssinet Limited



- Geophysical Survey Systems Inc (GSSI)
- Helifix Ltd
- Holequest Ltd

- IDS Ingegneria Dei Sistemi S.p.A.
- Inspectahire Instrument Co Ltd
- Kongsberg Maritime Ltd
- Outokumpu Stainless Ltd
- Physical Acoustics Ltd
- Sensors & Software Inc
- Strainstall UK Ltd
- TAM International
- University of Edinburgh
- Utsi Electronics Ltd
- Weber

Final Call-for-papers

A limited number of additional papers may be accepted. Email by 28th February 2010 to:
Professor M.C. Forde, PhD, FREng, FRSE, Carillion Professor, University of Edinburgh
editor@structuralfaultsandrepair.com

www.structuralfaultsandrepair.com



- FATIGUE BEHAVIOUR OF MASONRY ARCH BRIDGES, Dr A Tomor, Dr J Wang, Univ of the West of England, Bristol, & C Melbourne, Univ of Salford, UK
- MASONRY ARCH BRIDGES – WHEN TO MEKE? N Gibbons & P Fanning Univ College Dublin, Ireland
- THEORETICAL BASIS OF MEKE METHOD FOR MASONRY ARCH ASSESSMENT, Dr A Tomor, Dr J Wang, Univ of the West of England, Bristol, & C Melbourne, Univ of Salford, UK
- REPAIR OF HISTORICAL MURAT MASONRY ARCH BRIDGE, M Dogan, N Kirac, Y Alsan, Eskisehir Osmangazi Univ, Turkey
- Metallic Bridges**
- DETECTION & CHARACTERIZATION OF FATIGUE CRACKS IN STEEL BRIDGES, F Jalinoos, FHWA & P Haldipur, S Jin, Eng & Software Consultants, Inc, McLean, VA, USA
- APPLICATION OF RADAR TECHNOLOGY TO SHM OF STAY-CABLES, Prof C Gentile, Poli di Milano, Italy
- LIMIT STATE BASED SERVICEABILITY CRITERIA FOR STEEL GIRDER BRIDGES, Dr KE Barth, West Virginia Univ, Morgantown, WV & Dr MG Barker, Univ of Wyoming, USA

- MONITORING OF CONCRETE SETTING WITH AN AUTOMATIC METHOD, C Boulay, E Merliot, LCPC, Paris, S Staquet, Univ Libre de Bruxelles, Belgium & Omarzouk, LCPC, d'Aulun, Franc
- DEVELOPMENT OF ULTRASOUND PULSE VELOCITY IN EARLY AGES FOR CONCRETE, MORTAR & CEMENT PASTES, Prof RCA Pinto, MAP Irrigaray, RT Cerqueira, Univ Federal de Santa Catarina, Florianópolis, Brazil
- FIBRE OPTIC SENSORS FOR MONITORING TEMPERATURE & MOISTURE CHANGES IN FRESH & HARDENED CONCRETE, S Srinivasan, S Barbhuiya, SE Taylor, M Basheer, Queen's Univ Belfast, T Sun, KTV Grattan, City Univ, London, UK
- ON-SITE MEASUREMENT OF CAPILLARY PRESSURE IN FRESH CONCRETE, M Schmidt, V Slowik, Leipzig Univ of Applied Sci, Germany
- EFFECT OF AUTOGENOUS DEFORMATIONS IN EARLY AGE CONCRETE STRUCTURES, DL Allaix, G Bertagnoli, VI Carbone, Poli di Torino, Italy
- INFLUENCE OF ADMIXTURE ON FRESH PERFORMANCE OF SELF-CONSOLIDATING CONCRETE, H Diawara & N Ghafoori, Univ of Nevada, Las Vegas, NV, USA
- EFFECT OF TEMPERATURE ON RATE OF HEAT OUTPUT & STRENGTH DEVELOPMENT OF MORTAR MIXES, M N Soutos, University of Liverpool, UK
- INFLUENCE OF CURING TIME ON DELAYED DEFORMATIONS UNDER CONSTANT LOAD OF ECO-COMPOSITE CEMENT/RUBBER, S. Abdelmoumen, E. Bellenger & M. Quéneudec-t'Kint, Univ de Picardie Jules Verne, Dury les Amiens, France

- FRP in Concrete Strengthening & Repair**
- STRUCTURAL STRENGTHENING USING FRP IN EASTERN EUROPE & MIDDLE EAST, M.J. Karantzakis, Fyfe Europe SA, Athens, Greece
- FRP SYSTEMS FOR REPAIR & STRENGTHENING OF R.C. STRUCTURES, Dr D Kartuzov, S Zalomov, ZAO "Triada-Holding", Moscow, Russia
- TESTING OF FRP-STRENGTHENED JOINTS IN LOAD & DISPLACEMENT CONTROL, S.T. Smith, Univ of Hong Kong, China
- MODELLING SLENDERNESS EFFECTS IN FRP CONFINED CIRCULAR REINFORCED CONCRETE COLUMNS, E Chowdhury, Dr M Green, Queen's Univ, Canada & Dr L Bisby, Univ of Edinburgh, Scotland
- DISCRETE FIBER FOR INFRASTRUCTURE REPAIR & REHABILITATION, NL Carey & Prof. JJ Myers, Missouri Univ of Sci & Tech, Rolla, MO, USA
- COMBINED TENSION & COMPRESSION STRENGTHENINGS OF RC STRUCTURAL ELEMENTS BY CFRP COMPOSITE FABRICS, CTT Hsu, New Jersey Inst of Techy, Newark, NJ, USA & W Punurai, Mahidol Univ, Nakhonpathom, Thailand
- MODELING OF CREEP IN CONCRETE STRUCTURES STRENGTHENED WITH EXTERNALLY BONDED COMPOSITE MATERIALS, Dr E Hamed & Prof MA Bradford, Univ of NSW, Sydney, Australia
- EFFECT OF SECTION SHAPE & LOAD ECCENTRICITY ON PERFORMANCE OF RC COLUMNS WRAPPED WITH FRP, Prof T El Maadawy, M El Sayed, UAE-Univ, Al Ain, UAE & Prof B AbdelMajed, Winona State Univ, MN, USA
- FRP & FIBRE REINFORCED CEMENTITIOUS MORTAR STRENGTHENING SYSTEMS IN ELEVATED TEMPERATURE ENVIRONMENTS, J Smith, S Halpin, Dr L Bisby & Dr T Stratford, Univ of Edinburgh, Scotland
- MONITORING BEHAVIOR OF STRENGTHENED BEAMS WITH CFRP, Dr A El-Safy, Univ of North Florida, Jacksonville, FL, USA
- EXPTL STUDY ON FLEXURAL BEHAVIOUR OF LOW STRENGTH / QUALITY CONCRETE BEAMS STRENGTHENED WITH TEXTILE REINFORCED MORTAR, P Alonso, J T San-José, D García, L Garmendia, RSan-Mateos, J Díez, Labein, Bilbao, Spain
- MECHANICALLY FASTENED FRP FLEXURAL STRENGTHENING OF R.C. BEAMS, Prof U Ebead, United Arab Emirates, Al Ain, UAE
- PRE-CAST RC WALL PANELS RETROFITTED BY EXTERNALLY BONDED CFRP, I Demeter, T Nagy-György, V Stojan, CA Dăescu & D Dan, Poli Univ of Timişoara, Romania
- SHEAR PERFORMANCE OF R.C. COLUMNS STRENGTHENED WITH INORGANIC FRP SHEET, Y Li & X Zhang, Shandong Jian Zhu University, Jinan, China
- EXPTL STUDY ON CONCRETE REINFORCED WITH FIBER "PET", G Donatone, D Foti, F Paparella, Technical Univ of Bari, Bari, Italy
- STRUCTURAL BEHAVIOUR OF EPS-CONCRETE ELEMENTS, F Ceroni, M Pecco, Univ of Sannio, Benevento, Italy
- EFFECT OF ADHESIVE INTERFACE VOIDS ON FATIGUE PERFORMANCE OF CFRP STRENGTHENED BEAMS, ZB. Haber & KR Mackie, Univ of Central Florida, Orlando, FL, USA
- FLEXURAL STRENGTHENING OF RC BEAMS WITH PRESTRESSED CFRP PLATES Prof. W Xue, Tongji Univ, Shanghai, China
- MITIGATION OF SPALLING IN HIGH & ULTRA-HIGH STRENGTH CONCRETE USING POLYPROPYLENE FIBRE, EE John & WM Hale, Univ of Arkansas, Fayetteville, AR, USA
- R.C. SLENDER RECTANGULAR COLUMNS STRENGTHENED USING CFRP COMPOSITES, EE Etman, Univ of Tanta, Egypt
- DURABILITY OF FRP & EPOXY BONDED TO CONCRETE, A Stewart, H.R. Hamilton III, E P. Douglas, Univ of Florida, JF Lambert, M Jaber, C Gervais, Univ Pierre et Marie Curie, USA

- FRP Strengthening of Heritage Masonry**
- IN-PLANE BEHAVIOR OF ALTERNATIVE MASONRY RETROFITTED WITH POLYUREA MEMBRANES, Prof JJ Myers & Y Tanizawa, Missouri Univ of Science & Technology, Rolla, MO, USA
- UNBONDED FRP TO IMPROVE IN-PLANE PERFORMANCE OF MASONRY PANELS, Dr T Stratford, Univ of Edinburgh, UK
- FRP-STRENGTHENED-MASONRY WALLS FOR OUT-OF-PLANE BEHAVIOUR, A Sayari, T Donchev & M Limbachiya, Kingston Univ, London, UK
- REHABILITATION OF MASONRY SEWERAGE BY COMPOSITES, S Kesteloot, C Djelal, LAMTI, Bethune, I Benslimane, Structure & Réhabilitation, Babnolet, France

- Metallic Structures**
- UPGRADING SURREY QUAYS RAILWAY STATION, C Gallivan, BASF Construction Chemicals, Redditch UK
- BUCKLING ANALYSIS OF AN OIL TANK EXPOSED TO A TANK FIRE, Y Liu, JF Chen, JM Rotter & JL Torero, Univ of Edinburgh, UK
- LOSS OF DUCTILITY IN CONSTRUCTION-STEEL DUE TO DYNAMIC LOADING, U Peil & I Schendel, TU Carolo-Wilhelmina zu Braunschweig, Germany
- IN-SITU LOAD TEST OF AN HISTORIC STAIR CASE MADE OF CAST IRON, Prof Dr-Ing M Gutermann & Dipl-Ing W Malguth, Univ of Applied Sciences, Bremen, Germany
- THIN-WALLED COMPOSITE STEEL CONSTRUCTION WITH MOULDED SHEAR CONNECTION MEMBERS, Prof M Bajer, J Ducháček, J Barnat, Brno Univ of Technology, Vevří Brno
- USE OF CORRUGATED METAL PLATES FOR CIVIL STRUCTURES IN KOREA, Prof S Kim, Seoul National Univ of Tech, J Rhee, PSI Corp, M C Kim, Daewoo Construction Corp, Seoul, & Prof Y S Park, Myungji Univ, Yongin, Korea
- REAL BEHAVIOUR OF JOINTS OF STEEL BUILDING STRUCTURES, Dr M Smak, Brno Univ of Tech, Czech Republic
- GREAT MARQUEE IN NEW RAILWAY STATION FOR HIGH SPEED TRAINS OF MALAGA, Prof C Jurado Cabanes, Poly Univ of Madrid, Spain

- FRP Strengthening of Metallic Structures**
- STRENGTHENING HISTORIC CAST IRON GIRDERS USING PRESTRESSED CFRP PLATES, C Zhang, Dr L Canning, F Chigbo, P Bolton, Mouchel, Manchester, UK
- FATIGUE BEHAVIOUR OF CFRP RETROFITTED DAMAGED STEEL BEAMS, Prof K. Harries & Y Kim, Univ of Pittsburgh, Pittsburgh PA, USA
- TEMPERATURE EFFECTS IN ADHESIVELY BONDED FRP APPLIED TO STEEL BEAMS, Dr T Stratford & Dr L Bisby, Univ of Edinburgh, UK
- SHEAR STRENGTH OF FRP-TO-STEEL JOINTS, SJ Kim, ST Smith & B Young, Univ of Hong Kong, China
- REINFORCING EFFECT OF CFRP STRAND SHEETS ON STEEL MEMBERS, Y Hidekuma, A Kobayashi, Nippon Steel Composite Co, Tokyo, M Nagai, T Miyashita, Nagaoka Univ of Tech, Niigata, Japan

PROCEEDINGS ONLY:

1. Structural Faults + Repair – 87	=	£65	=	£
2. Structural Faults + Repair – 89	=	£65	=	£
3. Structural Faults + Repair – 93	=	£85	=	£
4. Structural Faults + Repair – 95	=	£95	=	£
5. Structural Faults + Repair – 97	=	£95	=	£
6. Structural Faults + Repair – 99	=	£65	=	£

7. Structural Faults + Repair – 2001	=	£65	=	£
8. Structural Faults + Repair – 2003	=	£65	=	£
9. Structural Faults + Repair – 2006	=	£65	=	£
10. Structural Faults + Repair – 2008	=	£65	=	£
11. Structural Faults + Repair – 2010	=	£65	=	£
12. Overseas Air Mail	=	£20	=	£
TOTAL	=	£	=	£

Provisional List of Papers – Parallel Sessions will be used each day • Note – three conference/themes each day • Further details on www.structuralfaultsandrepair.com

- Keynote Papers:**
- CHALLENGES OF MANAGING TRUNK ROAD BRIDGES IN SCOTLAND, B Valentine, Transport Scotland, Glasgow, UK
 - ECONOMIC VIABILITY OF FRP ROAD BRIDGES, B Sadka, Highways Agency, Dorking, UK
 - EVOLUTION IN EVALUATION OF STRENGTH OF DEGRADED BRIDGE CABLES". Dr K Mahmoud, Bridge Technology Consulting, New York City, USA

CONFERENCE 1/THEME 1: BRIDGE INSPECTION & REPAIR

- Bridge Management**
- MANAGING HIGHWAY STRUCTURES IN LONDON, G Sterritt, Dr V Vassou, Atkins & R McFarland, LoBEG, London, UK
 - RECENT DEVELOPMENTS IN BRIDGE MANAGEMENT TECHNIQUES IN UK, H Brooman, Surrey County Council, Kingston upon Thames, UK
 - BRIDGE MANAGEMENT – DEVELOPMENT OF A BUSINESS PROCESS MODEL, B Devlin & J Harvey, CEI Collins Engineers Ltd, Newry, Co. Down, N.I.
 - PERIODIC NDE FOR BRIDGE MAINTENANCE, F Jalinos, R Arndt, FHWA, McLean, VA & D Huston, J Cui, Univ of Vermont, Burlington, VT, USA
 - MAXIMISING VALUE OF EXISTING BRIDGE STOCK THROUGH TECHNOLOGICAL ADVANCES, C Zhang, Y Dobson, Dr L Canning, N Speight, Mouchel, Manchester, UK
 - BRIDGE MANAGEMENT – 3D CAPTURE OF BRIDGES USING LASER TECHNOLOGY, B Devlin & J Harvey, CEI Collins Engineers Ltd, Newry, Co. Down, N.I.
 - SUPPORTING FINANCIAL DECISION MAKING FOR A STOCK OF HIGHWAY BRIDGES, Dr V Vassou, G Sterritt, Atkins, London & B Sadka, Highways Agency, Dorking, UK
 - IMPROVING MANAGEMENT OF BRIDGES – BENEFITS OF CONDITION MONITORING, Dr D Pearson-Kirk, EnterpriseMouchel, Exeter, UK
 - RISK BASED INSPECTION PLANNING FOR HIGHWAY STRUCTURES, Dr V Vassou, G Sterritt, Atkins & S Pottle, Transport for London, UK
 - DURATINET: NEW NETWORK TO PROMOTE "DURABLE TRANSPORT INFRASTRUCTURES IN ATLANTIC AREA", MM Salta, Lab Nacional de Eng Civil, Lisboa, Portugal

- Concrete Bridges**
- DIRECT TENSILE STRENGTH TESTING OF CONCRETE BRIDGES & STRUCTURES IN AGGRESSIVE ENVIRONMENTS, Dr DM Mulenga, Halcrow, Birmingham, UK
 - REFURBISHMENT OF BIDEFORD LONGBRIDGE, J Drewett, Concrete Repairs Ltd, Mitcham, UK
 - DIGITAL IMAGE CORRELATION FOR MONITORING & ASSESSMENT OF BRIDGES, Dr N J McCormick, J Lord, NPL Material Centre, Teddington, UK
 - REPAIR OF REDBRIDGE & MILLBROOK FLYOVERS, J Drewett, Concrete Repairs Ltd, Mitcham, UK
 - MICROPIILING A DAMAGED BRIDGE IN CONSTRUCTION IN MOTORWAY M-410 IN MADRID (SPAIN), Prof C Jurado Cabanes, Polytechnic Univ of Madrid, Madrid, Spain

- DEVELOPMENT, VALIDATION & APPLICATION OF CONCRETE 'FLEXARCH', Prof AE Long, OBE, Queen's Univ, Belfast, UK
- ON-SITE MEASUREMENT OF CONCRETE STRUCTURES BY NDT, Prof M Ohtsu, Kumamoto Univ, Japan
- STRENGTHENING OF STEEL STRUCTURES WITH FRP COMPOSITES, J-G. Teng, T Yu & D Fernando, Hong Kong Poly Univ, China
- INTERMEDIATE CRACK DEBONDING OF NEAR-SURFACE MOUNTED FRP FOR STRENGTHENING OF CONCRETE BRIDGES, JK Alexy, RW Barnes, A Schindler, & EA Bertolotti, Auburn Univ, AL, USA
- MONITORING A 40 YR OLD RC FOOTBRIDGE, Dr E Barton, NPL Material Centre, Teddington, UK
- VISUAL INSPECTION BASED APPROACH FOR SECURITY ASSESSMENT OF CONCRETE BRIDGES, B De Nicolo, D Meloni, F Mistretta, MV Piras, Univ of Cagliari, Italy
- SEQUENCE OF EVENTS IN SERVICE LIFE OF MOTORWAY BRIDGE OVER SAVA RIVER NEAR ZAPREŠIĆ, K Mavar, S Skaric Palic, M Ille Institut IGH, Zagreb, Croatia
- TYPICAL PATHOLOGIES OF BRIDGES - BRAZILIAN EXPERIENCE, J Timerman, Engeti-Consultant & Structural Engineering S/S Ltda, Sao Paulo, SP, Brazil
- MICROPIILING A DAMAGED BRIDGE IN CONSTRUCTION IN MOTORWAY M-410 IN MADRID, Prof C Jurado Cabanes, Poly Univ of Madrid, Spain

- Bridge Decks**
- ORTHOTROPIC DECK FATIGUE: RENOVATION OF 8 LANDMARK BRIDGES IN THE NETHERLANDS, D Ashurst, S den Blanken, D Gratton, Arup, Solihull, UK, P Kunst, Royal Haskoning, G Nagtegaal, RijksWaterstaat, The Netherlands
 - MULTIPLE NDE METHODS FOR BRIDGE DECK CONDITION EVALUATION, KR Maser, Infrasense Inc, Arlington, MA, USA
 - EXPTL STUDY OF R.C. BRIDGE DECKS UNDER CONCENTRATED LOADS NEAR TO SUPPORTS, E Lantsoght, Dr C v.d Veen, Prof Dr J Walraven, TU Delft, The Netherlands
 - MONITORING OF CAST INSITU CONCRETE BRIDGES DURING DECK LIFTING FOR BEARING REPLACEMENT, S French & T Neat, Testconsult Limited, Warrington, UK
 - LONGITUDINAL CRACK MONITORING IN AN LRFD DESIGNED BRIDGE DECK, SN Shoukry, GW William, MY Riad, West Virginia Univ, Morgantown, WV, USA
 - QUANTIFICATION OF FATIGUE DAMAGE FOR CONCRETE BRIDGE DECK WITH ELASTIC WAVE TECHNIQUES, T Shiotani, S Yoshimi, Kyoto Univ & T Kamada, H Ohnishi, Osaka Univ, Japan
 - FAILURE OF A DECK CLOSURE POUR ON I-81, Prof RE Weyers, A Ramnicanu, SA Weyers, Virginia Tech, Blacksburg, VA & M Sprinkel, VTRC, Charlottesville, VA, USA

CONFERENCE 2/THEME 2: CONCRETE & COMPOSITES

- Concrete Innovation in China – Convenor: Prof PAM Basheer**
- ALCALI-SILICA REACTION OF SLAG CEMENT MORTARS, C Yang, J Yie, K Chen, Z Zhang, Chongqing Univ, P.R. China
 - NEW REGIME FOR CONCRETE CURING, J Qian, Chongqing Univ, P.R. China
 - CONCRETE TECHNOLOGY USED IN HIGH SPEED RAIL OF CHINA, T Y Hao & B SU, Central Research Inst of Building & Construction, MCC, China
 - DURABILITY OF REACTIVE MGO CEMENT CONCRETE, X Li, M Liska, SSS, Tsang, A Al-Tabbaa, Univ of Cambridge, UK, A Bie, J Qian, Univ of Chongqing, China
 - INVESTIGATING INFLUENCE OF ITZ ON CHLORIDE DIFFUSIVITY & MECHANICAL PROPERTIES OF CONCRETE, H Wang, B Xu, W Jin, Zhejiang Univ, Hangzhou, China & PAM Basheer, Queen's Univ Belfast, N. Ireland
 - CONCRETE CARBONATION WITH DIFFERENT CURING CONDITION, P Yan, Y A Jia, Tsinghua Univ, Beijing, China
 - CHLORIDE BARRIER FOR R.C. STRUCTURES IN MARINE ENVIRONMENT, W Li, Chinese Academy of Sci, FH Wittmann, T Zhao & R Jiang, Qingdao Tech Univ, China
 - DURABILITY OF SURFACE TREATMENT FOR HANGZHOU BAY SEA-CROSSING BRIDGE, Y Zhao, W Jin, P Du, B Hu, Zhejiang Univ, Hangzhou PR China
 - MICROSTRUCTURE & PERFORMANCE OF FLY ASH SINKING BEADS IN CEMENTITIOUS SYSTEM, H Li, D Xu, Xi'an Univ of Arch & Tech, China
 - DURABILITY & SERVICE LIFE UNDER MECHANICAL & ENVIRONMENTAL LOADS, T Zhao, F Jiang, P Zhang, Qingdao Tech Univ, China & FH Wittmann, Aedificat Inst Freiburg, Germany
 - PERMISSIBLE STRAIN OF SHCC WITH RESPECT TO DURABILITY & SERVICE LIFE, F H Wittmann, Aedificat Inst Freiburg, Germany, T Zhao, L Tian, P Zhang, Qingdao Tech Univ, China
 - RELATIONSHIP BETWEEN CONDUCTIVITY & CHLORIDE CONCENTRATION OF ANOLYTE IN PERMIT ION MIGRATION TEST, J Yang, X Zhou, P Yan, Tsinghua Univ, Beijing, China.
 - ON-SITE PERMEABILITY TEST OF CONCRETE CONTAINMENTS OF NUCLEAR POWER STATIONS, T Hao, Central Research Inst of Building & Construction, MCC, China
 - STATIC & DYNAMIC MECHANICAL PROPERTIES OF CEMENT-ASPHALT COMPOSITES, Y Liu, X Kong, P Yan, Tsinghua Univ, Beijing, China

- Concrete Corrosion & Repair**
- CORROSION MANAGEMENT – KEY TO SUSTAINABLE DEVELOPMENT OF MARINE STRUCTURES, P Segers, Halcrow, London, UK
 - ELECTROCHEMICAL TECHNIQUES ON R.C. STRUCTURES, FOR LIFE CYCLE MODELLING & CORROSION MANAGEMENT, Dr JP Broomfield, Broomfield Consultants, East Moseley, UK
 - CRITICAL CHLORIDE THRESHOLD MEASUREMENTS FOR STAINLESS STEEL REINFORCEMENT, S. Randström, R. Pettersson, Outokumpu Stainless AB, Avesta, Sweden & M. Adair, Outokumpu Stainless Ltd, Sheffield, UK

- STEEL REINFORCEMENT CORROSION IN CONCRETE OF DIFFERENT COMPRESSIVE STRENGTHS, L Abosora, AF Ashour, & M. Youseffi, Univ of Bradford, UK
- EXPTL STUDY ON RESIDUAL LIFE OF A CONCRETE SLAB WITH CORRODED RE-BARS, T Nishido & R Shionaga, Ishikawajima-Harima Heavy Industries Co., Ltd., Yokohama, Japan
- POTENTIAL MONITORING SYSTEMS FOR ASSESSING CORROSION OF RE-BARS IN MARINE ENVIRONMENTS, S Barbhuiya, S Srinivasan, S E Taylor, M Basheer, Queen's Univ Belfast, T Sun, KTV Grattan, City Univ London, UK
- REINFORCEMENT ASSESSMENT IN EARLY R.C. CONSTRUCTIONS, A Hellebois, O Germain & B Espion, Univ Libre de Bruxelles, Brussels, Belgium

- NDT of Concrete**
- SHRP 2 NDT RESEARCH FOR HIGHWAY RENEWAL – FINDING SOLUTIONS OF FACILITATING "GETTING IN, GETTING OUT & STAYING OUT", Dr MA Starnes, TRB, Washington, DC, USA
 - NDT OF CONCRETE – BEYOND EU & USA GUIDELINES, Prof MC Forde, University of Edinburgh, UK
 - COMBINING NDT TECHNIQUES FOR CONCRETE PROPERTIES EVALUATION – A STATISTICAL APPROACH, Z-M Sbartai, SM Elachachi & D Bresse, Univ Bordeaux, Talence, France
 - MONITORING CONCRETE STRUCTURES BY ULTRASONIC PULSE VELOCITY, A Lorenzi, L F Caetano, Dr L C Pinto da Silva Filho, Univ Federal do Rio Grande do Sul, Centro Porto Alegre, RS, Brasil
 - AE MONITORING OF CORROSION PROCESS IN R.C. UNDER CYCLIC WET & DRY CONDITION, Y Kawasaki, Y Tomoda & Prof M Ohtsu, Univ of Kumamoto, Japan
 - 2nd GENERATION NEUTRON-BASED SYSTEM FOR MEASURING CHLORIDES IN CONCRETE, RA Livingston, A Gilbertson, M Al-Sheikhly & AM Made, Univ of Maryland, College Park, MD USA
 - EVALUATION OF UNGROUTED TENDON DUCTS IN PRESTRESSED CONCRETE BEAMS BY SIBIE, M Yamada, T Ohkubo, K Tagomori & Prof M Ohtsu, Kumamoto Univ, Japan
 - EVALUATION OF CONCRETE STRUCTURES BY CLUSTER ANALYSIS OF ACOUSTIC EMISSION DURING LOADING & UNLOADING SEQUENCES Prof E Proverbio & G Campanella, Univ of Messina, Italy
 - DECAT SYSTEM FOR DAMAGE ESTIMATION OF CONCRETE USING ACOUSTIC EMISSION METHOD, T Suzuki, Nihon Univ, T Naka, National Inst for Rural Eng, & Prof M Ohtsu, Kumamoto Univ, Japan
 - PASSIVE INFRARED THERMOGRAPHY TO QUANTIFY GEOMETRICAL ANOMALIES OF CONCRETE, M Larget, EXAM BTP Lab, Canéjan, D Breyse, C Sirieix, Univ of Bordeaux, France
 - NON-DESTRUCTIVE, 3-D IMAGING OF CONCRETE STRUCTURES USING ULTRASONIC SHEAR WAVES, R Tatarini & W Erfurt, Bauhaus-Univ Weimar, Germany

- METHODOLOGY FOR EVALUATION OF HISTORICAL STRUCTURES IN POST-SEISMIC SCENERIES, B Silva, J Magi, C Costa, F Casarin, F. da Porto, MR Valluzzi, C Modena, Univ of Padova, G Cardani, P Condoleo & L Binda, Poli di Milano, Italy
- A NUMERICAL METHOD FOR INVESTIGATING INFLUENCE OF ITZ ON CHLORIDE DIFFUSIVITY & MECHANICAL PROPERTIES OF CONCRETE, H Wang, B Xu, W Jin, Zhejiang Univ, Hangzhou, China & PAM Basheer, Queen's Univ Belfast, N. Ireland

- BRIDGE DECK DETERIORATION DETECTION & CHARACTERIZATION BY MULTIPLE NDE METHODS, Prof N Gucunski, R Feldmann, F Romero, S Kruschwitz, H Parvareder, Rutgers Univ, Piscataway, NJ, USA
- **Post-Tensioned & Pre-Stressed Concrete Bridges**
- MANAGEMENT OF POST-TENSIONED BRIDGES, Dr D Pearson-Kirk, EnterpriseMouchel, Exeter & S Pottle, K Duguid, TFL, London, UK
- ACOUSTIC MONITORING OF POST-TENSIONED CONCRETE BRIDGES, KJ Barker & RJ Woodward, TRL Limited, Crowthorne, UK
- GAMMA-RAY INSPECTION OF POST TENSIONING CABLES IN A CONCRETE BRIDGE, M Pimentel, J Figueiras, Univ of Porto, MAJ Mariscotti, P Thieberger, T Frigerio & M Ruffolo, THASA, Buenos Aires, Argentina
- REPAIR OF OLDER POST-TENSIONING SYSTEMS, JP Donnelly, P Popovic, Wiss, Janney, Elstner Associates, Inc., Northbrook, IL, USA
- **Scour**
- SCOUR EVALUATIONS & ACOUSTIC IMAGING IN UNDERWATER ASSESSMENT OF BRIDGES, TM Browne, TJ Collins, F Mohan, CEI Collins Engineers Ltd, Ireland
- **Masonry & Concrete Arch Bridges**
- NUMERICAL TOOL FOR MASONRY ARCH BRIDGE ASSESSMENT, T Stablón, SNCF-LMDC, N Dornede, A Sellier, LMDC, Toulouse, B Plu, L Dieleman, SNCF, La Plaine Saint Denis, France
- NON DESTRUCTIVE INVESTIGATION FOR CONSERVATORY DESIGN OF SEVERAL VIADUCTS IN THE NORTHERN ITALY, G Zanoni, P Zanoni, Tecnolab S.N.C., Trento, Italy
- REPAIR OF A RAILWAY VIADUCT IN BERLIN & INSPECTION CONCEPTS TO EXTEND SERVICE LIFE, J Herter, Dr -Ing M Mehdiانpour & F Hille, BAM, Berlin, Germany
- STRENGTHENING OF MASONRY BRIDGES AGAINST TRAFFIC AND FLOODING, R Falconer, Goldhawk Restorations Ltd, London, UK
- HISTORIC MASONRY USED FOR ARCH BRIDGES IN UK, Dr A Tomor & Dr J Wang, Univ of the West of England, Bristol, UK
- REPAIR OF A SINGLE SPAN MASONRY SKEW ARCH BRIDGE WITH SPANDREL WALL FAILURE, Prof SW Garrity, Univ of Leeds, UK
- IDENTIFYING FATIGUE DETERIORATION OF MASONRY USING ACOUSTIC EMISSION, Dr A Tomor, Dr J Wang, Univ of West of England, Bristol, & C Melbourne, Univ of Salford, UK
- RETRO-REINFORCED SHORT SPAN MASONRY ARCH HIGHWAY BRIDGES, Prof SW Garrity, Univ of Leeds, UK

- INSULATED CONCRETE FORM VOID DETECTION USING GROUND PENETRATING RADAR, R Roberts, A Schutz, & A Kathage, GSSI Inc., Borken, Germany
- 3-D SEISMIC TOMOGRAPHY FOR EXISTING STRUCTURES ON EXTENDED KALMAN FILTER, Y Kobayashi, Nihon Univ, Tokyo, Japan
- DETECTION OF CONCRETE INTERNAL FLAWS USING ULTRASOUND, Prof RCA Pinto, Prof IJ Padaratz, R Silveira, Univ Federal de Santa Catarina, Florianópolis – Brazil
- DAMAGE EVALUATION BY ELASTIC-WAVE METHODS IN FREEZING & THAWING TEST OF CONCRETE, Prof M Ohtsu & T Goto, Kumamoto Univ, Japan
- COMPLEMENTARY ANALYSIS OF NDT TECHNIQUES FOR CONCRETE PROPERTIES EVALUATION, Z-M. Sbartai, D. Breyse, Univ Bordeaux & J-P. Balayssac, Univ de Toulouse, France
- NDE OF CONCRETE MOISTURE & CHLORIDES CONTENT USING GPR TECHNIQUE, Z-M. Sbartai, D. Breyse, Univ Bordeaux, S Laurens, Univ De Toulouse, France
- CHARACTERIZATION OF DAMAGE IN FIBRE R.C. USING ACOUSTIC EMISSION, DG Aggelis, D Sotiropoulos, N Sapouridis, NM Barkoula, AS Paipetis, TE Matikas, Univ of Ioannina, Greece
- SPATIAL & TEMPORAL VARIABILITY OF CONCRETE IN STRUCTURES: CHALLENGE FOR NDT, D Breyse, Univ of Bordeaux, Bordeaux, France, J Ricardo, LNEC, Lisbon, Portugal
- FAILURE PROCESS IN BENDING & SPLIT TESTS OF CONCRETE ESTIMATED BY ACOUSTIC EMISSION, K Ohno, K Uji, A Ueno Tokyo Metropolitan Univ & M Ohtsu, Kumamoto Univ, Japan
- INNOVATIVE METHOD FOR CRACK MONITORING, J Valença, Prof E Júlio, Prof H Araújo, Univ of Coimbra, Portugal
- EFFECT OF CRACKING ON SURFACE RESISTIVITY MEASUREMENTS IN CONCRETE, AJ Boyd, T Cheung & JA Hartell, McGill Univ, Montreal, QC, Canada
- FREQUENCY REDUCTION OF GPR SIGNALS IN SURFACE CONTACT WITH CONCRETE, IJ Padaratz, Univ Federal de Santa Catarina, Florianópolis, Brazil & A Giannopoulos & MC Forde, Univ of Edinburgh, UK

- Early Age Concrete**
- ULTRASOUND TESTING FOR EARLY AGE QUALITY CONTROL OF CONCRETE, CU Grosse, Univ of Stuttgart, Germany
 - COST EFFECTIVE ALLOCATION OF RESEARCH FUNDS FOR EARLY AGE CONSTRUCTION MATERIALS & TESTING, Dr R Gregory, Georgia Tech, Atlanta, GA, Dr C Demers, Wentworth Inst of Tech, Boston, MA & Dr A Pearce, Virginia Tech, Blacksburg, VA USA
 - TESTING CONCRETE AT EARLY AGE UNDER RESTRAINT CONDITIONS IN A TSTM SYSTEM, A Darquennes, S Staquet & B Espion, Univ Libre de Bruxelles, Belgium
 - EVALUATION OF EARLY-AGE CRACKING AFTER CASTING BY AE, Prof T Watanabe, T Ohno, Prof C Hashimoto, Univ of Tokushima & Prof M Ohtsu, Kumamoto Univ, Japan

CONFERENCE 3/THEME 3: MASONRY, BUILDINGS & CIVIL STRUCTURES

- Buildings**
- INCIDENT MANAGEMENT & FORENSIC INVESTIGATIONS FOLLOWING THE COLLAPSE OF A STRUCTURE, TM Browne, CEI Collins Engineers Ltd, Dublin, Ireland
 - REPAIR OF CONTINUUM PARKING GARAGE, PL Popovic, JP Donnelly, Wiss, Janney, Elstner Associates, Inc, Northbrook, IL, USA
 - JORDANGATE MULTI-STOREY CAR PARK REPAIR USING CATHODIC PROTECTION, R Bentley & C Elins, BASF Construction Chemicals, Redditch, UK
 - HANDBOOK FOR ASSESSMENT OF LARGE PANEL SYSTEM BUILDINGS FOR ACCIDENTAL LOADING, B Reeves & SL Matthews, BRE Ltd., Watford, UK
 - ENLARGEMENT & STRENGTHENING BUILDING OF ACADEMY OF ARTS, NOVI SAD, M Tatimirovic, & Prof R Folic, Univ of Novi Sad, Serbia
 - EVALUATION OF MORE THAN 40 YEARS OLD ADMINISTRATIVE BUILDING IN MUSCAT, JA Solomon, Charles & S Pujari, Tebodin & Partner LLC, Muscat, Sultanate of Oman
 - APPLICATION OF FRP TO STRUCTURES USING TESTED FIRE PROOFING, E R Fyfe, Fyfe Co LLC, San Diego, CA, USA
 - STRUCTURAL CONCRETE REPAIRS TO SOLOMON R. GUGGENHEIM MUSEUM, NEW YORK, EP Meade & NR Hudson, Robert Silman Associates, New York, NY, USA
 - REPAIR AT MODULUNG HALL AFTER FIRE ACCIDENT, Prof S Kisin, Univ of Novi Sad, K Gajic, N Ravic, Konstruktor konsalting d.o.o, Belgrade, Serbia
 - STRUCTURAL BEHAVIOUR OF CANTILEVER STONE STAIRS, D O'Dwyer & O Bashorun, Trinity College Dublin, Ireland
 - EXPTL EVALUATION OF RETROFITTED BUILDING FAÇADE IN RESISTING IMPACT LOADS, Prof M A.N. Abdel-Mooty, The American Univ in Cairo, Egypt
 - REINFORCING SMALL SPORTS HALL'S ROOF STEEL STRUCTURE Dr M Taric, Faculty of Technical Sciences, Kosovska Mitrovica, Serbia
 - REHABILITATION & STRENGTHENING FOR A TOURISM HOTEL, Dr IH El-Kerish, Dr NK Hassan, FF Elnakshabenedy, Suez Canal Univ, Ismailia, Egypt
 - POLYMER GRID R.C. PANELS SUBJECTED TO DIFFERENT IMPACT LOADINGS, M Majeed, AO Abd El. Halim, OB Isgor & E Contestabile, Carleton Univ, Ottawa, Canada

- Civil Structures**
- CONSEQUENCES OF EXTENSIVE CRACKING TO A PRE-CAST CONCRETE BLOCK ON A QUAY WALL, NJR Baldwin & D Cross, Halcrow, Swindon, UK
 - PROCUREMENT & MANAGEMENT OF UNDERWATER REPAIR CONTRACTS, T J. Collins, CEI Collins Engineers, Ltd, Chicago, IL, USA
 - COMPUTER MODELING & SIMULATION OF COMPOSITE "STEEL-CONCRETE" GIRDERS USING EQUIVALENT ELASTICITY MODULES, IM Miličić, Univ of Novi Sad, Subotica, Prof RJ Folic, Univ of Novi Sad, & LM. Vljacić, Inst of Transportation, Belgrade, Serbia
 - CHAMBER OF VALVES IN ARENOSO DAM, Prof C Jurado Cabanes, Poly Univ of Madrid, Spain
 - PERFORMANCE ANALYSIS & CAUSES OF CONCRETE PAVEMENTS IMPERFECTIONS, Dr MS Tughar, Margeb Univ, Garaboli Libya
 - FRP COMPOSITE REPAIR OF VEHICLE IMPACT DAMAGED HIGHWAY SIGN STRUCTURES, C H Williams, Prof KR Mackie & ZB Haber, Univ of Central Florida, Orlando, FL, USA
 - REPAIR TECHNIQUES FOR WHARVES IN TIDAL AREA: MAREO PROJECT, F Aury, Semen – TP, Bouguenais, P Vilvoisin, ETPO, Nantes, F Schoeffs, Nantes Univ & N Menard, Nantes Harbouro Authority, France

- COMBINING NDT TOOLS FOR ANALYZING THE EFFICIENCY OF REPAIR TECHNIQUES OF WHARVES: MAREO PROJECT, F Benmeddour, G Villain, O Abraham, X Derobert, LCPC, Bouguenais, F Schoeffs, S Bonnet, Nantes Univ & F Jacquemot, CERIB, Epemay, France
- PREDICTION OF SERVICE LIFE OF CONCRETE STRUCTURE SUBMITTED TO UNSATURATED SALINE ENVIRONMENT, H Sleiman, O Amiri, A Ait-Mokhtar, J-M Loche, M Tahlati, Univ of La Rochelle, France
- UNDERGROUND STRUCTURES MAINTENANCE STRATEGY BASED ON RELIABILITY PREDICTION, Dr A Shilin, Dr M Zaitsev, Dr A Kirilenko, ZAO "Triada-Holding", Moscow, Russia
- PREVENTION OF ONE LANDSLIDE IN MOTORWAY A-231 IN SPAIN, Prof C Jurado Cabanes, Polytechnic Univ of Madrid, Spain

- NDT**
- INTEGRATED SOLUTIONS IN STRUCTURAL STATE DIAGNOSTICS, Dr A Kirilenko, P Znajchenko, ZAO "Triada-Holding", Moscow, Dr V. Kapustin, "EngStrojlyskanija", Moscow, Russia
 - GPR FOR EVALUATION OF ASPHALT DENSITY, K Maser, M Popik & C Holzschuher, Infrasense Inc, Arlington, MA, USA
 - DETECTION OF LEAKING JOINTS IN WATER RESERVOIRS USING GPR, V Utsi, Utsi Electronics Ltd & Prof A Alani, Univ of Greenwich, UK
 - THICKNESS MEASUREMENT & QUALITY ASSURANCE OF FLOOR SLABS & DIAPHRAGM WALLS, M. Krause, R. Feldmann, M. Frieße, B. Milmann, J. Wostmann, A. Zoega, BAM, Berlin, Germany
 - EVALUATING STRUCTURAL IDENTIFICATION CAPABILITY, JA Goulet, P Kripakaran, IFC Smith, EPFL, Lausanne, Switzerland
 - PREVENTATIVE MAINTENANCE PLANNING INCORPORATING MONITORING & INSPECTION DATA, EA Teatele, T Onufriou & R Votsis, Cyprus Univ of Tech, Cyprus
 - RASCAN HOLOGRAPHIC RADARS FOR NDT OF BUILDINGS & FAÇADES, V Raveziv, S Ivashov, I Vasilyev, & A Zhuravlev, Bauman Moscow State Technical Univ, Russia
 - ESTIMATION OF AXIAL STRESS IN GROUND ANCHORS BY MEANS OF INDIRECT ULTRASONICS, K Kawai, T Shiotani, H Ohtsu, Kyoto University, H Tanaka, Nitto Construction Co Ltd., & H Kawagoe, 3 Just Co., Ltd., Japan
 - DETERMINATION OF EMBEDMENT DEPTH OF TIMBER POLES & PILES USING NDE, AA Zad, J Li, K Crews & B Samali, Univ of Technology Sydney, Australia
 - DYNAMIC TESTING OF WOOD UTILITY POLES, M Riggio, M Piazza, A Polastri, Trento University, Trento, Italy
 - DETECTION & LOCATION OF DAMAGE IN LARGE COMPLEX STEEL STRUCTURES WITH LAMB WAVES, Dr M Haroon, Prof J Peil, S Loppe, TU Braunschweig, Germany
 - EVALUATION OF STIFFNESS & STRENGTH OF A DAMAGED CONCRETE BEAM REPAIRED WITH FRP USING A SIMPLE DYNAMIC APPROACH, J Li, R Sheshta, B Samali & C Nicola, Univ of Technology Sydney, NSW, Australia
 - VIBRATION-BASED DAMAGE IDENTIFICATION OF A 2-STOREY FRAMED STRUCTURE UTILISING FRP & ARTIFICIAL NEURAL NETWORKS, U Dackermann, J Li & B Samali, Univ of Technology Sydney, NSW, Australia
 - TIME-FREQUENCY WAVELET TRANSFORM METHOD FOR UNDERGROUND DEPTH & INTEGRITY OF TIMBER POLES, J Li, B. Samali & K Crews, Univ of Tech Sydney, NSW, Australia

- DESTRUCTIVE & NON-DESTRUCTIVE TESTING OF MECHANICAL PROPERTIES OF HAND-MADE ADOBE BRICKS, R Illampas, I Ioannou, DC Champis, Univ of Cyprus, Nicosia, Cyprus
- CRACKING & DELAMINATION IN STONE PANEL CLADDING USING VERY HIGH FREQUENCY GPR, V Utsi, Utsi Electronics Ltd, Cambridge, UK
- NDE OF TIMBER STRUCTURES USING GPR, Z-M. Sbartai, F. Bos, D. Breyse, Université Bordeaux, France
- GPR FOR DETECTION OF UNDERGROUND WATER LEAKAGE, MA Ismail, Malaysian Nuclear Agency, Selangor, Malaysia
- MONITORING FOR UNDERGROUND STRUCTURES SUBJECT TO DYNAMIC LOADS FROM TRAFFIC, A Baukov, S Pavlov, M Kurgansky, "Triada-Holding", Moscow, Russia
- P-WAVE PROPAGATION IN POROUS CONSTRUCTION MATERIALS, S Yotte, R Ezzidine, D Breyse, Bordeaux Univ, France
- HYBRID STRAIN MONITORING USING 2 DIFFERENT FIBER OPTIC SENSORS, T Tamura, N Kamiakito, Tobishima Corp, & T Shiotani, Kyoto Univ, Japan
- **Conservation of Masonry Heritage Structures**
- AGED BRICKWORK INVESTIGATIONS: 2 CASE STUDIES, Dr G Edgell, CERAM, Stoke-on-Trent, UK
- EXPERIENCE OF LAST 10 YEARS OF BUILT HERITAGE REPAIRS IN SERBIA, Prof N Kurtovic-Folic, Univ of Novi Sad, Serbia
- ASSESSMENT & REPAIR OF TORROJA INSTITUTE WINTER GARDEN, O Rio, J. Mateo, Inst of Construction Sci, E. Torroja-CSIC, Brazil, D Theodosopoulos, C González-Longo, Univ of Edinburgh, UK
- STATIC & DYNAMIC MONITORING OF A MASONRY TOWER, L Binda, C Gentile, A Saisi, C Tiraboschi, Politecnico di Milano, Italy
- SALVATION OF THE TEMPLE HIBIS, EGYPT, P James, Cintec, Newport, UK
- EFFECTS OF CHANGES IN STRUCTURAL SYSTEM ON INCLINATION OF ST. GEORGE BASILICA TOWER, Prof P Fajman, J Máca, P Beran, Czech Technical Univ, Prague, Czech Republic
- STRUCTURAL ANALYSIS OF AN HISTORICAL MASONRY BUILDING IN BENEVENTO, F Ceroni, S Sica, M Pecce, Univ of Sannio, Benevento, Italy
- EXPTL MONITORING OF MOISTURE TRANSFER ACROSS INTERFACES IN BRICK MASONRY Z Pavlik, J Mihulka, J Žumár, R Černý, Czech Technical Univ in Prague, Czech Republic
- IN SITU INVESTIGATIONS & DYNAMIC IDENTIFICATION OF AN HISTORICAL MASONRY BUILDING IN BENEVENTO, F Ceroni, S Sica, M Pecce, Univ of Sannio, Benevento, Italy
- HYGRIC & THERMAL PROPERTIES OF HISTORICAL MASONRY, E Vejmelková, Z Pavlik, L Fiala, M Pavlíková, R Černý, Czech Technical Univ in Prague, Czech Republic
- EXPTL EVALUATION OF STRENGTH OF MASONRY WALLS BEFORE & AFTER REINFORCEMENT, A Borri, Dr G Castori, M Corradi, E Speranzini, Univ of Perugia, A Giannantoni, Servizi di Ingegneria s.r.l., Foligno (PG), Italy
- IMPACT OF SOLAR RADIATION TO DEFORMATIONS OF ST. GEORGE'S BASILICA IN PRAGUE CASTLE, P Beran, J Máca, Czech Technical Univ in Prague, Czech Republic
- STATIC BEHAVIOUR OF A DOUBLE CURVATURE BRICKWORK VAULT: GEOMETRIC SURVEY & MATERIAL INVESTIGATION, P Condoleo, A Gobbo, L Cantini, A Anzani, Poli di Milano, Italy
- STABILISATION OF BAROQUE VAULTS USING PRESTRESSING CABLES, L Klusáček, R Mitrenga, J Strnad, Z Bažant, Brno Univ of Technology, Czech Republic

Day 1 Open Discussion Forum: Bridges at Risk – including Scour

Day 2 Open Discussion Forum: Early Age Concrete + Repair Technologies

Day 3 Open Discussion Forum: Conservation of Masonry

Day 0: Icebreaker – All welcome • Day 1: Awards Ceremony + Civic Reception, 7.00pm–8.00pm – All welcome

FREE EXHIBITION TICKET

Return to: Conference Secretariat, E.C.S. Publications, 46 Cluny Gardens, Edinburgh EH10 6BN, UK
(Telephone: +44-(0)131-447 0447 • Fax: +44-(0)131-452 8596) email: conference@ecspublications.com

Name and title

Organisation

Address

Postcode.....email:.....

Day 2: Optional Conference Dinner at Playfair Library, 7.30pm for 8.00pm

STRUCTURAL FAULTS + REPAIR – 2010

Congress Registration Form

Return to: Congress Secretariat, E.C.S. Publications, 46 Cluny Gardens, Edinburgh EH10 6BN, UK

I/We wish to register as a Delegate at the registration rate of:

REGISTRATION FEE (3-Day) @ £495/person (Includes attendance at Congress Sessions, Morning Coffee, Lunch, Tea, Reception (first evening), and one copy of the Proceedings) £ _____

1-DAY REGISTRATION FEE @ £265/day/person: 15 • 16 • 17 June £ _____

CONGRESS DINNER on the second evening of the Congress – £79 per person (including VAT) £ _____

TOTAL FEE £stg £ _____

Cheques payable in Sterling to *E.C.S. Publications*

Please circle: VISA / MASTERCARD / AMEX

Card Number

Card expiry date / Amount Secure code

Cardholder name and address (BLOCK CAPITALS) Signature:

.....

Delegate's details: Name + title.....

Organisation

Address

Tel.....email