

dbmc

11th International Conference on
Durability of Building Materials and Components



Related Meetings

05–11 May 2008
Istanbul, Turkey

Date	Meeting	Full Day Half Day	Meeting Venue / Hall name
05.05.2008	TC 59 WG Procurement	FD	Dedeman Hotel / Zümürüt
06.05.2008	TC 59 WG Procurement	FD	Dedeman Hotel / Zümürüt
07.05.2008	ISO TC 59 - SC 14 Design Life	FD	Dedeman Hotel / Esen 2
07.05.2008	ISO TC 59 - SC 15 Performance criteria for single family attached and detached dwellings	FD	Taxim Hill Hotel
08.05.2008	ISO TC 59 - SC 13 Organization of information about construction works	FD	Dedeman Hotel / Opal
08.05.2008	ISO TC 59 - SC 14 Design Life	FD	Dedeman Hotel / Esen 2
08.05.2008	ISO TC 59 - SC 17 WG 1,2 Sustainability in building construction	FD	Dedeman Hotel /Esen 1
08.05.2008	ISO TC 59 - SC 15 Performance criteria for single family attached and detached dwellings	FD	Taxim Hill Hotel
09.05.2008	ISO TC 59 - SC 13 WG 8 Organization of information about construction works	FD	Dedeman Hotel / Zümürüt
09.05.2008	ISO TC 59 - SC 14 Design Life	FD	Dedeman Hotel / Esen 2
09.05.2008	ISO TC 59 - SC 15 Performance criteria for single family attached and detached dwellings	FD	Taxim Hill Hotel
10.05.2008	ISO TC 59 Building Construction	FD	Dedeman Hotel / Esen 2
10.05.2008	CIB W086 Building Pathology	FD	Dedeman Hotel / Pınar 1
10.05.2008	CIB W083 Roofing Systems and Materials	FD	Dedeman Hotel / Pınar 2
11.05.2008	CIB W080 Prediction of Service Life of Building Materials and Components	HD	Dedeman Hotel / Pınar 1

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11th International Conference on
Durability of Building Materials and Components



Final Scientific Programme

11-14 May 2008
Istanbul Turkey

Sunday 11 May 2008

18:00-20:00

Welcome Reception

Taşkışla Building

Faculty of Architecture

Istanbul Technical University

Monday 12 May 2008	
08:00-08:30	Registration and move to Ballroom for Opening Plenary Session
08:30-08:45	<p>Opening Plenary Session Welcome by Assoc. Prof. Nil Türkeri 11 DBMC Organising Committee Chair Istanbul Technical University, Turkey</p> <p>Prof.Dr. Erkin Nasuf Vice Rector Istanbul Technical University, Turkey</p>
08:45-09:15	<p>Keynote Address Implementing Durability Knowledge - the Challenge for Research Prof. Dr. Christer Sjöström KTH Research School, Sweden</p>
09:15-09:45	<p>Keynote Address Trends in Roofing Dr. Ralph Paroli National Research Council of Canada, Canada</p>
09:45-10:15	<p>Keynote Address Durability of Cementitious Materials And Multi-Material Systems Prof. Dr. Oral Büyüköztürk Massachusetts Institute of Technology, U.S.A.</p>
10:15-10:30	<p>Keynote Address Developments of Ready Mixed Concrete Industry and Improvements in Durability of Concrete in Turkey Dr. Ayhan Paksoy President of the Turkish Ready Mixed Concrete Association Board</p>
10:30-10:40	<p>Closing remarks Assoc. Prof. Nil Türkeri 11 DBMC Organising Committee Chair Istanbul Technical University, Turkey</p>
10:40-10:50	Coffee Break

Monday 12 May 2008

	T11 Strength and durability of concrete and cement-based materials Session Chair Mehmet Ali Taşdemir Ballroom	T24 Facades and curtain walls Session Chair Michael Lacasse Pinar 3	T12 Wood and wood components Session Chair Christian Brischke Pinar 1	T21 Masonry, tile and stucco Session Chair Vasco Peixoto de Freitas Pinar 2	T41 Service life planning Session Chair Christer Sjoström Esen 1	T32 Climate loads on buildings Session Chair Andreas Holm Esen 2
10:50-11:10	Improvement of durability of RC column by transverse prestressing, Yasuji Shinohara, Japan	Enhanced service life of coated wooden facades, Per Jostein Hovde, Norway	Production of dimensionally stable and decay resistant wood components based on acetylation, Roger Rowel, U.S.A.	The maintenance of colour on finishing coats Pietro Zennaro, Italy	Service life of a building in environmental assessment of buildings, Appu Haapio, Finland	Evaluation of environmental degradation factors for Service Life Prediction, Johann Mc Duling, South Africa
11:10-11:30	Effect of curing age on the durability of high-volume fly ash concrete, Nele De Belie, Belgium	Experimental programme to assess ETICS cladding durability, Riccardo Paolini, Italy	Performance-based specification of wooden components, Christian Brischke, Germany	Evaluation of ceramic tiles frost resistance using frequency inspection method Marta Korenska, Czech Republic	French national service life information platform, Julien Chorier, France	Hail impact resistance of building materials, testing evaluation and classification, Peter Flueler, Switzerland
11:30-11:50	Long-term preserving effect on aggregate-recovery-type completely recyclable concrete, Masaki Tamura, Japan	Defacement of ETICS cladding due to hygrothermal behaviour, Eva Barreira, Portugal	Wood as a structural material, Papatya Seçkin, Turkey	Influence of the mix proportion of mortars and paint formulation on the behaviour of the mortar/coating system in water transport phenomena, Kai Loh Uemoto, Brazil	Homes in Iceland--flexibility and service life fulfilment of functional needs, Björn Marteinson, Iceland	Prediction of atmospheric corrosion rate using an artificial neural network, Gülşah Doğan, Turkey
11:50-12:10	Concrete for durability at Marmaray project, Serap Erdoğan, Turkey	Materials used in transparent facades: an approach towards building maintenance, Geisa Gaiger de Oliveira, Brazil	Hurricane Katrina: an overview of damage to timber structures, Seda Yeşilmen, Turkey	Investigation of Physical and Mechanical Properties of Clay Bounded Plasters Applied on Kerpic Buildings from Diyarbakır, Bilge Işık, Turkey	Information system and interworking for a durable inheritance, Hafida Boulekbache, France	Climatic comparison to analyse different degradation levels in external walls outdoor exposure, Bruno Daniotti, Italy
12:10-12:30	Multidisciplinary collaborations for a qualitative systemization towards a durable structure, Shohre Shahnoori, Netherlands	Minimum required performance level for rendered façades, Pedro Gaspar, Portugal	Modification of wood with Si and B compounds, S. Nami Kartal, Turkey	Mechanical behaviour of non-bearing brick masonry facades Ignacio Oteiza, Spain	Service life estimation using reference service life databases and Enhanced Factor Method, Sonia Lupica Spagnolo, Italy	Climatic data analysis to define accelerated ageing for reference service life evaluation, Bruno Daniotti, Italy
12:30-14:00	Lunch					

Monday 12 May 2008

	T11 Strength and durability of concrete and cement-based materials Session Chair Chun-Qing Li Ballroom	T24 Facades and curtain walls Session Chair Michael Lacasse Pinar 3	T12 Wood and wood components Session Chair Christian Brischke Pinar 1	T22 Roofing materials and systems Session Chair Ed Kane Pinar 2	T41 Service life planning Session Chair Christer Sjoström Esen 1	T33 Heat and moisture transfer in buildings Session Chair Hartwig Kuenzel Esen 2
14:00-14:20	Durability modelling of behaviour of different concrete types as tunnel lining elements, Marijan Skazlic, Croatia	Use of a Peltier element to increase time of wetness of unglazed solar collector specimens in a natural field exposure test, Bojan Stojanovic, Sweden	Preparation method and service condition effects on the performance and durability of epoxy adhesives used in structural timber repairs, João Custódio, Portugal	Durability of highly-insulated timber-frame flat roofs, Christoph Buxbaum, Austria	Feedback system for determination and elimination the effects of durability problems, Gamze Özkaptan Alptekin, Turkey	The impact of the indoor climate on the hygrothermal behaviour and the durability of external components - Standard boundary conditions vs. hygrothermal indoor climate simulation, Andreas Holm, Germany
14:20-14:40	Coarse aggregate mineralogy, size and water content influence on concrete permeability, A. Pereira de Oliveira, Portugal	Durability of external wall insulation systems with extruded polystyrene insulation boards, Holger Merkel, Germany	Fire resistance performance study on the compartment walls in wood platform construction, Hung-Chi Su, Taiwan	Polyolefin roof membranes on site durability evaluation, Sergio Croce, Italy	Factor Method application using factors' grids, Sonia Lupica Spagnolo, Italy	Daily hygroscopic inertia classes: application in a design method for the prevention of mould growth, Nuno M. M. Ramos, Portugal
14:40-15:00	Non destructive test methods for evaluation of concrete: the case study of Punta Perotti (Italy), Vincenza Luprano, Italy	Study on the relation between mockup test and lifecycle of curtain wall construction - case study in Taiwan, Chih-Min Chi, Taiwan	The reduction of water absorption and swelling percentage in fiberboard, Javad Torkaman, Iran	The assessment of durability of discontinuous roofing: an experiment on sandwich panels, Giuseppe Alaimo, Italy	Whole life cycle costing as a decision tool for use in French healthcare facilities, Samer Sliteen, France	Modelling for development of wood rot decay with simultaneous heat and moisture transfer for building envelopes, Hiroaki Saito, Japan
15:00-15:20	A study on the addition of extra water which affects the durability degradation of concrete, Young Je Woo, Korea South	Durability of sandwich panels, Ulger Bulut, Turkey	Durability Of external wood-frame door system: a case study, Fatih Yazicioğlu, Turkey	Roof management program for multiple roof systems, Ron Erdman, U.S.A.	Quantification of façade defects using photogrammetry within the buildings life system, Pedro Vaz Paulo, Portugal	Development and benchmarking of a new hygrothermal model, Fitsum Tariku, Canada
15:20-15:40	Durability of cement mortars with carbon material admixtures, Pedro Garcés, Spain					
15:40-16.00	Coffee Break					

Monday 12 May 2008

	T11 Strength and durability of concrete and cement-based materials Session Chair Chun-Qing Li Ballroom	T11 Strength and durability of concrete and cement-based materials Session Chair Özkan Şengül Pinar 3	T12 Wood and wood components Session Chair Christian Brischke Pinar 1	T22 Roofing materials and systems Session Chair Keith Roberts Pinar 2	T42 Service life prediction methods Session Chair Brian Kyle Esen 1	T33 Heat and moisture transfer in buildings Session Chair Hartwig Kuenzel Esen 2
16:00-16:20	Mechanical and durability properties of concrete with ground waste glass sand, A. Pereira de Oliveira, Portugal	Repair & rehabilitation of initially cracked RCC beams by CFRP, Liaqat Ali Qureshi, Pakistan	Attenuated Total Reflectance (ATR) Fourier Transform Infrared (FTIR) Radiation studies of wood rot decay and mould fungi growth on building materials, Bjørn Petter Jelle, Norway	Development of test method for evaluating root resistance of waterproofing membrane, Kyoji Tanaka, Japan	Service life prediction beyond the 'Factor Method' Johann Mc Duling, South Africa	Simulating water leaks in external walls to check the moisture tolerance of building assemblies in different climates, Hartwig Kunzel, Germany
16:20-16:40	Chloride transport in concrete structures exposed to marine environments considering time dependent characteristics, Ha-Won Song, Korea	Flexural behaviour of steel-concrete composite girder strengthened via fiber reinforced plastic FRP, Abdul Q. Melhem, Syria	Attenuated Total Reflectance (ATR) Fourier Transform Infrared (FTIR) Radiation investigations of natural and accelerated climate aged wood substrates, Bjørn Petter Jelle, Norway	Condensation problems in cool roofs, Christian Bludau, Germany	Evolution of degradation and decay in performance of ETICS Riccardo Paolini, Italy	Predicting the initial rate of water absorption in clay bricks, Mariarosa Raimondo, Italy
16:40-17:00	Effects of cement with mineral additive and without mineral additive on the concrete durability, Hasan Yıldırım, Turkey	Fungal colonization on fiber cement exposed to the elements in a tropical climate, V. M. John, Brazil	The old, wooden window: a balance between romanticism and performance, Ana-Maria Dabija, Romania	Design of mineral fibre durability test based on hygrothermal loads in flat roofs, Daniel Zirkelbach, Germany	A multi-performance approach for service life prediction Julien Hans, France	Influences of the indoor environment on heat, air and moisture conditions in the building component: boundary conditions modelling, Paul Steskens, Denmark
17:00-17:20	Corrosion resistance of GGBS concrete, Anil Doğan, Turkey	Rebound and composition of in-situ polypropylene fibre-reinforced shotcrete, Atef Badr, United Kingdom	The efficiency comparison of polyester, acid catalyzed lacquers and nitrocellulose lacquers on "Fagus orientalis" wood and plywood furniture, Saeed Keshani Langroodi, Iran	A model for determining accelerated ageing cycles in durability research: a case study about continuous roofing, Maurizio Nicoletta, Italy	Timber structures service life modelling Dott. N.E. Montaruli, Netherlands	Influence of thermal properties of materials in condensation and micro organism growth on building facades, Neide M. N. Sato, Brazil
17:20-17:40		Mechanical behaviour of GFRP-confined concrete after exposure to severe conditions, Francesco Micelli, Italy		Durability of clay roofing tiles under salt mist atmosphere, Claudio Cruz, Portugal	Fuzzy lifetime prediction of RC structures subject to chlorides, Simona Sasso, Italy	
17:40-18:15	End of Parallel Sessions and free time until 18.15					
18:15	Departure from Dedeman Hotel to Kabataş Port for Bosporus Cruise					
19:00-23:00	Bosporus Cruise					
23:00	Departure from Kabataş Port					

	Tuesday 13 May 2008
08:45-09:00	Registration and move to Ballroom for Plenary Session
09:00-09:15	Plenary Session Opening remarks and introductions Dr. Jean-Luc Chevalier 11 DBMC Steering Committee Chair
09:15-09:45	Keynote Address Service Life Prediction and its Relevance to CIB's Priority Themes: an Overview Prof. Dr. Wim Bakens CIB - The International Council for Research and Innovation in Building and Construction
09:45-10:15	Keynote Address Time-dependent Reliability Methods and Their Application to Service Life Prediction of Civil Infrastructure Prof. Dr. Chun-Qing Li, University of Greenwich, United Kingdom
10:15-10:30	Closing remarks Dr. Jean-Luc Chevalier 11 DBMC Steering Committee Chair
10:30-10:50	Coffee Break

Tuesday 13 May 2008

	T11 Strength and durability of concrete and cement-based materials Session Chair Christer Sjöström Ballroom	T11 Strength and durability of concrete and cement-based materials Session Chair Özkan Şengül Pinar 3	T15 Natural and artificial stone Session Chair Eric Brandt Pinar 1	T22 Roofing materials and systems Session Chair Kyoji Tanaka Pinar 2	T43 Probabilistic and reliability models Session Chair Chun-Qing Li Esen 1	T71 Pathology surveys and diagnosis tools Session Chair Sergio Croce Esen 2
10:50-11:10	A tool for strength durability modelling of glass fibre reinforced concrete, Petra Van Itterbeeck, Belgium	Modelling of time depended changes of chloride diffusion coefficient, Irina Stipanović Oslaković, Croatia	The Sandstone Conundrum, Edward Gerns, U.S.A.	Designing replacement roof systems to achieve long term service life: a sustainable solution, Thomas W. Hutchinson, U.S.A.	Application of the reliability theory to the assessment of the corrosion risk due to carbonation Thiery Mickael, France	A diagnostic system created for evaluation the quality of building constructions, Attila Koppány, Hungary
11:10-11:30	Durability and mechanical properties of fibre reinforced cement composites exposed to high temperatures, Robert Cerny, Czech Republic	Chloride ion measurement for cement-based materials, Ceki Halmen, U.S.A.	The perception of small scale damage and repairs of natural stone, Wido Quist, Netherlands	The specification and selection of CE marked reinforced bitumen membranes for low sloped roofs to ensure their durability in the UK, Gerry Saunders, United Kingdom	Durability limit states of concrete structures: probabilistic modelling Dita Matesova, Czech Republic	Prioritizing timber defects – a study of Telapak Naning, Malacca, Malaysia, Adi İrfan Che Ani, Malaysia
11:30-11:50	Implementation of durability in the design of glass fibre reinforced concrete structures, Heidi Cuypers, Belgium	Effects of ternary blended binders on chloride diffusivity of concrete, Özkan Şengül, Turkey	Visual effects of building stone texture, Jun Tsuchiya, Japan	Wind tunnel tests of various mechanically anchored waterproofing membranes, Ichikawa Hirokazu, Japan	Critical considerations on the assessment of the durability (serviceability) limit state of reinforced concrete structures Rui Miguel Ferreira, Portugal	Condition assessment of rendering façade through in-situ testing, Jorge de Brito, Portugal
11:50-12:10	Accelerated weathering effects on the mechanical and surface properties of CFRP composites, Saud Aldajah, United Arab Emirates	Chloride threshold determination in prestressing steel beams, Cruz Alonso, Spain	Biofilm effect and microbiological deterioration on the material surface, Sedat Kurugöl, Turkey	Service life (model) for bituminous roofing, Tommy Bunch-Nielsen, Denmark	Development of a Simulation Tool for Insulated Glass Durability, Russell Pylkki, U.S.A	“Comparative” diagnostic: an instrument for durability interventions, Antonella Palgiuca, Italy
12:10-12:30	Analysis of reinforced concrete flexural members strengthened with near-surface mounted CFRP, N. Chikh, Algeria			Refurbishing the roof: possibilities, consequences and policies in building rehabilitation, Ana-Maria Dabija, Romania	Performance-based design for anticorrosion of reinforced concretes under air-borne salt attack Kailin Hsu Victor, Taiwan	
12:30-14:00	Lunch					

Tuesday 13 May 2008						
	T11 Strength and durability of concrete and cement-based materials Session Chair Hulusi Özkul Ballroom	T11 Strength and durability of concrete and cement-based materials Session Chair Yilmaz Akkaya Pinar3	T15 Natural and artificial stone Session Chair Eric Brandt Pinar 1	T22 Roofing materials and systems Session Chair Walter Rossiter Pinar 2	T45 Development of guides, regulations and standards Session Chair Michael Lacasse Esen 1	T71 Pathology surveys and diagnosis tools Session Chair Sergio Croce Esen 2
14:00-14:20	Durability properties of polypropylene fibre reinforced concrete, Hamed Layssi, Iran	Durability properties of high performance concrete containing alternative silicate binders, Eva Mňahončáková, Czech Republic	Determination of water and nitrate transport properties of sandstone used in historical buildings, Zbyšek Pavlík, Czech Republic	Flexible polyolefin roofing membranes: 15 years of field experience, Hans-Rudolf Beer, Switzerland	International Standards on Durability and Sustainability of Construction Works Christer Sjöström, Sweden	Corrosion of rebars embedded in ancient concrete: correlation between on site testing and corrosion products identification, Elisabeth Marie-Victoire, France
14:20-14:40	On durability of fiber reinforced concrete, Emilia Vasanelli, Italy	Durability of the HPC cured in sulphate environment, Rabah Chaid, Algeria	The correlation of electric emissions with stress and strain on stressed rock samples, Ilias Stavrakas, Greece	Performance of silicone water repellent for FRC corrugated roof tiles, Flávio Maranhão, Brazil	A Durability Assessment Tool for the New Zealand Building Code Neil Lee, New Zealand	Pathologies of the industrialized systems: 192 flats built in Avellino (Italy) at Quattrograna West District, Francesco P. R. Marino, Italy
14:40-15:00	Durability of carbon and stainless steel reinforced concrete members in marine environment, Toshihiko Yamamoto, Japan	Fracture toughness of hybrid fiber reinforced high strength concrete under high temperature, Takashi Horiguchi, Japan	Freeze thaw susceptibility of natural stone – characterization of mechanical strength and microstructure during frost cycling, Alenka Mauko, Slovenia	Effects of wet and dry cycles on the performance and microstructure of asbestos-free fibre cement, V.M.John, Brazil	EU-project STAND-INN - Integration of standards for sustainable construction into business processes using IFC standards Svein Haagenrud, Norway	An example of good durability of building systems: survey on 303 flats built in Alvanite district at Atripalda (Avellino, Italy), made in coffrage tunnel and precast sandwich panels for facades, Filiberto Lembo, Italy
15:00-15:20	Performances of palm oil fuel ash cement based aerated concrete in acidic and sulphate environments, M.W.Hussin, Malaysia	Discussing the durability assessment of cement mortars – a contribution for a prediction model, Vasco Peixoto Freitas, Portugal	Vegetable materials in architecture, Dora Francese, Italy	Durability of clay roofing tiles: assessing the reliability of prediction models, Mariarosa Raimondo, Italy	How workmanship should be taken into account in service life planning? Appu Haapio, Finland	Survey of the state of degradation of the school buildings of the Lisbon region, Sónia Raposo, Portugal
15:20-15:40	Deterioration mechanism of reinforced concrete beam corroded by climate environment and galvanostatic method, Yingshu Yuan, China	Prediction of residual stress due to early age behaviour of massive concrete structures: on site experiments and macroscopic modelling, Jihad Zreiki, France			A Review of the European Commission Construction Products Directive Reaction-to-fire and Fire Resistance Classification of Building Materials and Components, Nuri Serteser, Turkey	
15:40-16:00	Coffee Break					

Tuesday 13 May 2008

	T11 Strength and durability of concrete and cement-based materials Session Chair Hulusi Özkul Ballroom	T11 Strength and durability of concrete and cement-based materials Session Chair Yilmaz Akkaya Pinar 3	T14 Building gaskets and sealant products Session Chair Michael Lacasse Pinar 1	T17 Polymer-based building materials and composites Session Chair Kenji Motohashi Pinar 2	T52 Life Cycle Analysis and sustainable and durable design Session Chair Jean-Luc Chevalier Esen 1	T71 Pathology surveys and diagnosis tools Session Chair Sergio Croce Esen 2
16:00-16:20	Concrete crack width under combined reinforcement corrosion and applied loads, Chun-Qing Li, United Kingdom	Durability properties of geopolymer mortars, David Law, Australia	Development of an automated artificial ageing test apparatus for sealants and comparison with outdoor exposure testing, Hiroyuki Miyauchi, Japan	Long-term performance of extruded polystyrene thermal insulation products Merkel Holger, Germany	Towards a framework for durability design & life cycle costing of infrastructure projects O. O. Ugwu, Hong Kong	Durability evaluation of a realisation treatment using impressed current, Yun Yun Tong, France
16:20-16:40	Alternative reinforcement for durable reinforced concrete structures, Marijana Serdar, Croatia	Influence of fibres weight fraction and nature of fibers on thermal and mechanical properties of vegetable fiber/cement composites, Cristel Onesippe, France	Quantification of effect of dynamic movement for weatherability of construction sealants, Noriyoshi Enomoto, Japan	Durability of roof underlays exposed to natural climate Erik Brandt, Denmark	The role of using durable building materials and components in reducing the environmental load of buildings Nilay Çoşkun, Turkey	Artificial stone at the beginning of the XX Century: materials, technologies, decay processes and refurbishment, Albina Sciotti, Italy
16:40-17:00	Analysis of rebar cross sectional area loss by reinforced concrete corrosion, Angela Graeff, Brazil	Durability problems of macro defect free (MDF) cements prepared with polyvinyl alcohol copolymers and alumina cements, Özgür Ekincioglu, Turkey	Acrylic foam structural glazing tapes, Steven Austin, U.S.A.	Polymer-based building materials: effects of quality on durability Esin Kasapoğlu, Turkey	Analysing building construction in time, the abc research matrix Hielkje Zijlstra, the Netherlands	Structural health monitoring of historical buildings using fibre optic sensors, Mariella De Fino, Italy
17:00-17:20	Permeability and porosity as an essential factors in the long-term durability of steel fibres reinforced concrete, Miloud Beddar, Algeria	The characteristics of Boron Modified Active Belite (BAB) Cement and its utilization in mass and conventional concrete, Aydın Sağlık, Turkey		Service life of light weight bathrooms Erik Brandt, Denmark	Life-cycle cost analysis for the residential buildings Esra Bostancıoğlu, Turkey	Energy-based damage measure for reinforced concrete frames, Nilay Çelik, Germany
17:20-17:40	Corrosion detection of embedded steel in concrete, Mohammad Ismail, Malaysia	Effect of cement type on the resistance of concrete against rapid chloride permeability, Hasan Yıldırım, Turkey				
17.40	End of Parallel Sessions Free Night					

Wednesday 14 May 2008						
	T11 Strength and durability of concrete and cement-based materials Session Chair Vasco Peixoto de Freitas Ballroom	T11 Strength and durability of concrete and cement-based materials Session Chair Mohamed Chemrouk Pinar 3	T16 Surface coatings and paints Session Chair Per Jostein Hovde Pinar 1	T25 Preservation and refurbishment of historical buildings Session Chair Kribanandan Gurusamy Naidu Pinar 2	T51 Service life and sustainable design methods and technologies Session Chair Wolfram Trinius Esen 1	T72 Maintenance planning and procedure Session Chair Vanderley M. John Esen 2
09:10-09:30	Effects of landfill leachate on the properties of self-levelling cement mortars, Francesco Colangelo, Italy	Selection of the mix constituents to produce a highly performing and durable concrete material, Mohamed Chemrouk, Algeria	Durability evaluation of newly developed water-based paint systems for buildings, Kenji Motohashi, Japan	Decay diagnosis of goan laterite stone monument, Sutapa Das, Singapore	Life cycle management tool for buildings Erkki Vesikari, Finland	Optimization of the building maintenance management process using a Markovian Model, Michael Lacasse, Canada
09:30-09:50	Effect of the Type of supplementary materials and viscosity enhancing admixture on the durability of self-compacting concrete, Mohammed Sonebi, United Kingdom	The Sand Concrete: A very little cracked material, Benaissa Abdelatif, Algeria	Effect of anti-graffiti coatings on the drying behaviour of building materials, Barbara Lubelli, Netherlands	Classification of restoration mortars by Principal Component Analysis and correlation between their properties and synthesis, Antonia Moropoulou, Greece	Simulated long-term thermal performance of a building that utilizes a heat pump system and bore hole Jan Akander, Sweden	Life cycle management system – a planning tool supporting long-term based design and maintenance planning, Daniel Hallberg, Sweden
09:50-10:10	Easy evaluation method of self-compactability of self-compacting concrete, Masanori Maruoka, Japan	Cement industry and concrete technology in Algeria: current practices and future challenges, Said Kenai, Algeria	Durability of surface protection systems in harsh marine climates, Claus K. Larsen, Norway	The assessment of roof drainage system of an historical Turkish Bath: a case study: Sengul Hammam, Gülşen Dişli, Turkey	Durability in technology design Jacopo Gaspari, Italy	Condition assessment of a 63-year old reinforced concrete structure exposed to the North Sea, Chun-Qing Li, United Kingdom
10:10-10:30		Seismic rehabilitation of an ancient masonry in fill steel frame building, Nouredine Bourahla, Algeria	Outdoor wall painting semi-natural test, Alberto Giacardi, Italy	Durability properties of innovative plasters for renovation of historical buildings, Radka Pernicová, Czech Republic	Measuring economical risk in life cycle management Fulvio Re Cecconi, Italy	Optimal maintenance plan by minimizing life-cycle cost including deterioration risk, optimal maintenance plan by minimizing life-cycle cost including deterioration risk, Chiu Chien Kuo, Japan
10:30-10:50	Coffee Break					

Wednesday 14 May 2008						
	T11 Strength and durability of concrete and cement-based materials Session Chair Vasco Peixoto de Freitas Ballroom	T11 Strength and durability of concrete and cement-based materials Session Chair Hasan Yildirim Pinar 3	T18 Innovative materials and products for durability Session Chair Bruno Daniotti Pinar 1	T25 Preservation and refurbishment of historical buildings Session Chair Kribanandan Gurusamy Naidu Pinar 2	T51 Service life and sustainable design methods and technologies Session Chair Wolfram Trinius Esen 1	T72 Maintenance planning and procedure Session Chair Vanderley M. John Esen 2
10:50-11:10	Carbonation in concrete with high fly ash content and hydrated lime, Maria Alba Cincotto, Brazil	Testing of concrete specimens by means of non-linear ultrasonic spectroscopy, Marta Korenska, Czech Republic	Properties of concrete with shredded waste tyres Soofia Tahira Elias-Ozkan, Turkey	Decision making about cleaning interventions on marble surfaces using a fuzzy logic approach, Antonia Moropoulou, Greece	Service life and sustainable design methods: A case study Johann Mc Duling, South Africa	A structural condition assessment; environmental agents versus structural failures the case of Ataturk Culture Center AKM, İstanbul, Türkiye, Kemal Çayırılı, Turkey
11:10-11:30	Frost resistance of pervious concrete with different freezing and thawing tests, Takuro Nakamura, Japan	Prediction of elastic properties of concrete using the virtual cement and concrete testing laboratory, Sinan Turhan Erdoğan, Turkey	Oriented straw cable composites for housing applications Seda Yeşilmen, U.S.A.	The restoration and upgrading of the 100 year old Victoria Institution: the adaptive reuse of a school into an Auditorium, Kribanandan Gurusamy Naidu, Malaysia	Smart-ECO – developing a construction sector vision and related requirements for sustainable eco-buildings, Wolfram Trinius, Germany	FMECA and management of building components, Julien Hans, France
11:30-11:50	Behaviour of four repair materials under accelerated testing of carbonation and chloride penetration, Anil Doğan, Turkey	Effect of high temperature on mechanical and microstructural properties of cement mortar, Özge Andıç Çakır, Turkey	Experimental study of geopolymer concrete resistance to sulphuric acid attack Robert Munn, Australia	Technological features and decay processes of a “new” building type at beginning of XX century, Fabio Fatiguso, Italy	The importance of LCA and service life prediction in sustainable design Aysem Berrin Çakmaklı, Turkey	Quantifying maintainability parameters for vertical transport system, Sutapa Das, Singapore
11:50-12:10	Concrete mix proportions with ultra-high electrical resistivity, Amir Hajibabae, Iran	Microstructural Assessment of the Interfacial Transition Zone in Granitic Concrete, Azimah Hussin, Malaysia	Physical and mechanical properties of rubberized concretes Albéria Albuquerque, Brazil		Technological characterization of the envelope in multi purpose high rise buildings Dario Trabucco, Italy	Deterioration of reinforced concrete buildings and rehabilitation process, Özlem Aydın, Turkey
12:10-12:30		Effect of fire on microstructure and mechanical properties of blended cement pastes containing metakaolin and silica fume, Alaa M. Rashad, Egypt	Strength of cement mortars with carbon material admixtures, Luis Garcia Andion, Spain			A GIS-Based Framework for the Evaluation of Building Façade Performance and Maintenance Prioritization, Brian Kyle, Canada
12:30-14:00	Lunch					

Wednesday 14 May 2008						
	T11 Strength and durability of concrete and cement-based materials Session Chair Hulusi Özkul Ballroom	T11 Strength and durability of concrete and cement-based materials Session Chair Yilmaz Akkaya Pinar 3	T18 Innovative materials and products for durability Session Chair Bruno Daniotti Pinar 1	T25 Preservation and refurbishment of historical buildings Session Chair Kribanandan Gurusamy Naidu Pinar 2		T72 Maintenance planning and procedure Session Chair Vanderley M. John Esen 2
14:00-14:20	Critical evaluation of the definition of "sulfate-resistance" a focus on the flexural strength performance of SR cements, Pinar Akpınar, Turkey	Development of autoclaved lightweight concrete outer walls and its freeze-thaw resistance, Taku Sanda, Japan	Durability of mortars prepared with innovative eco-compatible binders Raffaele Cioffi, Italy	The durability of materials and treatments for the operation on the external curtains of the historical buildings, Rosa Caponetto, Italy		A methodology for protection of masonries against rising damp, Maria Karoglou, Greece
14:20-14:40	Deterioration of cement hydrates containing mineral admixtures due to sulfuric acid attack, Kenji Kawai, Japan	Durability of autoclaved aerated concrete, Berit Straube, Germany	Polarization behavior of carbon fiber as an anodic material in cathodic protection Mahdi Chini, Norway	Issues in the identification and monitoring of historical structures – monuments, Yasemin Didem Aktas, Turkey		Facility management in stratified housing: satisfaction survey in Malaysia, Adi Irfan Che Ani, Malaysia
14:40-15:00	Durability of metakaolin based cement mortar to chloride attack under wet – dry and freeze – thaw exposure, Shweta Goyal, India	Monitoring moisture content in autoclaved aerated concrete as a mean to achieve higher durability, Lukáš Fiala, Czech Republic	Ultra-high strength concrete using limestone powder Kazuo Yamada, Japan			Service Life Prediction Tools for buildings' design and management, Bruno Daniotti, Italy
15:00-15:20		The Use of Maturity Method in Estimating Early Concrete Strength, Esraa Emam, Egypt	Heat transfer in the thermo-efficient BIPSE bricks, Yuri Totoyev, Australia			
15:20-15:40						
15:40-16:00	Coffee Break					

	Wednesday 14 May 2008
16:00-16:10	Closing Plenary Session Opening remarks and introductions Dr. Michael Lacasse 11 DBMC Scientific Committee Chair Ballroom
16:10-16:25	<i>Theme 1 Durability of Cementitious Materials</i> Prof. Dr. Mehmet Ali Taşdemir
16:25-16:35	<i>Theme 1 Durability of Non-cementitious Materials</i> Dr. Michael Lacasse
16:35-16:50	<i>Theme 2 Durability of Systems and Components in Buildings</i> Dr. Ralph Paroli
16:50-17:00	<i>Theme 3 Response of Building Elements to Environmental Loads</i> Prof. Dr. Hartwig Kuenzel
17:00-17:10	<i>Theme 4 Service Life Prediction & Planning Methodologies, Risk Analysis Approaches</i> Prof. Dr. Christer Sjöström
17:10-17:20	<i>Theme 5 Durability and Sustainable Buildings</i> Dr. Jean-Luc Chevalier
17:20-17:30	<i>Theme 7 Building Maintenance and Pathology</i> Prof. Dr. Vanderley M. John
17:30-17:40	Closing remarks Dr. Michael Lacasse 11 DBMC Scientific Committee Chair
17:40-19:00	Free time until 19:00
19:00	Departure from Dedeman Hotel to The Marmara Esmâ Sultan for Gala Dinner
20:00-23:30	Gala Dinner The Marmara Esmâ Sultan