

**Coventry University and
The University of Wisconsin Milwaukee Centre for By-products Utilization.**

**International Conference:
Sustainable Construction Materials and Technologies.**

Coventry UK on 11-13 June 2007

Conference Programme

Monday 11 June at 9.30 to 10.30		
Chairperson	OPENING PLENARY SESSION	Goldstein Lecture Room. On Monday 11 June at 9.30 to 10.30
<i>Proceedings Volume</i>	<i>Authors</i>	<i>Paper Title</i>
Main	Koji Sakai	Contributions from Concrete Industry towards Sustainable Development.
Main	P. Claisse, E. Ganjian & H. Sadeghi-Pouya	Site trials of concrete with a very low carbon footprint
Main	Tarun R. Naik	Sustainability of the cement and concrete industries

Monday 11 June at 11.00 to 12.30

Chairperson	Jitendra Desai, Gujarat Ambuja Cements	George Elliot Lecture Room. On Monday 11 June at 11.00 to 12.30
<i>Proceedings Volume</i>	<i>Authors</i>	<i>Paper Title</i>
Special	T. Parhizkar, A.M. Raiss Ghasemi & A.A. Ramezani pour	Properties of the new type of HPC in simulated conditions of Persian Gulf
Main	Manish Mokal	Achieving sustainable construction through use of fly ash in concrete – An Indian experience
Main	Bruce W. Ramme, Thomas Jansen, Al Tawil & Daniel B. Anderson	“Eco-Pad” In-Situ mixed concrete pavement with a 93 - 100% total recycled content
Chairperson	The Nottingham Transportation Engineering Centre Session Nizar Ghazireh, Scott Wilson	Goldstein Lecture Room. On Monday 11 June at 11.00 to 12.30
<i>Proceedings Volume</i>	<i>Authors</i>	<i>Paper Title</i>
Special	I. Carswell & J. C. Nicholls, R. C. Elliott, J. Harris, A. D. Self	Feasibility of recycling surfacing materials back into thin surfacing systems
Special	R. Hooper, T. Kagga, J. Brown, P. Edwards & A. Dawson	The use of post-consumer tyres in public rights of way construction
Special	P. Jitarekul, S. Sunarjono, S.E. Zoorob & N.H. Thom	Early life performance of cement and foamed bitumen stabilised reclaimed asphalt pavement under simulated trafficking
Special	M.H Mohammed, G. Airey, A. Collop, T. Parry & C. Hayes	Synthesis of asphalt binders from renewable resources and their rheological properties
Special	I. Widyatmoko, A. Dunster & F. Moulinier	Performance & benefits from using waste plastic-based aggregate in asphalts

Chairperson	Tarun Naik, University of Wisconsin-Milwaukee	Hilman Lecture Room. On Monday 11 June at 11.00 to 12.30
<i>Proceedings Volume</i>	<i>Authors</i>	<i>Paper Title</i>
Main	C. H. Ng, Z. Ideris, S.P. Narayanan, M.A. Mannan & V.J. Kurian	Engineering properties of oil palm shell (ops) hybrid concrete for lightweight precast floor slab
Main	F. Tittarelli & G. Moriconi	Effect of GRP industrial waste on durability of cement mortars
memory stick	Saud Al-Otaibi, Moetaz El-Hawary & Ali Abdul-Jaleel	Producing lime-silica bricks from crushed concrete fines
memory stick	R. E. Rodríguez Camacho, R. Uribe Afif, H. J. Montaña Roman & A. Ponce Cordova	Alkali-silica reaction of recycled glass for using as concrete aggregate
Chairperson	Julia Stegemann, University College London	Humber Lecture Room. On Monday 11 June at 11.00 to 12.30
<i>Proceedings Volume</i>	<i>Authors</i>	<i>Paper Title</i>
Main	M.U. Christiansen & Carol Diggelman	An analysis of environmental and fiscal impacts of recycling during Kern Center construction
Main	Christian Meyer	The economics of recycling in the US construction industry
Main	G.C. Plunk P.E. & D.C. Goss	Impact of regulations on fly ash marketing in the United States
Supplementary	K. Kovler	Radiological constraints of using industrial by-products in construction
Supplementary	Eddy Smith, William E. Boone & Mamar Shami	Sustainable approaches to landfill diversion: the global sustainability of deconstruction

Monday 11 June at 14.00 to 15.30

Chairperson	Rudi Kraus, University of Wisconsin-Milwaukee	George Elliot Lecture Room. On Monday 11 June at 14.00 to 15.30
<i>Proceedings Volume</i>	<i>Authors</i>	<i>Paper Title</i>
Main	K. Sasaki, M. Ishii, Y. Butou & K. Yuno	Properties of shotcrete with highly functional fly ash used as dust-reducing agent
Main	L.K, A. Sear	The use of fly ash for enhancing durability and sustainability
Main	Taeseok Seo, Yoshiteru Ohno & Takao Nakagawa	Cracking Behavior of Concrete Containing Fly Ash Due to Drying Shrinkage
Main	Tamara F. Vandivort & Paul Ziemkiewicz	Potential uses for coal combustion by-products for sustainable construction materials
Chairperson	Session in honour of Professor Giacomo Moriconi Mario Collepardi, Enco, Engineering Concrete	Goldstein Lecture Room. On Monday 11 June at 14.00 to 15.30
<i>Proceedings Volume</i>	<i>Authors</i>	<i>Paper Title</i>
Special	T. W. Bremner, J. P. Ries & W. H. Wolfe	Achieving sustainability with lightweight aggregates
Special	M. Collepardi, S. Collepardi & R. Troli	Properties of SCC and flowing concrete
Special	S.B. Desai	Towards a safe and sustainable concrete solution
Special	Y.-m. Chun, T.R. Naik, & R.N. Kraus	Carbon dioxide sequestration in concrete in different curing environments

Chairperson	Alejandro Duran-Herrera, Univ Autonoma De Nuevo Leon Monterrey	Hilman Lecture Room. On Monday 11 June at 14.00 to 15.30
<i>Proceedings Volume</i>	<i>Authors</i>	<i>Paper Title</i>
Main	V. Corinaldesi, S. Monosi & G. Moriconi	Effect of different recycled aggregates on mortar performance
Main	Salomon Levy & Paulo Helene	Durability of concrete mixed with fine recycled aggregates
Main	S. R. Sarhat	An experimental investigation on the viability of using fine concrete recycled aggregate in concrete production
Supplementary	N. García, R. Irusta, Y. Núñez & A. Moral	Environmental performance of waste based construction materials. LCA study
Supplementary	R. Kishore	Influence of recycled aggregate on flexural behaviour of reinforced concrete beams
memory stick	G. Fathifazl, A. Abbas, A.G. Razaqpur, O.B. Isgor, B. Fournier, S. Foo	Proposed Mixture Proportioning Procedure for Recycled Aggregate Concrete
Chairperson	Christian Meyer, Columbia University	Humber Lecture Room. On Monday 11 June at 14.00 to 15.30
<i>Proceedings Volume</i>	<i>Authors</i>	<i>Paper Title</i>
Main	S. Botic & C. Diggelman	Quantifying VOCs in products off-gassed during the construction of MSOE's Kern Center and proposed strategies for reducing employee exposure
Main	B.K.C. Chan & A.W.L. Dudeney	Biostore: towards sustainable composite waste reuse
Main	J.E. Maher & K.W. Kramer	LEED-NC version 2.2 rating system applications of common structural materials
Main	T.R. Napier, D.T. McKay & N.D. Mowry	A life cycle perspective on recycling construction materials (The most sustainable materials may be the ones we already have.)

Tuesday 12 June at 9.00 to 10.30

Chairperson	Ted Bremner, University of New Brunswick Canada	George Elliot Lecture Room. On Tuesday 12 June at 9.00 to 10.30
<i>Proceedings Volume</i>	<i>Authors</i>	<i>Paper Title</i>
Main	G.M. Cann, P.A. Claisse & J.P. Lorimer	Production of gypsum products from waste battery acid
Main	Seema Karami, Rosemary Greaves, Peter Claisse, Essie Ganjian & Homayoun Sadeghi Pouya	Use of waste gypsum as construction low strength materials
Supplementary	K. Cox & N. De Belie	Durability behavior of high-volume fly ash concrete
Supplementary	Jitendra P. Desai	High volume fly ash concrete technology & its applications - Indian Scenario
memory stick	P.Srinivasan	High volume fly ash concrete, an alternative to normal cement concrete
Chairperson	Session in honour of Professor Jean Pera Gabrielle Fava, Universita Politecnica delle Marche	Goldstein Lecture Room. On Tuesday 12 June at 9.00 to 10.30
<i>Proceedings Volume</i>	<i>Authors</i>	<i>Paper Title</i>
Special	Y.-m. Chun, T.R. Naik, & R.N. Kraus	Pulp and paper mill fibrous residuals in excavatable flowable fill
Special	M. Collepardi, S. Collepardi & R. Troli	Practical applications of SCC in European works
Special	K.J. Owens, P.A.M. Basheer & B. Sen Gupta	Utilisation of carbon dioxide from flue gases to improve physical and microstructural properties of cement and concrete systems

Chairperson	Brian Green, US Army Engineer Research & Development Center	Hilman Lecture Room. On Tuesday 12 June at 9.00 to 10.30
<i>Proceedings Volume</i>	<i>Authors</i>	<i>Paper Title</i>
Main	V. Corinaldesi & G. Moriconi	Recycling of concrete in precast concrete production
Main	N. Morohashi & T. Sakurada	Researching recycled aggregate structural concrete for buildings
Main	E. Mulder, L. Feenstra & T.P.R. de Jong	Closed cycle construction – A process for the separation and reuse of the total C&D waste stream
Main	K. Tang, M.N. Soutsos & S.G. Millard	Concrete paving products made with recycled demolition aggregates
memory stick	A. Abbas, G. Fathifazl & O.B. Isgor, A.G. Razaqpur, B. Fournier, S. Foo	Qualification of Recycled Concrete Aggregates for use in Structural-Grade Concrete
Chairperson	Peter Claisse, Coventry University	Humber Lecture Room. On Tuesday 12 June at 9.00 to 10.30
<i>Proceedings Volume</i>	<i>Authors</i>	<i>Paper Title</i>
Main	Heven Abdul-Jabbar, Hafid Al-Daffaee, Peter Claisse & Phill Lorimer.	Ultrasound assisted crystallisation of synthetic gypsum from used battery acid
Main	Henry E Cardenas & Pradeep Paturi	Reactive electrokinetic treatment for freeze-thaw damage recovery and prevention deep within limestone
Main	S.B. Emery, D.N. Smith, S. Johannson & J. Cope	Demonstrating how plasterboard can be collected more efficiently on construction and demolition sites in the UK
Main	S. N. Mclean, A. Williams & D.R. Moore	Opportunities for wealth generation through small scale sustainable building materials production
Main	Mehmet Ali Yurdusev, Ahmet Ali Kumanlıoğlu, Yüksel Abalı, M. Sadrettin Zeybek & Fethullah Canpolat	Extending experimental data to investigate phosphogypsum use in light brick by Artificial Neural Networks

Tuesday 12 June at 11.00 to 12.30

Chairperson	Kenji Sakata, Okayama University JAPAN	George Elliot Lecture Room. On Tuesday 12 June at 11.00 to 12.30
<i>Proceedings Volume</i>	<i>Authors</i>	<i>Paper Title</i>
Main	N.G. Maldonado & P. Helene	The importance of mixture proportioning in sustainable construction
Main	Vít Petranek, Gabriela Michalcova, Pavla Matulova	Research and development of new building materials on the bases of industrial waste materials in the field of rehabilitation of concrete structures.
Main	H. Sadeghi Pouya, E. Ganjian, P. Claisse & S. Karami	Development of novel cementitious binders using plasterboard waste and pozzolanic materials for road bases
Main	Waliur Rahman, Gurmel Ghataora & D. N. Chapman	Investigation into the use of cement stabilised gypsum waste as a backfill material.
memory stick	M. Maslehuddin	Performance of blended cement concretes under hot, arid, and severe environments
Chairperson	Session in honour of Professor Ali Ramezani pour Chris Cheeseman, Imperial College London	Goldstein Lecture Room. On Tuesday 12 June at 11.00 to 12.30
<i>Proceedings Volume</i>	<i>Authors</i>	<i>Paper Title</i>
Special	P. Ghoddousi, A. M. Raiss ghasemi ,T. Parhizkar	The effect of Concrete Quality on Performance of Surface Treatment materials
Special	A.A. Maghsoudi & S. Mohamad pour	Effect of nanoscale materials in engineering properties of SCLWC
Special	Faramarz Moodi	Integration of reusable knowledge and expertise in condition assessment of concrete structures

Special	A. Sadr Momtazi, M. M. Ranjbar, F. Balalaei & R. Nemati	The effect of Iran's metakaolin in enhancing the concrete compressive strength
Special	M.Khorami , E. Ganjian & A.Vafaii	Mechanical properties of concrete with waste tire rubbers as coarse aggregates
memory stick	Mohammad Hassan Sebt	Production And Testing of A Cement Fabricated From Waste Product
Chairperson	Bruce Ramme, WE Energies	Hilman Lecture Room. On Tuesday 12 June at 11.00 to 12.30
<i>Proceedings Volume</i>	<i>Authors</i>	<i>Paper Title</i>
Main	P.N. Quiroga & D.W. Fowler	Portland cement concrete using high levels of microfines
Main	J. Katzer	Employment of waste sand to compose fibre reinforced cement composites
Main	W.Y. Kuo, J.S. Huang, T.E. Tan & C.Y. Chou	Utilization of organo-modified reservoir sludge as fine aggregates in cement mortars
Main	R. Lupo, M. Tyrer, C. R. Cheeseman & S. Donatello	Manufactured aggregate from waste materials
Main	G. Skripkiūnas, A. Grinys & M. Daukšys	Using tires rubber waste for modification of concrete properties
Chairperson	Konstantin Kovler, Israel Institute of Technology, Haifa	Humber Lecture Room. On Tuesday 12 June at 11.00 to 12.30
<i>Proceedings Volume</i>	<i>Authors</i>	<i>Paper Title</i>
Main	S.W. Carley, A.S. O'Brien, F.A. Loveridge & Y.S. Hsu	Innovative use of clay backfill at the new Wembley Stadium, UK
Main	O. Cizer, K. Van Balen, D. Van Gemert & J. Elsen	Carbonation and hydration of mortars with calcium hydroxide and calcium silicate binders
Main	M.R.Q. Silva & T.R. Naik	Review of composting and anaerobic digestion of municipal solid waste and a methodological proposal for a mid-size city
Supplementary	C.G.March	The selection of healthy and environmental responsible materials

Tuesday 12 June at 14.00 to 15.30

Chairperson	Nemy Banthia, University of British Columbia	George Elliot Lecture Room. On Tuesday 12 June at 14.00 to 15.30
<i>Proceedings Volume</i>	<i>Authors</i>	<i>Paper Title</i>
Main	D. M. Vruno	Establishing optimum mixture proportions for concrete durability using recyclable by-products
Main	Xinwei Ma, Yiming Gong & Xiaohong Gong	Properties of calcium enriched fly ash and its utilization in concrete
Main	Jaekang Yoo, Sangjoon Park & Bohwan Oh	Effects of cement and mineral admixture on migration of chloride ions and generation of hydration heat in concrete
memory stick	M. Maslehuddin, O.S.B. Al-Amoudi, M.K. Rahman, M. R. Ali & M.S. Barry	Properties of concrete incorporating cement kiln dust
memory stick	Feng-qing Zhao, Wen Ni, Hui-jun Wang & Hong-jie Liu	Preparation of modified high carbon content fly ash/granulated blast furnace slag cementing materials
Chairperson	Session in honour of Dr Kenji Sakata (part 1) Shigeyoshi Nagataki, Aichi Institute of Technology	Goldstein Lecture Room. On Tuesday 12 June at 14.00 to 15.30
<i>Proceedings Volume</i>	<i>Authors</i>	<i>Paper Title</i>
Special	Y. Dosho	Development of a sustainable concrete waste recycling system: Application of recycled aggregate concrete produced by aggregate replacing method
Special	K. Imamoto, M. Yoshiba & F. Iso	Environment-conscious building materials comprising pulverized plaster board, fly ash and ground granulated blast-furnace slag
Special	K. Kawai & A. Fujiki	A case study on environmental impact assessment of precast concrete products with a revegetation function
Special	K. Kobayashi	An experimental study on the deterioration of surface coating on steel structure

Chairperson	Giacomo Moriconi, Universita Politecnica delle Marche	Hilman Lecture Room. On Tuesday 12 June at 14.00 to 15.30
<i>Proceedings Volume</i>	<i>Authors</i>	<i>Paper Title</i>
Main	E. Farahi, P. Purnell & N R Short	Advanced calcareous ceramics via novel green processing and supercritical carbonation.
Main	T. Noguchi & S. Fujimoto	Evaluation and minimization of life cycle environmental risk of concrete structures
Main	S. J. Shaw, C.L. Page, A.R. Brough, J.P. Forth, M.M. Page, T.R. Jones & M. Carsana	Supercritical carbonation of Casamic
Supplementary	A. Katsanos, S.O. Nwaubani & M. Mulheron	"Green", non-corrosive de-icers: A remedy for concrete bridge corrosion, but can they harm the paste?
No paper	Panagiotis Koulouris, Sunny Nwaubani, Mike Mulheron, Athanasios Routoulas	Non-Destructive Monitoring Of The Corrosion Of Reinforcing Steel With The Use Of Strain Gauges.
Chairperson	Thomas Napier, US Army Corps of Engineers	Humber Lecture Room. On Tuesday 12 June at 14.00 to 15.30
<i>Proceedings Volume</i>	<i>Authors</i>	<i>Paper Title</i>
Main	K. A. Coventry & J. Griffiths	A rationale for the production of Devon Cob to ensure performance
Main	Waliur Rahman, Richard Freer-Hewish & Gurmel Ghataora	Title: Investigation into the use of cement stabilised sand and silty sand in road pavement construction in Bangladesh.
Main	T. Yoshida & Y. Kitamoto	Mixture proportioning and strength prediction technique for soil mortar made using soil generated at construction sites

Tuesday 12 June at 16.00 to 17.30

Chairperson	Min-Hong Zhang, National University of Singapore	George Elliot Lecture Room. On Tuesday 12 June at 16.00 to 17.30
<i>Proceedings Volume</i>	<i>Authors</i>	<i>Paper Title</i>
Main	J. Bydžovský & F. Khestl	Hemp as a filler of cement-bonded particleboards
Main	Majid Ghiafeh Davoodi, Hamid Nikraz & Evan Jamieson	Chemical and physical characterization of coarse cauxite residue (Red Sand) for concrete making
Main	T.K. Erdem, Ç. Meral, M. Tokyay & T.Y. Erdoğan	Effect of ground perlite incorporation on the performance of blended cements
Main	N. Vlasopoulos & C. Cheeseman	Use of Magnesium Oxide-Cement binders for the production of blocks with lightweight aggregates
memory stick	N. Neithalath	Behavior of cement pastes modified with a coarse non-reactive filler
Chairperson	Session in honour of Dr Kenji Sakata (part 2) Shigeyoshi Nagataki, Aichi Institute of Technology	Goldstein Lecture Room. On Tuesday 12 June at 16.00 to 17.30
<i>Proceedings Volume</i>	<i>Authors</i>	<i>Paper Title</i>
Special	R N. Kraus, T R. Naik, Y-m Chun	Use of Industrial By-Products in Sustainable Construction Practice
Special	I. Papayianni & E. Anastasiou	Use of cementitious materials for the production of concrete
Special	T. Sugiyama, S. Takahashi, M. Honda & E. Sakai	Current state of the JSCE standard on test method for leaching of trace elements from hardened concrete

Chairperson	Koji Sakai, Kagawa University	Hilman Lecture Room. On Tuesday 12 June at 16.00 to 17.30
<i>Proceedings Volume</i>	<i>Authors</i>	<i>Paper Title</i>
Main	B.V.Bhayani, T.M.Holsen & N.Neithalath	Investigations on the efficiency of enhanced porosity concrete in containing vehicular oil spills
Main	W. De Muynck, K. Cox, N. De Belie & W. Verstraete	Bacterial carbonate precipitation reduces the permeability of cementitious materials
Main	M. Marroccoli, M. Nobili, A. Telesca & G. L. Valenti	Early hydration of calcium sulfoaluminate-based cements for structural applications
Main	T. Suginoe & H. Seki	Change of concrete properties due to impressed current of cathodic protection
Main	L.J. Vandeperre, M. Liska & A. Al-Tabbaa	Reactive magnesium oxide cements: properties and applications
Supplementary	Y. Shirokado & M. Kagaya	Experimental studies on effect of atmospheric temperature reduction due to water evaporation of porous concrete used lapilli
Chairperson	Tony Parry, University of Nottingham NTEC	Humber Lecture Room. On Tuesday 12 June at 16.00 to 17.30
<i>Proceedings Volume</i>	<i>Authors</i>	<i>Paper Title</i>
Main	S. Vardy & C. MacDougall	Compressive response of plastered straw bale wall panels
Supplementary	C G Sullivan, A de Bondt & Rob Jansen & Henk Verweijmeren	Energy from asphalt pavements
No paper	Keith Rudd	CIS Chief Office Service Tower Recladding With Photovoltaics – Case Study
memory stick	M.J. Singleton, J.A. Hutchinson	Startlink Pultruded Composite Construction

Wednesday 13 June at 9.00 to 10.30

Chairperson	Sidney Mindess, University of British Columbia	George Elliot Lecture Room. On Wednesday 13 June at 9.00 to 10.30
<i>Proceedings Volume</i>	<i>Authors</i>	<i>Paper Title</i>
Main	D. Bondar, C. J. Lynsdale, A. A. Ramezani pour & N. B. Milestone	Alkali-activation of natural pozzolan for geopolymer cement production
Main	Gabriele Fava, Maria Letizia RUELLO & Daniela SANI	Leaching behavior and environmental impact of concrete manufactured with biomass ashes
Main	H.Fujiwara, M. Maruoka, K.Koibuchi & K.Fujita	The application of paper sludge ash to extremely stiff consistency concrete product
Main	R.M. Salem, E.G. Burdette & J. H. Deatherage	Development of an optimal high-performance concrete mixture for tennessee bridge decks
Chairperson	Session in honour of Professor Nemkumar Banthia (part 1) Gurmel Ghataora, University of Birmingham	Goldstein Lecture Room. On Wednesday 13 June at 9.00 to 10.30
<i>Proceedings Volume</i>	<i>Authors</i>	<i>Paper Title</i>
Special	Vivek Bindiganavile & Nemkumar Banthia	Parametric studies on fiber rebound in dry-mix shotcrete
Special	L. Cominoli, C. Failla & G.A. Plizzari	Steel and synthetic fibres for enhancing concrete toughness and shrinkage behaviour
Special	T. Kojima, K. Hibino & M. Mizuta	FEM study on the bond behaviors between sprayed fiber reinforced plastics (FRPs) and concrete by the use of discrete elements
Special	R N. Kraus, T R. Naik, Y-m Chun	Recycling of Industrial and Post-Consumer By-Products in Flowable Self-Compacting Slurry

Chairperson	Baider Bakht, ISIS Canada Research Network	Hilman Lecture Room. On Wednesday 13 June at 9.00 to 10.30
<i>Proceedings Volume</i>	<i>Authors</i>	<i>Paper Title</i>
Main	M.H. Baluch, M.K. Rahman, A.H. Al-Gadhib & A. Raza	Coefficient of moisture contraction – A new concrete material parameter
Main	H.I. El Sayad, M.M. Abdel-Razek & H.S. Haddad	Effect of loading level, cooling regime, polypropylene fibers, and coating type on the behavior of high strength concrete columns in fire
Main	J.N. Karadelis, K. Koutselas, A. Khan, Zhou Jiebin, K. Moscicka & A. Plachta.	Sustainable, “green” solutions for concrete pavement rehabilitation. <u>A feasibility (pilot) study</u>
Main	A.A. Maghsoudi & S. Mohamad pour	Rheological and engineering properties of SCLC
Main	A. Sadr Momtazi, A. Hajati Modaraei, A. Azhari & K. Afshin Nia	Comparative study between properties of SCC containing lime-stone powder and NC
memory stick	Hamou & K.Ramdane	Modelling and evaluations of the techniques of reinforcement after earthquake.
memory stick	A. Nourivand, A. Shokri majolan & A. Sadeghi chahardeh	The study of the performance of peresent models for the concrete reinforced by CFRP sheets
Chairperson	Jenna Kunde, WasteCap Wisconsin, Inc.	Humber Lecture Room. On Wednesday 13 June at 9.00 to 10.30
<i>Proceedings Volume</i>	<i>Authors</i>	<i>Paper Title</i>
Main	C. Diggelman	Environmental science in building construction: new course development for undergraduate students
Main	Steve Goodhew, Richard Griffiths, Pieter de Wilde & Tim Simmonds	Monitoring of strawbale and non-food-crop based walling systems.
Main	A. E. Long, S. E. Taylor, R. K. Venables & J. Kirkpatrick	Development of sustainable forms of construction
Supplementary	Mohamed A. El-mikawi	Sustainable development in construction
Supplementary	Rahul Patalia & John Rushton	The sustainable refurbishment of high rise housing
Supplementary	Linda Watson	Local distinctiveness and sustainable developmen: Complementary or contradictory

Wednesday 13 June at 11.00 to 12.30

Chairperson	Session in honour of Professor Nemkumar Banthia (part 2) John Forth, Leeds University	Goldstein Lecture Room. On Wednesday 13 June at 11.00 to 12.30
<i>Proceedings Volume</i>	<i>Authors</i>	<i>Paper Title</i>
Special	S. Mindess	Thirty years of fibre reinforced concrete research at the University of British Columbia
Special	A.A. Mufti, B. Bakht & G. Tadros	Second generation externally restrained bridge deck slabs
Special	J. Sustersic, A. Zajc, R. Ercegovic & V. Jovicic	Early age behaviour of fibre reinforced shotcrete
Special	L.Vandewalle	Mechanical properties of hybrid fiber reinforced concrete
Special	M. H. Zhang & G. Yang	Resistance of high-strength concrete to projectile impact
Chairperson	Mark Tyrer, Imperial College London	Hilman Lecture Room. On Wednesday 13 June at 11.00 to 12.30
<i>Proceedings Volume</i>	<i>Authors</i>	<i>Paper Title</i>
Main	H.I. El Sayad	Effect of simulated desert climate and sustained moderate temperature on concrete with and without polypropylene fibers
Main	A.A. Maghsoudi, R. Rahgozar & M.Motavaselian	Effect of polypropylene fiber addition on restrained plastic shrinkage cracking of SCC
Main	B. Persson	Thaumasite sulphate attack on self-compacting concrete with limestone filler
Main	A. Sadr Momtazi, M.A. Mehrdad, K. Afshin Nia & A. Azhari	Comparison between mechanical properties of SCC containing rice-husk ash and normal concrete
Supplementary	L. A. Qureshi, I. A. Bukhari & M. J. Munir	Effect of different curing techniques on compressive strength of high strength self compacting concrete
memory stick	M. Raoufi, S. Abbasi, A. Shokri Majolan & H Abbasi	Experimental evaluation of wave-shaped steel wire reinforced concrete

Chairperson	Steve Goodhew, Plymouth University	Humber Lecture Room. On Wednesday 13 June at 11.00 to 12.30
<i>Proceedings Volume</i>	<i>Authors</i>	<i>Paper Title</i>
Supplementary	Robert Barnstone	Explorations in Wood Plastic Composites for Architecture
Supplementary	Chi Sun Poon & Dixon Chan	A review on the use of recycled aggregate in concrete in Hong Kong
Supplementary	M. Kalimur Rahman, M.H. Baluch, A.H. Al-Gadhib & A. Raza	Moisture transport in self compacting concrete: a combined experimental-finite element approach
No paper	Tony Parry	The ICE Sustainability Action Plan
memory stick	Nenad Sekularac, Nebojša Adžić	Shaping folded plate structures by application of wood trusses

Wednesday 13 June at 14.00 to 15.30

Chairperson	Mark Tyrer, Imperial College London	Goldstein Lecture Room. On Wednesday 13 June at 14.00 to 15.30
<i>Proceedings Volume</i>	<i>Authors</i>	<i>Paper Title</i>
Main	F. Canpolat, M.A. Yurdusev, S. Targan & K. Yilmaz	Sulfate resistance of mortars with and without silica fume and natural pozzolan
Main	K. Fukuzawa, D. Kwak, O. Abe, H. Ojima & H. Yoshida	Strength of mortar and concrete using fine powder of molten slag made from municipal waste as a cementitious material
Main	K.O. Ampadu, K. Torri & J.J. Vordoagu	Effect of spent catalyst, obtained from the catalytic cracking of petroleum, on the compressive strength of concrete.
Chairperson	Esmail Ganjian, Coventry University	Hilman Lecture Room. On Wednesday 13 June at 14.00 to 15.30
<i>Proceedings Volume</i>	<i>Authors</i>	<i>Paper Title</i>
Main	F. Gomà	New method to determining the “water/cement” ratio of hardened concrete and exposition its state of the art.
Main	M. M. Alizadeh Kharazi	High performance grout connection for pre-cast concrete structures
Main	J. Radic, Z. Savor & J. Bleiziffer	Sustainable concrete arch bridges
Main	A. Ziliukas & A. Augonis	Assessment of the fracture of three-point bending concrete specimens
Chairperson	John Zachar, Milwaukee School of Engineering USA	Humber Lecture Room. On Wednesday 13 June at 14.00 to 15.30
<i>Proceedings Volume</i>	<i>Authors</i>	<i>Paper Title</i>
Main	A.S. Denzer & K.E. Hedges	Sustainable construction in Yellowstone Park: A case study
Main	J. Schönwälder & J.G. Rots	Cardboard: An innovative construction material
Supplementary	Robert Barnstone, Kees van Kranenburg	Architectural Product Design in Cardboard

Wednesday 13 June at 16.00 to 17.30

Chairperson	CLOSING PLENARY SESSION Tarun Naik, University of Wisconsin-Milwaukee	Goldstein Lecture Room. On Wednesday 13 June at 16.00 to 17.30
<i>Proceedings Volume</i>	<i>Authors</i>	<i>Paper Title</i>
Special	N. Banthia	Durability enhancements in concrete with fiber reinforcement
Special	G. Moriconi	Recyclable materials in concrete technology: sustainability and durability
Special	J. Péra, J. Ambroise & T. Kuryatnyk	Development of insoluble gypsum using calcium sulfoaluminate cement
Special	A.A. Ramezani pour, A.R. Pourkhorshidi & H.R. Ashrafi	Durability of concretes containing supplementary cementing materials in marine environments
Special	K. Sakata, T. Ayano & T. Fujii	Steel making slag concrete as sustainable construction materials