

**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

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
Session in honour of Professor Jean Pera		
Chairperson	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. Collepari, S. Collepari & 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

	Session in honour of Professor Ali Ramezaniapour	
Chairperson	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
		Hilman Lecture Room. On Tuesday 12 June at 11.00 to 12.30
Chairperson	Bruce Ramme, WE Energies	
<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