

**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

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. Ramezaniapour & 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 Modarai, 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 present 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 development: 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