

<i>Session Time</i>	<i>Title</i>	<i>Speaker</i>
8:30-8:45	Welcome and opening	
8:45-9:15	Changing perspectives in cement and concrete science	F. Glasser
9:15-9:45	Chemo-mechanics in conserving cement renders	A. Hamilton
9:45-10:00	Reducing CO ₂ emissions: optimum blend of binders in the UK	A. Heath
10:00-10:15	Reducing the clinker (cement) content in concrete	G. Nganga
10:15-10:30	Carbon negative cements	J. Morrison
10:30-11:00	COFFEE BREAK – POSTER SESSION	
11:00-11:15	Stoichiometrically controlled C-A-S-H/N-A-S-H gel blends via alkali-activation of synthetic precursors	B. Walkley
11:15-11:30	Effect of NaOH concentration and silica fume addition on strength and durability of geopolymer cements in marine environment.	S. Astutiningsih
11:30-11:45	Structural investigations on one-part geopolymers after different drying regimes	G. Gluth
11:45-12:00	Steel reinforced geopolymer mortar: corrosion behaviour in chloride-rich environment	M. Bignozzi
12:00-12:15	Manufacturing cement-based materials and building products via extrusion	X. Zhou
12:15-12:30	Alkaline activation of natural iron containing precursors	K. Gomes
12:30-12:45	Active steel corrosion in blended slag and fly ash geopolymer concrete	A. Castel
12:45-13:00	Drying microcracking of alkali-activated slag materials	S. Bernal
13:00-14:15	LUNCH BREAK – POSTER SESSION	
14:15-14:45	Multi-modelling approach to clinker grinding	R. Flatt
14:45-15:00	Effect of additives on void structure of foamed concrete	A. Hilal
15:00-15:15	Cumulative pore volume, pore size distribution and phases percolation in porous aluminosilicate polymer composites: relation microstructure and effective thermal conductivity	E. Kamseu
15:15-15:30	Microstructural study of 10-year aged GRC modified by calcium sulfoaluminate cement	M. Song
15:30-16:00	COFFEE BREAK – POSTER SESSION	
16:00-16:15	Effect of acetic acid on early hydration of Portland cement	D. Nguyen
16:15-16:30	Impact of polycarboxylate superplasticizers on polyphased clinker hydration	D. Marchon
16:30-16:45	Combined effect of malic acid retarder and naphthalene superplasticiser on rheological properties and compressive strength of NaOH-activated slag	J. Ren
16:45-17:00	The future challenges for photocatalytic concrete technology	A. Folli
17:00-17:15	The impact of sodium salts and gypsum on cement hydration	B. Mota
17:15-17:30	Optimisation of cement grouts using different superplasticisers, mineral additives and supplementary cementitious materials	S. McNamee
18:00-18:15	Coaches pick up – The Ridge	
19:00-22:15	Gala dinner – Kelham Island Industrial Museum	
22:15-22:30	Coaches Departure – Kelham Island Industrial Museum	

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8:30-9:00	Steady state flows of fresh cement paste: the underlying physics	N. Roussel
9:00-9:15	In situ monitoring pH changes in concrete and lime mortars	G. Pesce
9:15-9:30	Chemical structure and morphology of C-S-H synthesized by silica-lime reaction and by the controlled hydration of C ₃ S	E. Tajuelo Rodriguez
9:30-9:45	Hydration of an orthorhombic (Na-doped) C ₃ A rich clinker in the presence of natural and synthetic gypsum (phosphogypsum)	A. Kirchheim
9:45-10:00	Cement pastes at the nano-scale: opportunities from modelling and simulation	E. Masoero
10:00-10:15	Expansion properties of MgO produced from magnesite and sea water	W.Y. Lau
10:15-10:30	Novel process for calcium sulfoaluminate cement production	I. Galan
10:30-11:00	COFFEE BREAK – POSTER SESSION	
11:00-11:15	Development of an electrical leaching technique - evaluation of calcium leaching from hardened cement body	K. Hashimoto
11:15-11:30	Study of the behavior of resins saturated with Na ⁺ ions in CEM I and CEM III cement pastes	S. Gauffinet
11:30-11:45	Microstructure and phase assemblage of low-clinker cements during early stages of carbonation	J. Herterich
11:45-12:00	Ultra-fine fly ash concrete	B. Kandie
12:00-12:15	Dissolution of aluminosilicate glasses in OPC environment	S. Allahrache
12:15-12:30	The alumino-silicate chain structure of C-S-H phase in high volume volcanic natural pozzolan-portland cement blended systems	C. Meral
12:30-12:45	Pozzolanic potential and reaction products of the calcined clay-lime system	S. Hollanders
12:45-13:00	Effect of cement replacement by limestone on the hydration and microstructural development of ultra-high performance concrete	W. Huang
13:00-14:15	LUNCH BREAK – POSTER SESSION	
14.15-14.45	<u>MINERALOGICAL SOCIETY SPONSORED LECTURE - Molecular dynamics of water and ions in the nanopores of cementitious materials</u>	A. Kalinichev
14.45-15:00	Reducing the impacts of global warming through the sequestration of CO ₂ within concrete construction products: Investigation of the carbonation potential of MgO-cement porous blocks	C. Unluer
15:00-15:15	Project Aether: Testing the durability of a lower-CO ₂ alternative to Portland cement	A. Dunster
15:15-15:30	Towards the development of CO ₂ neutral cement (BioCement)	N. Carr
15:30-16:00	COFFEE BREAK – POSTER SESSION	
16:00-16:15	Magnesia cements: effect of magnesium oxide properties on their final characteristics and use in waste cementation	H. Yiannoulakis
16:15-16:30	Resistance against organic acid attack in fodder fermenting silo – Comparison of the performance of OPC and alkali-activated binder based concretes	A. Buchwald
16:30-16:45	Evaluation of Northern Irish laterites as precursor materials for geopolymer binders	A. McIntosh
16:45-17:00	Durability test methods and their application to AAMs: Acid and freeze-thaw resistance	J. Aliques Granero
17:00-17:15	Hybrid organic-inorganic materials: novel perspectives for the application of geopolymer based materials	L. Ricciotti
17:15-17:30	Cements from alkali-activated slag: Blast furnace versus ferronickel slag	A. Fernandez
17:30-17:45	Re-use of waste glass as alkaline activator in the preparation of alkali-activated materials	M. Torres - Carrasco
17:45-18:15	STUDENT PRIZES PRESENTATION AND CLOSING	