3rd International Workshop on Calcium Sulfoaluminate Cements Monday 23 – Wednesday 25 June 2025 University of Leeds, UK

PROGRAMME SUMMARY

(subject to change)

N.B. Only presenting authors and affiliations are shown, for full details please see the Book of Abstracts. Keynote lectures are 45 minutes (40 minutes talk + 5 minutes for questions). Oral presentations are 15 minutes (12 minutes talk + 3 minutes for questions). Flash presentations are 2 minutes (1-2 slides and no questions).

Monday 23 June

08:45-09.30	Registration		
09:30-12:00	RILEM TC CSA General Meeting (hybrid)		
12:00-13:00	Lunch and registration		
13:00-13:10	Welcome to the University of Leeds	Carlo Prato	
		Head of School of Civil Engineering, University of Leeds, UK	
13:10-13:20	Conference opening (and H&S)	Theodore Hanein	
		Chairman, University of Leeds, UK	
13:20-13:30	RILEM presentation	Frank Winnefeld	
		Empa, Switzerland	
	SESSION 1: RAW MATERIALS AND CLINKERING		
10.00.11.1-	Session Chair: Eric Bescher		
13:30-14:15	KEYNOTE: Fundamentals of CSA-based clinkers - thermodynamic aspects and	Alexander Pisch	
	process implications	CNRS France - Laboratoire SIMaP, France	
14:15-14:45	Tea and posters		
14:45-15:00	Recycling of Moroccan phosphogypsum and clay in the production of belite-calcium	Wafaa Borja	
	sulfoaluminate cement: mineralogical investigation	Mohammed VI Polytechnic University, Morocco	
15:00-15:15	Suitability of alternative raw materials for calcium sulfoaluminate-belite cement: raw meal	Bipina Thaivalappil	
45 45 45 00	optimization and clinker characterization	Indian Institute of Technology Madras, India	
15:15-15:30	Ternary waste system optimization to produce CSA cement: phosphogypsum, waste water	Mohamed El Amal	
45.00.45.45	sludge and limestone rich waste rock	Mohammed VI Polytechnic University (UM6P), Morocco	
15:30-15:45	Phases compositions of calcium sulfoaluminate-belite clinkers made from coal ashes using	Maneerat Thala	
45 45 40 00	a hydrothermal-calcination method	Chiang Mai University, Thailand	
15:45-16:00	Production of belite-calcium sulfoaluminate cements from various waste materials to boost	Antonio Telesca	
40.00 40.45	their environmentally friendly features	Università degli Studi della Basilicata, Italy	
16:00-16:15	Pilot-scale production of low-cost belite-ye'elimite clinker using existing raw materials in	Wahab Abdul	
10.15 10.20	Qatar Dilat apple synthesis of helitic colorum sulfactumingto compart using locally coursed	Gulf Organization for Research and Development, Qatar	
16:15-16:30	Pilot-scale synthesis of belitic calcium sulfoaluminate cement using locally sourced materials in the UK	Vaishnav Kumar Shenbagam University of Leeds, UK	
16:30-17:00		University of Leeus, UN	
	Flash poster presentations		
17:00-18:00	Poster session and reception		

Tuesday 24			
	SESSION 2: HYDRATION AND CHARACTERISATION		
00.00 00.45	Session Chair: Angeles De la Torre	Daniel Jansen	
09:00-09:45	KEYNOTE: Hydration of CSA cements: exploring single phases to whole systems,	Friedrich-Alexander Universität Erlangen-Nürnberg, Germany	
09:45-10:00	from early to long-term reactions Characterisation of ye'elimite by SEM-EBSD-EDX	Christiane Rößler	
09.45-10.00		Bauhas-University Wiemar, Germany	
10:00-10:15	Influence of w/c ratio on the hydration of CSA clinker with varying percentages of calcium	David Torrens-Martin	
10.00-10.15	sulfate	Universitat Politècnica de Catalunya-Barcelona TECH, Barcelona	
10:15-10:30	⁷ Li MAS NMR spectroscopy: An advanced tool to approach early hydration of CSA	Geo Paul	
10.10 10.00	cements	Università del Piemonte Orientale, Italy	
10:30-11:00	Coffee and posters		
11:00-11:15	Temperature-dependent phase assemblage and pore solution evolution during early	Sabina Dolenec	
	hydration of belite-ye'elimite-ferrite cement	Slovenian National Building and Civil Engineering Institute, Slovenia	
11:15-11:30	CSA hydration mechanisms: the effect of w/c ratios on the hydration kinetics of silicious	Qiao Wang	
	phases and the contribution of hydrates to mechanical strength	RWTH Aachen University, Germany	
11:30-11:45	Interaction of calcium sulfoaluminate belite cements with alkanolamine admixtures:	Tu-Nam Nguyen	
	Insights from hydration and structural build-up at early ages	Georgia Tech, USA	
11:45-12:00	The influence of polycarboxylate ether (PCE) superplasticizers on the early ettringite	Jakob Schreiber	
	formation in pure ye'elimite-calcium sulfate systems	GeoZentrum Nordbayern, Germany	
12:00-12:15	Early hydration reactions of calcium sulfoaluminate cement in water and alkaline media	Luís Urbano Durlo Tambara	
		Bundesanstalt für Materialforschung Undprüfung (BAM), Germany	
12:15-12:30	Effects of excess sulphate on the synthesis and hydration of belite-alite-ye'elimite	Zhi Li	
	cements	Imperial College London, UK	
12:30-13:30	Lunch and posters		
	SESSION 3: PERFORMANCE AND DURABILITY Session Chair: Vaishnav Kumar Shenbagam		
13:30-14:15	KEYNOTE: The role of risk in engineering: Lessons from the past applied to CSA	Cameron Murray	
	cements	University of Arkansas, USA	
14:15-14:30	Self-healing repair mortar based on calcium sulfoaluminate-expansive agent	Berrabeh Safae	
		INSA Rennes, France	
14:30-14:45	Hydration, microstructure, and mechanical performance of seawater-mixed	Ye Li	
	CSA/OPC/SF blended cement systems	Harbin Institute of Technology, China	
14:45-15:00	Hydration and physical properties of BCSA mixtures with PLC, LC3 and alternative	Visa Isteri	
	SCMs	CTS Cement Manufacturing Corporation, USA	
15:00-15:30	Tea and posters		
15:30-15:45	To develop low CO ₂ binder system by ternary blend of CSA-blast furnace slag-MgO	Ahmad Nawaz	
		Shenzhen University, China	
15:45-16:00	Hydration of calcium sulfoaluminate cement in the presence of carbonated	Frank Winnefeld	
40.00.40.15	supplementary cementitious materials	Empa, Laboratory for Concrete and Asphalt, Switzerland	
16:00-16:15	Sustainable rapid setting concrete with desert sand and recycled aggregates	Padmaja Krishnan	
		New York University Abu Dhabi, UAE	
16:15-16:30	Effects of steel fibres on the performance of BCSA mortars cured at different	Jack Ambrose	
	temperatures	University of Sheffield, UK	
16:30-17:00	Group photo		
17:00 onwards	BBQ (off campus at Weeetwood Hall Estate)		

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	SESSION 4: PERFORMANCE AND DURABILITY cont. Session Chair: Frank Winnefeld		
09:00-09:15	Physical and microstructural characteristics of BCSA cement concrete in service in the field for 30 years.	Eric Bescher University of California Los Angeles, USA	
09:15-09:30	Time dependence of chloride transport properties and corrosion resistance in BCSA cement composites	Robert J. Thomas Clarkson University, USA	
09:30-09:45	Role of pore structure on resistance to physical crystallization damage of calcium sulfoaluminate (CSA) cement blends	Lisa Burris The Ohio State University, USA	
09:45-10:00	Evaluating the performance of calcium aluminate and calcium sulfoaluminate cement mortars incorporating fly ash and limestone powder	Tijani Mohammed Bureau of Mining Regulation and Reclamation, USA	
10:00-10:15	Evaluating early-age properties and volume change in polymer modified belitic calcium sulfoaluminate (BCSA) cements: field and lab testing	Daniel D. Akerele University of Washington, USA	
10:15-10:45	Coffee and posters		
	SESSION 5: APPLICATIONS AND LIFE CYCLE Session Chair: Lisa Burris		
10:45-11:30	KEYNOTE: Green by design: a critical examination of CSA cement's	Jose-Luis Galvez-Martos	
	environmental footprint	Tecnalia Research and Innovation, Spain	
11:30-11:45	Digital concrete application with CSA cement	Fulvio Canonico Buzzi SpA, Italy	
11:45-12:00	Design, construction, and early-age response of high early strength, low-embodied CO2 full-sized concrete slabs	Fabian Paniagua CTS Cement Manufacturing Corporation, USA	
12:00-12:15	Mineral foams with CSA cement as binder material	Lukas Koch MBCC Investments GmbH, Germany	
12:15-12:30	Innovative lightweight and sustainable composite material for building applications	Corradino Sposato Trisaia Research Centre, Italy	
12:30-12:45	Calcium sulfoaluminate cement: a promising binder for the stabilization and solidification of beryllium waste	Celine Cau Dit Coumes Université de Montpellier, France	
12:45-13:00	Prizes and close		
13:00-14:00	Lunch		
14:00 onwards	Free time		