

MSSCE 2016 – Segment Programme



Monday 22/8 2016

Service Life of Cement-Based Materials and Structures - Slot #1

	Session	Paper	Presenter	Chair
22/08 (Mon) Session 1 08.30-10.15 Location: Aud 81	Welcome and WG1 plenary	Welcome (15 min.)	Core group	Core group of COST TU1404
		WG1 - Plenary session.	WG1 leaders	
		EXTENDED ROUND ROBIN TESTING PROGRAM OF COST ACTION TU1404 – LESSONS LEARNED FROM THE INITIAL EXPERIMENTAL PHASE	Marijana Serdar	
		VERCORS MOCKUP – FIRST EXPERIMENTAL RESULTS AND SYNTHESIS OF THE BENCHMARK	Benoît Masson	
Coffee Break 10.15-10.45				
Session 2 10.45-12.30 Location: Aud 81	Session Advanced testing techniques	BENDER-EXTENDER ELEMENTS FOR CHARACTERIZATION OF CEMENT PASTE AT EARLY AGES	José Granja Start: 10.50	Stéphanie Staquet
		ON UTILISATION OF ELLIPTICAL RINGS FOR ASSESSING CRACKING TENDENCY OF CONCRETE AND OTHER CEMENT-BASED MATERIALS	Xiangming Zhou Start: 11.10	
		CARBON NANOPARTICLES CEMENT-BASED MATERIALS FOR SERVICE LIFE MONITORING	Paulo B. Cachim Start: 11.30	
		ULTRASONIC ASSESSMENT IN CURING PROCESS OF CBM USING EXPERIMENTAL MONITORING TESTS AND MICROSTRUCTURAL SIMULATION TOOLS	José Vicente Fuente Start: 11.50	
		MEASURING THE INFLUENCE OF TEMPERATURE ON ELECTRICAL PROPERTIES OF CONCRETE	Alex Coyle Start: 12.10	
Lunch Break 12.30-13.30				

	Session	Paper	Presenter	Chair
22/08 (Mon) Session 3 13.30-15.00 Location: Aud 81	Advanced testing techniques and eco-concrete	NON-DESTRUCTIVE EVALUATION OF STRENGTH DEVELOPMENT IN CONCRETE	Ivan Gabrijel Start: 13.35	Marijana Serdar
		USE OF ULTRASONIC P- AND S-WAVES TRANSMISSION VELOCITY FOR THE EARLY AGE BEHAVIOUR OF ECO-CONCRETE	Jérôme Carette Start: 13.55	
		NON-DESTRUCTIVE EVALUATION OF ECO-FRIENDLY CEMENTITIOUS MATERIALS BY ULTRASOUND	Markus Krüger Start: 14.15	
		EFFECT OF RECYCLED AGGREGATE CONCRETE ON EARLY AGE BEHAVIOR	Ahmed Z. Bendimerad Start: 14.35	
Coffee Break 15.00-15.30				
Session 4 15.30-17.00 Location: Aud 81	Eco-concrete	MECHANICAL ACTIVATION OF SUPPLEMENTARY CEMENTITIOUS MATERIALS IN ORDER TO USE AS HYDRAULIC BINDER	Gábor Mucsi Start: 15.35	Jérôme Carette
		PROPERTIES OF CONCRETE RECYCLING CLAY-RICH DREDGING SEDIMENTS AS A NOVEL SUPPLEMENTARY CEMENTITIOUS MATERIAL	Céline Van Bunderen Start: 15.55	
		WASTE CERAMICS AS PARTIAL CEMENT AND AGGREGATE REPLACEMENTS IN SELF-COMPACTING CONCRETE	Paul Archbold Start: 16:15	
		CHLORIDE PENETRATION COEFFICIENT AND FREEZE-THAW DURABILITY OF WASTE METAKAOLIN CONTAINING HIGH STRENGTH SELF-COMPACTING CONCRETE	Diana Bajare Start: 16:35	

Tuesday 23/8 2016

Service Life of Cement-Based Materials and Structures - Slot #1

	Session	Paper	Presenter	Chair
23/08 (Tue) Session 1 08.30-10.15 Location: Aud 81	Microstructural modelling I	CAN A RELIABLE PREDICTION OF CEMENT PASTE TRANSPORT PROPERTIES BE MADE USING MICROSTRUCTURE MODELS?	Ravi A. Patel Start: 8.35	Cyrille Dunant
		CEMRS: FAST AND EFFICIENT MODELLING PLATFORM FOR THE SIMULATION OF CEMENTITIOUS SYSTEMS	Shiju Joseph Start: 8.55	
		NANOSCALE SIMULATIONS OF CEMENT FORMATION AND STRUCTURAL EVOLUTION: A NEW KINETIC APPROACH	Enrico Masoero Start: 9.15	
		THE IMPORTANCE OF MULTIPHYSICS AND MULTISCALE MODELLING OF CONCRETE TO UNDERSTAND ITS COMPLEX MACROSCOPIC PROPERTIES	Jörg F. Unger Start: 9.35	
		MODELLING OF AGEING OF LOW-PH CONCRETES	Laurie Buffo-Lacarrière Start: 9.55	
Coffee Break 10.15-10.45				
Session 2 10.45-12.30 Location: Aud 81	Microstructural modelling II	MODELING OF EARLY AGE CONCRETE CREEP USING RHEOLOGICAL MODELING APPROACHES	Wibke Hermerschmidt Start: 10.50	Jörg F. Unger
		SHORT-TERM CREEP OF CEMENT PASTE: EXPERIMENTS AND MULTISCALE MODELING	Bernhard Pichler Start: 11.10	
		COUPLINGS BETWEEN CREEP AND DAMAGE: ROLE OF THE FRACTURE CRITERION	Cyrille Dunant Start: 11.30	
		EVALUATION OF THE LDPM ELASTIC AND FRACTURE PARAMETERS BY UP-SCALING PROCEDURE	Erez Gal Start: 11.50	
		DISCRETE MODELING OF SURFACE CRACKING OF DRYING CONCRETES AT DIFFERENT AGES: APPLICATION TO TU1404 RRT CONCRETE	Arnaud Delaplace Start: 12.10	
Lunch Break 12.30-13.30				
Session 3 13.30-15.00 Location: Aud 81	WG2 plenary	WG2 - Plenary session	WG2 Leaders	WG2 Leaders
		BENCHMARKING OF COMPLEX SYSTEMS: APPLICATION TO CEMENT BASED MATERIALS	Janez Perko	
Coffee Break 15.00-15.30				

	Session	Paper	Presenter	Chair
23/08 (Tue) Session 4 15.30-17.00 Location: Aud 81	Macroscopic modelling	FINITE ELEMENT MODELS CAPABLE TO GIVE DETAILED INFORMATION ABOUT CRACKS SPACING AND OPENING IN CONCRETE STRUCTURES IN SERVICE LIFE CONDITIONS	Pierre Rossi Start: 15.35	Farid Benboudjema
		CONTEMP – A VIRTUAL THERMO-MECHANICAL SIMULATOR FOR HYDRATING REINFORCED CONCRETE BLOCKS WITH EXTENSION TO SERVICE LIFE	Vít Šmilauer Start: 15.55	
		NUMERICAL SIMULATION SINCE EARLY AGES OF THE RG8 BEAM TEST FROM CONCRACK BENCHMARK BY MEANS OF A 3D FIBRE FRAME MODEL	Maria D. Crespo Start: 16:15	
		COMPUTATIONAL PREDICTION OF RESTRAINT- INDUCED MACROCRACK PATTERNS IN CONCRETE WALLS	Dirk Schlicke Start: 16:35	
Conference Dinner 17.30-22.00				

Wednesday 24/8 2016

Service Life of Cement-Based Materials and Structures - Slot #1

	Session	Paper	Presenter	Chair
24/08 (Wed) Session 1 08.30-10.15 Location: Room 19	HPC and FRC	MECHANICAL PROPERTIES OF ULTRA HIGH PERFORMANCE FIBRE REINFORCED CONCRETE	Radoslav Sovják Start: 8.35	Terje Kanstad
		NUMERICAL MODELLING OF FRACTURE OF MACRO-POLYMER FIBER REINFORCED CONCRETE	Jaime C. Galvez Start: 8.55	
		AN INVESTIGATION ON USABILITY OF BASALT FIBRE IN CEMENT-BASED COMPOSITES	Emre Sancak Start: 9.15	
		USABILITY OF BASALT FIBRES IN FIBRE REINFORCED CEMENTITIOUS COMPOSITES	Z.Canan Girgin Start: 9.35	
Coffee Break 10.15-10.45				
Session 2 10.45-12.30 Location: Room 19	Long term performance of RC	RESIDUAL CONCRETE STRENGTH AFTER SUSTAINED LOAD: EXPERIMENTAL RESULTS AND MODELLING APPROACH	Matthieu Briffaut Start: 10.50	Miguel Ferreira
		IMPACT OF SLAG CONTENT IN ALKALI-ACTIVATED SLAG CEMENT ON POROSITY OF CONCRETE	Igor Rudenko Start: 11.10	
		AGING TESTS FOR PERFORMANCE OF PHOTOCATALYTIC CEMENT BASED MATERIALS	František Peterka Start: 11.30	
		EFFECTS OF CURING TEMPERATURE ON CHLORIDE MIGRATION AND ELECTRICAL RESISTIVITY OF CONCRETE	T. Alper Yıkıcı Start: 11.50	
Lunch Break 12.30-13.30				
24/08 (Wed) Session 3 13.30-15.00 Location: Aud 82	Design	Session takes place in Auditorium 82 (see program of slot #2)		
Coffee Break 15.00-15.30				
Session 4 15.30-17.00 Location: Aud 82	WG3 plenary	WG Plenary, Closing and MC meeting Session takes place in Auditorium 82 (see program of slot #2)		