Programme of 78th RILEM Week - Toulouse 2024

Venue: INSA Toulouse

Wednesday	21 August (INSA Toulouse)						
9:00-17:00	Pre-congress Courses						
Thursday 22	Thursday 22 August (INSA Toulouse)						
9:00-17:00		Pre-congress Courses					
Friday 23 Aug	gust (INSA Toulouse)						
9:00-17:00		Pre-congress Courses					
Saturday 24	August (INSA Toulouse)						
9:00-17:00		RILEM Imagine Workshop					
Sunday 25 Au	ugust (INSA Toulouse)						
9:00 - 10:30	TAC	DAC	TC meetings				
10:30-11:00	Coffee break						
11:00-12:30	ТАС	DAC	TC meetings				
12:30 - 13:30		Lunch Break					
13:30 - 15:30	ТАС	DAC	TC meetings				
15:30 - 16:00		Coffee break					
16:00-17:30	ТАС	DAC	TC meetings				
Monday 26 A	ugust (INSA Toulouse)						
9:00 - 10:30		EAC	TC meetings				
10:30-11:00	Coffee break						
11:00-12:30	BoE M&S TC meetings						
12:30 - 13:30	Lunch Break						
13:30 - 15:30	BOE RTL TC meetings						
15:30 - 16:00	Conference registration - Pierre Baudis Conference Coffee break						
16:00-17:30	Centre, Welcome desk	DEV	TC meetings				

RILEM Conference on Sustainable Materials & Structures: Meeting the major challenges of the 21st century - SMS 2024

Venue: Pierre Baudis Conference Centre

Monday 26 A	August (Diarra Raudia Confor	anco Control								
15:00-18:00	August (Pierre Baudis Confere		Conference registratio	on - Pierre Baudis Conference	e Centre, Welcome desk					
18:30-22:00	SMS Conference Welcome Reception - Toulouse Place du Capitole, Café Le Florida									
Tuesday 27 A	August (Pierre Baudis Confere	ence Centre)		•	•					
7:00-7:45	Conference registration - Pierre Baudis Conference Centre, Welcome desk SMS Conference & 78th RILEM Weel official opening - Amphitheatre Saint-Exupery									
7:45-8:15	Bertran	Bertrand Raquet (Director of INSA Toulouse), Nicolas Roussel (RILEM President), Alexandra Bertron (Conference Chair, 2024 RILEM Honorary president)								
8:15-10:15	Opening Conference - Major research avenues to address challenges of the 21st century - Karen Scrivener, Nicolas Roussel, Susan Bernal, Jason Weiss - Chaiman: Ravindra Gettu									
10:15-11:00			Robert L'Hermitte Medal -	Jose Norambuena-Contrera	s - Chaiman: Enrico Sassoni					
11:00-11:30	Amphitheatre Saint-Exupery	Guillaumet 1 (100)	Guillaumet 2 (100)	Coffee / Poster Session Spot (90)	Argos (60)	Diamant (50)	Latécoère			
11:30-13:00	Cementitious materials: development and characterisation of binders	Cemetitious materials: Early age, rheology and processing	Cementitious materials and structures: durability and long-term performances	Bituminous materials: Properties, sustainability and resilience	Bio-based materials	Data-driven concrete science	RILEM Bureau			
13:00-14:00				Lunch / Poster Session						
14:00-16:00	Cementitious materials: development and characterisation of binders	Cemetitious materials: Early age, rheology and processing	Cementitious materials and structures: durability and long-term performances	Bituminous materials: Properties, sustainability and resilience	Bio-based materials	Data-driven concrete science	RILEM Bureau			
16:00-16:30			Comontitione motoriale	Coffee / Poster Session						
16:30-18:00	Cementitious materials: development and characterisation of binders	Cemetitious materials: Early age, rheology and processing	Cementitious materials and structures: durability and long-term performances	Bituminous materials: Properties, sustainability and resilience	Bio-based materials	Wood in structures	RILEM Bureau			
19:30-23:00							RILEM Banquet/dinner			
	28 August (Pierre Baudis Con	ference Centre)					(RILEM Officers)			
weathesday	28 August (Pierre Baudis Con	nerence centre)								
8:00-10:00	Plei	nary Session 2: TC presentat	ions, 281-CCC Nele De Belie,	, 283-CAM Shishir Mundra, 2	89-DCM Kefei Li , 293-CCH J	avier Sanchez & Alvaro Ridro	lejo			
10:00-10:30			Presentation of JCSS Jo	oint Committee of Structural	Safety - Jochen Köhler					
10:30-11:00				Coffee / Poster Session						
11:00-13:00	Cementitious materials: development and characterisation of binders	Low-CO2, low-energy, low- resources processes, recycling	Cementitious materials and structures: durability and long-term performances	Historic materials and buildings and cultural heritage	Corrosion, Maintenance and Repair of Concrete Materials and Structures	Characterisation and modelling on small scales	Materials for energy storage (Sensible-Heat, Latent-Heat, and Thermochemical)			
13:00-14:00			Cementitious materials	Lunch / Poster Session			Materials for energy			
14:00-16:00	Cementitious materials: development and characterisation of binders	Low-CO2, low-energy, low- resources processes, recycling	and structures: durability and long-term performances	Historic materials and buildings and cultural heritage	Corrosion, Maintenance and Repair of Reinforced Concrete Structures	Characterisation and modelling on small scales	Energy-efficient buildings, comfort, IAQ			
16:00-16:30			Constanting and the second state	Coffee / Poster Session						
16:30-17:30	RILEM General Council	Low-CO2, low-energy, low- resources processes, recycling	Cementitious materials and structures: durability and long-term performances	Historic materials and buildings and cultural heritage	Corrosion, Maintenance and Repair of Reinforced Concrete Structures					
17:30–18:30	RILEM General Council		Cementitious materials and structures: durability and long-term performances	Historic materials and buildings and cultural heritage	Corrosion, Maintenance and Repair of Reinforced Concrete Structures	18700				
19:00-23:30			Conference Din	iner (Espaces Vanel, Mediath	nèque Marengo)					
Thursday 29	August (Pierre Baudis Confe	rence Centre)								
8:30-10:00		Plenary Session 3: TC	presentations, 282-CCL Fern	ando Martirena, 291-AMC W	Volfram Schmidt, 277-LHS No	oni-Pagona Maravelaki				
10:00-10:30				Coffee / Poster Session						
10:30-13:00	Monitoring and NDT	Circular economy, Life Cycle Analysis, Regional Practices	Cementitious materials and structures: durability and long-term performances	Innovation Day	Earth materials	Corrosion of engineering materials – Session for young scientists				
13:00-14:00				Lunch / Poster Session						
14:00-16:00	Monitoring and NDT	Low-CO2, low-energy, low- resources processes, recycling	Cementitious materials and structures: durability and long-term performances	Innovation Day	Earth materials	Corrosion of engineering materials – Session for young scientists				
16:00-16:30			Comontitious and air	Coffee / Poster Session						
16:30–17:30	Monitoring and NDT	Low-CO2, low-energy, low- resources processes, recycling	Cementitious materials and structures: durability and long-term performances							
17:30–18:30	Young Research Meeting and Award Ceremony									

Cementitious materials: development and characterisation of cementitious binders

Session chairs: Prof. Gabriel Samson, Prof. Daman Panesar

Tuesday 27 August

Time slot	start	end	Title	Authors
Time slot				
	11:30	11:55	'COLD-FUSION' – A NEW APPROACH TO STUDY C-S-H	Guoqing Geng, Guoqing Geng, Zhe Zhang, Lianyao Xiong
	11:55	12:10	ANALYSIS OF MICROSTRUCTURE AND PROPERTIES OF CARBON BLACK BASED	Kazi Islam, Wei Sha, Meng Gao
	11.55	12.10	COMPOSITE CEMENT AND CONCRETE	
11:30 - 13:00	12:10	12:25	CHARACTERIZATION OF CALCIUM CARBONATE CRYSTAL FORMATION IN CALCIUM	Ngoc Kien Bui, Takafumi Noguchi, Ippie Maruyama
			CARBONATE CONCRETE EFFECT OF CA(OH)2 AND KOH ON THE HYDRATION KINETICS OF ORDINARY	Jitendra Patel, Mirco Perinelli, Giulia Masi, Maria Elia Natali,
	12:25	12:40	PORTLAND AND SLAG-BASED CEMENTS	Maria Chiara Bignozzi
	12.40	12.55	EFFECTS OF CHEMICAL ACTIVATION ON PROPERTIES AND HYDRATION MECHANISM	Effects of chemical activation on properties and hydration
	12:40	12:55	OF HIGH VOLUME FLY ASH BINDERS	mechanism of high volume fly ash binders
13:00-14:00			Lunch break / poster session	
	14:00	14:15	HYDRATION PROCESS OF ALKALI-ACTIVATED SLAG AND WIND TURBINE BLADE	Tao Liu, Ana T. Lima
	14.00		WASTE COMPOSITES	
	14:15	4:15 14:30	ENHANCED HYDRATION OF STEEL SLAG WITH ADDITION OF SODIUM SULFATE AND THERMAL TREATMENT	Jiseul Park, Seohyun Kim, Ahyeon Lim, Juhyuk Moon
			MICROSTRUCTURAL AND CHEMICAL CHARACTERIZATION DURING THE RECYCLING	
	14:30	14:45	PROGRESS OF SULFUR CONCRETE	Qinjian Wang, Didier Snoeck
	14:45	15:00		Nirrupama Kamala Ilango, Hoang Nguyen, Mohammad
14:00-16:00			ON THE STABILITY OF HYDRATED MAGNESIUM CARBONATES	Alzeer, Frank Winnefeld, Paivo Kinnunen
14.00 10.00	15:00	0 15:15	ENHANCING MORTAR COMPRESSIVE STRENGTH THROUGH THE COMBINED USE OF	Pukar Siwakoti, Jaya Nepal, Salim Barbhuiya, Bamdad Ayati
			RAW BAUXITE REFINERY RESIDUE AND SUPPLEMENTARY CEMENTITIOUS MATERIALS	
	15:15	15:15 15:30	FIRED CLAY BRICK WASTE POWDER AS SILICOALUMINATE PRECURSOR FOR THE	Miguel Angel Martin Antunes, Andres Seco, Céline Perlot-
		5:30 15:45	SUPERSULFATED CEMENT MANUFACTURING PERFORMANCE OF LIMESTONE CALCINED CLAY CEMENT (LC3) WITH ACTIVATED	Bascoulès, Jesus Maria Del Castillo, Sandra Espuelas,
	15:30		MARINE SEDIMENT	Zhijian Chen, Hailong Ye
			CORRELATION OF HYDRATION AND STRENGTH TO MICROSTRUCTURE OF BINDERS	Amrita Hazarika, Liming Huang, Ingemar Löfgren,
	15:45	16:00	BLENDED WITH VOLCANIC MATERIALS	Luping Tang, Arezou Baba Ahmadi
16:00-16:30			Coffee break / Poster session	
	16:30	16:45	OPTIMISATION OF LC3 BINDER PROPERTIES THROUGH VARIED CARBONATES	Xiangming Zhou, Shuang Liang, Mingqing Liu, Zhonghao Niu,
				Pengkun Hou
	16:45	17:00	PARTICLE SIZE EFFECTS ON EVOLUTIONS OF THE RHEOLOGY, HYDRATION, AND HARDENING PROPERTIES OF LIMESTONE CALCINED CLAY CEMENT	Pengkun Hou, Xiangming Zhou, Johann Plank
			PERFORMANCE OF MASONRY MORTARS WITH LADLE FURNACE SLAG AS	Everton Souza, Tayná Silva, Eduardo Mariano, Gisleiva
	17:00	17:15	SUPPLEMENTARY CEMENTITIOUS MATERIAL	Ferreira, Carlos Gomes
16:30-18:00				Juan Manuel Etcheverry, Laurent Detemmerman, Vadim
	17:15	17:30	QUATERNARY BLENDS CONTAINING LOW-GRADE CALCINED CLAYS	Grigorjev, Laurena De Brabandere, Degezelle Krist, Nele De
	17:30	17:45	ENVIRONMENTAL IMPACTS OF ONE-PART ALKALI ACTIVATED SLAG-BASED CONCRETE	Jayashree Sengupta, Nirjhar Dhang, Arghya Deb
	17.45	10.00	THE IMPACT OF NANO-SIO2 ON THE MECHANICAL PROPERTIES OF CEMENTLESS	Piao Rongzhen Piao, Taekgeun Oh, booki Chun, Soonho Kim,
	17:45	18:00	ULTRA-HIGH-PERFORMANCE CONCRETE BASED ON ALKALI-ACTIVATED MATERIALS	Zhengri Cui, Doo-Yeol Yoo

Wednesday 28 August

Time slot	start	end	Title	Authors
	11:00	11:25	ALKALI-ACTIVATED MATERIALS – SOME PERSISTENT OBSTACLES FOR PRACTICAL BREAKTHROUGH	Geert De Schutter
	11:25	11:40	A MULTI-STAGE EVALUATION PROCESS OF AUSTRIAN MINERAL WASTE STREAMS AS RAW MATERIALS IN ALKALI-ACTIVATED MATERIAL DEVELOPMENT	Stefanie Radinger, Amr Hassan, Ognjen Rudić, Bettina Ratz, Iris Zögl, Sara Raič, Steindl Florian, Florian Mittermayr,
	11:40	11:55	ALKALI-ACTIVATED MATERIALS BASED ON BLAST FURNACE SLAG AS A CONFINEMENT BARRIER FOR SOLID AND LIQUID RADIOACTIVE WASTE: FRESH STATE PROPERTIES	M. Jimena De Hita, María Criado
11:00 - 13:00	11:55	12:10	CEMENTLESS BINDER BASED ON LIME-ACTIVATED WASTE CONCRETE POWDER	Aidarus Yonis, Yanchen Oinam, Prabhat Vashistha, Sukhoon Pyo
	12:10	12:25	DEVELOPMENT AND INVESTIGATION OF MECHANICAL PROPERTIES OF GEOPOLYMER MORTAR	loanna Skyrianou, Lampros N. Koutas, Christos G. Papakonstantinou
	12:25	12:40	DIELECTRIC PROPERTIES OF FLY ASH GEOPOLYMERS	Claudiane Ouellet-Plamondon, Eric David, Patrick Brisebois
	12:40	12:55	EFFECT OF GAMMA RADATION ON THE STRENGTH DEVELOPMENT OF METAKAOLIN- BASED GEOPOLYMER	Emile Mukiza, Quoc Tri Phung, Suresh Seetharam, Lander Frederickx, Eef Weetjens, Geert De Schutter
13:00 - 14:00			Lunch break / poster session	
	14:00	14:15	EFFECTS OF LAGOON FLY ASH AND ACTIVATORS ON THE PROPERTIES OF GEOPOLYMER COMPOSITES BASED ON GROUND GRANULATED BLAST FURNACE SLAG	Yi Chen, Meng Gao, Wei Sha
	14:15	14:30	THERMODYNAMIC MODELING OF METAKAOLIN-BASED GEOPOLYMERS UNDER ACID ATTACK	Neven Ukrainczyk, Eddie Koenders
	14:30	14:45	EXPERIMENTAL STUDY AND MODELING OF N-A-S-H GEOPOLYMER PRODUCTS	Eashow Shamo, Angélique Rousselet, Alain Chartier, Thibault Charpentiers
	14:45	15:00	IMPACT OF GLASS POWDER TYPE ON THE PERFORMANCE OF ALKALI-ACTIVATED SLAG	Yujin Lee, Ilhwan You, Doo-Yeol Yoo, Seung-Jung Lee, Goangseup Zi
	15:00	15:15	INFLUENCE OF THE FORMING METHODS ON THE POROSITY AND MICROSTRUCTURE OF METAKAOLIN-BASED GEOPOLYMERS	Giulia Masi, Lucia Ferrari, Villiam Bortolotti, Elisa Franzoni, Maria Chiara Bignozzi
	15:15	15:30	PREDICTION OF COMPRESSIVE STRENGTH OF GEOPOLYMERS	Henning Kruppa, Anya Vollpracht
	15:30	15:45	STABILISATION OF EXPANSIVE SOIL USING ALKALI-ACTIVATED BINDER PRODUCED WITH UN-CALCINATED PRECURSOR	Mengyuan Zhu, Chin Leo, Qinghua Zeng, Jeff Hsi, Reza Karimi, Antonin Fabbri, Samanthika Liyanapathirana, Pan Hu

	15:45	15:47	INVESTIGATION OF THE EFFECT OF MESOPOROUS SILICA NANOPARTICLES ON EARLY- AGE CEMENT HYDRATION	Davoud Tavakoli, Özlem Cizer		
14:00-16:00	15:47	15:49	REACTIVITY OF SEWAGE SLUDGE ASH AFTER REMOVAL OF PHOSPHOROUS FOR USE IN CEMENT BASED MATERIALS	Gunvor Kirkelund, Lisbeth M. Ottosen, Wolfgang Kunther		
14.00-10.00	15:49	15:51	ENHANCING HYDRATION OF BOF SLAG PASTES THROUGH MONOPOTASSIUM PHOSPHATE ADDITION	Yanjie Tang, Katrin Schollbach, Sieger Van Der Laan, Jos Brouwers		
	15:51	15:53	THE INFLUENCE OF DIFFERENT SULFATE SOURCES ON BELITE HYDRATION	Antonina Goncharov, Semion Zhutovsky		
	15:53	15:55	COMPARING REACTIVITY OF SUPPLEMENATARY CEMENTITIOUS MATERIALS: FROM NATURAL POZZOLANS TO CONSTRUCTION AND DEMOLITION WASTE FINES	Andrea Bisciotti, Silvia Castellini, Alessandro Neri, Giuseppe Cruciani		
	15:55	15:57	THE IMPACT OF RED MUD-DERIVED LAYERED DOUBLE HYDROXIDE (RM-LDH) ON HYDRATION, MICROSTRUCTURE, AND PROPERTIES OF CEMENT PASTE	Molan Li, Hailong Ye		
	15:57	15:59	VALORIZATION OF PHOSPHATE INDUSTRY WASTE THROUGH GEOPOLYMER TECHNOLOGY FOR SUSTAINABLE DEVELOPMENT	Hicham Majdoubi, Haddaji Younnes, Mouad Nadi, Bouchaib Manoun, Hassan Hannache, Youssef Tamraoui		
	15:59	16:01	SYNTHESIS AND CHARACTERIZATION OF ECO-FRIENDLY GEOPOLYMER FOR SUSTAINABLE BUILDING APPLICATIONS	Zineb Moujoud, Abdeslem Elbouari, Omar Tanane		
	16:01	16:03	ALKALI-ACTIVATION OF COPPER SLAG: EFFECT OF VARYING ACTIVATOR CONTENT AND SILICATE MODULUS ON PASTES AND MORTARS	Dhiraj Mahajan, Salman Muhammad		
	16:03	16:05	ALKALINE ACTIVATION OF PARTIALLY AMORPHOUS BLACK STEEL SLAGS FOR THE PRODUCTION OF BINDERS WITH HIGH-TEMPERATURE RESISTANCE	Lorena Freire, Miguel Otero, Lucía Unamunzaga, Carolina Ramos		
	16:05	16.07	METAKAOLIN-BASED GEOPOLYMERS WITH DIFFERENT RAW MATERIALS CHARACTERISTICS	Sara Koubeissy, Franck Agostini, Nicolas Gay, Matthieu Briffaut		
16:00-16:30	Coffee break / Poster session					

Cemetitious materials: Early age, rheology and processing

Session Chair: Prof. Arnaud Perrot

Time slot	start	end	Title	Authors
			IMPACT OF CALCIUM CARBONATE POLYMORPHS DERIVED FROM CO2	Shiho Kawashima, Diandian Zhao, Jonah Williams, Ah-Hyung
	11:30	11:55	MINERALIZATION SCHEMES ON CEMENT-BASED MATERIALS	(Alissa) Park
	11:55	12:10	EFFECT OF GRAPHENE MATERIALS DISPERSION ON EARLY HYDRATION OF TERNARY BINDER	Suriyaprakash Saravanan, Liming Huang, Arezou Baba Ahmadi
11:30 - 13:00	12:10	12:25	EFFECT OF NANO-SILICA ON THE RHEOLOGICAL PROPERTIES AND ORGANIC ADDITIVE DOSAGE OF CEMENTITIOUS MATERIAL	Kaci Chalah, Abdebaki Benmounah
	12:25	12:40	THE EFFECT OF THE FUNCTIONAL GROUP'S POSITION ON THE PERFORMANCE, AND MECHANISM OF POLYCARBOXYLATE SUPERPLASTICIZER	Bin Li, Ling Wang, Zhendi Wang
	12:40	12:55	VARIABILITY OF SUPERPLASTICISER-CEMENT INTERACTIONS	Wolfram Schmidt, Angela Tetteh Tawiah, Alice Titus Bakera, Kolawole Adisa Olonade
13:00 - 14:00		-	Lunch break / Poster session	
	14:00	14:15	EXPLORATION OF SLAG-BASED CONCRETES CONTAINING AN ETTRINGITIC ACCELERATOR	Corentin Foulon, Cedric Roosz, Hervé Fryda, Barbara Benevenuti, Sarra El Housseini, Martin Cyr
	14:15	14:30	RHEOLOGICAL EVALUATION OF ALKALI-ACTIVATED BINDERS BASED ON FLY ASH AND STEEL SLAG WITH VARIATION OF SILICA MODULUS	Madson Souza, Abcael Melo, Mauro Silva Filho, Vinícius Veras, Jonathan Muñoz, Lucas Araújo, Lucas Babadopulos
	14:30	14:45	NEW INSIGHTS FOR DETERMINATION OF LINEAR VISCOELASTIC REGION OF MAGNETO-RESPONSIVE CEMENT PASTES BASED ON STRAIN-SWEEP TEST	Yiyuan Zhang, Yaxin Tao, Xiaodi Dai, Karel Lesage, Geert De Schutter
14:00-16:00	14:45	15:00	SYNERGISTIC EFFECTS OF SUPERABSORBENT POLYMERS AND METAKAOLIN	Luiza Souza, Livia Agostinho
14:00-16:00	15:00	15:15	MODELING SQUEEZE FLOW TEST OF 3D PRINTING MORTAR WITH FINITE ELEMENTS BASED ON EXPERIMENTAL RHEOLOGICAL DATA	Abcael Melo, Madson Souza, Lucas Babadopulos, Evandro Junior
	15:15	15:30	IMPROVEMENT OF COMPRESSIVE STRENGTH OF CONCRETE USING FLY ASH AT EARLY-AGE	Tien Dung Nguyen, Cong Thang Nguyen, Van Tuan Nguyen, V.N Luu
	15:30	15:45	NEW INSIGHTS FOR DETERMINATION OF LINEAR VISCOELASTIC REGION OF MAGNETO-RESPONSIVE CEMENT PASTES BASED ON STRAIN-SWEEP TEST	Yiyuan Zhang, Yaxin Tao, Xiaodi Dai, Karel Lesage, Geert De Schutter
	15:45	16:00		
16:00-16:30			Coffee break / Poster session	
	16:30	16:55	TOUGH AND DUCTILE NACRE-LIKE CEMENTITOUS COMPOSITE ARCHITECTED MATERIALS	Shashank Gupta, Shagerdi Hadi, Reza Moini
	16:55	17:10	NATURAL FIBERS TO CONTROL EARLY AGE CRACKING: EFFECT ON FREE PLASTIC SHRINKAGE, EVAPORATION RATE AND SETTING TIME	Vincent Sabathier, Mohamed Kabore
	17:10	17:25	STUDY OF WORKABILITY, STRENGTH AND MICROSTRUCTURE ISSUES OF RECYCLED CONCRETE	Viacheslav Troian, Volodymyr Gots, Asel Maria Aguilar Sanchez, Ueli Angst, Robert J. Flatt
16:30-18:00	17:25	17:40	3D CONCRETE PRINTING PARAMETERS FOR ENHANCED SUSTAINABILITY: A COMPREHENSIVE ANALYSIS	Khristel Rodriguez, Maria De Los Angeles Ortega Del Rosario, Rafael Duque, Luis Castillero, Melany Medina
	17:40	17:55	FLEXURAL STRENGTH OF 3D PRINTED CONCRETE LONGITUDINALLY REINFORCED BY HOLLOW NUT STUD BOLT REBAR	Xinze Li, Zhendi Wang
	17:55	17:57	EFFECT OF PUMPING DISTANCE AND WATER-BINDER RATIO ON THE PUMPABILITY OF 3D PRINTING CONCRETE	Hojae Lee, Eun-A Seo
	17:57	17:59	EFFECTS OF TIME-DEPENDENT RHEOLOGICAL PROP-ERTIES OF CEMENTITIOUS MATERIALS ON THE PRINT QUALITY OF EXTRUSION-BASED 3D PRINTING	Yu Jiang, Abir Al-Tabbaa, Ronan Daly

Cementitious materials and structures: durability and long-term performances

Session Chairs: Prof. Multon Stéphane, Prof. Marie Giroudon

Tuesday 27 August

Time slot	start	end	Title	Authors
-	11:30	11:55	STRESS EFFECT ON DEGRADATION DUE TO EXPANSION IN CONCRETE	Stéphane Multon
	11:55	12:10	DELAYED THERMAL TREATMENT ON HYDRATED CEMENTITIOUS MATERIALS WITH	Saillio Mickael, Oumayma Ahmadah, Arthur Resnier, Loic
	11:55	12.10	SCM : EVALUATION OF DEF RISK	Divet, Jean-Michel Torrenti
11:30 - 13:00	12:10	12:25	THERMODYNAMIC MODELING OF ASR PRODUCTS AND ESTIMATES OF	Syrine Razki, Tulio Honorio, Alexandra Bourdot, Farid
			CRYSTALLIZATION PRESSURE MACROSCOPIC MODEL FOR CONCRETE AFFECTED BY INTERNAL SWELLING	Benboudjema
	12:25	12:40	REACTIONS CONSIDERING STRESS INFLUENCE AND DAMAGE	Ha-Thanh Phan, Boumediene Nedjar, Jean-François Seignol
			EVOLUTION OF THE RADIAL GAS PERMEABILITY OF CONCRETE UNDER COMPRESSIVE	
	12:40	12:55	CREEP LOADING	Robin Cartier, Hugo Cagnon, Jérôme Verdier, Thierry Vidal
13:00-14:00			Lunch break / Poster session	
	14:00	14:15	DAMAGE EVOLUTION IN CONCRETE UNDER FREEZE-THAW CYCLES COUPLED WITH	Xu Yangun, Qiang Yuan, Geert De Schutter
			FATIGUE LOADING COMPARISON OF PROTECTED PASTE VOLUMES ESTIMATED BY THE DIRICHLET	
	14:15	14:30	TESSELLATION TILE DIAGRAM AND CONVENTIONAL STEREOLOGY MODELS	Shin-Ichi Igarashi, Hayao Tanabe, Kazuya Ohyama
			CORRELATION RETWEEN POROSITY AND RESISTANCE TO ERFEZE-THAW CYCLES OF	
	14:30	14:45	NATURAL HYDRAULIC LIME PLASTERS	Maria Cecilia Carangi, Cristina Tedeschi
	14:45	15:00	VALIDATION OF A NON-DESTRUCTIVE INSTANTANEOUS METHOD FOR ASSESSING	Ouijdane Qacami, Bruno Huet, Philippe Turcry, Abdelkarim
14:00-16:00	14.45	+.45 15.00	CARBONATION OF COATED CONCRETE	Aït-Mokhtar, Ravi Ajitbhai Patel, Frank Dehn
	15:00	15:15	CAPILLARY IMBIBITION OF NATURALLY CARBONATED SAMPLES EVALUATED VIA	Natalia Alderete, Juan Manuel Etcheverry, Vanessa
			NEUTRON RADIOGRAPHY CHANGES IN MICROSTRUCTURE AND MECHANICAL PROPERTIES OF CEM I AND CEM	Cappellesso, Yasmina Shields, Claire Riordan, Nele De Belie
	15:15	5:15 15:30	III CEMENTITIOUS MATERIALS INDUCED BY ACCELERATED CARBONATION	Quoc Tri Phung, Thi Nhan Nguyen, Lander Frederickx
	15.20	15:45		
	15:30	50 15:45		Hao Xue, Zhendi Wang
	15:45	16:00	MODELLING THE CARBONATION OF A HIGH-PERFORMANCE CONCRETE UNDER	Maxime Ressier, Francois Soleilhet, Nicolas Seigneur,
16:00-16:30			SPECIFIC ENVIRONMENTAL CONDITIONS Coffee break / Poster session	Philippe Turcry, Abdelkarim Aït-Mokhtar
10.00-10.50				Sahar Iftikhar, Arezou Babaahmadi, Jelke Dijkstra, Tang
	16:30	16:45	CARBONATION IN CEMENTITIOUS MATERIALS: CRACKS IN MESOPORES	Luping, Ingemar Löfgren
	16:45	17:00	EFFECT OF BLAST FURNACE SLAG FINE AGGREGATE UNDER DIFFERENT STORAGE	Yusuke Koshiishi, Akio Tanaka, Chizuru Kiyohara
	10.45	17.00	ENVIRONMENTAL CONDITIONS ON CONCRETE	
	17:00	17:15	SHRINKAGE CRACK RESISTANCE MECHANISM OF CONCRETE WITH HIGH BLAST-	Mayuko Hirata, Haruki Momose, Tetsushi Kanda, Daijiro
			FURNACE SLAG CONTENT STRENGTH OPTIMIZATION AND DURABILITY OF LIGHTWEIGHT HYBRID BINDER	Tsuji, Masaro Kojima, Kei-Ichi Imamoto, Chizuru Kiyohara
	17:15	17:30	MORTARS BASED ON VOLCANIC PUMICE.	Jesús López Salas, José Iván Escalante-García
16:30-18:00	47.00	47.45		Arthur Listwan, Thibault Charpentier, Céline Cau Dit
16:30-18:00	17:30	17:45	PHOSPHATE CEMENTS FOR TRITIUM SEQUESTRATION	Coumes, Mickaël Payet, Elodie Bernard
	17:45	17:47	FREEZE-THAW, CARBONATION AND SULFATE ATTACK RESISTANCE OF HIGH VOLUME	Zvezdana Bascarevic, Jelena Rakic
			FLY ASH BINDERS	
	17:47	17:49	CARBONATION DURING CYCLIC WET-DRY CONDITIONS IN THE PRESENCE OF CHLORIDES	Stefanie V. Greve-Dierfeld, Daniel Grolimund
			CARBONATION BEHAVIOUR OF CONCRETE CONSIDERING THE CONSTITUENTS OF	Tien-Dung Nguyen, Emilio Bastidas-Arteaga, Rachid Cherif,
	17:49	17:51	COARSE AGGREGATE	Pierre-Yves Mahieux
	17:51	17:53	CARBONATION RESISTANCE OF GGFBS/CALCINED CALY-BASED ALKALI-ACTIVATED	Luis Tambara, Frank Dehn, Gregor Gluth
	17:51	17:55	CONCRETES	Luis ranibara, Frank Denn, Gregor Glutti

Wednesday 28t August

Time slot	start	end	Title	Authors			
	11:00	11:15	PERFORMANCE APPROACH APPLIED TO CONCRETES FOR CONTROLLED MODULUS COLUMNS	Gilles Escadeillas, Nathalie Kouta, Vanessa Mazars, Jean Ostrovsky			
	11:15	11:30	ANALYZING THE IMPACT OF CALCIUM CARBONATE PRECIPITATED BY BACTERIA ON CEMENT MORTAR	Seoeun Oh, Sang-Yeop Chung			
	11:30	11:45	ANTIBACTERIAL PROPERTIES OF SORBATE-MODIFIED ALKALI-ACTIVATED SLAG	Xiaojuan Kang, Hailong Ye			
11:00 - 13:00	11:45	12:00	THE INFLUENCE OF TREATED WOOD FIBERS IN THE BEHAVIOR OF BIO-REINFORCED CEMENT MORTARS	Petrini Kampragkou, Vasiliki Kamperidou, Maria Stefanidou			
	12:00	12:15	INVESTIGATION ON CHLORIDE CONTAMINATION THROUGH MICROBIAL INDUCED CALCIUM CARBONATE PRECIPITATION TREATMENT OF RECYCLED MIXED	Brigitte Nagy, Kai Tandon, Andrea Kustermann			
	12:15	12:30	SUPER-SULPHATED CEMENT – DURABILITY OF ULTRA-LOW CARBON EMISSION CONCRETES	Fabrizio Moro, Sylvia Keβler, Kruspan Peter			
	12:30	12:45	COMPARISON OF THE MECHANICAL AND DURABLE BEHAVIOUR OF SUSTAINABLE MORTARS WITH REDUCED CEMENT CONTAIN WITH LIMESTONE, METAKAOLIN	Miguel Angel De La Rubia, Alvaro Picazo, Cristina Argiz , Encarnacion Reyes , Jaime Galvez , Amparo Moragues , Elvis			
13:00-14:00		Lunch break / Poster session					
	14:00	14:15	EFFECT OF CALCINED MARINE CLAY ON THE STRENGTH, WATER AND CHLORIDE IONS TRANSPORT PROPERTIES OF CONCRETE	Baixing Song , Hongjian Du , Sze Dai Pang			
	14:15	14:30	EFFECT OF CARBONATION ON THE MECHANICAL PROPERTIES OF CONCRETE	Qier Wu, Thomas Rougelot, Hailing Shi, Jian-Fu Shao, Olivier Helson			
	14:30	14:45	NON-DESTRUCTIVE METHOD FOR MONITORING THE EFFECT OF CARBONATION IN CEMENTITIOUS MATRIX THROUGH CONDUCTIVITY MEASUREMNET WITH MINI-	Arezou Baba Ahmadi, Tang Luping, Liming Huang, Ingemar Löfgren			
14:00 - 16:00	14:45	15:00	RESILIENCE ASSESSMENT: MORTAR INCORPORATING CARBONATED FINE RECYCLED CONCRETE AGGREGATES	Chao Qun Lye, Sze Dai Pang			

15:00 15:15 EFFECT OF MIXED RECYCLED AGGREGATES ON QUATE	RNARY BI ENDED HIGH
	Merin Mathew, Dr. Girija K
STRENGTH SELF-COMPACTING CONCRETE	
15:15 15:30 EFFECTS OF BIOCHAR AND ACCELERATED CARBONATI	ON ON THE MICROSTRUCTURE, Harn Wei Kua, Abhimanyu Goel, Jun Hao, Jeremy Teo
MECHANICAL PROPERTIES, CARBON CAPTURE OF LIM	ESTONE CALCINED CLAY
15:30 15:45 EFFECT OF METAKAOLIN CONTENT ON MICROSTRUCT	URE EVOLUTION OF CEMENT Rui Zhang, Shiju Joseph, Özlem Cizer
PASTE INDUCED BY CARBONATION USING PROTON N	MR RELAXOMETRY
15:45 16:00 CLAY POZZOLANA CONCRETE FOR SUSTAINABLE CONS	STRUCTION- FROM Mark Bediako, N Asante, Timothy Ametefe, Solomon
LABORATORY TO FIELD PRACTICE	Adumatta
16:00-16:30 Coff	ee break / Poster session
16:30 16:45 COMPRESSIVE PERFORMANCE OF CEMENTITIOUS MA	TERIAL-FILLED AUXETIC PANEL Mohammad Hajsadeghi, Emmanuel Owoichoechi Momoh,
COMPOSITE STRUCTURES	Amila Jayasinghe, Raffaele Vinai, Prakash Kripakaran, Ken E
16:45 PRINCIPLE AND MECHANICAL PROPERTIES OF PRESTRI	ESSED CONCRETE WITHOUT Aofei Liang, Zhendi Wang
REINFORCEMENT	Abiel Liang, Zhendi Wang
17:00 17:15 ASSESSMENT OF FRESH, STRENGTH AND SHRINKAGE F	PROPERTIES OF CONCRETE Saeid Ghorbani, Jeroen Smet, Ives Swennen
USING VARIOUS SHRINKAGE REDUCING AGENT SOUR	CES Saeld Ghorballi, Jeroen Shiet, ives Swellhen
17:15 17:30 STUDY OF PROPERTIES IN THE FRESH AND HARDENED	STATE OF CONCRETE MIXED Marcos David Dos Santos, Filipe Brito Marinho De Barros,
WITH RECYCLED AGGREGATES	Arnaldo Manoel Pereira Carneiro
17:30 17:45 SCALING LAWS IN PROGRESSIVE COLLAPSE STUDIES	Nada Elkady, Levingshan Augusthus-Nelson, Laurence
16:30-18:00	Weekes
17:45 17:47 ASSESSMENT OF THE IMPACT OF PRE-HYDRATED CEM	ENT ON THE LONG-TERM Traad Alzhrani, Colin Davie, Magdalini Theodoridou
PERFORMANCE OF CONCRETE	Tradu Alzinani, Com Davie, Maguanni Medudihudu
17:47 17:49 ENHANCING THE DURABILITY OF NATURAL FIBER-REIN	IFORCED CEMENTITIOUS Gulsen Nazerian, Guillermo Meza Hernandez, Jun Gu,
COMPOSITES BY CHEMICAL TREATMENT	Hubert Rahier
17:49 17:51 REDUCTION OF POLLUTING GASES THROUGH THE USE	OF ECO-SUSTAINABLE Miguel Angel De La Rubia, Alvaro Picazo, Cristina Argiz,
CEMENTS. A DURABILITY STUDY	Encarnacion Reyes, Jaime Galvez, Amparo Moragues, Elvis
17:51 17:53 ENHANCING CONCRETE SUSTAINABILITY: UTILIZING BI	OCHAR AND CALCIUM Sharareh Shirzad
17:51 17:53 CARBONATE FOR REDUCED CARBON FOOTPRINT	Shururen Shirzuu
17:53 17:55 STRUCTURAL PERFORMANCE OF ELEMENTS REALISED	WITH CUSTAINABLE BINDERS Cignori Blasi Marianovalla Loono Maria Antoniotta Aiallo
17:55 STRUCTURAL PERFORMANCE OF ELEMENTS REALISED	WITH SUSTAINABLE BINDERS Gianni Blasi, Marianovella Leone, Maria Antonietta Aiello

Thursday 29th of August, room

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Time slot	start	end	Title	Authors
				Anthony Soive, Syed Yasir Alam, Safae Berrabeh, Ahmed
	10:30	10:45	SULFATE ATTACK: AN APPROACH BASED ON SULFATES ADSORBED IN C-S-H AND	Loukili
			CALCIUM SILICATE HYDRATES STABILITY UNDER CHEMICALLY AGGRESSIVE	Cédric Roosz, Marie Giroudon, Mehdi Bista, Arij Fawaz,
	10:45	11:00	CONDITIONS	Fructueux Jésugnon Sohounme, Laurie Lacarrière, Alexandra
	11:00	11:15	LEACHING AND CARBONATION MODELLING OF CONCRETE UNDER VARIABLE HYDROTHERMAL CONDITIONS	Layla Ibrahim, Laurie Lacarrière, Thierry Vidal, Alain Sellier
			MIX DESIGN GUIDANCE FOR CARBONATION-RESISTANT ALKALI-ACTIVATED PASTES	Farnaz Aghabeyk, Boyu Chen, Mayank Gupta, Luiz Miranda
	11:15	11:30	INCORPORATING MSWI BOTTOM ASH: INSIGHTS FROM THERMODYNAMICS	De Lima, Yun Chen, Ye Guang
			DURABILITY OF INNOVATIVE CEMENTITIOUS COATINGS FOR CONCRETE	Reem Hoballah, Matthieu Peyre Lavigne, Ahmed Toumi,
10:30 - 13:00	11:30	11:45	WASTEWATER TREATMENT PLANTS: IMPACT OF CRACKS ON BIODETERIORATION	Laurie Lacarrière, Cédric Patapy, Carole Soula, Amr
	11:45	12:00	LIVING CONCRETE WALLS: ENGINEERING BIORECEPTIVITY AND BIOFILMS	Julia Von Werder, Leonie Stohl, Jake Cook, Chiara Tonon
	12:00	12:15	EFFECT OF AGGREGATE SIZE ON LOAD INDUCED THERMAL STRAIN OF CONCRETE AT HIGH TEMPERATURE	Kajanan Selvaranjan, John Provis, Maurizio Guadagnini, Giacomo Torelli
	12:15	12:30	CHEMICAL ACIDIFICATION OF PORTLAND-CEMENT BASED PASTES	Feyza Nur Sahan, O. Burkan Isgor, William Jason Weiss
	12:30	12:45	CORROSION OF SALT CONCRETES IN MAGNESIUM-RICH SALINE SOLUTION SIMULATING EVAPORITE ROCK IN THE MORSLEBEN REPOSITORY	Ricky Henning, Patrick Sturm, Sylvia Keßler, Gregor Gluth
13:00-14:00			Lunch break / Poster session	
	14:00	14:02	RILEM TC GDP. RECENT PROGRESS IN MEASURING GAS DIFFUSION IN CEMENT BASED MATERIALS.	Bruno Huet, Philippe Turcry, Carmen Andrade, David Benavente, Wissem Dridi, Fabien Georget, Andreas Leeman,
	14:02	14:04	RESISTANCE AGAINST SULPHATE OF BINARY AND TERNARY WITH GGBS OR/AND HIGH LIMESTONE CONTENT	Matthieu Bertin, Yoann Jainin, Roberta Alfani, Martin Cyr
	14:02 1	14:02 14:04	SUSTAINABLE TERNARY BLENDED MIXTURE SCC: STRENGTH AND TRANSPORT	
			PROPERTIES	Timothy Kofi Ametefe, Mark Bediako, Jones Owusu Twumasi
	14:04	14:06	SCM REACTIVITY IN MULTICOMPONENT CEMENTS: DIFFERENTIAL EFFECTS OF MIX DESIGN PARAMETERS ON SCM INTERACTIONS	Hasmik Bou Farhat, Guillaume Lepêcheur, Ruben Snellings
	14:06	14:08	INVESTIGATION OF STRUCTURAL AND OPTICAL PROPERTIES OF COAL FLY ASH THIN FILM DOPED WITH T	Rawan Aljabbari, Thamer Alomayri, Faisal G. Al-Maqate, Abeer Alsuwat
	14:08	14:10	PROTON NUCLEAR MAGNETIC RESONANCE (1H NMR) SPECTROSCOPY STUDY ON THE MICROSTRUCTURE OF CEMENT PASTE CONTAINING ELECTRIC ARC FURNACE SLAG	Namkon Lee, Muhammad Haseeb Zaheer
14:00-16:00	14:10	14:12	MICROSTRUCTURE CHARACTERISTICS OF INTERFACIAL TRANSITION ZONE IN CONCRETE BASED ON FLUORESCENT EPOXY IMPREGNATION METHOD	Jiarong Shen
			BIODETERIORATION MAPPING OF LOW CARBON SEWAGE CEMENTITIOUS	Janette Ayoub, Mario Marchetti, Tony Pons, Marcos
	14:12	14:14	MATERIALS FROM RAMAN INSIGHT TO CHEMOMETRICS INPUTS	Oliveira, Marielle Gueguen Minerbe
	14.14		SHORT-TERM INVESTIGATION OF INTERACTIONS OF PLAIN CONCRETE, MARINE	Deeksha Arya Margapuram, Marie Salgues, Fabrice Deby,
	14:14	14:16	MICROORGANISMS, AND SEA WATER FOR THE APPLICATION OF FOWTS	Raphael Lami, Benjamin Erable, Michel Groc, Renaud
	14:16	14:18	KINETIC MODELLING OF THE EFFECT OF SCM FINENESS, CURING TEMPERATURE AND	Guillaume Lepêcheur, Hasmik Bou Farhat, Shiju Joseph,
	14.10	14.10	CONSTITUENT INTERACTIONS ON REACTIVITY	Özlem Cizer, Ruben Snellings
	14:18	14:20	SIMULATING NEUTRON RADIOGRAPHY FOR DESIGN AND INTERPRETATION	Tanner Heatherly, Todd Palmer, Burkan Isgor, Jason Weiss
	14:20	14:22	BEHAVIOR OF CONCRETE EXPOSED TO SODIUM CHLORIDE	Fadi Althoey Althoey

Bituminous materials: properties, sustainability and resilience

Session Chairs: Prof. Eshan Dave, Prof. Gabriele Tebaldi

Time slot	start	end	Title	Authors
	11:30	11:55	RESILIENCE OF ASPHALT PAVEMENTS	Eshan Dave
	11:55	12:10	EXPERIMENTAL EVALUATION OF SELF-HEALING PROPERTIES OF BITUMINOUS BINDERS: OUTCOMES AND CHALLENGES FROM RILEM TC 278-CHA	Fabrizio Miglietta, Roberto M. Aurilio, Lucia Tsantilis, Orazio Baglieri, Hassan Baaj
11:30 - 13:00	12:10	12:25	UNRAVELLING G*/SIN δ AND G*.SIN δ CRITERIA THROUGH PHASE ANGLE ANALYSIS	Sham Ravindranth, Akanksha Pandey
	12:25	12:40	TOWARDS A CONCEPT REPLACING BITUMEN WITH RENEWABLE BIO-BINDER	Michael P. Wistuba, Trifunović Stefan
	12:40	12:55	ASSESSING THE IMPACT OF VOLUMETRIC PROPERTIES ON WMA PERFORMANCE USING HAMBURG WHEEL TRACKING TEST	Jorge Del Valle Corte, Pablo Orosa Iglesias, Ana María Rodríguez Pasandín, Ignacio Pérez Pérez, Santiago Ferro Lojo
13:00 - 14:00			Lunch break - poster session	
	14:00	14:15	ANALYZING THE EFFECT OF ADDITIVES ON THE RHEOLOGICAL PROPERTIES OF SBS MODIFIED BINDERS	Sham Ravindranth, Akanksha Pandey
	14:15	14:30	OPTIMIZING ASPHALT MIX PERFORMANCE FOR HEAVY DUTY PAVEMENTS	Maissa Gharbi, Aybike Öngel, Nicolas Bueche, Mehdi Ould- Henia, Tobias Balmer, Samuel Probst
	14:30	14:45	CODA WAVE INTERFEROMETRY FOR FATIGUE MONITORING AND HEALING CHARACTERIZATION OF ASPHALT MIXTURES	Hassan Baaj, Roberto M. Aurilio
14:00 - 16:00	14:45	15:00	ENCAPSULATED PYROLYTIC REJUVENATOR BASED ON WASTE MINING TYRES TO PROMOTE SELF-HEALING OF MICROCRACKS IN AGED BITUMEN	Jose Concha, Manuel Chávez-Delgado, Erik Alpizar-Reyes, Jose Norambuena-Contreras
14.00 10.00	15:00	15:15	SENSITIVITY OF THE SPECIFIC HEAT CAPACITY OF ASPHALT CONCRETE TO MIXTURE CONSTITUENTS AND CONDITIONING TEMPERATURES	Duygu Demirtürk, Hande Isik Ozturk, Murat Guler
	15:15	15:30	THE EFFECT OF USING PRIME COAT ON THE SURFACE TEMPERATURE OF ASPHALT PAVEMENT	Mohsen Shamsaei, Alan Carter, Michel Vaillancourt
	15:30	15:45	MANDATORY USE OF HIGH VINYL CONTENT SBS POLYMERS FOR BITUMEN MODIFICATION AND PAVEMENT CONSTRUCTION	Sham Ravindranth, Sohel Islam, Sumit Singh, Gd Ransinchung R. N
	15:45	16:00	PROPERTY EROSION IN REACTIVE ELASTOMERIC TERPOLYMER MODIFIED BINDERS: ROLE OF STORAGE TEMPERATURE AND TIME	Sham Ravindranth, Alok Sharma, Gd Ransinchung R. N
16:00-16:30			Coffee break - poster session	•
	16:30	16:55	EVALUATION OF THE MECHANICAL PERFORMANCE OF BSM AS A FUNCTION OF ACTIVE FILLERS AND BITUMINOUS STABILISING AGENTS	Fausto Bisanti, Gabriele Tebaldi, Eshan V. Dave
	16:55	17:10	INFLUENCE OF A SUSTAINABLE MATERIAL PROCESSING OF RECLAIMED ASPHALT ON PERFORMANCE TESTS AND FORECASTS OF ASPHALT PAVEMENTS	Panujan Naguleswaran, Pahirangan Sivapatham, Ines Dragon
	17:10	17:25	INVESTIGATION OF THE PERFORMANCE OF COLD MIX ASPHALT INCLUDING, 50% RAP AND CEMENT	Maissa Gharbi, Nicolas Bueche, Christian Angst
	17:25	17:40	PRESENTATION OF THE ALTERNATIVE PAVING MATERIALS – SUSTAINABILITY TECHNICAL COMMITTEE PROPOSAL	Davide Lo Presti, Emmanuel Chailleux, Ana Jimenez del Barco Carrion, Kamilla Vasconcelos, Filippo Giustozzi
	17:40	17:55	SUSTAINABLE PAVEMENT STRUCTURE BY USING COLD RECYCLING TECHNOLOGY (BSM METHODOLOGY) IN COMPARISON TO TRADITIONAL PAVEMENTS DESIGN	Jibrin Mohammed Kaura, Abdulfatai Adinoyi Murana Murana, Shuaibu Abdulmumin Ahmed, Bilkisu Hassan Sada
16:30-18:30	17:55	17:57	EFFECTS OF LABORATORY COMPACTION METHODS ON PROPERTIES OF COLD RECYCLED ASPHALT MIXTURES	Nicola Carbutti, Eshan Dave, Gabriele Tebaldi, Jo Sias
	17:57	17:59	EVALUATION OF STONE MATRIX ASPHALT DESIGNED WITH UNTREATED RECYCLED CONCRETE AND ASPHALT PAVEMENT AGGREGATES	Lee Leon
	17:59	18:01	IMPACT OF AGING ON CHEMICAL AND RHEOLOGICAL CHARACTERISTICS OF SELF- HEALING ASPHALT BINDER	Nacer Akkouri
	18:01	18:03	LABORATORY INVESTIGATION OF MECHANICAL PROPERTIES AND DURABILITY PERFORMANCE OF CEMENT-TREATED RECLAIMED ASPHALT PAVEMENT BASE WITH	Rishi Singh Chhabra, Gd Ransinchung R. N
	18:03	18:05	RESTORATION OF PHYSICAL PROPERTIES ON LONG-TERM AGED BITUMEN BY EFFECT OF A PYROLYTIC REJUVENATOR BASED ON WASTE TYRES	Manuel Chávez-Delgado, Jose L. Concha, Luis E. Arteaga- Pérez, Jose Norambuena-Contreras
	18:05	18:07	COMPARISON OF COSTS AND BENEFITS OF USING NATURAL AND RECYCLED CONCRETE AGGREGATES IN ASPHALT CONCRETE: A CASE STUDY IN TURKEY	Duygu Demirtürk, Iffet Gamze Mütevelli Özkan

Biobased materials

Session-Chair: Prof. Camille Magniont

Time slot	start	end	Title	Authors
	11:30	11:55	ABOUT THE COMPLEXITY OF A COMPREHENSIVE APPROACH TO MITIGATING AND ADAPTING TO CLIMATE CHANGE WHEN DESIGNING BUILDINGS	Thibaut Lecompte
-	11:55	12:10	BIO-BASED BUILDING MATERIALS: IMPACT OF THE THERMAL CONDUCTIVITY VARIABILITY ON THERMO-HYDRIC BEHAVIOR	Séverine Rosa Latapie, Ariane Abou Chakra, Vincent Sabathier
11:30 - 13:00	12:10	12:25	INFLUENCE OF BIORESOURCE ON MINERAL BINDERS HYDRATION AND VEGETAL CONCRETES COMPRESSIVE STRENGTH	Ana Laura Berger Cokely, Rafik Bardouh, Sofiane Amziane, Evelyne Toussaint, Grégory Mouille, Agathe
	12:25	12:40	CHARACTERIZATION OF THE PHYSICAL AND THERMAL PROPERTIES OF MISCANTHUS FOR BUILDING MATERIAL	Mohammed Yacine Benariba, Anh Dung Tran Le, Dang Mao Nguyen, Geoffrey Promis
	12:40	12:55	INFLUENCE OF SUNFLOWER STALKS PROCESSING PARAMETERS ON THE PROPERTIES OF PITH INSULATING MATERIALS	Myriam Goutière, Aurélie Laborel-Préneron, Camille Magniont
13:00 - 14:00			lunch break - poster session	
	14:00	14:15	STUDY OF THE MECHANICAL BEHAVIOR OF HEMP CONCRETE WITH TWO DIFFERENT MINERAL BINDERS THROUGH DIGITAL IMAGE CORRELATION IN VARIED AGGREGATE	Rafik Bardouh, Evelyne Toussaint, Sofiane Amziane, Sandrine Marceau, Ana Laura Berger Cokely
	14:15	14:30	THE UTILIZATION OF RECYCLED CELLULOSE IN CEMENTITIOUS MATERIALS	David Law, Chamini Liyanage, Chamila Gunasekara
	14:30	14:45	BIO-BASED CORE-SHELL CAPSULES FOR SELF-HEALING CONCRETE WITH CORROSION	Erik Alpizar-Reyes, Mercedes Sánchez-Moreno, M. Ángeles Oliva-Lamarca, Jose Norambuena-Contreras
	14:45	15:00	EXPLORING THE BEHAVIOUR OF HUMIDITY RESPONSIVE MATERIALS	Natalia Pynirtzi, Kumar, Biswajit Debnath, Mahab Aljanaat, Jane Scott, Colin Davie, Ben Bridgens
14:00 - 16:00 -	15:00	15:15	OPTIMIZED VEGETAL WOOLS FOR INDOOR COMFORT: COUPLING FIRE TREATMENT WITH ACOUSTIC AND HYGROTHERMAL PERFORMANCES	Thomas Schatzmayr Welp Sá, Sandrine Marceau, Clément Piégay, Philippe Glé, Fouad Laoutid, Cesar
	15:15	15:30	QUANTIFYING CELLULOSE NANOCRYSTALS ADSORPTION ON CEMENTITIOUS CONSTITUENTS	Sivakumar Ramanathan, Krishna Siva Teja Chopperla, O. Burkan Isgor, W. Jason Weiss
	15:30	15:45	INTEGRATING MOISTURE DYNAMICS INTO GRASSHOPPER ARCHITECTURAL DESIGN WORKFLOW: A PLUGIN TO GRASP THE BENEFITS OF MOISTURE BUFFERING	Magda Posani, Yasmine Priore, Pierre Estève, Emma Livio, Dominique Daudon, Guillaume Habert
	15:45	16:00	POTENTIAL OF LOCAL AGRICULTURAL BY-PRODUCTS FOR VEGETAL CONCRETE DESIGN	Haga Ratsimbazafy, Aurélie Laborel-Préneron, Camille Magniont, Philippe Evon, Pascale Sénéchal
16:00-16:30		<u> </u>	coffee break - poster session	
	16:30	16:55		Monika Woloszyn
	16:55	17:10	CHARACTERIZATION OF MICROSTRUCTURE EVOLUTION OF HEMP CONCRETE IN THE EARLY STAGE BY 3D X-RAY MICROTOMOGRAPHY	Haichuan Liu, Dmytro Kosiachevskyi, Benjamin Smaniotto, Kamilia Abahri
	17:10	17:25	AN ANALYTICAL REVIEW OF THE INFLUENCE OF MICROSTRUCTURE ON THE CHEMICAL, PHYSICAL, AND HYGROTHERMAL PROPERTIES OF PLANT AGGREGATES	Mohammed Yacine Benariba, Anh Dung Tran Le, Dang Mao Nguyen, Geoffrey Promis
	17:25	17:27	ECO-FRIENDLY BUILDING SOLUTIONS: UNVEILING THE POTENTIAL OF WOOD WASTE PANELS FOR SUSTAINABLE CONSTRUCTION INNOVATION	Maya Hajj Obeid, Mickael Pailha, Monika Woloszyn
16:30-18:00	17:25	17:27	100% BIO-BASED MATERIALS FOR COMFORTABLE AND DEMOUNTABLE CONSTRUCTIONS	A. Copin, S. Marceau And M. Guéguen Minerbe
	17:27	17:29	CHARACTERIZATION OF ONE ENDEMIC BAMBOO SPECIE OF AFRICA FOR INDUSTRIAL AND CONSTRUCTION APPLICATIONS	Japhet Noubiap Ngouobe, Thibaut Lecompte, Paul Salomon Ngohe-Ekam, Penlap Landry Hervé, Micheal
	17:29	17:31	INTRODUCING A NOVEL VEGETAL FUNGICIDE FOR PROTECTION OF BIO-BASED INSULATION MATERIALS AGAINST MOULDS	Canelle Vibert Clement, Daouia Messaoudi, César Cegovia
Ī	17:31	17:33	OPTIMIZATION OF THE VINE SHOOTS PRE-TREATMENT APPLIED TO BIO-BASED CONCRETES	Lucas Araujo, Lally Garrigue, Rime Chehade, Stéphane Hans, Myriam Bahrar, Fabbri Antonin, Nassim Sebaibi
	17:33	17:35	TEXTILE HEMP SHIV POTENTIAL AS ALTERNATIVE BIOAGGREGATE FOR HEMP CONCRETE	Paul Soulié, Djillali Mezhoud, Aurélie Laborel- Préneron, Camille Magniont

Data-driven concrete science (AI for concrete material and civil infrastructures)

Session Chairs: Prof. Sandra Nunes Barbosa, Prof. Moncef Nehdi

Time slot	start	end	Title	Authors
	11:30	11:55	WHERE DOES ARTIFICIAL INTELLIGENCE FIT WITHIN OUR CONSERVATIVE CONSTRUCTION WORLD?	Nathan Tregger
	11:55	12:10	PROPOSING AN EXPLICIT MODEL TO PREDICT STRENGTH AND OPTIMIZE MIX DESIGN USING LARGE DATASETS	Züleyha Kanpara Cıvaş, Milan Kundra, Martin Liska,Leon Black, Emilio Garcia-Taengua
11:30 - 1:00	12:10	12:25	EXPLORING DATA FOR PREDICTING CONCRETE PROPERTIES AT EARLY AND LATE AGES	Arnaud Delaplace, Paul O'Hanlon, Louise Harding, Régis Bouchard
	12:25	12:40	A DATA-DRIVEN APPROACH FOR TENSILE STRENGTH OPTIMIZATION IN CEMENT PASTES	Jinane Murr, Syed Yasir Alam, Frederic Grondin
	12:40	12:55		Ridengaoqier E, Imamoto Kei-Ichi, Chizuru Kiyohara, Tamako Abe
1:00 - 2:00		-	lunch break - poster session	
	2:00	2:15	MACHINE LEARNING AND CONCRETE TECHNOLOGY: NEW FRONTIERS	Ravi Patel
	2:15	2:30	NUMERICAL ANALYSIS ON FEASIBLE DATA STRUCTURING AND MODELING POLICIES FOR MACHINE LEARNING APPLICATION TO CEMENTITIOUS MATERIALS	Satoshi Fujimoto
	2:30	2:45	MACHINE LEARNING-BASED PREDICTION OF SCC MORTAR PROPERTIES ACROSS VARIOUS CEMENT TYPES	Woubishet Zewdu Taffese, Sandra Nunes
	2:45	3:00	MULTI-OBJECTIVE OPTIMIZATION OF RECYCLED CONCRETE MIX DESIGN USING MACHINE LEARNING	Haodong Ji, Hailong Ye
	3:00	3:15		Chinnu Mariam Ninan, Anandhakrishnan M, K P Ramaswamy, Alexandra Bertron, R Sajeeb
2:00 - 4:00	3:15	3:17	IMPACT OF DATA CLEANING ON AI MODELS PREDICTING COMPRESSIVE STRENGTH OF ALKALI-ACTIVATED MATERIALS	Woubishet Zewdu Taffese, Sandra Nunes
	3:17	3:19	ENHANCING PREDICTIONS FOR SELF-COMPACTING MORTAR PROPERTIES WITH MULTILAYER PERCEPTRON AND DATA AUGMENTATION	Haji Sami Ullah, Sandra Nunes, Neil Yorke-Smith, Max Hendriks
	3:19	3:21	ARTIFICIAL NEURAL NETWORK FOR PREDICTING THE DURABILITY OF REINFORCED CONCRETE STRUCTURES SUBJECTED TO CARBONATION AND CHLORIDE IONS INGRESS	Paulo Claude, Frédéric Duprat, Thomas De Larrard, Jonathan Mai-Nhu, Patrick Rougeau, Louis Marracci,
	3:21	3:23	PREDICTION OF COMPRESSIVE STRENGTH OF ALKALI-ACTIVATED FLY ASH-GGBS- METAKAOLIN MORTAR USING MACHINE LEARNING MODELS	Muralidhar Kamath, Rahul Ralegaonkar, Adithya Tantri
	3:23	3:25	USING BIG DATA TO DERIVE GGBS ACTIVITY INDICES	Züleyha Kanpara Cıvaş , Milan Kundra, Martin Liska, Leon Black , Emilio Garcia-Taengua
	3:25	3:27	AI-POWERED TOOL FOR PREDICTING LOW CARBON EMISSION CONCRETE MIX DESIGN IN COMPLIANCE WITH INDIAN STANDARDS	Nivin Philip, Jyothish Kj, Jotsna Mariam, Stephy Susan Sebastian, Krishnaraj Sankar

Wood in structures

Session Chairs: Dr. Juan Li, Dr. Bohumil Kasal

Time slot	start	end	Title	Authors
16:00-16:30	coffee break - poster session			
	16:30	16:45	DURABILITY OF WOOD STRUCTURES	Guilhem Greffier, Marianne Perrin, Luis Espinosa, Florent Eyma
	16:45	17:00	FUNDAMENTAL STUDY ON DIAGNOSIS OF TERMITE-INDUCED DETERIORATED TIMBER BY NON SEMI-DESTRUCTIVE METHODS	Sota Ogura, Kei-Ichi Imamoto, Ridengaoqier E, Chizuru Kiyohara
	17:00	17:02	WOOD ADHESIVES FOR STRUCTURAL ENGINEERING WOOD PRODUCTS: LATEST ADVANCES	Anuj Kumar
	17:00	17:02	BASIC STUDY ON DURABILITY OF YAKISUGI	Ryosuke Nakajima, Kei-Ichi Imamoto, Ridengaoqier E, Chizuru Kiyohara
16:30-17:30	17:02	17:04	MANUFACTURING AND STRUCTURAL PERFORMANCE OF STRUCTURAL PARTICLEBOARD	Min Lee, Sang-Min Lee
	17:04	17:06	INTRODUCING A NOVEL VEGETAL INSECTICIDE FOR WOOD PROTECTION	Daouia Messaoudi, Katia Ruel, Jean-Paul Joseleau
	17:06	17:21	DURABILITY AND FIRE RESISTANCE OF STRUCTURAL PARTICLE BOARD	Min Lee, Sang-Min Lee
	17:21	17:23	MODELLING OF A FULL-SCALE THREE-STORY MASS TIMBER BUILDING COLLAPSE COMPARISON OF PRE-TEST PREDICTION	Prashanna Mishra, Mojtaba Harati, Patricio Uarac, John W. Van De Lindt, Andre R. Barbosa, Steve Pryor,
	17:23	17:25	SHAKE TABLE TESTING OF A SIX-STORY MASS TIMBER BUILDING	Patricio A. Uarac P., Andre R. Barbosa, Steven Kontra, Arijit Sinha, Shiling Pei, Steve Pryor, Barbara G.

Materials for energy storage (Sensible-Heat, Latent-Heat, and Thermochemical)

Session Chairs: Prof. Antonio Caggiano, Prof. Jorge Dolado

Wednesday 28 August

Time also	at a st	امیده	Title	Authors
Time slot	start	end		Authors
10:30 - 11:00			Lunch break - poster session	
	11:00	11:25	DEVELOPMENT OF A NEW GENERATION OF MULTI-FUNCTIONAL CONCRETE	Paulo J.M. Monteiro
	11:25	11:40	NEW LOW CARBON FOOTPRINT CEMENT-LIME MORTAR WITH PHASE CHANGE MATERIALS (PCM) AND BIOMASS ASH FOR THERMAL ENHANCEMENT OF BUILDINGS	Cynthia Guardia, Ana Guerrero, Gonzalo Barluenga, Laura Ramallo, Irene Palomar
	11:40	11:55	SUSTAINABLE GEOPOLYMER CEMENTITIOUS COMPOSITE FOR THERMOELECTRIC ENERGY HARVESTING	Mohamad Barzegar, Guido Goracci, Pavel Martauz, Jorge Dolado
11:00 - 13:00	11:55	12:10	CEMENT-BASED ELECTROLYTES FOR ENERGY STORAGE APPLICATIONS	Birhan Alkadir Abdulahi, Juan Wang, Luping Tang, Liming Huang, Arezou Babaahmadi, Ergang Wang
	12:10	12:25	FOAM GLASS LIGHTWEIGHT AGGREGATE LOADED WITH PHASE CHANGE MATERIAL FOR ENERGY STORAGE	Fan Zheng, Hailong Ye
	12:25	12:40	ASSESSING ENERGY PERFORMANCE AND CO2 EMISSION OF BUILDING ENVELOPES ACCOUNTING FOR STRUCTURAL CONSTRAINTS: BUILDING PERFORMANCE	Mohammad Mahdi Khodavirdi Zanjani, Víctor Fachinotti, Luca Moreschi, Stefano Spotorno, Adriana Del Borghi,
	12:40	12:55	FEW-LAYER GRAPHENE-BASED ALKALI-ACTIVATED MORTAR IN THERMAL ENERGY STORAGE ENVELOPES: COMPOSITION AND MECHANICAL PROPERTIES	Mohammad Mahdi Khodavirdi Zanjani, Antonio Caggiano, Víctor Fachinotti, Salvatore Polverino, Juan Basbus
13:00-14:00			coffee break - poster session	
	14:00	14:25	DEVELOPMENT OF A LARGE-SCALE CALCIUM SULFO-ALUMINATE (CSA) FOAMED MATERIAL FOR THERMAL ENERGY STORAGE	Stéphane Ginestet, Noé Beaupere, Tamar Nahhas, Alexandre Malley-Ernewein, Gabriel Samson, Martin Cyr
	14:25	14:40	THERMAL EVALUATION OF LOW-CARBON LIME CEMENT MORTARS WITH PCM FOR 3D PRINTING ARCHITECTURAL APPLICATIONS	Laura Ramallo, Gonzalo Barluenga, Irene Palomar
14:00-15:00	14:40	14:55	EFFECTS OF ELECTROLYTIC COPPER POWDER ON REACTIONS AND THERMAL PROPERTIES OF ONE-PART GEOPOLYMER EXPOSED TO HIGH TEMPERATURE	Nghia Tran, Tuan Nguyen, Tuan Ngo
	14:55	14:57	PHASE CHANGE MATERIALS FOR BUILT ENVIRONMENT APPLICATION	Mohamed Katish, Veronica Ferrandiz-Mas, Steve Allen, Adam Squires
	14:57	14:59	SYNTHESIS OF AMORPHOUS MAGENISUM CARBONATES AND POTENTIAL APPLICATIONS	Kanwal Shahid, Hoang Nguyen, Cise Unluer, Paivo Kinnunen

Energy-efficient buildings, comfort, IAQ

Session Chairs: Prof. Stéphane Ginestet

weanesday	/ 28 August	

Time slot	start	end	Title	Authors
	15:00	15:15	INVESTIGATE THE RELEASE OF PARTICLES FROM SURFACES OF MATERIALS INTO AIR	Mohamad Al Hallak, Thomas VERDIER, Alexandra Bertron, Christine Roques
	15:15	15.20	INVESTIGATING THE DESIGN AND IMPLEMENTATION REQUIREMENTS FOR PROPOSED SUSTAINABLE CITIES IN TWO CASE STUDIES OF ARID AND COLD CLIMATES	Suaad Ridha, Claire Oms, Berangere Lartigue
15:00 - 16:00	15:30	15:45		Valentin Lahaye, Marion Bonhomme, Claire Oms, Nicolas Duport, Stéphane Ginestet
	15:45	15:47		Zineb Boutayeb, Matthieu Labat, Claire Oms, Stéphane Ginestet
	15:47	15.49		Younes Benakcha, Matthieu Labat, Ion Hazyuk, Stéphane Ginestet

Historic materials and buildings and cultural heritage

Session Chairs: Prof. Enrico Sassoni, Prof. Corina Papanicolaou

Wednesday 28 August, room

Time slot	ato ut	and	Title	Authors
Time slot	start	end	LIFE CYCLE ASSESSMENT OF STONE CONSOLIDANTS: WHAT FUNCTIONAL UNIT	Alessandro Dal Pozzo, Giulia Masi, Alessandro Tugnoli,
	11:00	11:25	SHOULD BE ADOPTED?	Enrico Sassoni
			PRECIPITATION TRIGGERED DYNAMICS IN STONE AND CERAMIC TILES: A	Hannelore Derluyn, Syrine Ben Elhadi Hamida, Tinhinane
	11:25	11:40	MESOSCOPIC VIEW	Chekai, Rozeline Wijnhorst, Leo Pel, Peter Moonen,
				Ashraf Nayel, Christian Malaga-Chuquitaype, Lorenzo
	11:40	11:55	STRAIN RATE SENSITIVITY OF PURE HYDRATED LIME MORTAR	Macorini
11:00 - 13:00	11:55	12:10	IN-SITU CO2 MIXING FOR CARBONATION ACCELERATION IN AERIAL LIME MORTAR	Hee-Young Hwang, Sung-Hoon Kang, Sung-Gul Hong
			BRIDGING TRADITION AND INNOVATION: ADVANCING SUSTAINABLE	Marlene Sámano Chong, Alberto Muciño Vélez, Luis
	12:10	12:25	ARCHITECTURAL PRACTICES WITH IN SITU POZZOLANIC REACTION TESTING OF LIME-	Fernando Guerrero Baca, Teresa Pi Puig, Ivonne Rosales
	12:25	12:40	IMPACT OF WIND ON THE SALT WEATHERING RESISTANCE OF MASONRY MORTARS	Anupama V A, Dr. Manu Santhanam
	12:40	12:55	MARBLE CONSERVATION BY AMMONIUM PHOSPHATE: HOW DOES SALT	Alessio Gabrielli, Greta Ugolotti, Giulia Masi, Elisa Boanini,
	12.40	12.55	CONTAMINATION AFFECT THE TREATMENT OUTCOME?	Enrico Sassoni
13:00 - 14:00		-	lunch break - poster sessoin	
	14:00	14:15	THCM BEHAVIOR CHARACTERISATION OF PLATE LIMESTONE SUBMITTED TO FIRE –	Jérémy Lhomme, Emilie Huby, David Giovannacci, Claire
			FROM MICRO TO MACRO SCALE – CULTURE HERITAGE CONSERVATION	Lorentz, Stéphane Logel, Jean-Didier Mertz, Yannick Melinge
	14:15	14:30	SIMULATION OF THE HYGROTHERMAL BEHAVIOUR OF WALLS COMPOSED OF	Margot Ruiz, Valéry Masson, Marion Bonhomme, Stéphane
			TRADITIONAL AND BIO-BASED MATERIALS USING AN URBAN CLIMATE MODEL	Ginestet
	14:30	14:45	HYGROTHERMAL PERFORMANCE INVESTIGATION OF BUILDING LIMESTONES IN	Placide Uwizeyimana, Arnaud Regazzi, Faiza Mnasri, Laurent
			VARIABLE CLIMATE	Clerc, Eric Garcia-Diaz, Philippe Devillers, Frédéric Dubois,
	14:45	15:00	CONDITION ASSESSMENT OF CENTURY-OLD REINFORCED CONCRETE BUILDING WITH	Kei-Ichi Imamoto, Chizuru Kiyohara, Yasufumi Nerome, Yuri
14:00 - 16:00			MORE THAN 60% OF GROUND GRANULATED BLAST FURNACE SLAG	Odajima, Ridengaoqier E, Junyi Chen, Toru Kinose
	15:00	15:15	ADAPTATION OF EXISTING BUILDINGS IN RESPONSE TO CLIMATE CHANGE	Brunella Balzano, Shahram Sharifi
	15:15	15:15 15:30	INFLUENCE FROM FORMING PRESSURES ON PROPERTIES OF FIRED CLAY DISCS	Frederikke Brandt Feldthus, Gunvor M. Kirkelund, Lisbeth
			CONTAINING SEWAGE SLUDGE ASH	M. Ottosen, Ida Bertelsen
	15:30	15:32	ANALYZING HISTORICAL MORTARS FOR THE DESIGN OF RESTORATION-COMPATIBLE	Pagona Noni Maravelaki
	15:30	15:30 15:32	ONES: APPLICATION TO THE RAYMOND BASTION, CORFU, GREECE	
	15:32	15:34	THE EARTH BRICK HOUSE "24H" OF UGA CAMPUS, AS PEDAGOGIC OBJECT AND	Dominique Daudon, Martin Pointet, Laurent Galichet,
	15.52	10.04	THERMAL COMFORT REAL TIME DEMONSTRATOR IN SERVICE	Thierry Joffroy, Yannick Sieffert, Laurent Oxarango, Team E-
16:00-16:30		1	coffee break - poster session	
	16:30	16:55	TRM-TO-MASONRY RESIDUAL BOND CHARACTERISTICS AS A FUNCTION OF	Corina Papanicolaou
			TEMPERATURE	·····
	16:55	17:10	SEISMIC STUDY OF REINFORCED BRICK MASONRY STRUCTURES	Nadia Tarifa, Zakaria Ilyes Djamai, Frédéric Duprat
	17:10	17:25	MECHANICAL BEHAVIOUR OF THE SEXPARTITE VAULTS OF NOTRE-DAME DE PARIS CATHEDRAL	Pierre Morenon, Anne-Sophie Colas, Frédéric Dubois, Denis Garnier, Stéphane Morel, Paul Nougayrède, Thomas Parent,
			COMPARATIVE ANALYSIS OF ADOBE STRUCTURES BUILDING CODES OF DIFFERENT	Somayeh Omidvari, Thierry Joffroy, Philippe Garnier, Majid
16:30-18:00	17:25	17:40	COUNTRIES PRONE TO SEISMIC HAZARDS	Hajmirbaba
	17:40	17:55	(DE)CONSTRUCTION OF FORTIFED HERITAGE IN THE MINHO RIVER VALLEY	Tiago Rodrigues, João Cabeleira, Ana M. T. Martins- Nepomuceno
	17:55	17:57	SEISMIC RISK ASSESSMENT OF TERRACES WITH DRY STONE RETAINING WALLS TYPICAL OF THE CENTRAL ZONE OF THE ANDES	Sandra Santa-Cruz, Paola Ita, Dominique Daudon
	17:57	17:59	SEISMIC BEHAVIOR OF DRY STONES WALLS : DEM SIMULATION FOR UNCERTAINTY ESTIMATION	Dominique Daudon, Ansheng Chen, Julien Baroth

Low-CO₂, low-energy, low-resources processes, recycling

Session Chairs: Prof. Cédric Patapy, Prof. Ruben Snellings

Wednesday 28 August

Time slot	start	end	Title	Authors
	11:00	11:25	CARBON SEQUESTRATION IN CONCRETE – POTENTIAL AND CHALLENGES	Mateusz Wyrzykowski, Pietro Lura
-	11:25	11:40	COMPARING THE DEGREE OF CARBONATION OF HARDENED CEMENT PASTE BY WET-	Dayoung Oh, Zhiwei Zhao, Zhijiang Li, Yaming Jin, Ryoma
	11.25	11.40	DRY CYCLE CARBONATION METHODS	Kitagaki
	11:40	11:55	CO2 SEQUESTRATION EFFECT ON THE PORE STRUCTURE OF CEMENT PASTE ANALYSED VIA TIME-DOMAIN PROTON NUCLEAR MAGNETIC RESONANCE (1H NMR)	Muhammad Haseeb Zaheer, Namkon Lee, Jung Jun Park
	11:55	12:10	UNDERSTANDING THE ROLE OF HIGH TEMPERATURE (120°C VS 20°C) ON CARBONATION REACTIVITY OF CEMENT WASTE AND STEEL SLAG POWDERS	Hao Yu, Tung-Chai Ling
11:00 - 1:00	12:10	12:25	EVALUATION OF STEEL SLAG AS CO2-BINDER AND SUPPLEMENTARY CEMENTITIOUS	Giada Biava, Maciej Zajac, Mohsen Ben Haha,
			MATERIAL (SCM) AQUEOUS CARBONATION OF BASIC OXYGEN FURNACE SLAG: A REVIEW OF	Claudia Capone, Elza Bontempi
	12:25	12:40	MECHANISM, INFLUENCING FACTORS, AND APPLICATION POTENTIAL	Hamideh Mehdizadeh
	12:40	12:55	THE POTENTIAL OF BIO-MEDIATED CO2 SEQUESTRATION IN CEMENTITIOUS MATERIALS	Xiulin Chen, Zhidong Zhang, Ueli Angst
	12:55	12:57	STUDY ON THE ACCELERATED CARBONATION OF RECLAIMED WATER SLUDGE IN CO2	Hoon Moon, Namkon Lee, Jung Jun Park, Indong Jang, Gi-
	12.55	12.57	NANOBUBBLE WATER FOR CO2 SEQUESTRATION	Joon Park, Gum-Sung Ryu
	12:57	12:59	EFFICIENCY OF DRY ICE-BASED CO2 SEQUESTRATION IN CONCRETE	Deepak Kumar Kamde, Shihas Melikkattil Shamsudheen,
12.00 14.00			Lunch break - poster session	Surendra K. Manjrekar, P.A. Muhammed Basheer
13:00 - 14:00			STUDY ON THE PHYSICAL PROPERTIES OF MORTAR USING F-C2S BASED CO2-FIXING	
	14:00	14:15	ADMIXTURE	Hara Hirofumi, Masataka Ushiro, Taiichiro Mori
	14:15	14:30	DEVELOPMENT OF CARBON NEUTRAL CONCRETE CONTAINING RECYCLED CCU MATERIALS AND F-C2S AND REDUCTION OF CO2 IN THE APPLICATION OF	Yukiko Nishioka, Kouhei Eguchi, Daijiro Tsuji, Masaro Kojima
	14:30	14:45	CONCRETE WITH RECYCLED (BELITE) CEMENT CLINKER - A COMBINATION OF	Macielle Vivienne Deiters, Jesko Gerlach,
	14:50	50 14.45	CLIMATE PROTECTION AND RESSOURCE EFFICIENCY	Katrin Schumacher, Tobias Schack, Uwe Schweike,
	14:45	15:00	CONCRETE CARBON MIXING FOR SUSTAINABLE CONCRETE PRODUCTION	Marco Davolio, Stefano Gelain, Federico Furlani, Giovanni Muciaccia, Liberato Ferrara
14:00 - 16:00	15:00 15:15	.5:00 15:15	DEVELOPMENT OF CO2 IMMOBILIZED INTERLOCKING BLOCK WITH RECYCLED GLASS	Hiroshi Kasai, Toshinari Mukai, Takemasa Kitahara,
			CULLET AGGREGATE BY HIGH-CONCENTRATION ACCELERATED CARBONATION	Koji Fushimi
		15:30	EFFECT OF STRENGTH AT THE START OF CARBONATION IN EARLY AGE ON FINAL	Hiroaki Yamano, Mio Sakai, Kumar Avadh,
			STRENGTH AND CO2 FIXATION	Takeshi Torichigai, Kengo Seki, Haru Tanabe
	15:30	15:45	NOVEL TYPOLOGY OF ACCELERATED CARBONATION CURING: USING DRY AND PRE- SOAKED BIOCHAR TO TUNE CARBON CAPTURE AND MECHANICAL PROPERTIES OF	Harn Wei Kua, Sarah Ming Hwee Tan
	15:45	16:00	CARBONATION SHRINKAGE EVALUATION IN ORDINARY PORTLAND CEMENT AND	Karen Midori Masunaga, Panisa Sangkeaw, Takeshi Iyoda
46.00 46.20			HIGH SLAG CONTENT BLENDED CEMENT-BASED HARDENED MATERIALS	
16:00-16:30			Coffee break - poster session CHARACTERIZATION SCHEME FOR ASHES TO SUPPORT THE UTILIZATION IN	Lisbeth M. Ottosen, Gunvor M. Kirkelund, Ebba Schnell,
	16:30	16:45	DIFFERENT CONSTRUCTION MATERIALS	Frederikke Brandt Feldthus, Godfred Appiah, Huilin Li,
			CALCINATION OF TUNNEL EXCAVATION MATERIAL AND USE AS SUPPLEMENTARY	Björn Siebert, Christoph Budach, Pierre Müller, Thomas
	16:45	17:00	CEMENTITIOUS MATERIAL IN CONCRETE	Heiermann, Stephan Uebachs
	17:00	17:15	REVIEW OF RECYCLED AGGREGATE PROCESSING TECHNIQUES AND QUALITY CONTROL MEASURES IN THE SOUTH AFRICAN CONTEXT	Areej Gamieldien, Hans Beushausen, Mark Alexander
	17:15	17:17	ALKALI-ACTIVATED MATERIAL – OIL COMPOSITES: TOWARDS RESOURCE EFFICENCY,	Cyrill Grengg, Ognjen Rudic, Marcella Ruschi Mendes Saade,
			HIGH DURABILITY AND CO2 NEUTRALITY UTILIZING GREEN CARBONATE-ACTIVATED SLAG BINDERS FOR ECO-FRIENDLY	Florian Mittermayr
16:30-17:30	17:17	17:19	STABILIZATION OF WASTE MARINE MUD	Zhen Tan, Hailong Ye
10.50-17.50	17:19	17:21	THE FEASIBILITY STUDY OF USING RECYCLED CONCRETE POWDER WITH INCREASED CEMENTITIOUS CONTENT AS A BINDER MATERIAL	Rong Huang, Junjie Wang, Kefei Li, Lei Xu
	17:21	17:23	BUILDING WITH BIOLOGY AS A BINDER MATERIAL BUILDING WITH BIOLOGY ARCHITECTURAL ADVANCEMENTS THROUGH ADDITIVE	Maria De Los Angeles Ortega Del Rosario, Antonio Alberto Jaén Ortega, Miguel Chen Austin
	17:23	17:25	THE UTILIZATION OF RECYCLED CELLULOSE IN CEMENTITIOUS MATERIALS	David Law, Chamini Liyanage, Chamila Gunasekara
	17:25	17:27	MECHANICAL AND THERMAL PERFORMANCE OF LIGHTWEIGHT ULTRA-HIGH-	Zushi Tian, Hailong Ye
			PERFORMANCE CONCRETE WITH EXPENDED GLASS AGGREGATE THERMAL AND MICRO-STRUCTURAL ANALYSIS OF SYNTHESIZED CALCIUM	
	17:27	17:29	CARBONATE ADDITIONS TO PORTLAND CEMENT	Anfal Alaibani, Mariam AlSaeedi, Mohammad Abdulsalam

13:00 - 14:00		lunch break - poster session			
	14:00	14:25	PILOT SCALE DEMONSTRATION OF CAMBRIDGE ELECTRIC CEMENT	Shiju Joseph, Rohit Prajapati, Patricio Burdiles, Julian Allwood, Cyrille Dunant	
	14:25	14:40	UPDATE ON TECHNOLOGIES FOR CLAY CALCINATION	Fernando Martirena-Hernandez	
	14:40	14:55	BREAKING THROUGH THE 50% CLINKER CONTENT LIMIT WITH LC3 CEMENTS	Franco Zunino	
14:00 - 16:00	14:40	14:55	EFFECTS OF QUARRY AND RECYCLED CONCRETE WASTE AS RAPID USE STABILIZERS FOR CLAY SOILS	Lee Leon	
14:00 - 16:00	14:55	15:10	THE FEASIBILITY STUDY OF USING RECYCLED CONCRETE POWDER WITH INCREASED CEMENTITIOUS CONTENT AS A BINDER MATERIAL	Rong Huang, Junjie Wang, Kefei Li, Lei Xu	
	15:10	15:25	MULTI-OBJECTIVE DECISION-MAKING IN THE REALM OF BLENDED CEMENT MIXTURES.	Debadri Som, Tobias Hertel, Glenn Beersaerts, Panagiotis Patrinos, Yiannis Pontikes	

	15:25	15:40	PHYSICAL PROPERTIES OF PERVIOUS CONCRETE WITH CLINKER-FREE CEMENT	Tamako Abe, Kei-Ichi Imamoto, Ridengaoqier E, Chizuru Kiyohara
	15:40	15.55	STRENGTH OPTIMIZATION OF SUSTAINABLE LIGHTWEIGHT HYBRID BINDER MORTARS BASED ON VOLCANIC PUMICE AND DURABILITY TESTS.	Jesús López Salas, José Iván Escalante-García
16:00-16:30	coffee break - poster session			
	4:30	4:45	HYGROSCOPIC BEHAVIOUR OF ECO-FRIENDLY GYPSUM MORTAR WITH RECYCLED POLYURETHANE FOAM	Alba Rodrigo-Bravo
16:30-17:00	4:45	4:47	MIXTURE DESIGN AND COMPRESSIVE STRENGTH OF CONCRETE WITH POSITIVE INTRODUCTION OF A LARGE QUANTITY OF AIR	Naoki Hashimoto, Hiroki Suyama, Koji Takasu, Hidehiro Koyamada
10.30-17.00	4:47	4:49	EVALUATION OF SHEAR STRENGTH PARAMETERS OF SUSTAINABLE UTILIZATION OF SCRAP TIRES DERIVED GEO-MATERIALS FOR CIVIL ENGINEERING APPLICATIONS	Ahmad Hakamy
	4:49	4:51	SUSTAINABLE REPURPOSING OF ELECTROPLATING WASTE SLUDGE FOR DEVELOPING POLYMER BASED ECOFRIENDLY BRICKS	Sivasankara Rao Meda, Sanjay Kumar Sharma, G D Tyagi, Sharma Charul, Tank Ishan

Corrosion, Maintenance and Repair of Reinforced Concrete Structures

Session Chair: Prof. Deepak Kumar Kamde

Wednesday 28 August

Time slot	start	end	Title	Authors
	11:00	11:25	LESSONS FROM THREE DECADES OF RESEARCH ON THE DURABILITY OF REINFORCED C	Hans Beushausen
-			THE ROLE OF INTERFACIAL VOIDS ON THE CORROSION OF STEEL IN REINFORCED	Shishir Mundra, Emanuele Rossi, Luka Malenica,
	11:25	11:40	CONCRETES – PECULARITIES AND RELEVANCE	Mohit Pundir, Ueli M Angst
	11:40	11:55	ELECTROCHEMICAL STUDY OF STEEL REINFORCEMENT IN SYNTHETIC PORE	Ali Nikoonasab, Marina Licht, Michael Raupach, Gregor J.
11:00 - 13:00			SOLUTIONS OF GGBFS-CONTAINING CEMENTS EXPERIMENTAL AND NUMERICAL EVIDENCE OF MACRO CELL CORROSION CURRENT	G. Gluth Lucas Hess, Raoul François, Laurent Boutillon, Lionel Linger,
	11:55	12:10	PREVALENCE IN CHLORIDE-INDUCED CORROSION AT LOAD-INDUCED CRACK	Valérie L'Hostis
	12:10	12:25	EFFECTS OF VARIOUS WATER REPELLANT COATINGS ON MOISTURE, ELECTRICAL	Pakawat Sancharoen, Somnuk Tangtermsirikul
			RESISTIVITY AND CARBONATION OF CONCRETE COMPARATIVE CORROSION BEHAVIOUR OF PLASTICALLY-DEFORMED MILD, TMT	
	12:25	12:40	AND STAINLESS STEEL BARS IN CHLORIDE-CONTAMINATED SIMULATED CONCRETE	Bhanu Prakash Malladi, Prasanna Kumar Behera
	12:40	12:55	THE ROLE OF MOISTURE IN CARBONATED CONCRETE: THE CORROSION	Thilo Schmid, Cristhiana Albert, Zhidong Zhang, Ueli Angst
13:00 - 14:00	12.40	12.55	PERFORMANCE OF BLENDED CEMENTS	
13:00 - 14:00			lunch break - poster session	Fabio Enrico Furcas, Alexander German, Frank Winnefeld,
	14:00	14:15	THE CORROSION BEHAVIOUR OF STEEL IN MG-BASED BINDERS	Ueli Angst
	14:15	14:30	SPATIAL DISTRIBUTION OF CORROSION PRODUCTS IN REINFORCED CONCRETE	Wenjun Zhu, Yi Ren, Raoul François
_			UNDER STRAY CURRENT ENVIRONMENT ENHANCING CEMENT DURABILITY AGAINST SALT CRYSTALLIZATION THROUGH THE	
	14:30	14:45	INTRODUCTION OF A CARBOXYLIC ACID-DERIVED INHIBITOR	Maria Carla Ciacchella
	14:45	15:00	A PRACTICAL MODEL FOR REPAIR EVALUATION AND SERVICE LIFE ESTIMATION OF	Harshit Agrawal, Swathy Manohar, Salman Muhammad
14:00 - 16:00			FIELD STRUCTURE UNDER MARINE EXPOSURE EVALUATION OF INPUT PARAMETERS FOR THE ELECTROCHEMICAL MODELLING OF	
	15:00	15:15	CATHODIC PROTECTION SYSTEMS IN REINFORCED CONCRETE	Keerthi Vadakke Thalakkal, Radhakrishna Pillai
	15:15	15:30	INVESTIGATION OF CHANGES IN CEMENT PASTE ELECTROCHEMICAL PROPERTIES	Abdel Razzak El Zohby, Raphaelle Pouhet, Laurie
_			UNDER THE EFFECT OF IMPOSED CURRENTS MAINTAINED OVER TIME REHABILITATION OF MARITIME WORKS USING GFRP REINFORCEMENTS: SPANISH	Lacarrière, Stéphane Laurens Asunción Morales Hortelano, Laura Juárez Gonzalez,
	15:30	15:45	PRACTICAL CASES	Álvaro Ruiz Emparanza, Rafael Ybarra Huesa
	15:45	16:00	SUSTAINABLE INFRASTRUCTURE CONSTRUCTION: AN INDIAN CASE STUDY ON HYDEL	S. Thalaimalaisamy, A. Basavaraj, D. Joseline And P.
16:00-16:30			STRUCTURES coffee break - poster session	Arunachalam
	4.20	4.55	PRINCIPLES OF THE IMPACT OF CLIMATE ON THE CORROSION PROPAGATION	
	4:30	4:55	PRINCIPLES OF THE IMPACT OF CLIMATE ON THE CORROSION PROPAGATION PROCESS	Carmen Andrade
	4:30 4:55	4:55 5:10	PRINCIPLES OF THE IMPACT OF CLIMATE ON THE CORROSION PROPAGATION PROCESS SPATIAL DISTRIBUTION OF CORROSION PRODUCTS IN REINFORCED CONCRETE	Carmen Andrade Wenjun Zhu, Yi Ren, Raoul François
	4:55	5:10	PRINCIPLES OF THE IMPACT OF CLIMATE ON THE CORROSION PROPAGATION PROCESS	Wenjun Zhu, Yi Ren, Raoul François
			PRINCIPLES OF THE IMPACT OF CLIMATE ON THE CORROSION PROPAGATION PROCESS SPATIAL DISTRIBUTION OF CORROSION PRODUCTS IN REINFORCED CONCRETE UNDER STRAY CURRENT ENVIRONMENT	Wenjun Zhu, Yi Ren, Raoul François Yao Luan, Keita Suzuki, Muhammad Ejaz
-	4:55	5:10	PRINCIPLES OF THE IMPACT OF CLIMATE ON THE CORROSION PROPAGATION PROCESS SPATIAL DISTRIBUTION OF CORROSION PRODUCTS IN REINFORCED CONCRETE UNDER STRAY CURRENT ENVIRONMENT EVALUATION OF BOND STRENGTH BETWEEN SUPERABSORBENT POLYMER-ADDED	Wenjun Zhu, Yi Ren, Raoul François Yao Luan, Keita Suzuki, Muhammad Ejaz Maria Antonietta Aiello Aiello, D Coffetti, L Coppola,
-	4:55 4:55 5:10	5:10 5:10 5:25	PRINCIPLES OF THE IMPACT OF CLIMATE ON THE CORROSION PROPAGATION PROCESS SPATIAL DISTRIBUTION OF CORROSION PRODUCTS IN REINFORCED CONCRETE UNDER STRAY CURRENT ENVIRONMENT EVALUATION OF BOND STRENGTH BETWEEN SUPERABSORBENT POLYMER-ADDED SHCC AND CONCRETE SUBSTRATE	Wenjun Zhu, Yi Ren, Raoul François Yao Luan, Keita Suzuki, Muhammad Ejaz
	4:55 4:55	5:10 5:10	PRINCIPLES OF THE IMPACT OF CLIMATE ON THE CORROSION PROPAGATION PROCESS SPATIAL DISTRIBUTION OF CORROSION PRODUCTS IN REINFORCED CONCRETE UNDER STRAY CURRENT ENVIRONMENT EVALUATION OF BOND STRENGTH BETWEEN SUPERABSORBENT POLYMER-ADDED SHCC AND CONCRETE SUBSTRATE BOND-SLIP BEHAVIOUR OF CEMENT-LESS CONCRETE WITH STEEL AND FRP BARS HOW FRP REINFORCEMENT CONTRIBUTES TO THE SUSTAINABILITY OF CONCRETE STRUCTURES	Wenjun Zhu, Yi Ren, Raoul François Yao Luan, Keita Suzuki, Muhammad Ejaz Maria Antonietta Aiello Aiello, D Coffetti, L Coppola, M Leone, A Napoli, R Realfonzo, V Romanazzi
	4:55 4:55 5:10	5:10 5:10 5:25	PRINCIPLES OF THE IMPACT OF CLIMATE ON THE CORROSION PROPAGATION PROCESS SPATIAL DISTRIBUTION OF CORROSION PRODUCTS IN REINFORCED CONCRETE UNDER STRAY CURRENT ENVIRONMENT EVALUATION OF BOND STRENGTH BETWEEN SUPERABSORBENT POLYMER-ADDED SHCC AND CONCRETE SUBSTRATE BOND-SLIP BEHAVIOUR OF CEMENT-LESS CONCRETE WITH STEEL AND FRP BARS HOW FRP REINFORCEMENT CONTRIBUTES TO THE SUSTAINABILITY OF CONCRETE STRUCTURES STUDY ON DETERMINATION OF MEASUREMENT POINTS FOR QUANTITATIVE	Wenjun Zhu, Yi Ren, Raoul François Yao Luan, Keita Suzuki, Muhammad Ejaz Maria Antonietta Aiello Aiello, D Coffetti, L Coppola, M Leone, A Napoli, R Realfonzo, V Romanazzi Laura Juárez Gonzalez, Asunción Morales Hortelano, Álvaro
	4:55 4:55 5:10 5:25 5:40	5:10 5:10 5:25 5:40 5:42	PRINCIPLES OF THE IMPACT OF CLIMATE ON THE CORROSION PROPAGATION PROCESS SPATIAL DISTRIBUTION OF CORROSION PRODUCTS IN REINFORCED CONCRETE UNDER STRAY CURRENT ENVIRONMENT EVALUATION OF BOND STRENGTH BETWEEN SUPERABSORBENT POLYMER-ADDED SHCC AND CONCRETE SUBSTRATE BOND-SLIP BEHAVIOUR OF CEMENT-LESS CONCRETE WITH STEEL AND FRP BARS HOW FRP REINFORCEMENT CONTRIBUTES TO THE SUSTAINABILITY OF CONCRETE STRUCTURES	Wenjun Zhu, Yi Ren, Raoul François Yao Luan, Keita Suzuki, Muhammad Ejaz Maria Antonietta Aiello Aiello, D Coffetti, L Coppola, M Leone, A Napoli, R Realfonzo, V Romanazzi Laura Juárez Gonzalez, Asunción Morales Hortelano, Álvaro Ruiz Emparanza, Francisco De Caso Hojae Lee, Eun-A Seo
	4:55 4:55 5:10 5:25	5:10 5:10 5:25 5:40	PRINCIPLES OF THE IMPACT OF CLIMATE ON THE CORROSION PROPAGATION PROCESS SPATIAL DISTRIBUTION OF CORROSION PRODUCTS IN REINFORCED CONCRETE UNDER STRAY CURRENT ENVIRONMENT EVALUATION OF BOND STRENGTH BETWEEN SUPERABSORBENT POLYMER-ADDED SHCC AND CONCRETE SUBSTRATE BOND-SLIP BEHAVIOUR OF CEMENT-LESS CONCRETE WITH STEEL AND FRP BARS HOW FRP REINFORCEMENT CONTRIBUTES TO THE SUSTAINABILITY OF CONCRETE STRUCTURES STUDY ON DETERMINATION OF MEASUREMENT POINTS FOR QUANTITATIVE ANALYSIS OF CHLORIDE CONCENTRATION IN CONCRETE STRUCTURES ASSESSING STEEL CORROSION RESISTANCE IN LIMESTONE CALCINED CLAY CEMENT (LC3) WITH CORROSION INHIBITOR EXPOSED TO CARBONATION	Wenjun Zhu, Yi Ren, Raoul François Yao Luan, Keita Suzuki, Muhammad Ejaz Maria Antonietta Aiello Aiello, D Coffetti, L Coppola, M Leone, A Napoli, R Realfonzo, V Romanazzi Laura Juárez Gonzalez, Asunción Morales Hortelano, Álvaro Ruiz Emparanza, Francisco De Caso Hojae Lee, Eun-A Seo Umesh Hule, Radhakrishna G. Pillai
16:30-18:00	4:55 4:55 5:10 5:25 5:40	5:10 5:10 5:25 5:40 5:42	PRINCIPLES OF THE IMPACT OF CLIMATE ON THE CORROSION PROPAGATION PROCESS SPATIAL DISTRIBUTION OF CORROSION PRODUCTS IN REINFORCED CONCRETE UNDER STRAY CURRENT ENVIRONMENT EVALUATION OF BOND STRENGTH BETWEEN SUPERABSORBENT POLYMER-ADDED SHCC AND CONCRETE SUBSTRATE BOND-SLIP BEHAVIOUR OF CEMENT-LESS CONCRETE WITH STEEL AND FRP BARS HOW FRP REINFORCEMENT CONTRIBUTES TO THE SUSTAINABILITY OF CONCRETE STRUCTURES STUDY ON DETERMINATION OF MEASUREMENT POINTS FOR QUANTITATIVE ANALYSIS OF CHLORIDE CONCENTRATION IN CONCRETE STRUCTURES ASSESSING STEEL CORROSION RESISTANCE IN LIMESTONE CALCINED CLAY CEMENT (LC3) WITH CORROSION INHIBITOR EXPOSED TO CARBONATION THE CHEMISTRY AT THE STEEL-CONCRETE INTERFACE AND ITS INFLUENCE ON	Wenjun Zhu, Yi Ren, Raoul François Yao Luan, Keita Suzuki, Muhammad Ejaz Maria Antonietta Aiello Aiello, D Coffetti, L Coppola, M Leone, A Napoli, R Realfonzo, V Romanazzi Laura Juárez Gonzalez, Asunción Morales Hortelano, Álvaro Ruiz Emparanza, Francisco De Caso Hojae Lee, Eun-A Seo Umesh Hule, Radhakrishna G. Pillai Shishir Mundra, Mohit Pundir, Barbara Lothenbach, David
16:30-18:00	4:55 4:55 5:10 5:25 5:40 5:42 5:44	5:10 5:10 5:25 5:40 5:42 5:44 5:46	PRINCIPLES OF THE IMPACT OF CLIMATE ON THE CORROSION PROPAGATION PROCESS SPATIAL DISTRIBUTION OF CORROSION PRODUCTS IN REINFORCED CONCRETE UNDER STRAY CURRENT ENVIRONMENT EVALUATION OF BOND STRENGTH BETWEEN SUPERABSORBENT POLYMER-ADDED SHCC AND CONCRETE SUBSTRATE BOND-SLIP BEHAVIOUR OF CEMENT-LESS CONCRETE WITH STEEL AND FRP BARS HOW FRP REINFORCEMENT CONTRIBUTES TO THE SUSTAINABILITY OF CONCRETE STRUCTURES STUDY ON DETERMINATION OF MEASUREMENT POINTS FOR QUANTITATIVE ANALYSIS OF CHLORIDE CONCENTRATION IN CONCRETE STRUCTURES ASSESSING STEEL CORROSION RESISTANCE IN LIMESTONE CALCINED CLAY CEMENT (LC3) WITH CORROSION INHIBITOR EXPOSED TO CARBONATION	Wenjun Zhu, Yi Ren, Raoul François Yao Luan, Keita Suzuki, Muhammad Ejaz Maria Antonietta Aiello Aiello, D Coffetti, L Coppola, M Leone, A Napoli, R Realfonzo, V Romanazzi Laura Juárez Gonzalez, Asunción Morales Hortelano, Álvaro Ruiz Emparanza, Francisco De Caso Hojae Lee, Eun-A Seo Umesh Hule, Radhakrishna G. Pillai Shishir Mundra, Mohit Pundir, Barbara Lothenbach, David S. Kammer, Ueli M Angst
16:30-18:00	4:55 4:55 5:10 5:25 5:40 5:42	5:10 5:10 5:25 5:40 5:42 5:44	PRINCIPLES OF THE IMPACT OF CLIMATE ON THE CORROSION PROPAGATION PROCESS SPATIAL DISTRIBUTION OF CORROSION PRODUCTS IN REINFORCED CONCRETE UNDER STRAY CURRENT ENVIRONMENT EVALUATION OF BOND STRENGTH BETWEEN SUPERABSORBENT POLYMER-ADDED SHCC AND CONCRETE SUBSTRATE BOND-SLIP BEHAVIOUR OF CEMENT-LESS CONCRETE WITH STEEL AND FRP BARS HOW FRP REINFORCEMENT CONTRIBUTES TO THE SUSTAINABILITY OF CONCRETE STRUCTURES STUDY ON DETERMINATION OF MEASUREMENT POINTS FOR QUANTITATIVE ANALYSIS OF CHLORIDE CONCENTRATION IN CONCRETE STRUCTURES ASSESSING STEEL CORROSION RESISTANCE IN LIMESTONE CALCINED CLAY CEMENT (LC3) WITH CORROSION INHIBITOR EXPOSED TO CARBONATION THE CHEMISTRY AT THE STEEL-CONCRETE INTERFACE AND ITS INFLUENCE ON CORROSION OF THE STEEL REINFORCEMENT EFFECTS OF MOISTURE TRANSPORT ON DURABILITY OF STEEL REINFORCED CONCRETE: WORK PROPOSED BY RILEM TC MMS	Wenjun Zhu, Yi Ren, Raoul François Yao Luan, Keita Suzuki, Muhammad Ejaz Maria Antonietta Aiello Aiello, D Coffetti, L Coppola, M Leone, A Napoli, R Realfonzo, V Romanazzi Laura Juárez Gonzalez, Asunción Morales Hortelano, Álvaro Ruiz Emparanza, Francisco De Caso Hojae Lee, Eun-A Seo Umesh Hule, Radhakrishna G. Pillai Shishir Mundra, Mohit Pundir, Barbara Lothenbach, David
16:30-18:00	4:55 4:55 5:10 5:25 5:40 5:42 5:44	5:10 5:10 5:25 5:40 5:42 5:44 5:46	PRINCIPLES OF THE IMPACT OF CLIMATE ON THE CORROSION PROPAGATION PROCESS SPATIAL DISTRIBUTION OF CORROSION PRODUCTS IN REINFORCED CONCRETE UNDER STRAY CURRENT ENVIRONMENT EVALUATION OF BOND STRENGTH BETWEEN SUPERABSORBENT POLYMER-ADDED SHCC AND CONCRETE SUBSTRATE BOND-SLIP BEHAVIOUR OF CEMENT-LESS CONCRETE WITH STEEL AND FRP BARS HOW FRP REINFORCEMENT CONTRIBUTES TO THE SUSTAINABILITY OF CONCRETE STRUCTURES STUDY ON DETERMINATION OF MEASUREMENT POINTS FOR QUANTITATIVE ANALYSIS OF CHLORIDE CONCENTRATION IN CONCRETE STRUCTURES ASSESSING STEEL CORROSION RESISTANCE IN LIMESTONE CALCINED CLAY CEMENT (LC3) WITH CORROSION INHIBITOR EXPOSED TO CARBONATION THE CHEMISTRY AT THE STEEL-CONCRETE INTERFACE AND ITS INFLUENCE ON COOROSION OF THE STEEL REINFORCEMENT EFFECTS OF MOISTURE TRANSPORT ON DURABILITY OF STEEL REINFORCED CONCRETE: WORK PROPOSED BY RILEM TC MIMS SERVICE LIFE OF REINFORCED CONCRETE (RC) SYSTEMS WITH CORROSION	Wenjun Zhu, Yi Ren, Raoul François Yao Luan, Keita Suzuki, Muhammad Ejaz Maria Antonietta Aiello Aiello, D Coffetti, L Coppola, M Leone, A Napoli, R Realfonzo, V Romanazzi Laura Juárez Gonzalez, Asunción Morales Hortelano, Álvaro Ruiz Emparanza, Francisco De Caso Hojae Lee, Eun-A Seo Umesh Hule, Radhakrishna G. Pillai Shishir Mundra, Mohit Pundir, Barbara Lothenbach, David S. Kammer, Ueli M Angst
16:30-18:00	4:55 4:55 5:10 5:25 5:40 5:42 5:44 5:44 5:46 5:48	5:10 5:10 5:25 5:40 5:42 5:44 5:46 5:48 5:50	PRINCIPLES OF THE IMPACT OF CLIMATE ON THE CORROSION PROPAGATION PROCESS SPATIAL DISTRIBUTION OF CORROSION PRODUCTS IN REINFORCED CONCRETE UNDER STRAY CURRENT ENVIRONMENT EVALUATION OF BOND STRENGTH BETWEEN SUPERABSORBENT POLYMER-ADDED SHCC AND CONCRETE SUBSTRATE BOND-SLIP BEHAVIOUR OF CEMENT-LESS CONCRETE WITH STEEL AND FRP BARS HOW FRP REINFORCEMENT CONTRIBUTES TO THE SUSTAINABILITY OF CONCRETE STRUCTURES STUDY ON DETERMINATION OF MEASUREMENT POINTS FOR QUANTITATIVE ANALYSIS OF CHLORIDE CONCENTRATION IN CONCRETE STRUCTURES ASSESSING STEEL CORROSION RESISTANCE IN LIMESTONE CALCINED CLAY CEMENT (LC3) WITH CORROSION INHIBITOR EXPOSED TO CARBONATION THE CHEMISTRY AT THE STEEL-CONCRETE INTERFACE AND ITS INFLUENCE ON CORROSION OF THE STEEL REINFORCEMENT EFFECTS OF MOISTURE TRANSPORT ON DURABILITY OF STEEL REINFORCED CONCRETE: WORK PROPOSED BY RILEM TC MMS	Wenjun Zhu, Yi Ren, Raoul François Yao Luan, Keita Suzuki, Muhammad Ejaz Maria Antonietta Aiello Aiello, D Coffetti, L Coppola, M Leone, A Napoli, R Realfonzo, V Romanazzi Laura Juárez Gonzalez, Asunción Morales Hortelano, Álvaro Ruiz Emparanza, Francisco De Caso Hojae Lee, Eun-A Seo Umesh Hule, Radhakrishna G. Pillai Shishir Mundra, Mohit Pundir, Barbara Lothenbach, David S. Kammer, Ueli M Angst Zhidong Zhang, Chunsheng Zhou Shefali Aggarwal, Radhakrishna Pillai
16:30-18:00	4:55 4:55 5:10 5:25 5:40 5:42 5:44 5:44	5:10 5:10 5:25 5:40 5:42 5:44 5:46 5:48	PRINCIPLES OF THE IMPACT OF CLIMATE ON THE CORROSION PROPAGATION PROCESS SPATIAL DISTRIBUTION OF CORROSION PRODUCTS IN REINFORCED CONCRETE UNDER STRAY CURRENT ENVIRONMENT EVALUATION OF BOND STRENGTH BETWEEN SUPERABSORBENT POLYMER-ADDED SHCC AND CONCRETE SUBSTRATE BOND-SLIP BEHAVIOUR OF CEMENT-LESS CONCRETE WITH STEEL AND FRP BARS HOW FRP REINFORCEMENT CONTRIBUTES TO THE SUSTAINABILITY OF CONCRETE STRUCTURES STUDY ON DETERMINATION OF MEASUREMENT POINTS FOR QUANTITATIVE ANALYSIS OF CHLORIDE CONCENTRATION IN CONCRETE STRUCTURES ASSESSING STEEL CORROSION RESISTANCE IN LIMESTONE CALCINED CLAY CEMENT (LC3) WITH CORROSION INHIBITOR EXPOSED TO CARBONATION THE CHEMISTRY AT THE STEEL-CONCRETE INTERFACE AND ITS INFLUENCE ON CORROSION OF THE STEEL REINFORCEMENT EFFECTS OF MOISTURE TRANSPORT ON DURABILITY OF STEEL REINFORCED CONCRETE: WORK PROPOSED BY RILEM TC MMS SERVICE LIFE OF REINFORCED CONCRETE (RC) SYSTEMS WITH CORROSION INHIBITING ADMIXTURES STUDY OF LONG-TERM EFFECT OF AMINO-ALCOHOL BASED CORROSION INHIBITOR IN CONCRETE	Wenjun Zhu, Yi Ren, Raoul François Yao Luan, Keita Suzuki, Muhammad Ejaz Maria Antonietta Aiello Aiello, D Coffetti, L Coppola, M Leone, A Napoli, R Realfonzo, V Romanazzi Laura Juárez Gonzalez, Asunción Morales Hortelano, Álvaro Ruiz Emparanza, Francisco De Caso Hojae Lee, Eun-A Seo Umesh Hule, Radhakrishna G. Pillai Shishir Mundra, Mohit Pundir, Barbara Lothenbach, David S. Kammer, Ueli M Angst Zhidong Zhang, Chunsheng Zhou
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16:30-18:00	4:55 4:55 5:10 5:25 5:40 5:42 5:44 5:46 5:48 5:50 5:52	5:10 5:10 5:25 5:40 5:42 5:44 5:46 5:48 5:50 5:52 5:52	PRINCIPLES OF THE IMPACT OF CLIMATE ON THE CORROSION PROPAGATION PROCESS SPATIAL DISTRIBUTION OF CORROSION PRODUCTS IN REINFORCED CONCRETE UNDER STRAY CURRENT ENVIRONMENT EVALUATION OF BOND STRENGTH BETWEEN SUPERABSORBENT POLYMER-ADDED SHCC AND CONCRETE SUBSTRATE BOND-SLIP BEHAVIOUR OF CEMENT-LESS CONCRETE WITH STEEL AND FRP BARS HOW FRP REINFORCEMENT CONTRIBUTES TO THE SUSTAINABILITY OF CONCRETE STRUCTURES STUDY ON DETERMINATION OF MEASUREMENT POINTS FOR QUANTITATIVE ANALYSIS OF CHLORIDE CONCENTRATION IN CONCRETE STRUCTURES ASSESSING STEEL CORROSION RESISTANCE IN LIMESTONE CALCINED CLAY CEMENT (LC3) WITH CORROSION INHIBITOR EXPOSED TO CARBONATION THE CHEMISTRY AT THE STEEL-CONCRETE INTERFACE AND ITS INFLUENCE ON COOROSION OF THE STEEL REINFORCEMENT EFFECTS OF MOISTURE TRANSPORT ON DURABILITY OF STEEL REINFORCED CONCRETE: WORK PROPOSED BY RILEM TC MMS SERVICE LIFE OF REINFORCED CONCRETE (RC) SYSTEMS WITH CORROSION INHIBITING ADMIXTURES STUDY OF LONG-TERM EFFECT OF AMINO-ALCOHOL BASED CORROSION INHIBITOR IN CONCRETE ELECTROCHEHMICAL BEHAVIOR OF CONTINUOUS GALVANIZED REBARS IN SEVERE CORROSIVE ENVIRONMENT THE INFLUENCE OF SILICA ON THE FORMATION OF CORROSION PRODUCTS IN CEMENTITIOUS SYSTEMS ANALYSING THE STRUCTURAL BEHAVIOUR OF CORROSION DAMAGED HIGH	Wenjun Zhu, Yi Ren, Raoul François Yao Luan, Keita Suzuki, Muhammad Ejaz Maria Antonietta Aiello Aiello, D Coffetti, L Coppola, M Leone, A Napoli, R Realfonzo, V Romanazzi Laura Juárez Gonzalez, Asunción Morales Hortelano, Álvaro Ruiz Emparanza, Francisco De Caso Hojae Lee, Eun-A Seo Umesh Hule, Radhakrishna G. Pillai Shishir Mundra, Mohit Pundir, Barbara Lothenbach, David S. Kammer, Ueli M Angst Zhidong Zhang, Chunsheng Zhou Shefali Aggarwal, Radhakrishna Pillai Ting-Yu Hao, Chao Xu, Da Shi Vimal Mohan, Radhakrishna Pillai, P. Srinivasan Fabio Enrico Furcas, Shishir Mundra, Barbara Lothenbach,
16:30-18:00	4:55 4:55 5:10 5:25 5:40 5:42 5:44 5:46 5:48 5:50 5:52 5:52 5:54	5:10 5:25 5:40 5:42 5:44 5:46 5:48 5:50 5:52 5:54 5:56	PRINCIPLES OF THE IMPACT OF CLIMATE ON THE CORROSION PROPAGATION PROCESS SPATIAL DISTRIBUTION OF CORROSION PRODUCTS IN REINFORCED CONCRETE UNDER STRAY CURRENT ENVIRONMENT EVALUATION OF BOND STRENGTH BETWEEN SUPERABSORBENT POLYMER-ADDED SHCC AND CONCRETE SUBSTRATE BOND-SLIP BEHAVIOUR OF CEMENT-LESS CONCRETE WITH STEEL AND FRP BARS HOW FRP REINFORCEMENT CONTRIBUTES TO THE SUSTAINABILITY OF CONCRETE STRUCTURES STUDY ON DETERMINATION OF MEASUREMENT POINTS FOR QUANTITATIVE ANALYSIS OF CHLORIDE CONCENTRATION IN CONCRETE STRUCTURES ASSESSING STEEL CORROSION RESISTANCE IN LIMESTONE CALCINED CLAY CEMENT (LC3) WITH CORROSION INHIBITOR EXPOSED TO CARBONATION THE CHEMISTRY AT THE STEEL-CONCRETE INTERFACE AND ITS INFLUENCE ON CORROSION OF THE STEEL REINFORCEMENT EFFECTS OF MOISTURE TRANSPORT ON DURABILITY OF STEEL REINFORCED CONCRETE: WORK PROPOSED BY RILEM TC MMS SERVICE LIFE OF REINFORCED CONCRETE (RC) SYSTEMS WITH CORROSION INHIBITING ADMIXTURES STUDY OF LONG-TERM EFFECT OF AMINO-ALCOHOL BASED CORROSION INHIBITOR IN CONCRETE ELECTROCHEHMICAL BEHAVIOR OF CONTINUOUS GALVANIZED REBARS IN SEVERE CORROSIVE ENVIRONMENT THE INFLUENCE OF SILICA ON THE FORMATION OF CORROSION PRODUCTS IN CEMENTITIOUS SYSTEMS	Wenjun Zhu, Yi Ren, Raoul François Yao Luan, Keita Suzuki, Muhammad Ejaz Maria Antonietta Aiello Aiello, D Coffetti, L Coppola, M Leone, A Napoli, R Realfonzo, V Romanazzi Laura Juárez Gonzalez, Asunción Morales Hortelano, Álvaro Ruiz Emparanza, Francisco De Caso Hojae Lee, Eun-A Seo Umesh Hule, Radhakrishna G. Pillai Shishir Mundra, Mohit Pundir, Barbara Lothenbach, David S. Kammer, Ueli M Angst Zhidong Zhang, Chunsheng Zhou Shefali Aggarwal, Radhakrishna Pillai Ting-Yu Hao, Chao Xu, Da Shi Vimal Mohan, Radhakrishna Pillai, P. Srinivasan Fabio Enrico Furcas, Shishir Mundra, Barbara Lothenbach, Ueli Angst

Non-destructive inspection of concrete materials and structures

Session Chair: Prof. Dimitrios Aggelis

Time slot	start	end	Title	Authors
lime slot	start	ena		Authors
	10:30	10:55	NDT METHODS AND STRUCTURAL HEALTH MONITORING TECHNIQUES FOR THE INVESTIGATION AND CONSERVATION OF HISTORIC BUILDINGS	Christian Grosse
	10:55	11:10	USE OF NON-DESTRUCTIVE CONCRETE QUALITY ASSESSMENT FOR SELECTIVE DEMOLITION OF A HIGHWAY BRIDGE	Marija Nedeljkovic
	11:10	11:25	DETECTION OF TILE DETACHMENT ON EXTERNAL FINISHING WALL BY SOLENOID TAPPING DEVICE REBOUNDING	Yosuke Ito, Daiki Tanaka, Shinji Kawabe
	11:25	11:40	TRC-TO-CONCRETE BOND CHARACTERIZATION THROUGH ACOUSTIC EMISSION	Klajdi Toska, Dimitrios Aggelis, Tine Tysmans, Anne- Lise Beaucour, Albert Noumowe
10:30 - 13:00	11:40	11:55	LESSONS LEARNT ON QUANTIATIVE SPATIAL CHLORIDE ANALYSIS USING LIBS AND	Sabine Kruschwitz, Annika L. Schultheiss, Gerd Wilsch, Andreas Bogner, Ravi A. Patel
	11:55	12:10	MONITORING THE EFFECT OF C-S-H SEED ON THE HYDRATION AND STRENGTH DEVELOPMENT OF TERNARY BINDER CONCRETE	Liming Huang, Tang Luping, Ingemar Löfgren, Arezou Babaahmadi
	12:10	12:25	MONITORING OF REINFORCED CONCRETE DURABILITY: WEATHER EFFECT	Nuria Rebolledo, Julio Torres, Javier Sanchez
	12:25	12:40	MULTIMODAL NON-DESTRUCTIVE MONITORING OF TRC SANDWICH PANELS IN BENDING	Nicolas Ospitia, Ali Pourkazemi, Eleni Tsangouri, Johan Stiens, Dimitrios Aggelis
	12:40	12:55	NON-DESTRUCTIVE EVALUATION OF LOAD-CARRYING CONCRETE ELEMENTS WITH LIMITED CORE SAMPLES	Serkan Karatosun, Katja I.M. Thygesen, Thomas Ingeman-Nielsen, Jesper Stærke Clausen, Lisbeth M.
13:00 - 14:00			lunch break - poster sesison	
	2:00	2:25	ANALYSIS OF FAILURE PRECURSORS PARAMETERS IN HETEROGENEOUS MATERIALS USING ACOUSTIC EMISSION SIGNALS	Giuseppe Lacidogna, Leandro Ferreira Friedrich, Édiblu Cezar, Ignacio Iturrioz
	2:25	2:40	ULTRASONIC INSPECTION FOR ADVANCED STRUCTURAL APPLICATIONS	Nicolas Ospitia, Gerlinde Lefever, Nele De Belie, Dimitrios Aggelis
	2:40	2:55	HAMMERING TEST FOR THE EXTERNAL TILE FINISHING WALL BY PATTERN RECOGNITION OF SPECTROGRAM	Daiki Tanaka, Yosuke Ito, Shinji Kawabe
14:00 - 16:00	2:55	3:10	INFLUENCE OF INCLUSION ON THE VOLUME CHANGES IN SEALED CONDITIONS OF SLAG ACTIVATED BY SODIUM HYDROXIDE: A MULTI-TECHNIQUE INVESTIGATION	Maïté Lacante, Brice Delsaute, Dimitrios Aggelis, Stéphanie Staquet
	3:10	3:25	EFFECT OF SUPPLEMENTARY CEMENTITIOUS MATERIALS ON THE PERFORMANCE OF REINFORCED CONCRETE STRUCTURES UNDER CORROSION USING EMI TECHNIQUE	Tarun Morwal, Shilpa Pal, Nirendra Dev, Tushar Bansal
	3:25	3:40	APPLICATION OF ELASTIC WAVE TOMOGRAPHY TO ASESS ADDITIVELY MANUFACTURED CONCRETE	Tomoki Shiotani, Hisafumi Asaue, Norihiko Ogura, Nobuhiro Okude, Sagradyan Artur, Tetsuya Ishida
	3:40	3:55	ASSESSMENT OF TEST RESULT PRECISION FOR INDIRECT ULTRASONIC PULSE VELOCITY PERFORMED ON CONCRETE	Katja I.M. Thygesen, Lisbeth Ottosen, Serkan Karatosun
16:00-16:30			coffee break - poster session	
	16:30	16:45	A COMBINATION OF NON-DESTRUCTIVE TECHNIQUES FOR MONITORING EARLY-AGE CONCRETE	Eleni Korda, Eleni Tsangouri, Didier Snoeck, Geert De Schutter, Dimitrios Aggelis
	16:45	16:47	ENHANCED HYDRAULIC FRACTURE TRACKING IN LABORATORY SCALE USING COMPRESSED SENSING	Chen Gu
16:30-17:00	16:47	16:49	STUDY ON AI-BASED CRACK IMAGE DIAGNOSIS OF EXTERIOR FINISH COATINGS	Matsuzawa Koichi, Kaori Nemoto, Naoki Mishima, Naoko Tsuchiya, Kiyofumi Nakada, Tadatsugu Kage
	16:49	16:51	POTENTIAL OF ELECTRIC AND ELECTROMAGNETIC SIGNAL FOR HYDRIC STATE DIAGNOSIS OF BUILDING STRUCTURES. CASE OF 2 INNOVATIVE TEHCNICS	Anne-Laure Perrier, Noémie Prime, Andre Revil, Cédric Bermond
	16:51	16:53	ENHANCING RETURNED FRESH CONCRETE REUSABILITY THROUGH DIGITAL SURVEILLANCE	Emeso Ojo

Earth-based materials and construction

Session Chairs: Prof. Céline Perlot-Bascoulès, Prof. Antonin Fabbri

Time slot	start	end	Title	Authors
	10:30	10:55	EARTH CONSTRUCTION: A CLAY SCIENCE PERSPECTIVE	Fionn Mc Gregor
	10:55	11:10	DRYING-INDUCED CRACKING OF RAW EARTH PLASTER	Karbala Ghida, Keita Emmanuel, Vandamme Matthieu, Belin Patrick, Maillet Benjamin, Sidi-Boulenouar Rahima
	11:10	11:25	EXCAVATED EARTH AS A SUBSTITUTE FOR CONCRETE AGGREGATES	Secret Marion, Claude Sophie, Aubert Jean-Emmanuel, Tornay Nathalie, Fourment Yvon, Broilliard Philippe
	11:25	11:40	SEISMIC VULNERABILITY OF REINFORCED MASONRY STRUCTURES	Vieux-Champagne Florent
10:30 - 1:00	11:40	11:55	EXTRUDING EARTH-BASED MATERIALS CONTROLLING GEOMETRICAL STRAND PROPERTIES BY MATERIAL AND PROCESS PARAMETERS IN 3D PRINTING	Charkhab Esmaeili Mehrzad, Noda Sakiko, Mai Inka
10.30 - 1.00	11:55	12:10	FIRE BEHAVIOUR OF A CAST POURED EARTH CONCRETE	Gombault Jules, Molez Laurent, Maigen Hervé, Lanos Christophe
	12:10	12.25	INFLUENCE OF BIO-GEOBASED MATERIAL FORMULATION ON DRYING KINETICS AND MICROBIAL PROLIFERATION	Eva Taillade, Thomas Verdier, Sophie Claude, Hugo Cagnon, Jean-Emmanuel Aubert
	12:25	12:40	OPTIMIZING HEAVY COB WALL DESIGN FOR TEMPERATE-SEMI-OCEANIC ENVIRONMENTS	Kabore Aguerata, Ouellet-Plamondon Claudiane
	12:40	12:42		Phan Alexiane, Chehade Rime, Fabbri Antonin, Bahrar Myriam, Streiff Francois, Sebaibi Nassim
	12:42	12:44	DESIGN FOR ADDITIVE MANUFACTURING (DFAM) IN CLAY-BASED CONSTRUCTION: A PATHWAY TO SUSTAINABLE BUILDING SOLUTIONS	Melany N. Medina P., Maria De Los Angeles Ortega Del Rosario, Antonio Alberto Jaén Ortega, Rafael Duque, Luis
	12:44	12:46	INFLUENCE OF SYNTHETIC CARBON FIBER PRESENCE ON THE MULTI-PHYSICAL BEHAVIOR OF RAMMED EARTH	Rouba Kassab, Hamza Allam, Laurent Ibos
1:00 - 2:00			lunch break - poster session	
	2:00	2:15		Kyritsi Eirini, Kyriakidis Andreas, Philokyprou Maria, Ioannou Ioannis
2:00 - 3:00	2:15	2:30	DETERMINATION OF THE POROSITY OF EARTH-BASED BUILDING MATERIALS USING VACUUM-ASSISTED SATURATION WITH ORGANIC LIQUIDS	Panagiotou Rafail, Ioannou Ioannis
2.00 - 3:00	2:30	2:45	STABILIZED EARTH: RETHINKING OLD APPROACHES	Selina Vaculik, Thomas Matschei
	2:45	2:47	THE IMPACT OF PROTOCOL IN THE COMPRESSIVE STRENGTH OF UNSTABILIZED RAMMED EARTH.	Eluckkiya Angalakurichi Nallasamy, Florent Vieux- Champagne, Yannick Sieffert, Yann Malecot, Martin Pointet

Innovation Day

Session Chairs: Lionel Linger, Ivan Drouadaine

Time slot	start	end	Title	Authors
Time slot	Start	cita	THE FUTURE OF THE EUROPEAN STANDARDIZATION OF CEMENT: INPUT OF THE	/ definitions
	10:30	10:55	RILEM TC-PHC	Laurent Izoret
	10:55	11:10	LOW CARBON CONCRETE BASED ON HIGH FILLER CONTENT	François Cussigh, Lionel Linger, Matthieu Jeusset, Yvan Thiebaut, Thomas Holder
	11:10	11:25	LOW CARBON CONCRETE DEVELOPED VIA PERFORMANCE-BASED APPROACH: A CASE	Mouna Boumaaza, Thomas Holder, Paul-Alexandre Franco,
			STUDY OF THE NEW LARIVOT BRIDGE IN FRENCH GUIANA	Julien Crespy, Ferdinand Vitry, Line Ladouceur, Rani Antoun,
	11:25	11:40	MODELLING AND BENCHMARK OF WATER POST-COOLING PIPES IN MASS CONCRETE	Thomas Jochyms, Pierre-Edouard Denis, Yvan Thiebault,
		11:40	USING EMBEDDED ELEMENTS WITH A FINITE VOLUME APPROACH	Laurent Boutillon, Lionel Linger
10:30 - 1:00	11:40	11:55	PERFORMANCE-BASED STANDARDS FOR HYDRAULIC CEMENTS: MECHANICAL	
10.30 - 1.00	11:40	11:55	STRENGTH AND DIMENSIONAL STABILITY	Federica Boscaro, Laurent Izoret, Karen Scrivener
	11:55	12:10	STUDY ON TECHNICAL STANDARDS FOR CONCRETE CONTRIBUTES TO THE	
	11:55	12:10	REDUCTION OF CO2 EMISSIONS	Tadatsugu Kage, Koichi Matsuzawa, Kiyofumi Nakada
	12:10	12:25	FULLY RECYCLED LOW-CARBON CONCRETE FOR TWO NEW BUILDINGS NEAR PARIS,	Valère Eichwald, Serge Nana, Blandine Albert, Lilia
	12.10	12.25	FRANCE	Caragacean, Jean-Michel Laye, Mouloud Behloul, Christophe
	12:25	12:40	VALORIZATION OF EXCAVATED SOILS IN THE PRODUCTION OF P1-TYPE CURBS	Younes Farez, Khadim Ndiaye, Prosper Plyia, Salima Aggoun,
	12:25	12:40		Romain Lafon
	12:40	12:55	ENVIRONMENTAL IMPACT OPTIMISATION OF ISOSTATIC BEAMS	Noémie Riez, Sébastien Maitenaz, Xavier Estrella, Nicolas
	12.40	12.55		Metge, Corentin Fivet
1:00 - 2:00			lunch break	
	2:00	2.00 2.15	DESIGN AND CONSTRUCTION OF FRC TUNNEL PRECAST SEGMENT WITH FIBRE	Benoit De Rivaz
			ENABLED CARBON FOOTPRINT REDUCTION	
	2:15	2.15 2.30	DURABILITY DESIGN OF TUNNELS AND UNDERGROUND STRUCTURES IN THE	Mehdi Bakhshi, Behrouz Esmaeilkhanian, Verya Nasri, Lionel
2:00 - 3:00			ONTARIO LINE SOUTH	Linger
	2:30	2:45	GENERAL NEEDS FROM INDUSTRY FOR COLAS	Xavier Carbonneau
	2:45	2.45 3.00	FULL-DEPTH RECLAMATION (FDR) – PROPOSAL FOR MECHANISTICAL-EMPIRICAL	Mustapha Masdan, Marc Proteau, Alan Ezaoui, Amélie
			DESIGN PARAMETERS - FEEDBACK FROM THE REGINA BYPASS PPPS PROJECT	Griggio, Bertrand Pouteau
	3:00	3:00 3:15	IMPLEMENTATION AND ASSESSMENT OF SEVERAL CRACKING TESTS TO BETTER	Fayçal Lahjiri, Bertrand Pouteau, Eshan Dave, Amélie
			ASSESS THE DURABILITY OF ASPHALT MIXES	Griggio, Marc Proteau
3:00 - 4:00	3:15	3:30		
5.00-4.00	3:30	3:45	ROUND TABLE DISCUSSION	
	3:45	4:00		
4:00-4:30			coffee break	

Corrosion of engineering materials – Session for young scientists

Session Chairs: Dr. Meeke van Ede, Dr. Lucas Michel

Time slot	start	end	Title	Authors
	10:30	10:45	INTRODUCTION OF THE RILEM YOUNG SCIENTIST CORROSION GROUP	Meeke van Ede, Lucas Michel
	10:45	11:00	DOES THE STEEL MANUFACTURING PROCESS AFFECT THE CORROSION SUSCEPTIBILITY OF REINFORCING STEEL BARS?	Ahmad Takriti, Sylvia Kessler
	11:00	11:15	PASSIVATION OF STRESSED STEEL IN SIMULATED CONCRETE PORE SOLUTION	Zheng Dong, Zhou Meng, Chuanqing Fu
	11:15	11:30	PRELIMINARY RESULTS FROM AN EXPERIMENTAL STUDY ON REINFORCEMENT CORROSION IN SIMULATED NATURAL CONDITIONS	C. Martens, R. Caspeele and E. Verstrynge
10:30 - 1:00	11:30	11:45	IMPACT OF CRACKS ON CHLORIDE-INDUCED REINFORCEMENT CORROSION	Samanta Robuschi, Karin Lundgren, and Mette Rita Geiker
	11:45	12:00	CHLORIDE-INDUCED CORROSION OF STEEL IN THREE LOW-CARBON CONCRETES: LOW-CLINKER, ALKALI-ACTIVATED SLAG AND SUPERSULFATED CEMENT	Lola Doussang, Gabriel Samson, Fabrice Deby, Bruno Huet, Emmanuel Guillon, Martin Cyr
F	12:00	12:15	CORROSION ASSESSMENT OF EMBEDDED STEEL IN NANO-MODIFIED SEAWATER- MIXED CONCRETE	Sundar Rathnarajan, Pawel Sikora
	12:15	12:30	THE INFLUENCE OF CARBONATION ON THE PENETRATION DEPTH OF HYDROPHOBIC SEALANTS IN CONCRETE WITH VARIOUS BINDER TYPES	Tais Mei Dos Santos Soares, Hans Beushausen, Joanitta Ndawula
	12:30	12:45	DISCUSSION	
	12:45	13:00	DISCUSSION	
L:00 – 2:00			lunch break - poster session	•
	2:00	2:15	SERVICE LIFE OF REINFORCED CONCRETE (RC) SYSTEMS WITH CORROSION INHIBITING ADMIXTURES	Shefali Aggarwal, Radhakrishna Pillai
	2:15	2:30	ELECTROCHEMICAL MONITORING OF REINFORCED CONCRETE WITH PLANT-BASED CORROSION INHIBITOR	Natalia Delbianco, Rocio Peralta Ring, Carla Priano, Edgardo Fabian Irassar
	2:30	2:45	EFFECT OF STRAY CURRENTS FROM DC-POWERED RAIL SYSTEMS ON THE DURABILITY AND STRENGTH OF REINFORCED CONCRETE COLUMNS	lgor Lapiro, Kovler Konstantin, Eid Rami
2:00 - 4:00	2:45	3:00	INVESTIGATION OF CATHODIC PROTECTION OF REINFORCED CONCRETE COVERED WITH BIOFILMS FOR THE APPLICATION OF FOWTS	Deeksha Arya Margapuram, Marie Salgues, Raphael Lami, Benjamin Erable, Michel Groc,
	3:00	3:15	INTERPRETATION OF ELECTROCHEMICAL RESPONSES TO UNDERSTAND THE CORROSION INITIATION OF PRESTRESSING STEEL IN SLAG BASED BINDERS	Sreelakshmi S, Radhakrishna Pillai
	3:15	3:30	DISCUSSION	
	3:30	3:45		
1:00-4:30	coffee break - poster session			

Characterisation and modelling on small scales
Session Chairs: Prof. Amine Bouibes, Prof. Laurie Lacarrière

Wednesday 28 August

			1	
Time slot	start	end		Authors
11:00 - 1:00	11:00	11:25	UNDERSTANDING CEMENT PASTE COHESION AND DEGRADATION MECHANISMS FROM ATOMISTIC MODELLING	Roland Pellenq
	11:25	11:40	ADVANCED SUSTAINABLE GRAPHENE NANO-COATED GEOPOLYMER MATERIALS	Ali Zaoui
	11:40	11:55	IATOMIC STRUCTURE OF CALICUM SUICATE HYDRATES: BUIK AND SURFACE STRUCTURE	Aslam Kunhi Mohamed, Ziga Casar, Bowen Paul, Karen Scrivener
	11:55	12:10	MICROSCOPIC MECHANISM OF CREEP BEHAVIOR IN CALCIUM SILICATE HYDRATES: REAXFF- BASED MOLECULAR DYNAMICS STUDY	Ouail Reguieg, Amine Bouibes, Laurie Lacarrière
	12:10	12:25	ENHANCING NANOMECHANICAL AND MICROSTRUCTURAL PROPERTIES OF CEMENT COMPOSITES WITH CARBON NANOFIBERS AND GRAPHITIZED MULTI-WALLED CARBON	Salim Barbhuiya, Bibhuti Das
	12:25	12:40	EXPLORING THE IMPACT OF IRON (FE) DOPING ON ETTRINIGTE STABILITY IN CEMENT- BASED MATERIALS : INSIGHTS FROM ATOMISTIC SIMULATIONS	Majdouline Laanaiya, Amine Bouibes, Laurie Lacarrière
	12:40	12:55	TOWARD A COMPUTATIONAL MOLECULAR TECHNOLOGY FOR COMPLEX REACTION SYSTEMS IN CEMENTITIOUS MATERIALS: THE RED MOON APPROACH	Masataka Nagaoka, Amine Bouibes, Ouail Reguieg, Laurie Laca
1:00 - 2:00		lunch break - poster session		
	2:00	2:15	WHY MUD IS STICKY (OR, HOW CLAY PARTICLES INTERACT ACROSS THIN WATER FILMS)	lan Bourg
	2:15	2:30	ASR PRODUCTS AT THE MOLECULAR AND COLLOIDAL SCALE	Tulio Honorio
	2:45	3:00	DEFORMATION BEHAVIOR OF SYNTHETIC MAGNESIUM SILICATE HYDRATE PASTES WITH VARIOUS MG/SI RATIOS AT THE ATOMIC SCALE	Sumin Im, Sungchul Bae
2.00.4.00	3:02	3:17	BRIDGING FROM NANO-SCALE MODEL TO CHEMICAL KINETICS IN REAL TIME DOMAIN WITH THE REDMOON METHOD: APPLICATION TO POLYOLEFIN SYNTHESIS BY	Kentaro Matsumoto
2:00-4:00	2:30	2:45	STRUCTURAL, MECHANICAL AND VIBRATIONAL PROPERTIES OF THAUMASITE FROM CLASSICAL ATOMISTIC SIMULATIONS	Evgeny Tararushkin, Andrey Kalinichev
	3:00	3:02	STRUCTURE AND PROPERTIES OF CALCIUM ALUMINATES AS ADSORBENTS FOR ANIONIC RADIONUCLIDES	Artem Glushak, Evgeny Tararushkin, Grigory Smirnov, Andrey I
	3:17	3:19	MOLECULAR DYNAMICS SIMULATION FOR MULTIFUNCTIONAL SMART CONCRETE	Xiaohui Jia, Olivier Plé, Anna Lushnikova
	3:19	3:21	EFFECT OF BIO-SOURCED ADDITIONS AND WATER CONTENT ON MECHANICAL PROPERTIES OF KAOLINITE : A MOLECULAR DYNAMICS APPROACH	Ruifeng Di, Olivier Plé, Anna Lushnikova
1:00-4:30	coffee break - poster session			

Circular Economy, Life Cycle Analysis, Regional Practices

Session Chair: Prof. Gilles Escadeillas

The state			Title	Authors
Time slot	start	end	Title	Authors
	10:30	10:55	SUSTAINABLE BUILDING MATERIALS IN THE MIDDLE EAST AND NORTH AFRICA	Mohammed Sonebi, Ahmed Abdalgader
			REGION: TRENDS, OPPORTUNITIES AND CHALLENGES	· · · · · · · · · · · · · · · · · · ·
	10:55	11:10	A LITERATURE REVIEW FOR MEASURING CIRCULAR ECONOMY IMPLEMENTATION IN	Maher Hodroj, Christelle Tribout, Gilles Escadeillas
			THE BUILT ENVIRONMENT	
	11:10	11:25	REUSE OF STRUCTURAL CONCRETE COMPONENTS IN NEW BUILDINGS –	Lisbeth M. Ottosen, Katja I.M. Thygesen, Serkan
			DOCUMENTATION	Karatosun, Thomas Ingeman-Nielsen, Karoline
	11:25	11:40	RECOVERY OF HIGH-PURITY CEMENT PASTE FROM CONCRETE WASTE	Rohit Prajapati, Julian Allwood, Cyrille Dunant
			DINABAU: INTEGRATING DIGITAL BUILDING MODELS FOR TEACHING SUSTAINABLE	Aline Cruper Florian Kenf Deminik Schöre Ketherine
	11:40	11:55	CONSTRUCTION WITH RENEWABLE RESOURCES	Aline Gruner, Florian Kopf, Dominik Schöne, Katharina
		+	CONCEPT DEVELOPMENT FOR THE USE OF RECYCLED CARBON FIBRES IN THE	Kleinschrot, Katharina Meyer, Michael Engelmann
	11:55	12:10	CONSTRUCTION INDUSTRY	Vanessa Overhage, Hannah F. Wilms, Thomas Gries
10:30 - 1:00				
	12:10	12:25	A POSSIBLE RE-USE OF SHEEP WOOL IN CONCRETE	Giuliana Somma
	12:25	12:25 12:40	A SUSTAINABLE CONSTRUCTION PERSPECTIVE: INDUSTRIAL APPLICATION OF	
			GEOPOLYMER CONCRETE IN BLOCK MANUFACTURING	Gaone Koma, Patrick Müller
	12.40	42.42		United Mideuth, Deviader Cetty, Many Centherner
	12:40	12:42	WASTE CONCRETE FINES AS A SUSTAINABLE ALTERNATIVE FOR CEMENT MORTAR	Haripan Vislavath, Ravindra Gettu , Manu Santhanam
	12:42	12:42 12:44	RECYCLING OF MATERIALS FROM RENOVATION AND DEMOLITION OF BUILDING	Slawomir Czarnecki, Marlena Moj
			STRUCTURES	
	12:44	12:44 12:46	INVESTIGATING THE POZZOLANIC REACTION OF GLASS FIBRES - THERMOSET RESIN	Natalia Lora Acevedo, Hela Bessaies-Bey, Thierry
			COMPOSITES POWDER IN CEMENT PASTE	Sedran, Radhouane Masmoudi, Loïc Divet, Arezki
	12:46	12:46 12:48	BALANCING CIRCULARITY AND DECARBONISATION POTENTIAL OF CONCRETES WITH	Bruno Fernandes, Hisham Hafez, Susan Bernal, Leon
			RECYCLED AGGREGATES	Black
1:00 - 2:00	lunch break - poster session			