EAC 02
12th - 14th of September 2017
Brussel - Bruxelles - Brussels

EAC2 conference schedule

DAY 1, Tuesday 12/9

8:00	REGISTRATION in R42 building level 2 + Copy of the presentations files on the laptops level 2				
9:00	Opening by Dimitris Aggelis (Chair of EAC02, VUB) & Stéphanie Staquet (Chair of EAC02, ULB), Kovler (Chair of EAC01), Johan Vincke (RILEM President).			Welcome addresses by M.-P Delplancke-Ogletree (Vice Dean, EPB, ULB), Konstantin An overview on COST Action TU1404 by Miguel Azenha (Chair of TU1404)	
9:30	Plenary (1) CHRISTIAN HELLMICH: The origins of elasticity, strength, and creep of concrete: the multiscale engineering mechanics perspective				
10:00	Plenary (2) DAVID LANGE: Gradients and Driving Forces for Early Age Volume Change				
10:30	Coffee break				
	Plenary Room	Room 1	Room 2	Room 3	Room 4
	12MPlenary-Modelling	12M1-Volume stability (autogenous shrinkage, drying shrinkage, restrained shrinkage)	12M2-Experimental techniques	12M3-Hydration and drying	12M4-Fresh properties and setting
	Chair: C. Hellmich	Chair: D. Lange	Chair: G. De Schutter	Chair: M.Serdar	Chair: I. Gabriel
10:50	Modelling of the viscoelastic properties of concrete with high substitution rate of Portland cement by mineral additions	How to choose concrete resistant to shrinkage-induced cracking: achievements and challenges	Interfacial rheology: measurement technique for adhesive mortar-air interface	Impact of hydration and carbonation on water vapour sorption isotherms of cement pastes	Monitoring of concrete's setting process through wave dispersion
	B. Delsaute, J. M. Torrenti, S. Staquet	K. Kovler	A. L. Fujii, F. A. Cardoso, A. Daubresse, E. Prat, M. Chaouche	M. Bertin, V. Baroghel-Bouny, O. Omikrine Metalssi	S.N. Iliopoulos, L. De Smet, D.G. Aggelis
11:10	Influence of cyclic loading and relaxation on the tensile material properties of plastic concrete	Autogenous shrinkage measurements on cement pastes: influence of W/C, cement fineness, and superplasticizer dosage	Experimental study on the corrosion product expansion induced cover cracking in reinforced concrete	Influence of drying procedure on the results of sorptivity tests	Early-age Properties of Alkali-activated Slag/Fly ash blends
	M. Khan, R. Combrinck, W.P. Boshoff	A. Bettencourt Ribeiro, A. Gonçalves	Q.F. Liu, R.K.L. Su	S. Zhutovsky, D. Hooton	S. Uppalapati, Ö. Cizer
11:30	Microstructure-based modelling prediction of elasticity in hydrating cement paste	Mitigating autogenous shrinkage by means of superabsorbent polymers	Testing properties of green self compacting concrete for semi- and massive construction	Effect of wet curing on strength and durability of SCC with natural pozzolan	Comparison of the effect of encapsulated and emulsified siloxane on setting and early age hydration of CEM I
	H. Mazaheripour, R. Faria, G.Ye, E. Schlangen, J. Granja, M. Azenha	L. De Meyst, K. Van Tittelboom, N. De Belie	J. Gołaszewski, G. Cygan	S. Kenai, Y. Guettaf and M. Ghrici	N. Milenkovic, J.-P. Lecomte, S.Staquet, M.-P. Delplancke
11:50	Early-age experimental characterization and semi-analytical modeling of elasticity and creep of polymer-modified cement pastes	Study of mechanical characteristics and early age cracking in concrete	On the scattering of cementitious materials permeability determined by different techniques and modelling approaches	A Novel Study on Mechanism of Internal Curing in Recycled Aggregate Concrete Using X-Ray Microtomography	Influence of silanes on the setting time and early age hardening of bulk hydrophobic mortars
	L. Göbel, B. Pichler, A. Osburg	A. Bourchy, L. B. Davin, L. Bessette, F. Chalencon, A. Joron, J. M. Torrenti, J. Renaud	Q. Tri Phung, R. A. Patel, N. Maes, D. Jacques	S. Pradhan, S. Kumar, S. V. Barai	N. Milenkovic, J.-P. Lecomte, B. Delsaute, M.-P. Delplancke, S. Staquet
12:10	Lunch				
13:10	Copy of the presentations files on the laptop in plenary room	Copy of the presentations files on the laptops level 4 in working open room			
13:30	Plenary (3) TETSUYA ISHIDA: Multi-scale and multi-chemo-physics modeling of cementitious composite and its application to early age crack assessment of tunnel lining and reinforced concrete slab decks				
14:00	Plenary (4) JACKY MAZARS: A multifiber beam model for the thermo-mechanical analysis of RC Structures - Simulation of the Concrack benchmark RG8 test				
	12APlenary-Mechanical properties and creep	12A1-Volume stability (autogenous shrinkage, drying shrinkage, restrained shrinkage)	12A2-Structural Health Monitoring	12A3-Micro modelling	12A4-Plastic shrinkage and cracking
	Chair: T. Kanstad	Chair: T. Ishida	Chair: A. Deraemaeker, T. Suzuki	Chair: G. Ye	Chair: J. Wastiels
14:40	Eurocode 2: New Annex for control of cracking due to restrained deformations imposed at early ages or later	A multi-physical description of the autogenous deformations of concrete with mineral additions	Real-time monitroing of concrete structures using embedded piezoelectric ultrasonic transducers	Micromechanics-based sensitivity analyses on ITZ-induced concrete strength	Crack control in textile reinforced cement (TRC)
	T. Kanstad	J. Carette, S. Staquet	A. Deraemaeker	M. Königsberger, M. Hlobil, B. Delsaute, S. Staquet, C. Hellmich, B. Pichler	J. Wastiels, T. Tysmans, M. El Kadi , M. De Munck, S. Verbruggen
15:05	Developing a common approach to using EC2 for early thermal effects and crack control – process and lessons learnt	Study of the autogenous shrinkage in microconcretes containing superabsorbent polymer and nanosilica	Characterization of carbonation-induced changes in crack features and geometry in hardened cement pastes	Influence of creep on ASR development	Modelling the cracking of plastic concrete
	I. Sfikas, K. Makaginsar, J. Banks, D. Gibson, A. Douglas, I. Gibb	T. Anarelli Cunha e Santos	A. Varzina, Q. Tri Phung, B. Rogiers, J. Perko, D. Jacques, N. Maes, Ö. Cizer	C. Dunant	R. Combrinck, W.P. Boshoff
15:25	Influence of gradual imposition of tensile stresses on associated viscoelastic behaviour	Evaluation of the restrained shrinkage cracking potential of Self Compacting Concrete	Axial loading of small scale sandwich panels with textile reinforced cementitious faces monitored by DIC	Relating microstructure development to ageing creep: application to cementitious materials at early age	Plastic shrinkage properties of cement mortar for large area floor
	D. Schlicke, E. M. Dorfmann	P. Van Itterbeeck, B. Parmentier, G. De Schutter, E. Coppens	J . Vervloet, P. Van Itterbeeck, S. Verbruggen, M. El Kadi, M. De Munck, J . Wastiels, D. Van Hemelrijck, T. Tysmans	J. Sanahuja, S. Huang, L. Dormieux, B. Bary, E. Lemarchand	S. Jeon, C. Moon, S. Kang, M. Song
15:45	Stress concentrations induced by active and passive reinforcements in a concrete containment building	Autogenous deformation of paste containing calcined clay-rich dredging sediments as SCM	In situ monitoring of slab's structure degradation under hot climate effect	Flexibility of C-S-H sheets from molecular simulations	Understanding the influence of externally bonded TRC on the cracking behaviour of a plain concrete beam
	L. Charpin, J.-P. Mathieu, T. Sow	C. Van Bunderen, R. Snellings, L. Horckmans, L. Vandewalle, S. Staquet, Ö. Cizer	T. Oussama	T. Honorio	S. Verbruggen, T. Tysmans, J. Wastiels
16:05	Early-age responses of railway prestressed concrete sleepers to creep and shrinkage	Monitoring the reduction in shrinkage cracking of mortars containing superabsorbent polymers	Detection of cracking damage in-service concrete by AE energy parameter	Upscaling of the Cement Paste Microstructure response to Obtain the Compressive Mechanical LDPM Parameters	Determination of cracking related properties of engineering cementitious composites
	D. Li, P. Robery, S. Kaewunruen	G. Lefever, D. G. Aggelis, N. De Belie, D. Snoeck, D. Van Hemelrijck	T. Suzuki	Gili Scherzer, Peng Gao, Erik Schlangen, Guang Ye, Erez Gal	S. B. Keskin, M. Sahmaran, I. O. Yaman
16:25	Coffee Break				
	12EPlenary-Macroscopic modelling	12E1-Mechanical properties	12E2-Transport and thermal processes	12E3-Qualification and development of devices for testing and monitoring concrete at early age	
	Chair: D.Schlicke	Chair: R. Hamzaoui	Chair: E. Rozière	Chair: M. Azenha	
16:45	Discrete modelling of hardening-induced cracking	Mechanical performance study of mortars with hemp fibers, shives and milled fly ashes	Coupled Influence of chloride and carbonation on the service life of unsaturated concrete	Assessing the mechanical behaviour of concrete before and during setting with a resonance based technique: preliminary prototypes and results	
	D. Schlicke, G. Muja	Rabah Hamzaoui, Sofiane Guessasma, Kamilia Abahri	M. Achour, O.Amiri, F.Bignonnet, E. Rozière	J. Granja, M. Azenha	
17:05	Phase-field modeling of shrinkage cracks in cement-based materials	Influence of PCA on structure and microstructure of fly ashes and slag obtained by mechanosynthesis. Applications: Mechanical performance of substituted paste (CEMI+ 50% slag /or fly ashes)	Effects of hydrophobic GGBS on the transport properties of lightweight aggregate concrete	Development of a new test set-up to evaluate relaxation effects of concrete in tension	
	T. Cajuhi, P. Lura, L. De Lorenzis	O. Bouchenafa , R. Hamzaoui , A. Bennabi, J. Collin	Q.L. Yu, Z.Y. Qu, H.J.H. Brouwers	B. Parmentier, T. Lonfils	
17:25	Modeling Restrained Shrinkage-Induced Cracking in concrete elements using the Thick Level Set approach	Effect of nano-metakaolin on cement mortar and concrete properties	Predicting depth of carbonation of concrete for varying climatic conditions	Plastic shrinkage cracking in concrete – Influence of test methods	
	R. Nakhoul, O. Pierard	S. Wilben, M. Supit, R. Rumbayan, A. Ticoalu	R. Gopinath, M. Alexander, H. Beushausen	F. Sayahi, M. Emborg, H. Hedlund	
17:45	A virtual thermo-mechanical simulator for hydrating blocks with extension to crack assessment	Concrete Mix Design Optimization using Artificial Neural Networks	Ion-leaching properties of blast furnace slag and fly ash under alkaline conditions	NDT testing of stiffness evolution of UHPFRC since casting	
	K. Hajkova, D. Schlicke, K. Turner, P. Heinrich, V. Smilauer, P. Havlasek	L. Bal, A. Brahma, F. Buyle-Bodin	W. Lee, K. Kim, S. Kang, M. Song	A. M. Matos, J. Granja, S. Nunes, J. L. Barroso Aguiar, M. Azenha	
18:05	Macroscopic calculation model for simulating early age behavior of concrete members	Overview of different approaches in proportioning ultra-high-strength concrete			
	L. Matiašková, J. Šoltész	H. Karimi, Q.L. Yu, H.J.H. Brouwers			
19:00	Welcome Belgian Cocktail in R42 building level 3				

DAY 2, Wednesday 13/9

8:00	REGISTRATION in R42 building at level 5 + Copy of the presentations files on the laptops level 4 in working open room				
9:00	Plenary (5) A. MOROPOULOU: NDT assessment of the rehabilitation of the Holy Aedicule of the Holy Sepulchre				
9:30	Plenary (6) HANS BEUSHAUSEN: The influence of mix composition and curing conditions on shrinkage cracking of cementitious materials				
10:00	Coffee break				
	Plenary Room	**Room 1**	**Room 2**	**Room 3**	**Room 4**
	13MPlenary-Volume stability (autogenous shrinkage, drying shrinkage, restrained shrinkage)	**13M1-Physical Properties and durability**	**13M2-Macro Modelling**	**13M3-Cracking mitigation**	**13M4-Non-destructive inspection for infrastructure assessment**
	Chairs:H. Beushausen	**Chair: S. Nanukuttan**	**Chair: M. Azenha**	**Chairs: Geert De Schutter**	**Chair: T. Shiotani, T. Moropoulou**
10:20	Effect of the use of recycled aggregate in concrete on the evolution of the thermal and autogenous strain	Coupled influence of chloride and carbonation on the service life of unsaturated concrete	Thermo-hygro-mechanical modelling of concrete structures in service life: from material characterization up to the structural level	Control of early age cracking in early-strength concrete based on alkali activated slag cement	From early age assessment of concrete properties to crack detection using embedded ultrasonic transducers
	B. Delsaute, S. Staquet	M. Achour, O. Amiri, F. Bignonnet , E. Rozière	M. Azenha, R. Faria, J. Granja, R. C. Carvalho, H. Mazaheripour, B. Zahabizadeh	P. Krivenko, O. Petropavlovskiy, I. Rudenko, S. Lakusta	C. Dumoulin, A. Deraemaeker
10:40	Cracking sensitivity of activated blended binders under autogenous condition	CO2 Diffusion in cementitious materials: experimental investigations	Thermo-chemo-mechanical behavior of alkali-activated slag materials. Focus on early-age	The impact of alterating temperature for crack formation in large diameter tubes	Acoustic emission energy for condition monitoring of RC flat slab structures subjected to bidirectional ground motions caused by earthquakes
	A. Darquennes, F. Benboudjema	Ph. Turcry, F. Gendron, A. Aït-Mokhtar	F. Rifai, A. Darquennes, F. Benboudjema, B. Muzeau, L. Stefan	R. Šadzevičius, V. Gurskis, R. Norvaišienė, E. Smetonaitė	C. Abarkane, E. Suárez, A. Gallego and A. Benavent-Climent
11:00	Autogenous deformation of metakaolin based geopolymer	Durability of mortars made with recycled fine aggregates under severe sulfate environment	Hygro-mechanical modelling of self induced stresses during the service life of concrete	Self-healing approaches for the preventive repair of concrete structures: SARCOS COST Action	Repair inspection in deteriorated concrete members by means of elastic wave tomography
	Z. Li, G. Ye	S. T. Lee, J. P. Kim	F. Soleilhet, F. Benboudjema, X. Jourdain, F. Gatuingt	M. Sánchez, A. Al-Tabbaa, N. De Belie, L. Ferrara, A. Jefferson	T. Nishida, T. Shiotani, K. Hashimoto, Y. Kobayashi, J. Kagawa
11:20	Strain Resilient Cementitious Composites: an experimental study on the material's volumetric stability and compressive response effected by age and freeze-thaw	Durability performance of fly ash concrete with prescribed and measured k-values	Thermo-Mechanical modeling of the early age behavior of concrete in Nuclear Containment Buildings: Case of the VeRCoRS gusset	Optimization strategy for the construction phase of a massive concrete structure	Acoustic emission for characterization of failure mechanisms in textile reinforced mortar laminates under tensile loading
	S. Tastani, M. Veneti, V. Zapris	T. A. Soylev	E. Bouhjiti, M. Briffaut, J. Baroth, F. Dufour, B. Masson	Eduardo M., R. Fairbairn, Mariane R. Rita, Henrique C. C. Andrade, Fernando L.B. Ribiero, Helio J. C. Barbosa	J. Blom, D. Aggelis, J. Wastiels, C. Vuye
11:40	Use of rice husk for mitigating the autogenous shrinkage of cement pastes at low water cement ratio	Thermal Properties of Normal Strength Concrete with Different Percentages of Fly Ash Replacements	Prediction of delayed behavior of concrete structures	Effect of W/C-ratio, curing conditions and testing age on concrete performance for service life design	NDT assessment of the rehabilitation of the Holy Aedicule of the Holy Sepulchre concerning the implementation of compatible and performing restoration mortars
	H Huang, G. Ye	R. Alyousef	A. Brahma	L. Ebensperger, M. Olivares	M. Apostolopoulou, E.T. Delegou, K.C. Lampropoulos, Emm. Alexakis, A. Moropoulou
12:00	Lunch				
13:10	Copy of the presentations files on the laptop in plenary room	Copy of the presentations files on the laptops level 4 in working open room			
13:30	Plenary (7) GEERT DE SCHUTTER: Concrete smart casting by active control of rheology and stiffening				
14:00	Plenary (8) PIETRO LURA: 3D imaging of moisture distribution and transport in early-age cementitious materials				
	13APlenary-Fracture properties and cracking	**13A1-Experimental techniques**	**13A2-Experiences gained so far in the extended Round Robin Testing programme (RRT+)**	**13A3-Fresh properties and setting**	**13A4-Mechanical properties and creep**
	Chair:J. Popovics	**Chair: L. Lacarrière**	**Chair: I. Gabrijel**	**Chair: O. Cizer**	**Chair: V. B. Bosiljkov**
14:40	Concrete fracture toughness increase by embedding capsules with healing ability: the effect of capsules nature	Influence of the experimental apparatus on the prediction of temperature evolution in massive structure	Ultrasonic testing of cement based materials since casting: an inter-laboratory comparison coordinated within COST TU1404 European project	Hydration and microstructure of concrete with supplementary cementitious materials	Systematic investigations with restraining frames for reinforced concrete
	E. Tsangouri, F. A. Gilabert, D. G. Aggelis, N. De Belie, D. Van Hemelrijck	L. Lacarrière, A. Delaplace, A. Benhamouda	I. Gabrijel, S. Staquet, J. Carette, B. Delsaute, G. Trtnik, E. Roziere, J. Golaszewski, W. Hermerschmidt, H.-W. Krauss, T. Leusmann, S. Aparicio, J. Vicente Fuente, S. Tastani	Nele De Belie	K. Turner, D. Schlicke, N. V. Tue
15:05	Surface morphogenesis transitional phases: case of cement mortar	Monitoring of the curing process of concrete manufactured with recycled and steel slag aggregates	Attenuation-frequency analysis of the ultrasonic monitoring at early stages of the CBM curing process	A rheological study of portland cement pastes modified with superabsorbent polymer	Experimental investigation on strain distribution in reinforcement of RC specimens
	Ł. Sadowski, T. G. Mathia	S. Aparicio, V. Yagüe, A. Valbuena, M.G. Hernández, J.J. Anaya	J. Vicente Fuente, J. Gosalbez, A. Carrión, G. Pérez, J. Payá, A. Font	L.B. Agostinho, E.F. Silva, A.C. Pereira, A.N.M. Lopes	E. Gudonis, R. Ramanauskas, A. Sokolov
15:25	Durability study of textile reinforced mortars with low fiber volume fraction	Special formulations of external render based on liquid glass	The hardening process of cement based materials observed in calorimeter and ultrasonic tests	Interaction Sand - Superplasticizer without defoamer	Early age cracking resistance of pre-stressed concrete beams subjected to long-term service loads
	M. De Munck, M. El Kadi, E. Tsangouri, S. Verbruggen, J. Wastiels, T. Tysmans & O. Remy	M. Daunoravičius, E. Smetonaitė	L. Thorsten	C. J. H. Pierre, M. De Lanève, G. Mosselmans, P. Magera, N. Canu	G. Sossou
16:00	Group Photograph on the stair between levels 2 and 3				
16:15	Departure from bus stop outside building R42 to Brussels Central Station				
17:30	Chocolate workshop in "Chocolate planet" in city center				
18:30	Guided visit at the "Grand Place"				
20:00	Conference banquet in Radisson Blu Royal Hotel				

DAY 3, Thursday 14/9

8:00	REGISTRATION in R42 building at level 5 + Copy of the presentations files on the laptops level 4 in working open room			
9:00	Plenary (9) JOHN POPOVICS: New ultrasonic approaches to monitor microstructure development and cracking in concrete			
9:30	Plenary (10) ÖZLEM CIZER: Effect of flash-calcined dredging sediments on cement hydration and microstructure			
10:00	Coffee break			
	Plenary Room	**Room 1**	**Room 2**	**Room 3**
	14MPlenary-Macroscopic modelling **Chair : F. Benboudjema**	**14M1-Mechanical properties and creep** **Chair: A. Knoppik**	**14M2- Non-destructive inspection for infrastructure assessment** **Chair: T. Shiotani, E. Tsangouri**	**14M3- Introduction to H2020** **Chair: Miguel Azenha**
10:20	Prediction of cracking due to shrinkage restraint in concrete structures	Investigation on Impact resistance and Mechanical Properties of self compacting concrete made with Fly ash and GGBS	Source location algorithm with controlled resolution based on ray-trace technique	Introduction to Horizon 2020 opportunities, Elena Angiolini, Transport-Bio Sustainable Construction & Mobility, National Contact Point
	F. Benboudjema	P. Parasivamurthy, V. Jawali, S. J. Mahalingasharma, V. Ram Das, P. A. Venkatakrishna	Y. Kobayashi, K. Oda, Y. Tamura, T. Fuse, T. Shiotani	
10:40	Multi-scale strategy for modeling macrocracks propagation in large reinforced concrete structures	The determination of concrete elastic modulus in early age for temperature stress testing under different restraint degrees	Identification of shear damage in concrete beams by acoustic emission	
	P. Rossi, C. Nader	H. Zhu, Y. Hu, M. Zhang, Q. Li	T. Nguyen Tat, N. Ranaivomanana, J. Balayssac	
11:00	Prediction of concrete drying and its effect on the gaz permeability: application to a vessel of nuclear power plant	Extensive set of creep and shrinkage data for a normal strength concrete	AE monitoring of 3D textile reinforced cements	Discussion
	J. Carette, F. Benboudjema	M. Drexel, Y. Theiner, G. Hofstetter	M. El Kadi, E. Tsangouri, S. Verbruggen, J. Vervloet, M. De Munck, J. Wastiels, D. Van Hemelrijck, T. Tysmans	
11:20	Crack analysis of reinforced concrete members based on predicted mean strain of reinforcement	Evaluation of material properties for young concrete	State of health assessment of concrete repair using electrical sensors	Meeting point for the WG1 members of TU1404 COST Action about Book on Advanced Experimental Techniques (Chair: M. Serdar)
	G. Kaklauskas, M. Francesco Bado, R. Ramanauskas	A. Hösthagen, J-E. Jonasson , M. Emborg , M. Nilsson	S. V. Nanukuttan, W.J. McCarter, P. Basheer, J. McRobert	
11:40	Experimental study and numerical estimation of the early age behavior of a massive concrete structure		Influence of cracks on reliability of acoustic emission monitoring for existing concrete structures	
	B. Bary, W. Bastiaens, F. Bernachy-Barbe, T. Honorio, C. Imbert, M. Neji, S. Poyet, C. Segarra, G. Touzé		F. Zhang, L. Pahlavan, Y. Yang, D. Hordijk	
12:00	Lunch			Meeting point for the WG3 members of TU1404 COST Action (Chairs: F.Toutlemonde &T. Kanstad)
13:10	Copy of the presentations files on the laptop in plenary room	Copy of the presentations files on the laptops level 4 in working open room		
13:30	Current achievements and upcoming challenges within the COST Action TU1404 by MIGUEL AZENHA (Chair of TU1404) Plenary (11) MARIJANA SERDAR: Progress on the Main Experimental Phase of the Extended Round Robin Test RRT+ (WG1 – COST TU1404)			
14:00	Plenary (12) AGNIESZKA KNOPPIK: Recent advances in modelling of cement-based materials and structures at early age (WG2 – COST TU1404)			
	14APlenary-Volume stability (autogenous shrinkage, drying shrinkage, restrained shrinkage) **Chair: O. Cizer**	**14A1-Microstructure** **Chair : F. Pesavento**	**14A2- Non-destructive inspection for infrastructure assessment** **Chair: T. Shiotani, Y. Kobayashi**	**14A3-Fresh properties and setting** **Chair: E. Rozière**
14:40	Roles of aggregate in concrete through volumetric stability	Effect of salt and water crystallization on the degradation of pore structure of cement mortars	Cutting-edge NDTs contributing assessment of civil infrastructures	Highly efficient PCE superplasticizer as solution for concrete of recycled aggregate
	I. Maruyama	A. Wieczorek, M. Koniorczyk, P. Konca, F. Pesavento,D. Gawin	T. Shiotani, T. Nishida, K. Hashimoto, H. Asaue, S. Kayano, Y. Kobayashi	V. B. Bosiljkov, D. Antolinc
15:05	The influence of coarse aggregate shape on the properties of self-compacting high-performance fibre reinforced concrete	Effect of aluminium hydroxyde on clay mortars properties	Combination of Acoustic Emission and Millimeter Wave Techniques to Investigate Building Materials	Early-age monitoring of fresh cementitious material by acoustic emission
	K. Ostrowski	L. Libessart, C. Tchamo Leussa, C. Djelal-Dantec, M. Gonon, C. Djangang Njioumou, A. Elimbi	A. Pourkazemi, G. Pandey, J. Assaf, P. Bismpas, E. Tsangouri, J. H. Stiens, D. Aggelis	E. Dzaye, G. De Schutter, D. Aggelis
15:25	Effect of temperature on the cracking risk of concretes containing ground granulated blast-furnace slag	Chromium trapping in the cement matrix of old deconstruction concretes	Combined NDT techniques for Early Age monitoring of Cement Based Materials	Effect of manufactured sand on self-compacting concrete performance
	F. Kanavaris, M. Soutsos, J-F. Chen	O. Ben Maaouia, R. Hamzaoui, A. Bennabi, J. Colin, H. Colina	G. Barluenga, J. Puentes, I. Palomar, C. Guardia	S. Benyamina, S. Kenai, B. Menadi
15:45	Restrained autogenous deformations: advanced evaluation of the early age stress development in concrete with blast-furnace slag	Mechanism of super hydrophobic GGBS powder and its stability in concrete	Characterization of Fracture Mode in Historical Masonry Mortars by Acoustic Emission	
	J. Carette, S. Staquet	Z.Y. Qu, Q.L. Yu, H.J.H. Brouwers	G. Livitsanos, N. Shetty, E. Verstrynge, M. Wevers, D. Van Hemelrijck, D. G. Aggelis	
16:20	Conference closing (Plenary room)			
16:30	MC meeting for TU1404 COST Action MC members (Plenary room)			