

Tentative Conference Program

Day 0 Tuesday October 23, 2018	Day 1 Wednesday October 24, 2018	Day 2 Thursday October 25, 2018	Day 3 Friday October 26, 2018	Day 4 Saturday October 27, 2018	
8:00	Registration				
8:30	Room Funchal Opening Ceremony (M. Azenha & D. Schlicke)	8:15 Room Funchal S10 - Keynote Speaker 6: G. Cusatis (Chair: A. Jędrzejewska)	8:15 Room Funchal S23 - Keynote Speaker 7: N. De Belie (Chair: S. Staquet)		
9:00	S01 - Keynote Speaker 1: J. Provis (Chair: F. Benboudjema)	8:45 S11 - Poster presentations in 120 seconds (Chair: A. Jędrzejewska)	8:45 S24 - Poster presentations in 120 seconds (Chair: S. Staquet)	9:00	
9:30	S01 - Keynote Speaker 2: S. Staquet (Chair: F. Benboudjema)	9:40 Room Funchal Room Lisboa Room Rio de Janeiro	9:40 Room Funchal Room Lisboa Room Rio de Janeiro Room Paris	Technical tour (Optional, registration needed)	
10:00	S02 - Poster presentations in 120 seconds (Chair: F. Benboudjema)	S12 - Advances in material testing of CBMs at early-age (Chair: T. Kanstad) S13 - Bio-based materials: hemp concrete (Chair: S. Marceau) S14 - BIM and concrete (Chair: M. Azenha)	S25 - Durability of geopolymers and alkali-activated materials (Chair: Ö. Cizer) S26 - Design of FRC and FRP-reinforced concrete (Chair: S. Tastani) S27 - Multi-scale modelling of hygral properties of CBMs (Chair: I. Maruyama) S28 - COST SARCOS 1 (Chair: M. Sanchez)		
10:40	Coffee Break	11:00 Coffee Break	10:40 Coffee Break		
11:00	Room Funchal Room Lisboa Room Rio de Janeiro	11:20 Room Funchal S15 - COST TU1404 Conclusion of Working Group Activities (Chair: M. Azenha)	11:00 Room Funchal Room Lisboa Room Rio de Janeiro Room Paris		
13:00	S03 - Experimental testing of durability aspects of CBMs (Chair: E. Rozière) S04 - Experimental testing of fresh properties of CBMs (Chair: I. Gabrijel) S05 - Multiscale modelling of durability aspects & behaviour of CBMs in extreme conditions (Chair: Y. Akkaya)	13:00 Lunch	13:00 S29 - Multi-scale modelling of long-term behaviour of CBMs (Chair: G. Ye) S30 - Investigations of CBMs behaviour in practical applications (Chair: M. Serdar) S31 - Structural design and analysis (Chair: G. Sciumè) S32 - COST SARCOS 2 (Chair: M. Sanchez)		
14:20	Room Funchal S06 - Keynote Speaker 3: I. Maruyama (Chair: D. Schlicke)	14:20 Room Funchal S16 - JCI Guidelines for Control of Cracking of Mass Concrete Japan Concrete Institute (Chair: M. Azenha)	14:20 Room Funchal S33 - Keynote Speaker 8: N. Gucunski (Chair: P. Lobo)		Tour around the island, trekking, meals (Optional, registration needed)
14:50	S06 - Keynote Speaker 4: N. Roussel (Chair: D. Schlicke)	15:20 S17 - JCI Parallel I (Chair: T. Mizobuchi) S18 - Mechanical properties of geopolymers (Chair: J. Provis) S19 - Multi-physics simulation of durability aspects in CBMs (Chair: D. Gawin)	15:00 Room Funchal Room Lisboa Room Rio de Janeiro Room Paris		
15:20	S06 - Keynote Speaker 5: S. Amziane (Chair: D. Schlicke)	16:20 Coffee Break	16:00 Coffee Break		
15:50	Group Photo - Coffee Break	16:40 Room Funchal Room Lisboa Room Rio de Janeiro	16:20 Room Funchal Room Lisboa Room Rio de Janeiro Room Paris		
16:10	Room Funchal Room Lisboa Room Rio de Janeiro	16:40 S20 - JCI Parallel II (Chair: T. Kanazu) S21 - Advances in bio-based materials (Chair: S. Amziane) S22 - Self-healing concrete (Chair: O. Jensen)	17:20 Break with voting (Poster)		
16:10	S07 - Advances in cement-based materials (Chair: V. Bokan Bosiljkov) S08 - Experimental testing of early-age properties of CBMs (Chair: E. Fairbairn) S09 - Advances in multi-scale modelling of CBMs (Chair: L. Lacarrière)	19:00 Free time	17:40 Room Funchal		
18:00	Hotel Pestana Casino Park lobby	18:10 Free time	18:00 Closing session		
20:00	Registration	19:00 Welcome cocktail	18:00 MC Meeting		
21:00		19:00 City Tour	19:00		
		20:30 Conference Dinner			
		23:00			

Room Funchal

Day 1 - Wednesday, October 24, 2018

9:00-9:30 **S01 - Keynote Speaker 1: John Provis**
Innovation in research on new binders
Chairperson: Farid Benboudjema

9:30-10:00 **S01 - Keynote Speaker 2: Stéphanie Staquet**
Influence of the water-cement ratio and the nature of the binder on the early age properties of cement-based materials by means of multi-scale monitoring
Chairperson: Farid Benboudjema

14:20-14:50 **S06 - Keynote Speaker 3: Ippei Maruyama**
Understanding of material dependent structural behavior for aging management of concrete structures
Chairperson: Dirk Schlicke

14:50-15:20 **S06 - Keynote Speaker 4: Nicolas Roussel**
Digital construction with cementitious materials: activities of the RILEM Technical Committee
Chairperson: Dirk Schlicke

15:20-15:50 **S06 - Keynote Speaker 5: Sofiane Amziane**
Multiscale uses of vegetal in the building material construction industry
Chairperson: Dirk Schlicke

Day 2 - Thursday, October 25, 2018

8:30-9:00 **S10 - Keynote Speaker 6: Gianluca Cusatis**
Computational modeling and characterization of infrastructure materials for terrestrial and extraterrestrial constructions
Chairperson: Agnieszka Jędrzejewska

Day 3 - Friday, October 26, 2018

8:30-9:00 **S23 - Keynote Speaker 7: Nele De Belie**
Demonstration projects with self-healing capsule-based and bacteria-based concrete
Chairperson: Stéphanie Staquet

14:20-14:50 **S33 - Keynote Speaker 8: Nenad Gucunski**
Innovative ways in condition assessment of concrete bridge decks: Data collection using robotics, and advanced data interpretation and visualization
Chairperson: Paulo Silva Lobo

Room Funchal
Chairperson: Farid Benboudjema

Day 1 - Wednesday, October 24, 2018

2-min presentations with posters: 10:00 - 10:40

1	X-ray microtomographic images of fibre concrete composites fabricated using different methods	<i>Zbigniew Ranachowski, Marcin Lewandowski, Krzysztof Schabowicz, Tomasz Gorzelańczyk, Stanislav Kudela Jr, Tomas Dvorak</i>
2	Particle-matrix proportioning of high strength lightweight aggregate concrete	<i>Elisabeth Leite Skare, Jelena Zivkovic, Stefan Jacobsen, Jan Arve Øverli</i>
3	Self-compacting concrete with recycled concrete aggregate as ecological material	<i>Iva Despotovic, Ksenija Jankovic, Dragan Bojovic, Marko Stojanovic</i>
4	The development of the early-age elastic modulus in cement-materials with different water coefficient	<i>Romana Halamová, Dalibor Kocáb, Barbara Kucharčzyková, Petr Daněk</i>
5	Comparison of standard concrete and eco-concrete in respect to technical, environmental and durability performance	<i>Joachim Juhart, Rok Bregar, Gheorge David, Markus Krüger</i>
6	Effect of marble powder waste on the properties of self compacting concrete	<i>Ali M Mansor, Asaad A Elshab, Ruben Paul Borg, Ahmed M M Hamed</i>
7	Evaluation of strength of reinforced concrete slabs operating under the changing water level	<i>Raimondas Šadzevičius, Rosita Norvaišienė, Edita Smetonaitė</i>
8	Estimating the stress development in early age concrete with mineral additions from coupled measurements	<i>Jérôme Carette, Brice Delsaute, Stéphanie Staquet</i>
9	Photocatalytic novel concrete material application and its life time standard testing	<i>František Peterka</i>
10	Exposition to acid attack of mortars with nanosilica, zinc stearate and ethyl silicate coating	<i>Victoria García-Vera, Antonio Tenza-Abril, Marcos Lanzón, Afonso Miguel Solak</i>
11	Alkali activated materials: review of current problems and possible solutions	<i>Adeyemi Adesina</i>
12	Resistance to sulfate and acid attack of self-compacting concrete with recycled aggregates	<i>Said Kenai, Mohamed Omrane</i>
13	Sulphate-induced corrosion of mild steel reinforcement in fresh calcium sulphoaluminate based cementitious materials	<i>Yegor Morozov, Simone Pellegrini, Sergio Lorenzi, Fátima Montemor</i>
14	Assessment of internal relative humidity and temperature of cement-based materials – Parallel study using two sensor systems	<i>Violeta Bokan Bosiljkov, Martin Klun, Zvonko Jagličić, Samo Beguš</i>
15	Influence of ugandan volcanic scoria as aggregates in concrete	<i>Stephen O. Ekolu, Kgashane T. Moila, Mikaash Bhagwager, Harry Quainoo</i>
16	Durability properties of autoclaved aerated and high performance foamed concrete	<i>Genadijs Sahmenko, Aleksandrs Korjamins, Eva Namsone</i>
17	Impact of drying rate on delayed strains in cement-based materials	<i>Justin Kinda, Laurent Charpin, Jean-Luc Adia, Farid Benboudjema, Sylvie Michel-Ponnelle</i>

Room Funchal

Chairperson: Agnieszka Jędrzejewska

Day 2 - Thursday, October 25, 2018

2-min presentations with posters: 08:45 - 09:25

1	Influence of the alkaline treatment on the tensile properties of jute fibers and on the fiber-matrix bonding	<i>Yasmim Gabriela dos Santos Mendonça, Bartosz Zukowski, Romildo Dias Toledo Filho</i>
2	Strain resilient cementitious composites made with calcareous fly ash and polypropylene fibers: The effect of temperature and freeze-thaw on flexural tension	<i>Souzana Tastani, Ioannis Savvidis</i>
3	Using intelligent system approach for shear strength forecasting of steel fiber-reinforced concrete beams	<i>Ali Kheyroddin, Masoud Ahmadi, Mahdi Kioumars</i>
4	Numerical simulation of reinforced concrete cut-off wall with steel fibres under dam	<i>Homa Kazemi, Mohammad Mahdi Kioumars, Mohsen Zarghani, Hamed Sarkardeh</i>
5	Brittleness of high-strength lightweight aggregate concrete	<i>Jelena Zivkovic, Mladena Lukovic, Jan Arve Øverli, Dick Hordijk</i>
6	Performance of recycled and commercial fibre reinforced concrete beams in combined action with conventional reinforcement	<i>Katerina Bernhoft, Samindi Samarakoon, Luis Evangelista, Bjarne Mikalsen</i>
7	Stain hardening characteristics of blended alkali activated binders cured at ambient temperatures	<i>M. Talha Junaid, Mohamed Maalej</i>
8	Acoustic emission parameters of alkali activated fly ash specimens with hemp fibres under static loading	<i>Libor Topolář, Hana Šimonová, Barbara Kucharczyková</i>
9	Effect of compacting pressure and carbonation duration on carbon dioxide activated binders.	<i>Pedro Humbert, João Castro Gomes</i>
10	Experimental study of the chemical deformation of metakaolin based geopolymer	<i>Zhenming Li, Guang Ye</i>
11	Mechanical prediction of W.C.C. properties: Experimental study and analytical modeling	<i>Jean Gérard Ndong Engone, Ahmed El-Moumen, Chafika Djelal, Abdellatif Imad, Yannick Vanhove</i>
12	Life cycle assessment of bio-based construction panels with magnesium binder	<i>Maris Sinka, Aleksandrs Korjakins, Diana Bajare, Genadijs Sahmenko</i>
13	Risk assessment of mold growth in hemp concrete	<i>Kosiachevskiy Dmytro, Abahri Kamilia, Chaouche Mohend, Prat Evelyne, Daubresse Anne, Bousquet Cécile</i>
14	The role of various aggregates on rheology of fresh 3D printing concrete	<i>Martin Boháč, Bohdan Nešpor, Theodor Staněk</i>
15	A 3D printer of cement mortars based on initial deposition of dry materials	<i>Miguel Azenha, Caetano Monteiro, Ricardo Morais</i>
16	Effect of green activators on the properties of alkali activated materials: a review	<i>Adeyemi Adesina</i>
17	Water absorption changes in mortars with crystalline admixture exposed to acid environment	<i>Victoria García-Vera, Antonio José Tenza-Abril, Marcos Lanzón, Afonso Miguel Solak, Pla Concepción, David Benavente</i>

Day 3 - Friday, October 26, 2018

2-min presentations with posters: 08:45 - 09:25

1	Extending the service life of polymer industrial floor coatings by improving its adhesion to cement-based substrates	<i>Lukasz Sadowski, Agnieszka Chowaniec</i>
2	Utilization of quartz quarry dust in Engineered Cementitious Composites production	<i>Olkan Ilter Taş, Süleyman Bahadır Keskin, Özlem Kasap Keskin, Mustafa Sahmaran</i>
3	Stress redistribution mechanism in concrete elements with polymer flexible joint: Experimental results	<i>Lukasz Zdanowicz, Marcin Tekieli, Arkadiusz Kwiecień</i>
4	Self-healing and strength recovery evaluation of super absorbent polymers concrete mixes under controlled damage	<i>Amir Sidiq, Rebecca Gravina, Sujeeva Setunge, Filippo Giustozzi</i>
5	Active mineral additives and their contribution to natural self-healing ability of concrete	<i>Pavel Reiterman</i>
6	Influence of the flexibility of calcium silicate hydrates layers on the mesotexture: coarse grained simulations accounting for three-body interactions	<i>Tulio Honorio</i>
7	An experiment-based FE approach to analyze early-age temperature and strain distribution in large-dimension concrete wall	<i>Yan Geng, Suduo Xue, Xiongyan Li, Jinguang Li</i>
8	Gamma and X radiation absorption characteristics of specially selected types of concrete	<i>Srboljub Stankovic, Ksenija Jankovic</i>
9	Parametric Study on Damages and Strength Behaviours of Post-tensioned Girders in Dechatiwong Bridges	<i>Nat Hanwiboonwat, Tidarut Jirawattanasomkul, Songpol Charuvisit, Nattamet Wuttiwannasak, Nuttapong Kongwang, Chinapat Banluelap, Tawan Norsakul</i>
10	Study on load-bearing performance simple evaluation system of RC road bridge deteriorated caused by salt damage	<i>Hitoshi Ito, Toshiaki Mizobuchi</i>
11	Overview on the multi-decade database of Portuguese large concrete dams monitoring data	<i>António Tavares de Castro, José Barateiro, Carlos Serra</i>
12	Inspection and maintenance of concrete bridges: Investigation of most significant damage mechanisms vs. locations	<i>R.M. Chandima Ratnayake, Yousef Saad, Kamshan Karunaharan, S.M. Samindi M.K. Samarakoon</i>
13	A comparison of two major approaches used for concrete strength prediction for different concrete types	<i>Seda Yesilmen, Sinan Kefeli</i>
14	Influence of prestress losses on the dynamic over static capacity ratios of railway concrete sleepers	<i>Chayut Ngamkhanong, Sakdirat Kaewunruen</i>
15	A simplified 1D stress approach for cracking risk prediction	<i>Luis Ebensperger</i>
16	Experimental setup for the characterization of the long term bond and crack widths in RC ties under constant axial force	<i>Carlos Sousa, Mário Pimentel, Amin Abrishambaf, Rui Faria, Miguel Azenha</i>
17	Structural design with OpenBIM: From the architectural model to the structural analysis with a state-of-the-art calculation engine	<i>Javier Pereiro-Barceló, Afonso Miguel Solak</i>

8:00	Registration			8:00
	Room Funchal Chairperson: Farid Benboudjema			
8:30	Opening Ceremony - Miguel Azenha and Dirk Schlicke			8:30
9:00	S01 - Keynote Speaker 1: John Provis			9:00
9:30	S01 - Keynote Speaker 2: Stéphanie Staquet			9:30
10:00	S02 - Poster presentations in 120 seconds			10:00
10:40	Coffee Break			10:40
11:00	S03 - Experimental testing of durability aspects of CBMs Chairperson: Emmanuel Rozière	S04 - Experimental testing of fresh properties of CBMs Chairperson: Ivan Gabrijel	S05 - Multi-scale modelling of durability aspects and behaviour of CBMs in extreme conditions Chairperson: Yilmaz Akkaya	11:00
	ROOM FUNCHAL	ROOM LISBOA	ROOM RIO DE JANEIRO	
	Effect of initial curing on corrosion behavior on steel bars in FA concrete under dry and wet actions. <i>Wakako Sugino, Keiyuu Kawaai, Isao Ujike</i>	Influence of selected factors on uncertainty of rheological measurement of fresh mortars. <i>Jacek Gołaszewski, Grzegorz Cygan, Małgorzata Gołaszewska</i>	Numerically accelerated chemical evolution in cementitious systems. <i>Janez Perko, Diederik Jacques</i>	
11:20	Carbonation resistance of high-volume fly ash (HVFA) mortar: Effect of applied CO2 concentration. <i>Philip Van den Heede, Didier Snoeck, Tim Van Mullem, Nele De Belie</i>	Monitoring fresh cementitious material by digital image correlation (DIC). <i>Evin Dildar Dzaye, Geert De Schutter, Dimitrios Aggelis</i>	How does the size of aggregates affect permeability of damaged concrete? <i>Marta Choinska, Stéphanie Bonnet, Aurélie Fabien, Hayder Al-Khazraji, Abdelhafid Khelidj</i>	11:20
11:40	Chloride diffusion resistance of limestone calcined clay cement (LC3) concrete. <i>Quang Dieu Nguyen, Mohammad Khan, Arnaud Castel</i>	Investigation, assessment and realtime readjustment of the rheological properties of self compacting concrete. <i>Ivan Parić, Wolfgang Kusterle</i>	Development of pore-scale model for ingress of CO2 brine through cement paste. <i>Ravi A. Patel, Nikolaos Prasianakis</i>	11:40
12:00	Gas diffusion in cementitious materials: Test methods review. <i>Fabien Gendron, Mouna Boumaaza, Philippe Turcry, Bruno Huet, Abdelkarim Ait-Mokhtar</i>	New insights on the segregation due to manufacture conditions of lightweight aggregate concretes. <i>Afonso Miguel Solak, Antonio José Tenza-Abril, Francisco Baeza-Brotos, Victoria Eugenia Garcia-Vera, Marcos Lanzón</i>	Scale effect on alkali-silica reaction. <i>Jacques Jabbour, Aveline Darquennes, Loic Divet, Rachid Bennacer, Jean-Michel Torrenti, Georges Nahas</i>	12:00
12:20	Amino-alcohols as Corrosion inhibitors against sulphate-induced corrosion of mild steel reinforcement in fresh calcium sulphoaluminate based cementitious materials: Preliminary studies. <i>Yegor Morozov, Simone Pellegrini, Sergio Lorenzi, Fátima Montemor</i>	Experimental procedures for determining the level of segregation of lightweight concretes. <i>Afonso Miguel Solak, Antonio José Tenza-Abril, Francisco Baeza-Brotos, Victoria Eugenia Garcia-Vera, Marcos Lanzón</i>	Effect of high temperature at early age on interfacial transition zone and material properties of concrete. <i>Shingo Asamoto, Ryosuke Yuguchi, Isao Kurashige, Pang-jo Chun</i>	12:20
12:40	Influence of carbonation and concrete specimen size on gas diffusion coefficient. <i>Mouna Boumaaza, Bruno Huet, Philippe Turcry, Christoph Gehlen, Abdelkarim Ait-Mokhtar, Detlef Heinz</i>	Time dependent of Young's modulus of concrete in very early age. <i>Tatsuya Usui, Takeda Hitoshi, Hiroshi Murata, Takuya Tani</i>	Structural performance of reinforced concrete slab subjected to fire and explosion. <i>Jiangpeng Shu, Terje Kanstad, Max Hendriks, Jan A. Øverli, Assis Barenys</i>	12:40
13:00	Lunch			13:00
14:20				

14:20	Room Funchal Chairperson: Dirk Schlicke			14:20
	S06 - Keynote Speaker 3: Ippei Maruyama			
14:50	S06 - Keynote Speaker 4: Nicolas Roussel			14:50
15:20	S06 - Keynote Speaker 5: Sofiane Amziane			15:20
15:50	Group Photo - Coffee Break			15:50
16:10	S07 - Advances in cement-based materials Chairperson: Violeta Bokan Bosiljkov ROOM FUNCHAL	S08 - Experimental testing of early-age properties of CBMs Chairperson: Marija Krstic ROOM LISBOA	S09 - Advances in multi-scale modelling of CBMs Chairperson: Laurie Lacarriere ROOM RIO DE JANEIRO	16:10
	Experimental investigation of new cement composites long-term properties. <i>Andina Sprince, Leonids Pakrastinsh, Liga Radina</i>	Compressive strength development of fly ash concretes cured under different conditions. <i>Tayfun Altuğ Söylev, Turan Özturan</i>	Interactions between crystalline calcium silicate hydrates: grand canonical simulation of pressure and temperature effects. <i>Tulio Honorio</i>	
16:30	A concrete home for marine micro inhabitants. <i>Atteyeh S. Natanzi, Ciaran McNally</i>	Study on characteristics of tensile strength of concrete considering temperature dependence in mass concrete structures. <i>Hiroki Izumi, Jun-ichi Arai, Toshiaki Mizobuchi</i>	Estimation of setting time in concrete through modelling of ultrasonic parameters. <i>Ivan Gabrijel, Mario Pintar</i>	16:30
16:50	Macro- and micro-structure evaluations of recycled post-consumer glass cementitious material for concrete. <i>Marija Krstic, Julio F. Davalos</i>	Heat of hydration of ternary-, quaternary-blended cements. <i>Arnaud Delaplace, Denis Garcia, Marie Bayle, Quentin Favre-Victoire</i>	Small scale fracture properties of cement paste and alkali-activated fly ash. <i>Jiri Němeček, Jitka Němečková, Jiri Němeček, Jan Maňák</i>	16:50
17:10	Properties of cement with increased lithium content. <i>Theodor Staněk, Alexandra Rybová, Anežka Zezulová, Martin Boháč</i>	Hydration process of natural hydraulic lime blended cement mortars. <i>Reda Jaafri, Emmanuel Rozière, Syed Yasir Alam, Ahmed Loukili</i>	Microstructural characterisation of cement-based materials (CBM) using the numerical simulation of ultrasonic propagation. <i>Jose Vicente Fuente, Sreejith Nanukuttan, Jorge Gosalbez, Neil Campbell</i>	17:10
17:30	Utilizing excavated rock material from tunnel boring machines (TBMS) for concrete. <i>Torjus Berdal, Pål Drevland Jakobsen, Stefan Jacobsen</i>	Influence of recycled aggregate and recycled sand on the development of the early age properties of concrete since setting. <i>Brice Delsaute, Stéphanie Staquet</i>	Effect of the maturation pressure on mechanical and hydraulic properties of oilwell cement paste. <i>Issam Takla, Nicolas Burlion, Jian-Fu Shao, Thomas Rougelot</i>	17:30
17:50	Aspects of activated fly ash: A comparative study of different mechanical treatments. <i>Alexander Mezhov, Ursula Pott, Dietmar Stephan, Konstantin Kovler</i>	The influence of slag chemistry on blended cements made with iron-rich slag. <i>Vincent Hallet, Jos Denissen, Remus Iacobescu, Yiannis Pontikes</i>	From disordered to ordered packings: a new packing model for UHPC? <i>Gerard Roquier</i>	17:50
18:10	Free time			18:10
19:00	Welcome cocktail			19:00
21:00				21:00

8:15	Room Funchal Chairperson: Agnieszka Jędrzejewska			8:15
	S10 - Keynote Speaker 6: Gianluca Cusatis			
8:45	S11 - Poster presentations in 120 seconds			8:45
9:40	S12 - Advances in material testing of CBMs at early-age Chairperson: Terje Kanstad	S13 - Bio-based materials: hemp concrete Chairperson: Sandrine Marceau	S14 - BIM and concrete Chairperson: Miguel Azenha	9:40
	ROOM FUNCHAL	ROOM LISBOA	ROOM RIO DE JANEIRO	
	Influence of the mixture composition of cementitious pastes with optimized packing density on setting and hardening studied by ultrasound investigations. <i>Markus Krüger, Rok Bregar, Gheorghe Alexandru David, Joachim Juhart</i>	In-plane racking strength of timber walls filled with hemp concrete. <i>Husam Wadi, Sofiane Amziane, Evelyne Toussaint, Mustapha Taazount</i>	Integrated application of advanced surveying techniques and BIM for inspection and asset management of reinforced concrete bridges. <i>Miguel Azenha, Gabriel Sousa, José Matos, José Sena-Cruz, Vitor Brito</i>	
10:00	The use of acoustic methods to describe the behaviour of cement pastes in the early stage of ageing. <i>Michaela Hoduláková, Libor Topolář, Barbara Kucharczyková, Dalibor Kocáb</i>	Evolution of hemp concrete properties exposed to different types of environments. <i>Guillaume Delannoy, Sandrine Marceau, Philippe Glé, Etienne Gourlay, Marielle Guéguen-Minerbe, Sofiane Amziane, Fabienne Farcas</i>	Cost-optimal analysis of concrete solutions for single-family NZEBS applying an Open BIM workflow. <i>Afonso Solak, Javier Pereiro-Barceló</i>	10:00
10:20	Standard and innovative characterization of strength, stiffness, and non-aging creep of concrete at early ages. <i>Mario Ausweger, Eva Binder, Olaf Lahayne, Roland Reihnsner, Gerald Maier, Martin Peyerl, Bernhard Pichler</i>	Mechanical performance, shrinkage and weathering of treated hemp concrete. <i>Mohammed Sonebi, C. Sentenac, Sofiane Amziane</i>	The road to sensor-driven cloud-based infrastructure management. <i>Carlos Gil Berrocal, Ignasi Fernandez, Rasmus Rempling</i>	10:20
10:40	Stress distribution in restrained ring test due to drying and autogenous shrinkage. <i>Semion Zhutovsky</i>	Effect of anisotropy on thermal and hygric properties of hemp composite. <i>Florence Collet, Sylvie Pretot, Brahim Mazhoud, Christophe Lanos</i>	BIM for precast. <i>Peter Karlsson</i>	10:40
11:00	Coffee Break			11:00
11:20	Room Funchal Chairperson: Miguel Azenha			11:20
	S15 - COST TU1404 Conclusion of Working Group Activities			
11:20	Summary of the outcome of WG1 <i>Violeta Bokan Bosiljkov, Emmanuel Rozière, Anja Klausen</i>			11:20
11:55	Summary of the outcome of WG2 <i>Guang Ye, Vít Šmilauer, Matthieu Briffaut, Laurent Charpin</i>			11:55
12:40	Summary of the outcome of WG3 <i>Terje Kanstad</i>			12:40
13:00	Lunch			13:00
14:20				14:20

14:20	Room Funchal Chairperson: Miguel Azenha			14:20
S16 - JCI Guidelines for Control of Cracking of Mass Concrete Japan Concrete Institute				
15:20	S17 - JCI Guidelines for Control of Cracking of Mass Concrete 2016: Concrete Measures Chairperson: Toshiaki Mizobuchi	S18 - Mechanical properties of geopolymers Chairperson: John Provis	S19 - Multi-physics simulation of durability aspects in CBMs Chairperson: Dariusz Gawin	15:20
	ROOM FUNCHAL	ROOM LISBOA	ROOM RIO DE JANEIRO	
	Concrete procedures for thermal crack control and DEF crack prevention. <i>Tsutomu Kanazu</i>	Influence of sodium hydroxide concentration on mechanical parameters of fly ash-based geopolymer. <i>Natalia Paszek, Marcin Górski</i>	Hydro-mechanical modelling of self induced stresses: impact of drying gradients on damage. <i>Francois Soleilhet, Farid Benboudjema, Xavier Jourdain, Fabrice Gatuingt</i>	
15:50		Effect of bauxite content and fineness on compressive strength of volcanic ash-based geopolymer mortars. <i>Léonel N. Tchadjé, Stephen O. Ekolu</i>	Concrete casting and lifetime conditions impact on high temperature resistance. <i>Giuseppe Sciumè, Stefano Dal Pont, Dorjan Dauti</i>	15:40
	Design values of concrete properties. <i>Shingo Miyazawa</i>	Investigation on strength development in geopolymer made of power plant fly ash suspension. <i>Szymon Dawczyński, Anita Kajzer, Marcin Górski</i>	Effect of humidity and elevated temperature on the mechanical behavior of concrete. <i>Laurie Lacarrière, Ponleu Chhun, Alain Sellier</i>	16:00
16:20	Coffee Break			16:20
16:40	S20 - JCI Guidelines for Control of Cracking of Mass Concrete 2016: Concrete Measures Chairperson: Tsutomu Kanazu	S21 - Advances in bio-based materials Chairperson: Sofiane Amziane	S22 - Self-healing concrete Chairperson: Ole Mejlhede Jensen	16:40
	ROOM FUNCHAL	ROOM LISBOA	ROOM RIO DE JANEIRO	
	Simple evaluation methods of thermal cracking index and maximum temperature in concrete. <i>Toshiaki Mizobuchi</i>	Influence of filler effect and pozzolanic reaction of biomass ashes on mechanical properties of cement mortars. <i>Vlastimir Radonjanin, Mirjana Malešev, Slobodan Šupić, Miroslava Radeka</i>	Method for inducing controlled cracks in concrete and measuring the efficiency of self-healing agents. <i>Amir Sidiq, Rebecca Gravina, Sujeeva Setunge, Filippo Giustozzi</i>	
17:10		Market potential of wood biomass ash utilisation in cement composites - Croatian case study. <i>Nina Štirmer, Ivana Carević, Bojan Milovanović, Ana Baričević</i>	Influence of crystalline admixtures on cement slurries properties and self-healing process. <i>Aline Oliveira, Romildo Toledo, Eduardo Fairbairn</i>	17:00
	Grounds of limit values of maximum temperature for preventing DEF cracking. <i>Shunsuke Hanehara</i>	Evaluation of the potential of corn and sunflower bark particles as bio-aggregates for lightweight concrete. <i>Alexandra Bourdot, Camille Magniont, Méryl Lagouin, Guillaume Lambaré, Laurent Labonne, Philippe Evon</i>	Effect of fly ash and superabsorbent polymers optimization on self-healing capability of concrete. Pattharaphon Chindasiriphan, Hiroshi Yokota, Paponpat Pimpakan	17:20
17:40		Alganite-bacillus subtilis based repair materials for sealing cracks in concrete. <i>Masahiko Ide, Keiyuu Kawaai, Isao Ujike</i>	Nano-scale tailoring of Engineered Cementitious Composites for simultaneous achievement of enhanced healing and sensing functionalities. <i>Mustafa Sahmaran, Gurkan Yildirim, Oguzhan Ozturk, Bugra Tolunay</i>	17:40
18:10	Free time			18:00
19:00				19:00
20:30	City Tour			20:30
23:00	Conference Dinner			23:00

8:15	Room Funchal Chairperson: Stéphanie Staquet				8:15
S23 - Keynote Speaker 7: Nele De Belie					
8:45	S24 - Poster presentations in 120 seconds				8:45
9:40	S25 - Durability of geopolymers and alkali-activated materials Chairperson: Özlem Cizer	S26 - Design of FRC and FRP-reinforced concrete Chairperson: Souzana Tastani	S27 - Multi-scale modelling of hygral properties of CBMs Chairperson: Ippei Maruyama	S28 - COST SARCOS Chairperson: Mercedes Sanchez	9:40
	ROOM FUNCHAL Characterization of the self-healing effect through pore structure and durability of alkali-activated cement concrete. <i>Pavel Krivenko, Igor Rudenko, Oleh Petropavlovskiy, Oles' Lastivka</i>	ROOM LISBOA Probabilistic numerical model for designing steel fibre reinforced concrete structures. <i>Pierre Rossi, Jean-Louis Tailhan</i>	ROOM RIO DE JANEIRO The impact of C-S-H nanostructure on autogenous shrinkage and sorption isotherms. <i>Enrico Masoero, Giovanni Di Luzio, Gianluca Cusatis</i>	ROOM PARIS Self-healing conventional concrete and cdb-concrete by use of microbial mixed cultures bioproducts. <i>Julia García-González, André Freches, Pedro Vaz, Paulo C. Lemos, Alice S. Pereira, Andrés Juan-Valdés, Paulina Faria</i>	
10:00	Durability of calcium sulfoaluminate-Portland cement blends. <i>Gultekin Ozan Ucal, Mehmet Kemal Ardogan, Melike Sucu, Tughan Delibas, Ismail Ozgur Yaman</i>	Tension stiffening model for serviceability analysis of steel and FRP reinforced concrete beams. <i>Gintaris Kaklauskas, Pui-Lam Ng, Aleksandr Sokolov</i>	Multi-scale modeling and non destructive testing: assessing water content of concrete. <i>Vincent Guihard, Jean-Luc Adia, Julien Sanahuja</i>	A preliminary study on the potential of bacteria-modified fibers in concrete. <i>Kira Weise, Henk Jonkers, Eddie Koenders</i>	10:00
10:20	Solidification/stabilization of port sediments contaminated by heavy metals and TBT using slag-based binders. <i>Tanya Gutsalenko, Alexandra Bourdot, Peter Seymour, Laurent Frouin, Mohend Chaouche</i>	Cost-optimal design of flexural concrete beam reinforced with FRP reinforcements. <i>Sigbjørn Tveit, Martin Wilhelmsen, Vlad Aleksander Lundeland, Mahdi Kioumars</i>	Numerical analysis of the drying kinetics in 3D concrete specimens of different size. <i>Benoit Bary, Stéphane Poyet</i>	Application of Lysinibacillus Sphaericus for Concrete Crack Healing. <i>Christine Farrugia, Ruben Paul Borg, Joseph Buhagiar, Liberato Ferrara</i>	10:20
10:40	Coffee Break				10:40
11:00	S29 - Multi-scale modelling of long-term behaviour of CBMs Chairperson: Guang Ye	S30 - Investigations of CBMs behaviour in practical applications Chairperson: Marijana Serdar	S31 - Structural design and analysis Chairperson: Giuseppe Sciumè	S32 - COST SARCOS Chairperson: Mercedes Sanchez	11:00
	ROOM FUNCHAL Creep properties of polymer particles in polymer-modified cement pastes, quantified by means of multiscale modeling. <i>Luise Göbel, Markus Königsbeger, Andrea Osburg, Bernhard Pichler</i>	ROOM LISBOA Characterisation of concrete pumping behaviour. <i>Egor Secieru, Viktor Mechtcherine</i>	ROOM RIO DE JANEIRO Parametric study on dapped-end of prestressed concrete girder in Dechatwong Bridge using finite element analysis. <i>Nuttapong Kongwang, Tidarut Jirawattanasomkul, Wanakorn Prayoonwet, Songpol Charuvisit</i>	ROOM PARIS The role of nanoparticles in self-healing process of cementitious materials. <i>Maria Stephanidou, Eirini-Chrysanthi Tsardaka, Evaggelia Tsampali, Spyridon Kassavetis</i>	
11:20	A new creep test method for reinforced concrete tension members under constant loading. <i>Eugenijus Gudonis, Pui-Lam Ng, Shao-Hua Chu, Aleksandr Sokolov</i>	Development of a heating mortar block system for snow melting through quasi microwaves. <i>Yosuke Ito, Shinji Kawabe</i>	Damage investigation and analytical investigation of pilot-type RC building in the 2016 Kumamoto Earthquake. <i>Masaru Shimazu</i>	Characterization and monitoring of the crack self-healing ability of bio-mortar. <i>Bojan Miljevic, Francesco Lo Monte Snazana Vucetic, Olja Sovljanski, Ivan Ristic, Sinisa Markov, Liberato Ferrara, Jonjaua Ranogajec</i>	11:20
11:40	Particle model for the prediction of long-term deformability properties of dam concrete. <i>Carlos Serra, Nuno Monteiro Azevedo, António Lopes Batista</i>	Physical evolution of the interface of fresh concrete/formwork from placement to setting time. <i>Typhanie Craipeau, Arnaud Perrot, Fabrice Toussaint, Thibaut Lecompte</i>	Thermomechanical modelling for the establishment of a new building method for basements of conventional housings. <i>Dirk Schlicke, Thomas Hochgatterer, Martin Zabern, Alexander Glebe, Alexander Reinisch</i>	Effectiveness of self-healing technologies in cement based materials: a cross-check experimental evaluation by multiple test methodologies (a proposal by COST ACTION CA 15202 SARCOS). <i>Liberato Ferrara, Estefania Cuenca, Francesco Lo Monte, Tim Van Mullem, Nele De Belie</i>	11:40
12:00	Assessing the CO ₂ -binding of concrete during its service life. <i>Andreas Leemann, Fritz Hunkeler, Heiner Widmer</i>	Experimental investigation of accelerators in floor concrete mixture under cold climatic conditions. <i>Themistoklis Tsalkatidis, Even Solbraa</i>	Numerical simulation of the early-age concrete behaviour of an arch dam. <i>Noemi Leitão, Eloísa Castilho</i>	Improvement of self-healing efficiency in Engineered Cementitious Composites by addition of forest biomass ash. <i>Gloria Perez, Jose Luis Garcia Calvo, Pedro Carballosa, Ana Guerrero</i>	12:00
12:20	Comparison between the experimental measurement results and the micromechanical modelling on the ageing basic creep of VerCoRs concrete. <i>Shun HUANG, Julien Sanahuja, Luc Dormieux, Benoit Bary, Eric Lemarchand, Laurent Charpin, Romain Thion</i>	Proposal of a test setup for simultaneous application of axial restraint and vertical loads to slab-like specimens: sizing principles and application. <i>José Gomes, Miguel Azenha, José Granja, Rui Faria, Carlos Sousa, Behzad Zahabizadeh, Ali Edalat-Behbahani, Dirk Schlicke</i>	Parametric study of the minimum required reinforcement for cracking control in thick restrained RC members based on thermo-hygro-mechanical FE analyses. <i>Carlos Sousa, Miguel Azenha, Cláudio Ferreira, Rui Faria</i>	The effects of continued hydration of undamaged material on apparent healing indices in cementitious materials. <i>Robert Davies, Cristina De Nardi, Anthony Jefferson</i>	12:20
12:40	Eulerian two-phase computational fluid dynamics model of a concrete screw mixer. <i>Nicolò Beccati, Cristian Ferrari</i>	Improvement of microwave absorption characteristics by sintering slag as aggregate. <i>Haruki Taguchi, Yosuke Ito, Shinji Kawabe</i>	Influence of partial restraining conditions and poisson's effect in bottom-restrained walls. <i>Dirk Schlicke, Lýdia Matiašková, Július Šoltész</i>	Surface treatments as repair methods for protecting rebars from corrosion. <i>Mercedes Sánchez, Fabiano Tavares</i>	12:40
13:00	Lunch				13:00
14:20					14:20

14:20	Room Funchal Chairperson: Paulo Silva Lobo				14:20
S33 - Keynote Speaker 8: Nenad Gucunski					
15:00	S34 - Advances in alkali-activated materials Chairperson: Szymon Dawczyński	S35 - Properties of CBMs with fibrous reinforcement Chairperson: François Toutlemonde	S36 - Multi-scale modelling of early-age properties of CBMs Chairperson: Bernhard Pichler	S37 - Monitoring of structures Chairperson: Markus Krüger	15:00
	ROOM FUNCHAL	ROOM LISBOA	ROOM RIO DE JANEIRO	ROOM PARIS	
	Flexural behavior and strengthening of Geopolymer concrete beams reinforced with GFRP bars using CRPP sheets. <i>Abdalla Elbana, M Talha Junaid, Salah Altoubat</i>	Study on temperature dependence of properties of high strength mortar using high alite cement and fine pozzolanic powder. <i>Hirokazu Kiriya, Eiji Maruya, Kenji Kawai, Ryoichi Sato</i>	Microstructure-based prediction of thermal properties of cement pastes at early ages. <i>Hadi Mazaheripour, Amin Abrishambaf, Rui Faria, Miguel Azenha, Ye Guang</i>	Research and development of infrastructure diagnostic robot system (ALP) by concrete wall moving mechanism using vacuum suction pad. <i>Junichiro Nojima, Toshiaki Mizobuchi</i>	
15:20	Effect of temperature on rheological properties of alkali activated brick powder based pastes. <i>Martin Vyšvařil, Pavla Rovnaniková</i>	Influence of micro-cracking on capillary water absorption of an UHPFRC. <i>Ana Mafalda Matos, Sandra Nunes, José L. Barroso Aguiar</i>	Early-age evolution of elastic stiffness and compressive strength of recycled concrete: Insights from multiscale micromechanics modeling. <i>Markus Königsberger, Stéphanie Staquet</i>	Detection, assessment and monitoring of common anomalies in concrete dams. <i>João Conde Silva</i>	15:20
15:40	Early-age cracking tendency of Alkali-activated slag binders compared to ordinary Portland cement. <i>Farah Rifai, Aveline Darquennes, Benoist Muzeau, Lavinia Stefan, Farid Benboudjema</i>	Durability of hemp fibre reinforced cementitious mortars by means of fibre protection and cement substitution with metakaolin. <i>Bojan Poletanović, Katalin Kopecskó, Ildiko Merta</i>	Early age mechanical properties and shrinkage of blended cement concrete containing slag. <i>Tahsin Alper Yikici, Egemen Kesler, Yilmaz Akkaya</i>	Deterioration diagnosis technique of polymer cement waterproofing membranes by difference in thermal characteristics of constituent materials using active thermography. <i>Masayuki Tsukagoshi, Hiroki Toyoda, Takao Ueda, Masashi Ishikawa</i>	15:40
16:00	Coffee Break				16:00
16:20	S38 - Novelties in alkali-activated materials Chairperson: Sreejith Nanukuttan	S39 - Mechanical behaviour of CBMs with fibrous reinforcement Chairperson: Gintaris Kaklauskas	S40 - Hydro-mechanical modelling of concrete Chairperson: Vit Šmilauer	S41 - On-site monitoring of concrete quality Chairperson: Nenad Gucunski	16:20
	ROOM FUNCHAL	ROOM LISBOA	ROOM RIO DE JANEIRO	ROOM PARIS	
	Alkali-activated blend of calcined lateritic soil and waste marble slurry. <i>Luca Valentini, Ludovico Mascarin, Enrico Garbin, Maria Chiara Dalconi</i>	Rheological behaviour of flexible fiber-reinforced cementitious materials. <i>Fariza Sultangaliyeva, Hélène Carré, Christian La Borderie, Nicolas Roussel</i>	Prediction of the impact of shrinkage on concrete strength with the beam-particle approach. <i>Nicolas Chan, Cécile Oliver-Leblond, Farid Benboudjema, Frédéric Ragueneau, Francois Soleilhet</i>	Increase concrete quality during design and execution phase. <i>Stefan Scheuchelbauer, Massimo Maffezzoli, Alexander Reinisch (DOKA)</i>	
16:40	Self-sensing properties of alkali-activated slag composite with carbon nanotubes. <i>Pavel Rovnaník, Miková Maria, Ivo Kusák, Pavel Schmid, Libor Topolář</i>	Strain rate effect on the tensile behaviour of ultra-high performance steel fiber reinforced concrete. <i>Veronika Goglin, Götz Hüskén, Hans-Carsten Kühne, Jos Brouwers</i>	Numerical study of chloride ingress in concrete: effect of exposure concentration. <i>Mohamad Achour, Ouali Amiri, François Bignonnet, Emmanuel Rozière, Mahdi Haidar</i>	An investigation of appropriate curing regimes for precast concrete structural elements with GGBS using maturity functions. <i>Fragkoulis Kanavaris, Marios Soutsos, Jian-Fei Chen, Sreejith Nanukuttan</i>	16:40
17:00	Hybrid alkali activated portland cements. <i>Lukáš Kalina, Vlastimil Bílek Jr., Lada Bradová, Radoslav Novotný, Tomáš Opravil, František Šoukal</i>	A numerical model for predicting cracking of fibre reinforced concrete rings in restrained shrinkage test. <i>Wei Dong, Xiaoyu Zhao, Xiangming Zhou, Wenyan Yuan</i>	Numerical modeling of porous media freezing process by means of a non-equilibrium approach. <i>Dariusz Gawin, Francesco Pesavento</i>	Evaluation of the material embedded in concrete by ultrasonic and GPR images. <i>Sofia Aparício, José Vicente Fuente, Dalmay Lluveras, Miguel Angel García Izquierdo, Margarita González, José Javier Anaya Velayos</i>	17:00
17:20	Break with voting (Poster)				17:20
17:40	Room Funchal				17:40
Closing session					
18:00					18:00
MC Meeting					
19:00					19:00