24-26 October 2018, Funchal, Portugal

Interdisciplinary Approaches for Cement-based Materials and Structural Concrete: Synergizing Expertise and Bridging Scales of Space and Time

PROGRAMME AND PRACTICAL INFORMATION
The focus of the conference is set on communicating, discussing and encouraging progress in research, development and application of Cement-based Materials and Structural Concrete, which has been attained through combination of expertise from distinct fields of knowledge.

SynerCrete’18 also marks the end of COST Action TU1404 “Towards the next generation of standards for service life of cement-based materials and structures” (www.tu1404.eu), offering a final forum to the discussions raised during the funded period of the Action, that started 4 years ago in 2014. Besides, this event also has wide international institutional support from RILEM, fib, JCI and ACI.

The conference consists of 8 keynote speakers and 180 regular papers presented over 3 days. Intense days are ahead of us, hopefully with strong opportunities for scientific discussion and networking.

Many people have contributed to the organization of this event, and will be available to support you during SynerCrete’18.

A warm welcome to all of you.
**KEYNOTE SPEAKERS**

**John PROVIS**
Title of presentation: Innovation in research on new binders  
DAY 1 (Wednesday), 9:00 - 9:30

Biographic note: John Provis completed PhD degree in Applied Mathematics and Chemical Engineering at the University of Melbourne (Australia) in 2006. He joined the University of Sheffield (UK) in 2012 as Professor of Cement Materials Science and Engineering, and since 2016 is also Head of the Sheffield Engineering Graduate School. He was awarded the 2013 RILEM Robert L’Hermite Medal, and in 2015 was presented with an honorary doctorate by Hasselt University, Belgium. He is Chair of RILEM TC 247-DTA and a member of the RILEM TAC, a Fellow of the Institute of Materials, Minerals and Mining (IoM3) and of the Institute of Concrete Technology (ICT), a Voting Member of committees of ASTM, BSI and ACI, and Associate Editor of the journals Cement and Concrete Research and Materials and Structures.

**Stéphanie STAQUET**
Title of presentation: 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  
DAY 1 (Wednesday), 9:30 - 10:00

Biographic note: Stéphanie Staquet received PhD from the Université Libre de Bruxelles in Belgium in 2004 where she became an Associate Professor in 2014. She has won the Louis Baes prize in 2006 for her PhD from the Royal Academy of Sciences in Belgium. During her career, she has been invited professor at several universities in France. She is an active member of RILEM TC 254-CMS. Since 2014 she is the Vice-Chair of the COST Action TU1404. Her research spans a wide range of concrete material topics as well as development of experimental advanced techniques at different scales for monitoring of the evolution of the early age properties in cement-based materials.

**Ippei MARUYAMA**
Title of presentation: Understanding of material dependent structural behavior for aging management of concrete structures  
DAY 1 (Wednesday), 14:20 - 14:50

Biographic note: Ippei Maruyama is Professor of Graduate School of Environmental Studies at the Nagoya University, Japan. He received a D.Eng. from the University of Tokyo in 2003. He is an editor in chief of the Journal of Advanced Concrete Technology, published by JCI. He is a materials scientist whose main research interests concern advancing understanding of the relation between microstructure, chemistry and properties of cementitious materials and structural performance of concrete structures. His most recent work has focused on the microstructural and physical properties change of hardened cement paste under the first drying and how it affects the performances of concrete structures.

**Nicolas ROUSSEL**
Title of presentation: Digital construction with cementitious materials: activities of the RILEM Technical Committee  
DAY 1 (Wednesday), 14:50 - 15:20

Biographic note: Nicolas Roussel graduated from Ecole Normale Supérieure in 1998 and is now leading the research activities dealing with mix design and processing of construction materials at IFSTTAR, France. He is editor in chief of RILEM Technical Letters and chair of RILEM TAC. He has received the Robert L’Hermite medal in 2007. His recent research focuses on innovative processing technologies. It includes mixing and dispersion, centrifugation and granulation, vibration and compaction, spraying and coating and automation in construction. He was ranked among the 150 most cited researchers in civil engineering in the Shanghai’s Global Ranking of Academics.
Sofiane AMZIANE
Title of presentation: Multiscale uses of vegetal in the building material construction industry
DAY 1 (Wednesday), 15:20 - 15:50
Biographic note: Sofiane Amziane is a full Professor of the Blaise Pascal University, Clermont-Ferrand. He is the coordinator of bio-based materials of the Institut Pascal. He is the president of scientific committee of the Association of Civil Engineering Universities (AUIC). His main area of interest is on concrete rheology, reparation and reinforcement of RC concrete with composite, bio-based building materials, characterization and utilization of industrial by-products and waste materials. He edited the 1st book related to Bio-aggregate-based Building Materials as well STAR of RILEM books and NIST report. He is a member/chair or co-chair of several ACI and RILEM committees.

Gianluca CUSATIS
Title of presentation: Computational modeling and characterization of infrastructure materials for terrestrial and extraterrestrial constructions
DAY 2 (Thursday), 8:15 - 8:45
Biographic note: Gianluca Cusatis works at the Northwestern University since 2011. He obtained his PhD from Politecnico Di Milano (Italy). He performs research in the field of experimental, computational and applied mechanics, with emphasis on heterogeneous and quasi-brittle infrastructure materials. His work on constitutive modeling of concrete through the adoption of the Lattice Discrete Particle Model is known worldwide. In addition, his recent work on waterless concrete for Martian constructions has received widespread attention. He is a co-director of the center for the Sustainable Engineering of Geological and Infrastructure Materials. He is a member of FraMCoS, ASCE, and ACI, and active in several TCs. He serves as the chair of the ACI 208 committee and served as the chair of ACI 446 committee.

Nele de BELIE
Title of presentation: Demonstration projects with self-healing capsule-based and bacteria-based concrete
DAY 3 (Friday), 8:15 - 8:45
Biographic note: Nele De Belie is professor at Ghent University since 2000 where she first obtained her PhD in 1997. Her research topics include durability of cement-bound materials, biodeterioration and biofouling, smart concrete with self-healing or self-cleaning properties, sustainable concrete, agricultural structures, design for recycling. She has supervised more than 50 projects in these areas. She has been expert advisor for of the Flemish Minister of Economy, Enterprise, Science, Innovation and Foreign Trade. She is a chair or member of several scientific committees. She is an editorial board member of 4 scientific journals. She is laureate of different awards such as the RILEM Robert L’Hermite medal and RILEM fellowship.

Nenad GUCUNSKI
Title of presentation: Innovative ways in condition assessment of concrete bridge decks: Data collection using robotics, and advanced data interpretation and visualization
DAY 3 (Friday), 14:20 - 14:50
Biographic note: Nenad Gucunski is professor at Rutgers University and Director of Infrastructure Condition Monitoring Program at Rutgers’ Center for Advanced Infrastructure and Transportation (CAIT). He received his PhD from the University of Michigan. His primary expertise is in nondestructive testing/evaluation (NDT/NDE) of transportation infrastructure, soil dynamics, numerical modeling, and geophysical methods. He is/ was leading more than 30 infrastructure related projects. He is an active member of a number of technical committees and the past chair of the ASCE’s Geophysical Engineering Committee. His team was the recipient of the 2014 ASCE Charles Pankow Award for Innovation for the development of RABIT (Robotics Assisted Bridge Inspection Tool) for bridge decks.
CONFERENCE PROGRAM

DAY 0 - Tuesday October 23, 2018

18:00 Hotel Pestana Casino Park - lobby
Registration

20:00

DAY 1 - Wednesday October 24, 2018

08:00 REGISTRATION
Room Funchal
Opening Ceremony (M. Azenha & D. Schlicke)
08:00 S11 - Poster presentations in 120 seconds (Chair: A. Jędrzejewska)
08:15 S10 - Keynote Speaker 6: G. Cusatis (Chair: A. Jędrzejewska)

23:00 CONFERENCE DINNER

20:30 CITY TOUR

18:10 FREE TIME

19:00 CONFERENCE DINNER


DAY 2 - Thursday October 25, 2018

08:15 S12 - Keynote Speaker 6: G. Cusatis (Chair: A. Jędrzejewska)
08:45 S11 - Poster presentations in 120 seconds (Chair: A. Jędrzejewska)

9:40 Room Funchal
S12 - Advances in material testing of CBMs at early-age (Chair: T. Kanstad)
Room Lisbon
S13 - Bio-based materials: hemp concrete (Chair: S. Marceau)
Room Rio de Janeiro
S14 - BIM and concrete (Chair: M. Azenha)

11:00 COFFEE BREAK

Room Funchal
S07 - Advances in experimental testing of durability aspects of CBMs (Chair: E. Rozière)
Room Lisbon
S08 - Experimental testing of fresh properties of CBMs (Chair: E. F. Fairbairn)
Room Rio de Janeiro
S09 - Advances in multiscale modelling of CBMs (Chair: L. Lacamlière)

12:00 LUNCH

14:00 Room Funchal
S06 - Keynote Speaker 5: S. Amziane (Chair: D. Schlicke)
14:20 Room Lisbon
S06 - Keynote Speaker 4: N. Roussel (Chair: D. Schlicke)
14:50 Room Lisbon
S06 - Keynote Speaker 3: I. Maruyama (Chair: D. Schlicke)

15:00 S15 - COST TU1404 Conclusion of Working Group Activities (Chair: M. Azenha)
LUNCH
16:00 S16 - JCI Guidelines for Control of Cracking of Mass Concrete Japan Concrete Institute (Chair: M. Azenha)
16:20 S17 - JCI Parallel I (Chair: T. Mizoibuchu)
S18 - Mechanical properties of geopolymers (Chair: J. Provis)
S19 - Multi-physics simulation of durability aspects of CBMs (Chair: D. Gawin)

16:40 Room Funchal
S20 - JCI Parallel II (Chair: T. Kanstad)
Room Lisbon
S21 - Advances in bio-based materials (Chair: S. Amziane)
Room Rio de Janeiro
S22 - Self-healing concrete (Chair: D. Jensen)

18:10 FREE TIME

19:00 CONFERENCE DINNER

23:00

DAY 3 - Friday October 26, 2018

08:15 S23 - Keynote Speaker 7: N. De Belie (Chair: S. Staquet)
08:45 S24 - Poster presentations in 120 seconds (Chair: S. Staquet)

09:40 Room Funchal
S25 - Durability of geopolymers and alkali-activated materials (Chair: L. Tastani)
Room Lisbon
S26 - Design of FRC and FRP-reinforced concrete (Chair: S. Tastani)
Room Rio de Janeiro
S27 - Multi-scale modelling of hygral properties of CBMs (Chair: I. Maruyama)

10:40 COFFEE BREAK

Room Funchal
S29 - Multi-scale modelling of long-term behaviour of CBMs (Chair: S. Asamoto)
Room Lisbon
S30 - Investigations of CBMs behaviour in practical applications (Chair: M. Serdar)
Room Rio de Janeiro
S31 - Structural design and analysis (Chair: G. Sciumè)

11:00 Room Funchal
S28 - COST SARCOS 1 (Chair: M. Sanchez)
Room Lisbon
S32 - COST SARCOS 2 (Chair: M. Sanchez)
Room Rio de Janeiro
S33 - Keynote Speaker 8: N. Gucunski (Chair: P. Lobo)

12:00 LUNCH

14:20 Room Funchal
S34 - Advances in alkali-activated materials (Chair: S. Staquet)
14:40 Room Lisbon
S35 - Properties of CBMs with fibrous reinforcement (Chair: F. Toutemonde)
Room Rio de Janeiro
S36 - Multi-scale modelling of early-age properties of CBMs (Chair: B. Pichler)

15:00 Room Funchal
S37 - Monitoring of structures (Chair: M. Rivier)
Room Lisbon
S38 - Novelities in alkali-activated materials (Chair: M. Brellant)
Room Rio de Janeiro
S39 - Mechanical behaviour of CBMs with fibrous reinforcement (Chair: G. Kakaukas)

16:00 COFFEE BREAK

Room Funchal
S34 - Advances in alkali-activated materials (Chair: S. Staquet)
Room Lisbon
S35 - Properties of CBMs with fibrous reinforcement (Chair: F. Toutemonde)
Room Rio de Janeiro
S36 - Multi-scale modelling of early-age properties of CBMs (Chair: B. Pichler)

16:40 Room Funchal
S37 - Monitoring of structures (Chair: M. Rivier)
Room Lisbon
S38 - Novelities in alkali-activated materials (Chair: M. Brellant)
Room Rio de Janeiro
S39 - Mechanical behaviour of CBMs with fibrous reinforcement (Chair: G. Kakaukas)

17:20 BREAK WITH VOTING (POSTER)

Room Funchal
Closing Session
17:40 MIC Meeting
18:00

DAY 4 - Saturday October 27, 2018

08:00 Technical tour (Optional; registration needed)
10:30 Tour around the island, trekking, meals (Optional; registration needed)
18:00
# S02 - POSTER PROGRAM

**ROOM FUNCHAL**  
Chairperson: Farid Benboudjema

**DAY 1 - Wednesday, October 24, 2018**  
2-min presentations with posters: 10:00 - 10:40

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<thead>
<tr>
<th>No.</th>
<th>Title</th>
<th>Authors</th>
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</thead>
<tbody>
<tr>
<td>01</td>
<td>Particle-matrix proportioning of high strength lightweight aggregate concrete</td>
<td>Elisabeth Leite Skare, Jelena Zivkovic, Stefan Jacobsen, Jan Arve Øverli</td>
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<tr>
<td>02</td>
<td>Self-compacting concrete with recycled concrete aggregate as ecological material</td>
<td>Iva Despotovic, Ksenija Jankovic, Dragan Bojovic, Marko Stojanovic</td>
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<td>03</td>
<td>The development of the early-age elastic modulus in cement-materials with different water coefficient</td>
<td>Romana Halamová, Dalibor Kocáb, Barbara Kucharczyková, Petr Daněk</td>
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<td>04</td>
<td>Comparison of standard concrete and eco-concrete in respect to technical, environmental and durability performance</td>
<td>Joachim Juhart, Rok Bregar, Gheorge David, Markus Krüger</td>
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<td>05</td>
<td>Effect of marble powder waste on the properties of self compacting concrete</td>
<td>Ali M Mansor, Asaad A Elshab, Ruben Paul Borg, Ahmed M M Hamad</td>
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<td>06</td>
<td>Estimating the stress development in early age concrete with mineral additions from coupled measurements</td>
<td>Jérôme Carette, Brice Delsaute, Stéphanie Staquet</td>
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<td>07</td>
<td>Photocatalytic novel concrete material application and its life time standard testing</td>
<td>František Peterka</td>
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<td>08</td>
<td>Exposition to acid attack of mortars with nanosilica, zinc stearate and ethyl silicate coating</td>
<td>Victoria García-Vera, Antonio Tenza-Abri, Marcos Lanzón, Afonso Miguel Solak</td>
</tr>
<tr>
<td>09</td>
<td>Alkali activated materials: review of current problems and possible solutions</td>
<td>Adeyemi Adesina</td>
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<td>10</td>
<td>Sulphate-induced corrosion of steel reinforcement in fresh calcium sulphaaluminate binders: Preliminary studies.</td>
<td>Yegor Morozov, Simone Pellegrini, Sergio Lorenzi, Fátima Montemor</td>
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<td>11</td>
<td>Assessment of internal relative humidity and temperature of cement-based materials – Parallel study using two sensor systems</td>
<td>Violeta Bokan Bosiljkov, Martin Klun, Zvonoa Jagličić, Samo Beguš</td>
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<td>12</td>
<td>Durability properties of autoclaved aerated and high performance foamed concrete</td>
<td>Genadijs Sahmenko, Aleksandrs Korjakins, Eva Namsone</td>
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<td>13</td>
<td>The use of acoustic methods to describe the behaviour of cement pastes in the early stage of ageing</td>
<td>Michaela Hoduliáková, Libor Topolář, Barbara Kucharczyková, Dalibor Kocáb</td>
</tr>
<tr>
<td>14</td>
<td>Resistance to sulfate and acid attack of self-compacting concrete with recycled aggregates</td>
<td>Said Kenai, Mohamed Omrane</td>
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S11 - POSTER PROGRAM

ROOM FUNCHAL
Chairperson: Agnieszka Jędrzejewska

DAY 2 - Thursday, October 25, 2018
2-min presentations with posters: 08:45 - 09:40

01 Influence of the alkaline treatment on the tensile properties of jute fibers and on the fiber-matrix bonding
Yasmim Gabriela dos Santos Mendonça, Bartosz Zukowski, Romildo Dias Toledo Filho

02 Strain resilient cementitious composites made with calcareous fly ash and polypropylene fibers: The effect of temperature and freeze-thaw on flexural tension
Souzana Tastani, Ioannis Savvidis

03 Performance of recycled and commercial fibre reinforced concrete beams in combined action with conventional reinforcement
Katerina Bernhoft, Samindi Samarakoon, Luis Evangelista, Bjarne Mikalsen

04 Acoustic emission parameters of alkali activated fly ash specimens with hemp fibres under static loading
Libor Topolář, Hana Šimonová, Barbara Kucharczyková

05 Effect of compacting pressure and carbonation duration on carbon dioxide activated binders.
Pedro Humbert, João Castro Gomes

06 Life cycle assessment of bio-based construction panels with magnesium binder
Maris Sinka, Aleksandrs Korjakins, Diana Bajare, Genadijs Sahmenko

07 Experimental investigation of new cement composites long-term properties
Andina Sprince, Leonids Pakrastinsh, Liga Radina

08 The role of various aggregates on rheology of fresh 3D printing concrete
Martin Boháč, Bohdan Nešpor, Theodor Staněk

09 A 3D printer of cement mortars based on initial deposition of dry materials
Miguel Azenha, Caetano Monteiro, Ricardo Morais

10 Effect of green activators on the properties of alkali activated materials: a review
Adeyemi Adesina

11 Water absorption changes in mortars with crystalline admixture exposed to acid environment
Victoria García-Vera, Antonio José Tenza-Abril, Marcos Lanzón, Alfonso Miguel Solak, Pla Concepción, David Benavente

12 Experimental study of the chemical deformation of metakaolin based geopolymer
Zhenming Li, Guang Ye

13 Brittleness of high-strength lightweight aggregate concrete
Jelena Zivkovic, Mladena Lukovic, Jan Arve Øverli, Dick Hordijk
S24 - POSTER
PROGRAM

ROOM FUNCHAL
Chairperson: Stéphanie Staquet

DAY 3 - Friday, October 26, 2018
2-min presentations with posters: 08:45 - 09:40

01 Extending the service life of polymer industrial floor coatings by improving its adhesion to cement-based substrates
Lukasz Sadowski, Agnieszka Chowaniec

02 Utilization of quartz quarry dust in Engineered Cementitious Composites production
Olan Tığ Taş, Süleyman Bahadir Keskin, Özlem Kasap Keskin, Mustafa Sahmaran

03 Stress redistribution mechanism in concrete elements with polymer flexible joint: Experimental results
Łukasz Zdanowicz, Marcin Tekieli, Arkadiusz Kwiecien

04 Self-healing and strength recovery evaluation of super absorbent polymers concrete mixes under controlled damage
Amir Siddiq, Rebecca Gravina, Sujeeva Setunge, Filippo Giustozzi

05 Influence of the flexibility of calcium silicate hydrates layers on the mesotexture: coarse grained simulations accounting for three-body interactions
Tulio Honorio

06 An experiment-based FE approach to analyze early-age temperature and strain distribution in large-dimension concrete wall
Yan Meng, Suduo Xue, Xiongyan Li, Jinguang Li

07 Gamma and X radiation absorption characteristics of specially selected types of concrete
Srboljub Stankovic, Ksenija Jankovic

08 The relationship of chemical characteristics of fly ash and compressive strength of alkali-activated fly ash mortar.
Youngkeun Cho, Yoonseok Chung, Joohyung Kim, Bongchun Lee, Sanghwa Jung, Youngchul Choi

09 Load-bearing performance simple evaluation system of RC road bridge deteriorated caused by salt damage
Hitoshi Ito, Toshiaki Mizobuchi

10 Overview on the multi-decade database of Portuguese large concrete dams monitoring data
António Tavares de Castro, José Barateiro, Carlos Sera

11 Inspection and maintenance of concrete bridges: Investigation of most significant damage mechanisms vs. locations
R.M. Chandima Ratnayake, Youssef Saad, Kamshan Karunaharan, S.M. Samindi, M.K. Samarakoon

12 A comparison of two major approaches used for concrete strength prediction for different concrete types
Seda Yesilmen, Sinan Kefeli

13 Influence of prestress losses on the dynamic over static capacity ratios of railway concrete sleepers
Chayut Ngamkhanong, Sakiirat Kaewunruen

14 A simplified 1D stress approach for cracking risk prediction
Luis Ebensperger

15 Experimental setup for the characterization of the long term bond and crack widths in RC ties under constant axial force
Carlos Sousa, Mário Pimentel, Amin Abrishambaf, Rui Faria, Miguel Azenha

16 Structural design with OpenBIM: From the architectural model to the structural analysis with a state-of-the-art calculation engine
Javier Pereiro-Barceló, Afonso Miguel Solak
## DETAILED PROGRAM

### DAY 1 - Wednesday, October 24, 2018 | Morning

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<th>Location</th>
<th>Chairperson</th>
<th>Presenters</th>
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<tr>
<td>08:00</td>
<td>REGISTRATION</td>
<td>Room Funchal</td>
<td>Farid Benboudjema</td>
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<tr>
<td>08:30</td>
<td>Opening Ceremony</td>
<td>Room Funchal</td>
<td>Miguel Azenha and Dirk Schlicke</td>
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<tr>
<td>09:00</td>
<td>S01 - Keynote Speaker 1</td>
<td>Room Funchal</td>
<td>John Provis</td>
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<tr>
<td>09:30</td>
<td>S01 - Keynote Speaker 2</td>
<td>Room Funchal</td>
<td>Stéphanie Staquet</td>
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<td>10:00</td>
<td>S02 - Poster presentations in 120 seconds</td>
<td>Room Funchal</td>
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<tr>
<td>10:40</td>
<td>COFFEE BREAK</td>
<td>Room Funchal</td>
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<td>11:00</td>
<td>S03 - Experimental testing of durability aspects of CBMs</td>
<td>Room Funchal</td>
<td>Emmanuel Rozière</td>
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<td>11:00</td>
<td>Effect of initial curing on corrosion behavior on steel bars in FA concrete under dry and wet actions.</td>
<td>Room Funchal</td>
<td>Wakako Sugino, Keiyuu Kawaai, Isao Ujke</td>
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<tr>
<td>11:40</td>
<td>Chloride diffusion resistance of limestone calcined clay cement (LC3) concrete.</td>
<td>Room Funchal</td>
<td>Quang Dieu Nguyen, Mohammad Khan, Arnaud Castel</td>
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<tr>
<td>12:00</td>
<td>Gas diffusion in cementitious materials: Test methods review.</td>
<td>Room Funchal</td>
<td>Fabien Gandron, Mouna Boumaaza, Philippe Turczy, Bruno Huet, Abdelkarim Alt-Mokhtar</td>
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<tr>
<td>12:20</td>
<td>Amino-alcohols as Corrosion inhibitors against sulphate-induced corrosion of mild steel reinforcement in fresh calcium sulphoaluminate based cementitious materials: Preliminary studies.</td>
<td>Room Funchal</td>
<td>Yegor Morozov, Simone Pellegrini, Sergio Lorenzi, Fatima Montemor</td>
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<tr>
<td>12:40</td>
<td>Influence of carbonation and concrete specimen size on gas diffusion coefficient.</td>
<td>Room Funchal</td>
<td>Mouna Boumaaza, Bruno Huet, Philippe Turcry, Christoph Gehlen, Abdelkarim Alt-Mokhtar, Detlef Heinz</td>
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<tr>
<td>13:00</td>
<td>LUNCH</td>
<td>Room Funchal</td>
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### Room Lisboa

<table>
<thead>
<tr>
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<th>Presenters</th>
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<tr>
<td>11:00</td>
<td>S04 - Experimental testing of fresh properties of CBMs</td>
<td>Room Lisboa</td>
<td>Ivan Gabriel</td>
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<tr>
<td>11:00</td>
<td>Influence of selected factors on uncertainty of rheological measurement of fresh mortars.</td>
<td>Room Lisboa</td>
<td>Jacek Golaszewski, Grzegorz Cygan, Malgorzata Golaszewska</td>
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<tr>
<td>12:00</td>
<td>New insights on the segregation due to manufacture conditions of lightweight aggregate concretes.</td>
<td>Room Lisboa</td>
<td>Antonio José Tenza-Abril, Francisco Baeza-Brottons, Victoria Eugenia García-Vera, Marcos Lanzón</td>
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<tr>
<td>12:20</td>
<td>Experimental procedures for determining the level of segregation of lightweight concretes.</td>
<td>Room Lisboa</td>
<td>Antonio José Tenza-Abril, Francisco Baeza-Brottons, Victoria Eugenia García-Vera, Marcos Lanzón</td>
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<tr>
<td>12:40</td>
<td>Time dependent of Young’s modulus of concrete in very early age.</td>
<td>Room Lisboa</td>
<td>Tatsuya Liu, Takeda Hitoishi, Hiroshi Murata, Takuya Tani</td>
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### Room Rio de Janeiro

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<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
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<th>Presenters</th>
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<tr>
<td>11:00</td>
<td>S05 - Multiscale modelling of durability aspects &amp; behaviour of CBMs in extreme conditions Chairperson: Yilmaz Akkaya</td>
<td>Room Rio de Janeiro</td>
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<tr>
<td>11:00</td>
<td>Numerically accelerated chemical evolution in cementitious systems.</td>
<td>Room Rio de Janeiro</td>
<td>Jacek Perko, Diederik Jacques</td>
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<tr>
<td>12:00</td>
<td>Development of pore-scale model for ingress of CO2 brine through cement paste.</td>
<td>Room Rio de Janeiro</td>
<td>Ravi A. Patel, Nikolasos Prasianakis</td>
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<td>12:20</td>
<td>Effect of high temperature at early age on interfacial transition zone and material properties of concrete.</td>
<td>Room Rio de Janeiro</td>
<td>Shingo Asamoto, Ryosuke Yuguchi, Issyo Kurashige, Panyo-Chun</td>
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### Room Lisboa

- **Opening Ceremony**: Miguel Azenha and Dirk Schlicke
- **Keynote Speaker 1**: John Provis
- **Keynote Speaker 2**: Stéphanie Staquet
- **Poster presentations in 120 seconds**
- **Coffee Break**
**DAYS 1 - Wednesday, October 24, 2018 | Afternoon**

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<th>Room Funchal</th>
<th>Chairperson: Dirk Schlicke</th>
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<tbody>
<tr>
<td>14:20 S06 - Keynote Speaker 3</td>
<td>Understanding of material dependent structural behavior for aging management of concrete structures: Ippei Maruyama</td>
</tr>
<tr>
<td>14:50 S06 - Keynote Speaker 4</td>
<td>Digital construction with cementitious materials - activities of the RILEM Technical Committee: Nicolas Roussel</td>
</tr>
<tr>
<td>15:20 S06 - Keynote Speaker 5</td>
<td>Multiscale uses of vegetal in the building material construction industry: Sofiane Amziane</td>
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</tbody>
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| 15:50 GROUP PHOTO - COFFEE BREAK |

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<tr>
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<tbody>
<tr>
<td>16:10 S07 - Advances in cement-based materials</td>
<td>S08 - Experimental testing of early-age properties of CBMs</td>
<td>S09 - Advances in multi-scale modelling of CBMs</td>
</tr>
<tr>
<td>Chairperson: Violeta Bokan Bosičkov</td>
<td>Chairperson: Eduardo Fairbairn</td>
<td>Chairperson: Laurie Lacarrière</td>
</tr>
<tr>
<td>17:30 Utilizing excavated rock material from tunnel boring machines (TBMS) for concrete. Torjus Berdal, Pál Dreivland Jakobsen, Stefan Jacobsen</td>
<td>Influence of recycled aggregate and recycled sand on the development of the early age properties of concrete since setting. Brice Delsaute, Stéphanie Staquet</td>
<td>Effect of the maturation pressure on mechanical and hydraulic properties of oilwell cement paste. Issam Talibly, Nicolas Burlon, Jian-Fu Shao, Thomas Rougelot</td>
</tr>
</tbody>
</table>

| 18:10 FREE TIME |

| 19:00 WELCOME COCKTAIL |

| 21:00 |
## DAY 2 - Thursday, October 25, 2018 | Morning

### Room Funchal
Chairperson: Agnieszka Jędrzejewska

08:15  **S10 - Keynote Speaker 6**
Computational modeling and characterization of infrastructure materials for terrestrial and extraterrestrial constructions: Gianluca Cusatis

08:45  **S11 - Poster presentations in 120 seconds**

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<tbody>
<tr>
<td><strong>S12 - Advances in material testing of CBMs at early-age</strong>&lt;br&gt;Chairperson: Terje Kanstad</td>
<td><strong>Influence of the mixture composition of cementitious pastes with optimized packing density on setting and hardening studied by ultrasound investigations.</strong>&lt;br&gt;Markus Krüger, Rok Bregar, Gheorghe Alexandru David, Joachim Juhart</td>
<td><strong>Integrated application of advanced surveying techniques and BIM for inspection and asset management of reinforced concrete bridges.</strong>&lt;br&gt;Miguel Azenha, Gabriel Spussa, José Matos, José Sena-Cruz, Vítor Brito</td>
</tr>
<tr>
<td><strong>Room Funchal</strong></td>
<td><strong>In-plane racking strength of timber walls filled with hemp concrete.</strong>&lt;br&gt;Husam Wadie, Sofiane Amziane, Evelyne Toussant, Mustapha Taazount</td>
<td><strong>Room Rio de Janeiro</strong></td>
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<tr>
<td><strong>Room Funchal</strong></td>
<td><strong>Evolution of hemp concrete properties exposed to different types of environments.</strong>&lt;br&gt;Guillaume Delannoy, Sandrine Marceau, Philippe Gé, Etienne Gourlay, Manouëlle Gutguen-Minerbe, Sofiane Amziane, Fabienne Farcas</td>
<td><strong>Cost-optimal analysis of concrete solutions for single-family NZEBS applying an Open BIM workflow.</strong>&lt;br&gt;Afonso Solak, Javier Pereiro-Barceló</td>
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<tr>
<td><strong>Room Funchal</strong></td>
<td><strong>Mechanical performance, shrinkage and weathering of treated hemp concrete.</strong>&lt;br&gt;Mohammed Sonebi, C. Sentenac, Sofiane Amziane</td>
<td><strong>The road to sensor-driven cloud-based infrastructure management.</strong>&lt;br&gt;Carlos Gil Benrocal, Ignasi Fernandez, Rasmus Rempling</td>
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<tr>
<td><strong>Room Funchal</strong></td>
<td><strong>Effect of anisotropy on thermal and hygric properties of hemp composite.</strong>&lt;br&gt;Florence Collet, Sylvie Pretot, Brahim Mazhoud, Christophe Lanas</td>
<td><strong>BIM for precast.</strong>&lt;br&gt;Peter Karlsson</td>
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<td><strong>Room Funchal</strong></td>
<td><strong>Stress distribution in restrained ring test due to drying and autogenous shrinkage.</strong>&lt;br&gt;Semion Zhutovsky</td>
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<tr>
<td><strong>Room Funchal</strong></td>
<td><strong>Standard and innovative characterization of strength, stiffness, and non-aging creep of concrete at early ages.</strong>&lt;br&gt;Mario Ausweiger, Eva Binder, Olaf Lahayne, Roland Rehinsger, Gerald Maier, Martin Peyerl, Bernhard Pickler</td>
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08:45  **S11 - Poster presentations in 120 seconds**

10:00  **COFFEE BREAK**
Chairperson: Miguel Azenha

11:00  **S15 - COST TU1404 - Conclusion of Working Group Activities**

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<td><strong>S15 - COST TU1404 - Conclusion of Working Group Activities</strong></td>
<td>Summary of the outcome of WG1: Vikteta Bokari Bozalov, Emmanuel Rozière, Anja Klausen</td>
<td><strong>Room Rio de Janeiro</strong></td>
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<td>Summary of the outcome of WG2: Guang Ye, Vít Šmilauer, Matthieu Briffaut, Laurent Charpin</td>
<td><strong>Room Rio de Janeiro</strong></td>
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<td>Summary of the outcome of WG3: Terje Kanstad</td>
<td><strong>Room Rio de Janeiro</strong></td>
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11:00  **COFFEE BREAK**
Chairperson: Miguel Azenha

11:20  **Summary of the outcome of WG1:** Vikteta Bokari Bozalov, Emmanuel Rozière, Anja Klausen

11:50  **Summary of the outcome of WG2:** Guang Ye, Vít Šmilauer, Matthieu Briffaut, Laurent Charpin

12:40  **Summary of the outcome of WG3:** Terje Kanstad

13:00  **LUNCH**
**DAY 2 - Thursday, October 25, 2018 | Afternoon**

### Room Funchal Chairperson: Miguel Azenha

14:20 S16 - JCI Guidelines for Control of Cracking of Mass Concrete - Japan Concrete Institute; Ryoichi Sato and Toshiaki Mizobuchi

15:00 Concrete procedures for thermal crack control and DEF crack prevention. Tsutomu Kanazu

15:50 Design values of concrete properties. Shingo Miyazawa

### Room Lisboa

14:20 S17 - JCI Guidelines for Control of Cracking of Mass Concrete 2016: Concrete Measures Chairperson: Toshiaki Mizobuchi

15:40 Influence of sodium hydroxide concentration on mechanical parameters of fly ash-based geopolymer. Natalia Ptaszak, Marcin Górski

16:00 Investigation on strength development in geopolymer made of power plant fly ash suspension. Szymon Dawczyński, Anita Kajzer, Marcin Górski

### Room Rio de Janeiro

14:20 S18 - Mechanical properties of geopolymers Chairperson: John Provis

15:40 Effect of bauxite content and fineness on compressive strength of volcanic ash-based geopolymer mortars. Léonel N. Tchadjié, Stephen O. Ekolu

16:00 Grounds of limit values of maximum temperature for preventing DEF cracking. Shunsuke Hanehara

### Room Funchal

14:20 S19 - Multi-physics simulation of durability aspects in CBMs Chairperson: Dariusz Gawin

15:20 Concrete casting and lifetime conditions impact on high temperature resistance. Giuseppe Sollunò, Stefano Dal Pont, Dojan Dauti

15:50 Effect of humidity and elevated temperature on the mechanical behavior of concrete. Lauria Llacamino, Ponleu Chhun, Alain Sekler

16:00 COFFEE BREAK

### Room Lisboa

14:20 S20 - JCI Guidelines for Control of Cracking of Mass Concrete 2016: Concrete Measures Chairperson: Tsutomu Kanazu

15:40 Simple evaluation methods of thermal cracking index and maximum temperature in concrete. Toshiaki Mizobuchi

17:00 Market potential of wood biomass ash utilisation in cement composities - Croatian case study. Nina Stimmer, Ivana Carević, Bojan Milovanović, Ana Barićević

17:20 Evaluation of the potential of corn and sunflower bark particles as bio-aggregates for lightweight concrete. Alexandra Bourdot, Camille Magnoind, Meryl Lagoun, Guillaume Lambare, Laurent Laborne, Philippe Evon

### Room Rio de Janeiro

14:20 S21 - Advances in bio-based materials Chairperson: Sofiane Amziane

15:40 Influence of filler effect and pozzolanic reaction of biomass ashes on mechanical properties of cement mortars. Vlastimir Radonjanin, Mijana Malešev, Slobodan Šupić, Miroslava Radeka

17:00 Self-healing of cement slurry for oil wells containing crystalline admixture: early results. Alme de Souza Oliveira, Romildo Dias Toledo Filho, Eduardo de Moraes Rego Fairbairn, Otávio da Fonseca Martins Gomes

16:00 Outlines of execution, quality control and inspection for mass concrete. Tsutomu Kanazu

### Room Lisboa

14:20 S22 - Self-healing concrete Chairperson: Ole Mejlhede Jensen

15:40 Market potential of wood biomass ash utilisation in cement composities - Croatian case study. Nina Stimmer, Ivana Carević, Bojan Milovanović, Ana Barićević

17:00 Evaluation of the potential of corn and sunflower bark particles as bio-aggregates for lightweight concrete. Alexandra Bourdot, Camille Magnoind, Meryl Lagoun, Guillaume Lambare, Laurent Laborne, Philippe Evon

### Room Funchal

14:20 S23 - Advances in bio-based materials Chairperson: Sofiane Amziane

15:40 Influence of filler effect and pozzolanic reaction of biomass ashes on mechanical properties of cement mortars. Vlastimir Radonjanin, Mijana Malešev, Slobodan Šupić, Miroslava Radeka

17:00 Evaluation of the potential of corn and sunflower bark particles as bio-aggregates for lightweight concrete. Alexandra Bourdot, Camille Magnoind, Meryl Lagoun, Guillaume Lambare, Laurent Laborne, Philippe Evon

18:00 City Tour

19:00 Conference Dinner
DAY 3 - Friday, October 26, 2018 | Morning

Room Funchal Chairperson: Stéphanie Staquet

08:15 S23 - Keynote Speaker 7
Demonstration projects with self-healing capsule-based and bacteria-based concrete: Nate De Belie

08:40 S24 - Poster presentations in 120 seconds

09:40 Durability of calcium sulfoaluminate-Portland cement blends.
Ghulam-razan Ullah, Muhammad Khalifa, Sultan Shoaib

10:00 Solidification/stabilization of port sediments contaminated by heavy metals and TBT using slag-based binders.
Tanya Gutelina, Alexandra Bevitor, Peter Seymour, Laurent Frisoni, Mehrand Chasoua

10:20 Thermomechanical modeling for the establishment of a new building method for basements of conventional housings.
Dirk Scholze, Thomas Hochgaestere, Martin Zaben, Alexander Glebe, Alexander Reinisch

10:40 COFFEE BREAK

11:00 Creep properties of polymer particles in polymer-modified cement pastes, quantified by means of multiscale modeling.
Luise Göbel, Markus Körnigbehr, Andrea Dulsig, Bernhard Pickler

11:20 A new creep test method for reinforced concrete tension members under constant loading.
Eugenijus Gudonis, Pui-Lam Ng, Gultekin Ozan Ucal, Mehmet Kemal Ardoga, Melike Sucu, Tughan Delibas, Ismail Ergin Yaman

11:40 Particle model for the prediction of long-term deformability properties of dam concrete.
Carlos Serra, Nuno Monteiro Azevedo, Antonio Lopes Batista

12:00 Assessing the CO2-binding of concrete during its service life.
Andrew Learman, Fritz Hunkeler, Heiner Widmer

12:20 Comparison between the experimental measurement results and the micromechanical modelling on the ageing basic creep of VECoRs concrete.
Shen Huang, Julien Sanahua, Luc Dormale, Benoit Rant, Eric Lemarchand, Laurent Charpin, Romain Thion

12:40 Eutonic two-phase computational fluid dynamics model of a concrete screw mixer.
Nicola Benvenuto, Cristian Ferrari

13:00 LUNCH
### DAY 3 - Friday, October 26, 2018 | Afternoon

**Room Funchal** | Chairperson: Paulo Silva Lobo

**Room Lisboa**

**Room Rio de Janeiro**

**Room Paris**

<table>
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<th>Abstract</th>
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<td>14:20</td>
<td>S34 - Advances in alkali-activated materials Chairperson: Szymon Dawczyński</td>
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<tr>
<td>15:00</td>
<td>Room Funchal</td>
<td>Flexural behavior and strengthening of Geopolymer concrete beams reinforced with CFRP bars using CRPP sheets. Abdellah Elibane, M Tahs Jumadi, Salim Allouba</td>
<td>Interaction on high strength mortars using high alkali cement and fine pozzolanic powder. Hoang Ky Khuong, Eiji Maniya, Kenji Kawai, Ryoshi Sato.</td>
</tr>
<tr>
<td>15:40</td>
<td>Room Rio de Janeiro</td>
<td>Influence of micro-cracking on capillary water absorption of an UHPFRC. Ana Maria Maro, Sandra Nunes, José L. Barrosa Aguilar</td>
<td>Early-age mechanical properties and shrinkage of blended cement concrete containing slag. Tahsin Aperu Kizou, Egemen Kesler, Yenmar Alkara.</td>
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<tr>
<td>16:00</td>
<td>Coffee Break</td>
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1st Floor - Room Paris

4th Floor - Room Rio de Janeiro
Punctuality and Synchronization
The program of the conference is very tight. Efficient functioning of the program depends on the punctuality of delegates and speakers. Please cooperate.

As it happens in all conferences, there may be a need for issuing warnings to conference delegates (e.g. next session starts 10m late). We will keep a constantly updated newsfeed in: www.synercrete.com/lastinfo

Registration and Documentation
The registration desk is open on 23rd October 2018 from 18h to 20h for collection of conference badges and bags (including proceedings).

On the conference days, the registration desk is open form 8h to 18h.

The COST TU1404 attendance list will be kept in the Registration Desk. Delegates eligible for COST TU1404 reimbursement may sign/submit their “Travel Reimbursement Request” to Ms Sónia Esteves (secretary of the Grant Holder), who will be available at the registration desk.

Wi-fi and Parallel Meetings or Work
Wi-fi access is free throughout the entire conference venue. The wi-fi SSID is “Pestana Guest”. No password is required.

If you wish to have a meeting or work for some moments, there are several lounging locations at the Lobby floor that can be used. Electricity plugs are available in many of the lounging areas.

Lunches
Lunch is served in the Panoramic Restaurant, with buffet service (both food and drinks) and seated eating. Access to the lunch is given to all conference delegates, provided that the conference badge is brought. If you do not bring your conference badge, you may be requested for proof of registration.

Group Photo
We are taking a group photo at 15h50 of 24th October 2018 (during coffee break). The photo will be taken at the coffee break location, as shown in the map of the previous pages. Be sure to show up!

Smoking
Smoking is not permitted within interior spaces. Outdoor smoking is allowed.

Poster Placement/Removal
Posters are located in the spot marked in the maps of the venue (at the coffee break location). Conference staff members will assist poster placement between 8h00m and 8h15m (morning) on all days of the conference, by providing plastic tape, scissors and other such items. If you don’t claim your poster back at the end of the day, we shall dispose/recycle it on the following day.

Submission of Presentation
Each conference room will be equipped with a notebook (Windows-based) and a video projector. You are asked to upload your presentation on the notebook as soon as possible in the room where your session will take place, but at the very latest during the break before the session. For presentations in room “Paris”, uploads on Wednesday/Thursday may be done in the computer available in room “Rio de Janeiro”. Acceptable formats: PPTX (PowerPoint 2007/2010/2013/2016) or PDF.

Badge Types
Conference badges are customized, so as to allow clear identification of people that play particular roles in the conference.

The following types of special badges exist: Organizer, Staff, Secretariat, Keynote speaker, Sponsor.

Contacts
The organization is willing to assist you at all times. Feel free to contact us in case of need.

- For conference secretariat matters, contact Ms Carla Gonçalves: +351 965 101 411
- For COST TU1404 secretariat, contact Ms Sónia Esteves: +351 968 965 774
- For any further matters, contact Miguel Azenha: +351 938 404 554

The contacts for the default staff members for support in the conference rooms (e.g. uploading presentation in the conference break) are shown below. Contact them, in case you need any special submission arrangement, or have trouble in finding them:

- Room Funchal - José Guimarães Gomes: +351 914 638 315
- Room Lisboa - Mariana Jesus: +351 963 110 790
- Room Rio de Janeiro - Mara Lopes: +351 969 583 289
- Room Paris - Ana Mafalda Matos: +351 916 298 840

The general emergency number (e.g. medical, fire) in Portugal is: 112
WELCOME COCKTAIL

Access and Acknowledgment
All conference delegates and accompanying persons are invited to the conference cocktail, which will take place on Wednesday, 24th October 2018, from 19h to 21h. Be sure to bring your badge, that serves also as your ‘invitation’ for this concern. The conference organization gratefully acknowledges the support of the ‘Regional Government of Madeira’ in this welcome cocktail.

Location and Transportation
The welcome cocktail takes place at ‘Forte do Pico’, built in the early XVII century. It used to be a fortress for defending Madeira against invasions from pirates/corsairs. ‘Forte do Pico’ is relatively near the conference venue (1.3km walking distance). It is however a steep slope, and provisions have been taken to ensure transportation by bus.

Please be at the hotel entrance at 19h, and board the conference bus according to availability. Return transportation will also be provided at 21h.

Dress code: Smart casual.
CITY TOUR AND CONFERENCE DINNER

City Tour
All conference delegates and accompanying persons are invited to the city tour, which will take place on Thursday, 25th October 2018, from 19h to 20h15. Be sure to bring your badge, that serves as your ‘invitation’ for this purpose.

Please gather at the hotel entrance at 18h50m, so as to connect with one of our city guides, and receive your personal audio system* (ear piece), which will allow you to stroll around freely without having difficulties in hearing the guide.

The walking tour starts at approximately 19h and will bring you to several interesting features of the city of Funchal. The walking tour ends at the base of the downtown cable car station, at approximately 20h15m, where you should return your ear piece to your guide.

Those that are not joining the conference dinner will have plenty of choices for dining in the city centre of Funchal. Those that join the conference dinner should hop onto one of the buses.

* Note that your audio system serial number will be registered to your name. Be sure to responsibly return it at the end of the city tour.

Conference Dinner
The conference dinner access is limited to conference delegates holding the "SynerCrete pin" (given together with the conference material at the registration desk). Make sure that you do not forget the pin, as it will represent your ‘dinner invitation’. Dress code is ‘Smart Casual’.

The dinner takes place at ‘Adega da Quinta’, located in “Camara de Lobos”, 15 min drive from Funchal. ‘Adega da Quinta’ is a refurbished old-style house, specializing in local food, with particular focus to ‘Espetada Madeirense’, which will be served at our dinner.

A taste of local folk music and dance will be given by the ‘Boa Nova’ Group.

At the end of the dinner (~23h), buses will bring conference delegates back to the conference venue.
POST-CONFERENCE TOUR

The Tour
The tour takes the entire day on 27th October 2018, starting at 8h30m and ending at 19h00m. It includes bus with air conditioning, and guide (English-speaking) through the entire span of the visit.

Program
08:30  Gathering at Pestana Casino Park Hotel
09:00  Technical tour to the Airport of Madeira
10:30  Departure for the island tour, with visit to Machico and Santana
12:45  Lunch break (lunch included, with three course menu, including wine and other beverages)
14:00  Return through Ribeiro Frio and Laurissilva Forest Hike on a ‘levada’ up to ‘Balcões’ (1h walk depending on weather and courage of participants). Visit to Pico do Areeiro (third tallest peak of the island -> 1810m)
19:00  Arrival back to Funchal