





Programme of 78th RILEM Week - Toulouse 2024

Venue: INSA Toulouse Wednesday 21 August (INSA Toulouse) 9:00-17:00 Thursday 22 August (INSA Toulouse) 9:00-17:00 Friday 23 August (INSA Toulouse) 9:00-17:00 Saturday 24 August (INSA Toulouse) **RILEM Imagine Workshop** 9:00-17:00 Sunday 25 August (INSA Toulouse) 9:00 - 10:30 10:30-11:00 Coffee break 11:00-12:30 TAC* DAC* TC meetings 12:30 - 13:30 Lunch Break 13:30 - 15:30 TAC* DAC** TC meetings 15:30 - 16:00 Coffee break 16:00-17:30 TAC* DAC** TC meetings Monday 26 August (INSA Toulouse) EAC*** 9:00 - 10:30 TC meetings 10:30-11:00 Coffee break **Board of Editors M&S** 11:00-12:30 TC meetings 12:30 - 13:30 Lunch Break **Board of Editors RTL** TC meetings 13:30 - 15:30

Conference registration - Pierre Baudis Conference

Centre, Welcome desk

Please contact assistant@rilem.org for any information about the meetings above, and about the RILEM Imagine Workshop

TC meetings: open to any RILEM TC members, and to any RILEM and non-RILEM members subject to agreement of the TC Chair and Deputy Chair Please contact assistant@rilem.org to get the TC Chair contact

Please contact assistant@rilem.org for any information about the meetings above



15:30 - 16:00

16:00-17:30













DEV****



Coffee break





TC meetings



^{*}TAC: Technical Activity Committee, for TAC members only

^{**}DAC: Development Advisory Committee, for DAC members only

^{***}EAC: Educational Activity Committee, for EAC members only

^{****}DEV: Development meeting, for TAC, DAC, EAC, and Bureau members, and Editors in Chief of RTL and M&S

| Monday 26 A | ay 26 August (Pierre Baudis Conference Centre) | | | | | | | |
|----------------------------|--|---|---|---|--|---|--|--|
| 15:00–18:00 | | | | | | | | |
| 18:30-22:00 | | | SMS Conference Welcome | e Reception - Toulouse Place | du Capitole, Café Le Florida | | | |
| 7:00-7:45 | 17 August (Pierre Baudis Conference Centre) Conference registration - Pierre Baudis Conference Centre, Welcome desk | | | | | | | |
| 7:45-8:15 | Bertran | SMS Conference & 78th RILEM Week official opening - Amphitheatre Saint-Exupery Bertrand Raquet (Director of INSA Toulouse), Nicolas Roussel (RILEM President), Alexandra Bertron (Conference Chair, 2024 RILEM Honorary president) | | | | | | |
| 8:15-10:15 | Opening Conferen | ce - Major research avenues | to address challenges of the | e 21st century - Karen Scrive | ner, Nicolas Roussel, Susan | Bernal, Jason Weiss - Chaim | an: Ravindra Gettu | |
| 10:15-11:00 11:00-11:30 | 2024 RILEM L'Hermite | Medallist Lecture: Advance | <u> </u> | materials for more sustainal Coffee / Poster Session - Ariane 1 & | | Norambuena-Contreras - Ch | naiman: Enrico Sassoni | |
| 11:00-11:30 | Amphitheatre Saint-Exupery | Guillaumet 1 (100) | Guillaumet 2 (100) | Spot (90) | Argos (60) | Diamant (50) | Latécoère | |
| 11:30–13:00 | Cementitious materials: development and characterisation of binders | Cemetitious materials: Early age, rheology and processing | Cementitious materials and structures: durability and long-term performances | Bituminous materials: Properties, sustainability and resilience | Bio-based materials | Data-driven concrete science | RILEM Bureau | |
| 13:00-14:00 | | | Cementitious materials | Lunch / Poster Session | | | | |
| 14:00–16:00 | Cementitious materials: development and characterisation of binders | Cemetitious materials: Early age, rheology and processing | and structures: durability and long-term performances | Bituminous materials: Properties, sustainability and resilience | Bio-based materials | Data-driven concrete science | RILEM Bureau | |
| 16:00-16:30 | | | Cementitious materials | Coffee / Poster Session | | | | |
| 16:30-18:00 | Cementitious materials: development and characterisation of binders | Cemetitious materials: Early age, rheology and processing | and structures: durability and long-term performances | Bituminous materials: Properties, sustainability and resilience | Bio-based materials | Wood in structures | RILEM Bureau | |
| 19:30-23:00 | | | | | | | Plaza Hotel (Capitole) RILEM Banquet/dinner | |
| | 28 August (Pierre Baudis Cor | oference Centre) | | | | | (RILEM Officers) | |
| Í | , | <u>, </u> | | | | | | |
| 9:00-10:30 | Plenary Session 2: | TC presentations, 281-CCC N | Nele De Belie, 282-CCL Ferna | indo Martirena, 289-DCM Ke | fei Li , 293-CCH Javier Sanch | ez & Alvaro Ridruejo - Chain | nan: Enrico Sassoni | |
| 10:30-11:00 | | | | Coffee / Poster Session - Ariane 1 & | 2 | | | |
| 11:00–13:00 | Cementitious materials: development and characterisation of binders | Low-CO2, low-energy, low- resources processes, recycling | Cementitious materials and structures: durability and long-term performances | Historic materials and buildings and cultural heritage | Corrosion, Maintenance and Repair of Concrete Materials and Structures | Characterisation and modelling on small scales | Materials for energy storage (Sensible-Heat, Latent-Heat, and Thermochemical) | |
| 13:00–14:00 | | | | Lunch / Poster Session - Ariane 1 & | 2 | | Matariala farramana | |
| 14:00–16:00 | Cementitious materials: development and characterisation of binders | Low-CO2, low-energy, low- resources processes, recycling | Cementitious materials and structures: durability and long-term performances | Historic materials and buildings and cultural heritage | Corrosion, Maintenance and Repair of Reinforced Concrete Structures | Characterisation and modelling on small scales | Materials for energy storage Energy-efficient building: comfort, IAQ | |
| 16:00-16:30 | | | | Coffee / Poster Session - Ariane 1 & | 2 | | | |
| 16:30-17:30 | RILEM General Council | Low-CO2, low-energy, low- resources processes, recycling | Cementitious materials and structures: durability and long-term performances | Historic materials and buildings and cultural heritage | Corrosion, Maintenance and Repair of Reinforced Concrete Structures | | | |
| 17:30–18:30 | RILEM General Council | Low-CO2, low-energy, low- resources processes, recycling | Cementitious materials and structures: durability and long-term performances | Historic materials and buildings and cultural heritage | Corrosion, Maintenance and Repair of Reinforced Concrete Structures | | | |
| 19:00–23:30 | | | Conference Din | ner (Espaces Vanel, Mediath | rèque Marengo) | | | |
| | August (Pierre Baudis Confe | rence Centre) | | | . 0, | | | |
| 8:30-9:30 | | Plenary Session | 3: TC presentations, 283-CA | M Shishir Mundra, 291-AMC | Wolfram Schmidt - Chaima | n: Enrico Sassoni | | |
| 9:30-10:00 | | Presentation of JCS | | cural Safety - Jochen Köhler, Coffee / Poster Session - Ariane 1 & | · | man: Enrico Sassoni | | |
| 10:00-10:30 10:30-13:00 | Monitoring and NDT | Low-CO2, low-energy, low- resources processes, recycling | Cementitious materials and structures: durability and long-term performances | Innovation Day | Earth materials | Corrosion of engineering materials – Session for young scientists | | |
| 13:00-14:00 | | | 1 1 1 1 1 1 1 1 | unch / Poster Session - Ariane 1 & | 2 | | | |
| 14:00–16:00 | Monitoring and NDT | Circular economy, Life Cycle Analysis, Regional Practices | Cementitious materials and structures: durability and long-term performances | Innovation Day | Earth materials | Corrosion of engineering materials – Session for young scientists | | |
| 16:00–16:30 | | | C | Coffee / Poster Session - Ariane 1 & | 2 | | | |
| 16:30–17:30 | Young Research Meeting and Award Ceremony | | | | | | | |
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Opening Session

Tuesday 27 August, Amphitheatre Saint-Exupery

| Time slot | start | end | Title | Authors | | | | |
|---------------|-------|---|---|--|--|--|--|--|
| | | | SMS CONFERENCE & 78TH RILEM WEEK OFFICIAL OP | ENING | | | | |
| 7.45.0.45 | 7:45 | 7:55 | WELCOME TALK INSA TOULOUSE | Bertrand Raquet, Director of INSA Toulouse | | | | |
| 7:45-8:15 | 7:55 | 8:05 | WELCOME TALK RILEM ASSOCIATION | Nicolas Roussel, President of RILEM | | | | |
| | 8:05 | 8:15 | WELCOME TALK 78th RILEM WEEK AND SMS Conference | Alexandra Bertron, Conference Chair, 2024 RILEM Honorary president | | | | |
| | | | Session Chair: Ravindra Gettu | | | | | |
| | ОР | OPENING CONFERENCE: MAJOR AVENUES OF RESEARCH TO MEET THE CHALLENGES OF THE 21ST CENTURY IN THE FIELD OF CEMENTITIOUS MATERIALS | | | | | | |
| | 8:15 | 8:35 | MOST IMPORTANT RESEARCH NEEDS IN THE CONSTRUCTION SECTOR TO REDUCE THE IMPACT OF CONSTRUCTION ON GLOBAL WARMING | Karen Scrivener | | | | |
| 8:15-10:15 | 8:35 | 8:55 | SUSTAINABILITY ASSESSMENT OF CONCRETE PRINTING TECHNOLOGIES | Nicolas Roussel | | | | |
| | 8:55 | 9:15 | ALKALI-ACTIVATED MATERIALS: PROGRESS IN STANDARDISATION, COMMERCIALISATION AND INDUSTRIAL APPLICATION | Susan Bernal | | | | |
| | 9:15 | 9:35 | VALUE-ADDED MATERIALS AND PERFORMANCE SPECIFICATIONS | Jason Weiss, Burkan Isgor | | | | |
| | 9:35 | 10:15 | DISCUSSION | All speakers, Moderator: Ravindra Gettu | | | | |
| | | | Session Chair: Enrico Sassoni | | | | | |
| 10:15-11:00 | 10:15 | 11:00 | 2024 RILEM L'HERMITE MEDALLIST LECTURE: ADVANCES IN SELF-HEALING BITUMINOUS MATERIALS FOR MORE SUSTAINABLE AND RESILIENT ROADS | Jose Norambuena-Contreras | | | | |
| 11:00 - 11:30 | | | Coffee break / poster session | | | | | |























Cementitious materials: development and characterisation of cementitious binders

Topic Chairs: Prof. Gabriel Samson, Prof. Daman Panesar

Tuesday 27 August

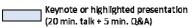
| Time slot | start | end | | | | | | | |
|---------------|---------------------------|-------|--|--|--|--|--|--|--|
| | | ciid | Title Section Chair: Heli Anget | Authors | | | | | |
| | Session Chair: Ueli Angst | | | | | | | | |
| | 11:30 | 11:55 | 'COLD-FUSION' – A NEW APPROACH TO STUDY C-S-H | Guoqing Geng, Guoqing Geng, Zhe Zhang, Lianyao Xiong | | | | | |
| | 11:55 | 12:10 | ANALYSIS OF MICROSTRUCTURE AND PROPERTIES OF CARBON BLACK BASED COMPOSITE CEMENT AND CONCRETE | Kazi Islam, Wei Sha, Meng Gao | | | | | |
| 11:30 – 13:00 | 12:10 | 12:25 | CHARACTERIZATION OF CALCIUM CARBONATE CRYSTAL FORMATION IN CALCIUM CARBONATE CONCRETE | Ngoc Kien Bui, Takafumi Noguchi, Ippie Maruyama | | | | | |
| | 12:25 | 12:40 | ENHANCED HYDRATION OF STEEL SLAG WITH ADDITION OF SODIUM SULFATE AND THERMAL TREATMENT | Jiseul Park, Seohyun Kim, Ahyeon Lim, Juhyuk Moon | | | | | |
| | 12:40 | 12:55 | EFFECTS OF CHEMICAL ACTIVATION ON PROPERTIES AND HYDRATION MECHANISM OF HIGH VOLUME FLY ASH BINDERS | Zvezdana Bascarevic, Jelena Rakic | | | | | |
| 13:00-14:00 | | | Lunch break / poster session | | | | | | |
| | | | Session Chair: Gabriel Samson | | | | | | |
| | 14:00 | 14:15 | HYDRATION PROCESS OF ALKALI-ACTIVATED SLAG AND WIND TURBINE BLADE WASTE COMPOSITES | Tao Liu, Ana T. Lima | | | | | |
| | 14:15 | 14:30 | MICROSTRUCTURAL AND CHEMICAL CHARACTERIZATION DURING THE RECYCLING PROGRESS OF SULFUR CONCRETE | Qinjian Wang, Didier Snoeck | | | | | |
| | 14:30 | 14:45 | ON THE STABILITY OF HYDRATED MAGNESIUM CARBONATES | Nirrupama Kamala Ilango, Hoang Nguyen, Mohammad Alzeer, Frank Winnefeld, Paivo Kinnunen | | | | | |
| 14:00–16:00 | 14:45 | 15:00 | C3ACID: CITRIC ACID'S INFLUENCE ON TRICALCIUM ALUMINATE HYDRATION AND AFM PHASES FORMATION. INSIGHT INTO CITRIC ACID IMPACT ON THE HYDRATION KINETIC OF ORDINARY PORTLAND CEMENT | Maria Carla Ciacchella, Maria Paola Bracciale, Assunta Marrocchi, Robert J. Flatt, Maria Laura Santarelli | | | | | |
| | 15:00 | 15:15 | ENHANCING MORTAR COMPRESSIVE STRENGTH THROUGH THE COMBINED USE OF RAW BAUXITE REFINERY RESIDUE AND SUPPLEMENTARY CEMENTITIOUS MATERIALS (SCMS) | Pukar Siwakoti, Jaya Nepal, Salim Barbhuiya, Bamdad Ayati | | | | | |
| | 15:15 | 15:30 | FIRED CLAY BRICK WASTE POWDER AS SILICOALUMINATE PRECURSOR FOR THE SUPERSULFATED CEMENT MANUFACTURING | Miguel Angel Martin Antunes, Andres Seco, Céline Perlot- Bascoulès, Jesus Maria Del Castillo, Sandra Espuelas, | | | | | |
| | 15:30 | 15:45 | PERFORMANCE OF LIMESTONE CALCINED CLAY CEMENT (LC3) WITH ACTIVATED MARINE SEDIMENT | Zhijian Chen, Hailong Ye | | | | | |
| | 15:45 | 16:00 | CORRELATION OF HYDRATION AND STRENGTH TO MICROSTRUCTURE OF BINDERS BLENDED WITH VOLCANIC MATERIALS | Amrita Hazarika, Liming Huang, Ingemar Löfgren, Luping Tang, Arezou Baba Ahmadi | | | | | |
| 16:00-16:30 | | | Coffee break / Poster session | 1 1 0 1 0, 1 11 11 11 | | | | | |
| | | | Session Chair: Mateusz Wyrzykowski | | | | | | |
| | 16:30 | 16:45 | OPTIMISATION OF LC3 BINDER PROPERTIES THROUGH VARIED CARBONATES | Xiangming Zhou, Shuang Liang, Mingqing Liu, Zhonghao Niu, Pengkun Hou | | | | | |
| | 16:45 | 17:00 | PARTICLE SIZE EFFECTS ON EVOLUTIONS OF THE RHEOLOGY, HYDRATION, AND HARDENING PROPERTIES OF LIMESTONE CALCINED CLAY CEMENT | Pengkun Hou, Xiangming Zhou, Johann Plank | | | | | |
| 16:30-18:00 | 17:00 | 17:15 | PERFORMANCE OF MASONRY MORTARS WITH LADLE FURNACE SLAG AS SUPPLEMENTARY CEMENTITIOUS MATERIAL | Everton Souza, Tayná Silva, Eduardo Mariano, Gisleiva Ferreira, Carlos Gomes | | | | | |
| | 17:15 | 17:30 | QUATERNARY BLENDS CONTAINING LOW-GRADE CALCINED CLAYS | Juan Manuel Etcheverry, Laurent Detemmerman, Vadim Grigorjev, Laurena De Brabandere, Degezelle Krist, Nele De | | | | | |
| | 17:30 | 17:45 | A MULTI-STAGE EVALUATION PROCESS OF AUSTRIAN MINERAL WASTE STREAMS AS RAW MATERIALS IN ALKALI-ACTIVATED MATERIAL DEVELOPMENT | Stefanie Radinger, Amr Hassan, Ognjen Rudić, Bettina Ratz, Iris Zögl, Sara Raič, Steindl Florian, Florian Mittermayr, | | | | | |
| | 17:45 | 18:00 | HIGH SALINITY WATER CAN REPLACE ALKALI ACTIVATOR | Sima Kamali, Minna Patanen, Juho Yliniemi, Katja Kilpimaa, Tero Luukkonen | | | | | |

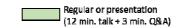
Wednesday 28 August

| Time slot | start | end | Title | Authors |
|---------------|-------|-------|--|---|
| | | | Session Chair: Nele De Belie | |
| | 11:00 | 11:25 | ALKALI-ACTIVATED MATERIALS – SOME PERSISTENT OBSTACLES FOR PRACTICAL BREAKTHROUGH | Geert De Schutter |
| | 11:25 | 11:40 | IMPACT OF GLASS POWDER TYPE ON THE PERFORMANCE OF ALKALI-ACTIVATED SLAG | Yujin Lee, Ilhwan You, Doo-Yeol Yoo, Seung-Jung Lee, Goangseup Zi |
| | 11:40 | 11:55 | ICEMENTLESS BINDER BASED ON LIME-ACTIVATED WASTE CONCRETE POWDER | Aidarus Yonis, Yanchen Oinam, Prabhat Vashistha, Sukhoon Pyo |
| 11:00 - 13:00 | 11:55 | 12:10 | DEVELOPMENT AND INVESTIGATION OF MECHANICAL PROPERTIES OF GEOPOLYMER MORTAR | Ioanna Skyrianou, Lampros N. Koutas, Christos G. Papakonstantinou |
| | 12:10 | 12:25 | DIELECTRIC PROPERTIES OF FLY ASH GEOPOLYMERS | Claudiane Ouellet-Plamondon, Eric David, Patrick Brisebois |
| | 12:25 | 12:40 | EFFECT OF GAMMA RADATION ON THE STRENGTH DEVELOPMENT OF METAKAOLIN-BASED GEOPOLYMER | Emile Mukiza, Quoc Tri Phung, Suresh Seetharam, Lander Frederickx, Eef Weetjens, Geert De Schutter |
| | 12:40 | 12:55 | EFFECTS OF LAGOON FLY ASH AND ACTIVATORS ON THE PROPERTIES OF GEOPOLYMER COMPOSITES BASED ON GROUND GRANULATED BLAST FURNACE SLAG | Yi Chen, Meng Gao, Wei Sha |
| 13:00 - 14:00 | | | Lunch break / poster session | |
| | | | Session Chair: Eddie Koenders | |
| | 14:00 | 14:15 | THERMODYNAMIC MODELING OF METAKAOLIN-BASED GEOPOLYMERS UNDER ACID ATTACK | Neven Ukrainczyk, Eddie Koenders |
| | 14:15 | 14:30 | IEXPERIMENTAL STUDY AND MODELING OF N-A-S-H GEOPOLYMER PRODUCTS | Eashow Shamo, Angélique Rousselet, Alain Chartier, Thibault Charpentiers |
| | 14:30 | 14:45 | | Giulia Masi, Lucia Ferrari, Villiam Bortolotti, Elisa Franzoni, Maria Chiara Bignozzi |

| | 14:45 | 15:00 | PREDICTION OF COMPRESSIVE STRENGTH OF GEOPOLYMERS | Henning Kruppa, Anya Vollpracht | |
|-------------|-------------------------------|-------|--|--|--|
| | 15:00 | 15:15 | | Mengyuan Zhu, Chin Leo, Qinghua Zeng, Jeff Hsi, Reza Karimi, Antonin Fabbri, Samanthika Liyanapathirana, Pan Hu | |
| | 15:15 | 15:17 | INVESTIGATION OF THE EFFECT OF MESOPOROUS SILICA NANOPARTICLES ON EARLY- AGE CEMENT HYDRATION | Davoud Tavakoli, Özlem Cizer | |
| | 15:17 | 15:19 | REACTIVITY OF SEWAGE SLUDGE ASH AFTER REMOVAL OF PHOSPHOROUS FOR USE IN CEMENT BASED MATERIALS | Gunvor Kirkelund, Lisbeth M. Ottosen, Wolfgang Kunther | |
| _ | 15:19 | 15:21 | ENHANCING HYDRATION OF BOF SLAG PASTES THROUGH MONOPOTASSIUM PHOSPHATE ADDITION | Yanjie Tang, Katrin Schollbach, Sieger Van Der Laan, Jos Brouwers | |
| 14:00-16:00 | 15:21 | 15:23 | THE INFLUENCE OF DIFFERENT SULFATE SOURCES ON BELITE HYDRATION | Antonina Goncharov, Semion Zhutovsky | |
| | 15:23 | 15:25 | EFFECT OF CA(OH)2 AND KOH ON THE HYDRATION KINETICS OF ORDINARY PORTLAND AND SLAG-BASED CEMENTS | Jitendra Patel, Mirco Perinelli, Giulia Masi, Maria Elia Natali, Maria Chiara Bignozzi | |
| | 15:25 | 15:27 | | Andrea Bisciotti, Silvia Castellini, Alessandro Neri, Giuseppe Cruciani | |
| | 15:27 | 15:29 | THE IMPACT OF RED MUD-DERIVED LAYERED DOUBLE HYDROXIDE (RM-LDH) ON HYDRATION, MICROSTRUCTURE, AND PROPERTIES OF CEMENT PASTE | Molan Li, Hailong Ye | |
| | 15:29 | 15:31 | ALKALI-ACTIVATED MATERIALS BASED ON BLAST FURNACE SLAG AS A CONFINEMENT BARRIER FOR SOLID AND LIQUID RADIOACTIVE WASTE: FRESH STATE PROPERTIES | M. Jimena De Hita, María Criado, Javier Sanchez | |
| | 15:31 | 15:33 | SYNTHESIS AND CHARACTERIZATION OF ECO-FRIENDLY GEOPOLYMER FOR SUSTAINABLE BUILDING APPLICATIONS | Zineb Moujoud, Abdeslem Elbouari, Omar Tanane | |
| | 15:33 | 15:35 | ALKALI-ACTIVATION OF COPPER SLAG: EFFECT OF VARYING ACTIVATOR CONTENT AND SILICATE MODULUS ON PASTES AND MORTARS | Dhiraj Mahajan, Salman Muhammad | |
| | 15:35 | 15:37 | ALKALINE ACTIVATION OF PARTIALLY AMORPHOUS BLACK STEEL SLAGS FOR THE PRODUCTION OF BINDERS WITH HIGH-TEMPERATURE RESISTANCE | Lorena Freire, Miguel Otero, Lucía Unamunzaga, Carolina Ramos | |
| | 15:37 | 15:39 | | Sara Koubeissy, Franck Agostini, Nicolas Gay, Matthieu Briffaut | |
| 16:00-16:30 | Coffee break / Poster session | | | | |

Caption:





























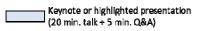
Cemetitious materials: Early age, rheology and processing

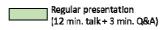
Topic Chair: Prof. Arnaud Perrot

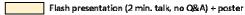
Tuesday 27 August

| Time slot | start | end | Title | Authors | | | | |
|---------------|---------------------------------|-------|---|--|--|--|--|--|
| | Session Chair: Alexandre Pierre | | | | | | | |
| | 11:30 | 11:55 | IMPACT OF CALCIUM CARBONATE POLYMORPHS DERIVED FROM CO2 MINERALIZATION SCHEMES ON CEMENT-BASED MATERIALS | Shiho Kawashima, Diandian Zhao, Jonah Williams, Ah-Hyung (Alissa) Park | | | | |
| | 11:55 | 12:10 | EFFECT OF GRAPHENE MATERIALS DISPERSION ON EARLY HYDRATION OF TERNARY BINDER | Suriyaprakash Saravanan, Liming Huang, Arezou Baba Ahmadi | | | | |
| 11:30 – 13:00 | 12:10 | 12:25 | EFFECT OF NANO-SILICA ON THE RHEOLOGICAL PROPERTIES AND ORGANIC ADDITIVE DOSAGE OF CEMENTITIOUS MATERIAL | Kaci Chalah, Abdebaki Benmounah | | | | |
| | 12:25 | 12:40 | THE EFFECT OF THE FUNCTIONAL GROUP'S POSITION ON THE PERFORMANCE, AND MECHANISM OF POLYCARBOXYLATE SUPERPLASTICIZER | Bin Li, Ling Wang, Zhendi Wang | | | | |
| | 12:40 | 12:55 | VARIABILITY OF SUPERPLASTICISER-CEMENT INTERACTIONS | Wolfram Schmidt, Angela Tetteh Tawiah, Alice Titus Bakera, Kolawole Adisa Olonade | | | | |
| 13:00 - 14:00 | | | Lunch break / Poster session | | | | | |
| | | | Session Chair: Reza Moini | | | | | |
| | 14:00 | 14:15 | EXPLORATION OF SLAG-BASED CONCRETES CONTAINING AN ETTRINGITIC ACCELERATOR | Corentin Foulon, Cedric Roosz, Hervé Fryda, Barbara Benevenuti, Sarra El Housseini, Martin Cyr | | | | |
| | 14:15 | 14:30 | RHEOLOGICAL EVALUATION OF ALKALI-ACTIVATED BINDERS BASED ON FLY ASH AND STEEL SLAG WITH VARIATION OF SILICA MODULUS | Madson Souza, Abcael Melo, Mauro Silva Filho, Vinícius Veras, Jonathan Muñoz, Lucas Araújo, Lucas Babadopulos | | | | |
| | 14:30 | 14:45 | NEW INSIGHTS FOR DETERMINATION OF LINEAR VISCOELASTIC REGION OF MAGNETO-RESPONSIVE CEMENT PASTES BASED ON STRAIN-SWEEP TEST | Yiyuan Zhang, Yaxin Tao, Xiaodi Dai, Karel Lesage, Geert De Schutter | | | | |
| 14:00–16:00 | 14:45 | 15:00 | SYNERGISTIC EFFECTS OF SUPERABSORBENT POLYMERS AND METAKAOLIN | Luiza Souza, Livia Agostinho | | | | |
| | 15:00 | 15:15 | MODELING SQUEEZE FLOW TEST OF 3D PRINTING MORTAR WITH FINITE ELEMENTS BASED ON EXPERIMENTAL RHEOLOGICAL DATA | Abcael Melo, Madson Souza, Lucas Babadopulos, Evandro Junior | | | | |
| | 15:15 | 15:30 | IMPROVEMENT OF COMPRESSIVE STRENGTH OF CONCRETE USING FLY ASH AT EARLY-AGE | Tien Dung Nguyen, Cong Thang Nguyen, Van Tuan Nguyen, V.N Luu | | | | |
| | 15:30 | 15:45 | NATURAL FIBERS TO CONTROL EARLY AGE CRACKING: EFFECT ON FREE PLASTIC SHRINKAGE, EVAPORATION RATE AND SETTING TIME | Vincent Sabathier, Mohamed Kabore | | | | |
| | 15:45 | 16:00 | STUDY OF WORKABILITY, STRENGTH AND MICROSTRUCTURE ISSUES OF RECYCLED CONCRETE | Viacheslav Troian, Volodymyr Gots, Asel Maria Aguilar Sanchez, Ueli Angst, Robert J. Flatt | | | | |
| 16:00-16:30 | | | Coffee break / Poster session | | | | | |
| | | | Session Chair: Shiho Kawashima | | | | | |
| | 16:30 | 16:55 | TOUGH AND DUCTILE NACRE-LIKE CEMENTITOUS COMPOSITE ARCHITECTED MATERIALS | Shashank Gupta, Shagerdi Hadi, Reza Moini | | | | |
| | 16:55 | 17:10 | 3D CONCRETE PRINTING PARAMETERS FOR ENHANCED SUSTAINABILITY: A COMPREHENSIVE ANALYSIS | Khristel Rodriguez, Maria De Los Angeles Ortega Del Rosario, Rafael Duque, Luis Castillero, Melany Medina | | | | |
| 16:30-18:00 | 17:10 | 17:25 | FLEXURAL STRENGTH OF 3D PRINTED CONCRETE LONGITUDINALLY REINFORCED BY HOLLOW NUT STUD BOLT REBAR | Xinze Li, Zhendi Wang | | | | |
| | 17:25 | 17:27 | STRUCTURAL BUILD-UP AND EARLY HYDRATION OF ECO-FRIENDLY BINDERS IN THE PRESENCE OF RHEOLOGY MODIFYING ADMIXTURES | Alexander Mezhov, Claudia Crasselt, Pia Fuhrmann, Mareike Thiedeitz, Thomas Kränkel, Wolfram Schmidt | | | | |
| | 17:27 | 17:29 | EFFECT OF PUMPING DISTANCE AND WATER-BINDER RATIO ON THE PUMPABILITY OF 3D PRINTING CONCRETE | Hojae Lee, Eun-A Seo | | | | |































Cementitious materials and structures: durability and long-term performances

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

Tuesday 27 August

| Time slot | start | end | Title | Authors |
|---------------|-------|-------|--|---|
| | otu.t | 0 | Session Chair: Hans Beushausen | , tatiois |
| | 11:30 | 11:55 | STRESS EFFECT ON DEGRADATION DUE TO EXPANSION IN CONCRETE | Stéphane Multon |
| | 11:55 | 12:10 | : EVALUATION OF DEF RISK | Saillio Mickael, Oumayma Ahmadah, Arthur Resnier, Loic Divet, Jean-Michel Torrenti |
| 11:30 - 13:00 | 12:10 | 12:25 | THERMODYNAMIC MODELING OF ASR PRODUCTS AND ESTIMATES OF CRYSTALLIZATION PRESSURE | Syrine Razki, Tulio Honorio, Alexandra Bourdot, Farid Benboudjema |
| | 12:25 | 12:40 | MACROSCOPIC MODEL FOR CONCRETE AFFECTED BY INTERNAL SWELLING REACTIONS CONSIDERING STRESS INFLUENCE AND DAMAGE | Ha-Thanh Phan, Boumediene Nedjar, Jean-François Seignol |
| | 12:40 | 12:55 | EVOLUTION OF THE RADIAL GAS PERMEABILITY OF CONCRETE UNDER COMPRESSIVE CREEP LOADING | Robin Cartier, Hugo Cagnon, Jérôme Verdier, Thierry Vidal |
| 13:00-14:00 | | | Lunch break / Poster session | |
| | 14:00 | 14:15 | Session Chair: Gregor Gluth DAMAGE EVOLUTION IN CONCRETE UNDER FREEZE-THAW CYCLES COUPLED WITH FATIGUE LOADING | Xu Yanqun, Qiang Yuan, Geert De Schutter |
| | 14:15 | 14:30 | COMPARISON OF PROTECTED PASTE VOLUMES ESTIMATED BY THE DIRICHLET TESSELLATION TILE DIAGRAM AND CONVENTIONAL STEREOLOGY MODELS | Shin-Ichi Igarashi, Hayao Tanabe, Kazuya Ohyama |
| | 14:30 | 14:45 | CORRELATION BETWEEN POROSITY AND RESISTANCE TO FREEZE-THAW CYCLES OF NATURAL HYDRAULIC LIME PLASTERS | Maria Cecilia Carangi, Cristina Tedeschi |
| 14:00-16:00 | 14:45 | 15:00 | VALIDATION OF A NON-DESTRUCTIVE INSTANTANEOUS METHOD FOR ASSESSING CARBONATION OF COATED CONCRETE | Ouijdane Qacami, Bruno Huet, Philippe Turcry, Abdelkarim Aït- Mokhtar, Ravi Ajitbhai Patel, Frank Dehn |
| | 15:00 | 15:15 | CAPILLARY IMBIBITION OF NATURALLY CARBONATED SAMPLES EVALUATED VIA NEUTRON RADIOGRAPHY | Natalia Alderete, Juan Manuel Etcheverry, Vanessa Cappellesso, Yasmina Shields, Claire Riordan, Nele De Belie |
| | 15:15 | 15:30 | CHANGES IN MICROSTRUCTURE AND MECHANICAL PROPERTIES OF CEM I AND CEM III CEMENTITIOUS MATERIALS INDUCED BY ACCELERATED CARBONATION | Quoc Tri Phung, Thi Nhan Nguyen, Lander Frederickx |
| | 15:30 | 15:45 | MODELLING THE CARBONATION OF A HIGH-PERFORMANCE CONCRETE UNDER SPECIFIC ENVIRONMENTAL CONDITIONS | Maxime Ressier, Francois Soleilhet, Nicolas Seigneur, Philippe Turcry, Abdelkarim Aït-Mokhtar |
| 16:00-16:30 | | | Coffee break / Poster session | |
| | 16:30 | 16:45 | Session Chair: Geert De Shutter CARBONATION IN CEMENTITIOUS MATERIALS: CRACKS IN MESOPORES | Sahar Iftikhar, Arezou Babaahmadi, Jelke Dijkstra, Tang Luping, Ingemar Löfgren |
| | 16:45 | 17:00 | EFFECT OF BLAST FURNACE SLAG FINE AGGREGATE UNDER DIFFERENT STORAGE ENVIRONMENTAL CONDITIONS ON CONCRETE | Yusuke Koshiishi, Akio Tanaka, Chizuru Kiyohara |
| | 17:00 | 17:15 | SHRINKAGE CRACK RESISTANCE MECHANISM OF CONCRETE WITH HIGH BLAST- FURNACE SLAG CONTENT | Mayuko Hirata, Haruki Momose, Tetsushi Kanda, Daijiro Tsuji, Masaro Kojima, Kei-Ichi Imamoto, Chizuru Kiyohara |
| | 17:15 | 17:30 | STRENGTH OPTIMIZATION AND DURABILITY OF LIGHTWEIGHT HYBRID BINDER MORTARS BASED ON VOLCANIC PUMICE. | Jesús López Salas, José Iván Escalante-García |
| 16:30-18:00 | 17:30 | 17:45 | MULTINUCLEAR MAS-NMR INVESTIGATION OF MAGNESIUM POTASSIUM PHOSPHATE CEMENTS FOR TRITIUM SEQUESTRATION | Arthur Listwan, Thibault Charpentier, Céline Cau Dit Coumes, Mickaël Payet, Elodie Bernard |
| | 17:45 | 17:47 | FREEZE-THAW, CARBONATION AND SULFATE ATTACK RESISTANCE OF HIGH VOLUME FLY ASH BINDERS | Zvezdana Bascarevic, Jelena Rakic |
| | 17:47 | 17:49 | CARBONATION DURING CYCLIC WET-DRY CONDITIONS IN THE PRESENCE OF CHLORIDES | ' |
| | 17:49 | 17:51 | CARBONATION BEHAVIOUR OF CONCRETE CONSIDERING THE CONSTITUENTS OF COARSE AGGREGATE | Tien-Dung Nguyen, Emilio Bastidas-Arteaga, Rachid Cherif, Pierre-Yves Mahieux |
| | 17:51 | 17:53 | CARBONATION RESISTANCE OF GGFBS/CALCINED CALY-BASED ALKALI-ACTIVATED CONCRETES | Luis Tambara, Frank Dehn, Gregor Gluth |

Wednesday 28t August

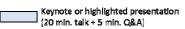
| Time slot | start | end | Title | Authors | | | | |
|---------------|------------------------------|-------|---|--|--|--|--|--|
| | Session Chair: Cyrill Grengg | | | | | | | |
| | 11:00 | 11:15 | PERFORMANCE APPROACH APPLIED TO CONCRETES FOR CONTROLLED MODULUS | Gilles Escadeillas, Nathalie Kouta, Vanessa Mazars, Jean | | | | |
| | 11.00 | 11.13 | COLUMNS | Ostrovsky | | | | |
| | 11:15 | 11:30 | ANALYZING THE IMPACT OF CALCIUM CARBONATE PRECIPITATED BY BACTERIA ON | Seoeun Oh, Sang-Yeop Chung | | | | |
| | 11.13 | 11.50 | CEMENT MORTAR | second on, sang reop chang | | | | |
| | 11:30 | 11:45 | ANTIBACTERIAL PROPERTIES OF SORBATE-MODIFIED ALKALI-ACTIVATED SLAG | Xiaojuan Kang, Hailong Ye | | | | |
| | | | | | | | | |
| | 11:45 | 12:00 | THE INFLUENCE OF TREATED WOOD FIBERS IN THE BEHAVIOR OF BIO-REINFORCED | Petrini Kampragkou, Vasiliki Kamperidou, Maria Stefanidou | | | | |
| 11:00 - 13:00 | | | CEMENT MORTARS | , p. 6 . , | | | | |
| | 12:00 | | INVESTIGATION ON CHLORIDE CONTAMINATION THROUGH MICROBIAL INDUCED | Brigitte Nagy, Kai Tandon, Andrea Kustermann | | | | |
| | | | CALCIUM CARBONATE PRECIPITATION TREATMENT OF RECYCLED MIXED AGGREGATES | 0 10// 1 1 | | | | |
| | 12:15 | 12:30 | SUPER-SULPHATED CEMENT – DURABILITY OF ULTRA-LOW CARBON EMISSION | Fabrizio Moro, Sylvia Keβler, Kruspan Peter | | | | |
| | | | CONCRETES | | | | | |
| | 12:30 | 12:45 | COMPARISON OF THE MECHANICAL AND DURABLE BEHAVIOUR OF SUSTAINABLE | Miguel Angel De La Rubia, Alvaro Picazo, Cristina Argiz, | | | | |
| | | | MORTARS WITH REDUCED CEMENT CONTAIN WITH LIMESTONE, METAKAOLIN | Encarnacion Reyes, Jaime Galvez, Amparo Moragues, Elvis | | | | |
| | 12:45 | 13:00 | LEACHING ASSESSMENT AND MECHANISM OF MULTI-SOURCE CLAYS AND ASHES AS | Baodong Li, Samuel J. Armistead, Sebastian Rauch, Liming | | | | |
| | 12.43 | 13.00 | SUPPLEMENTARY CEMENTITIOUS MATERIALS | Huang and Arezou B. Ahmadi | | | | |
| 13:00-14:00 | | | Lunch break / Poster session | | | | | |
| | | | Session Chair: Claudiane Ouellet-Plamondon | | | | | |
| | 14:00 | 14:15 | EFFECT OF CALCINED MARINE CLAY ON THE STRENGTH, WATER AND CHLORIDE IONS | Baixing Song , Hongjian Du , Sze Dai Pang | | | | |
| | 14.00 | 14.13 | TRANSPORT PROPERTIES OF CONCRETE | Daixing 30ng , Hongjian Da , 32c Dai i ang | | | | |
| | 14:15 | 14:30 | EFFECT OF CARBONATION ON THE MECHANICAL PROPERTIES OF CONCRETE | Qier Wu, Thomas Rougelot, Hailing Shi, Jian-Fu Shao, Olivier | | | | |
| | 14.13 | 14.30 | LITECT OF CARBONATION ON THE MICCHANICAE PROPERTIES OF CONCRETE | Helson | | | | |
| | 14:30 | 14:45 | NON-DESTRUCTIVE METHOD FOR MONITORING THE EFFECT OF CARBONATION IN | Arezou Baba Ahmadi, Tang Luping, Liming Huang, Ingemar | | | | |
| | 14.30 | 14.43 | CEMENTITIOUS MATRIX THROUGH CONDUCTIVITY MEASUREMNET WITH MINI- | Löfgren | | | | |

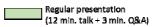
| 14:00 - 16:00 | 14:45 | 15:00 | RESILIENCE ASSESSMENT: MORTAR INCORPORATING CARBONATED FINE RECYCLED | Chao Qun Lye, Sze Dai Pang |
|---------------|-------|------------|--|---|
| | | 20.00 | CONCRETE AGGREGATES | chao dan 170, 510 Barrang |
| | 15:00 | 15:15 | EFFECT OF MIXED RECYCLED AGGREGATES ON QUATERNARY BLENDED HIGH | Merin Mathew, Dr. Girija K |
| | 13.00 | 13.13 | STRENGTH SELF-COMPACTING CONCRETE | Werlin Wathew, Dr. Olinja K |
| | 15:15 | 15:30 | EFFECT OF METAKAOLIN CONTENT ON MICROSTRUCTURE EVOLUTION OF CEMENT | Dui 7hana Chiin Iaaanh Öalam Ciaan |
| | 15:15 | 15:30 | PASTE INDUCED BY CARBONATION USING PROTON NMR RELAXOMETRY | Rui Zhang, Shiju Joseph, Özlem Cizer |
| | 15.20 | 15.45 | CLAY POZZOLANA CONCRETE FOR SUSTAINABLE CONSTRUCTION- FROM LABORATORY | Mark Bediako, N Asante, Timothy Ametefe, Solomon |
| | 15:30 | 15:45 | TO FIELD PRACTICE | Adumatta |
| 16:00-16:30 | | | Coffee break / Poster session | |
| | | | Session Chair: Stefanie V. Greve-Dierfeld | |
| | 46.00 | 16:45 | COMPRESSIVE PERFORMANCE OF CEMENTITIOUS MATERIAL-FILLED AUXETIC PANEL | Mohammad Hajsadeghi, Emmanuel Owoichoechi Momoh, |
| | 16:30 | | COMPOSITE STRUCTURES | Amila Jayasinghe, Raffaele Vinai, Prakash Kripakaran, Ken E |
| | 16:45 | 17:00 | PRINCIPLE AND MECHANICAL PROPERTIES OF PRESTRESSED CONCRETE WITHOUT | A C : 1: 71 1: 1: 1: |
| | | | REINFORCEMENT | Aofei Liang, Zhendi Wang |
| | 17:00 | 17:15 | SCALING LAWS IN PROGRESSIVE COLLAPSE STUDIES | Nada Elkady, Levingshan Augusthus-Nelson, Laurence Weekes |
| | | | SCALING LAWS IN FROGRESSIVE COLLARSE STODIES | Nada Likady, Levingshall Adgustilus-Neisoll, Ladielice Weekes |
| | 17:15 | 17:30 | STUDY OF PROPERTIES IN THE FRESH AND HARDENED STATE OF CONCRETE MIXED | Marcos David Dos Santos, Filipe Brito Marinho De Barros, |
| 16:30-18:00 | 17.15 | | WITH RECYCLED AGGREGATES | Arnaldo Manoel Pereira Carneiro |
| | 47.20 | 7:30 17:45 | ASSESSMENT OF FRESH, STRENGTH AND SHRINKAGE PROPERTIES OF CONCRETE USING | Carid Chambari Janear Creat has Communicate |
| | 17:30 | | VARIOUS SHRINKAGE REDUCING AGENT SOURCES | Saeid Ghorbani, Jeroen Smet, Ives Swennen |
| | 47.45 | 17:47 | ASSESSMENT OF THE IMPACT OF PRE-HYDRATED CEMENT ON THE LONG-TERM | Total Aleksoni Colin Devis Adendelini Theodoriday |
| | 17:45 | 17:47 | PERFORMANCE OF CONCRETE | Traad Alzhrani, Colin Davie, Magdalini Theodoridou |
| | 17.47 | 17:49 | ENHANCING THE DURABILITY OF NATURAL FIBER-REINFORCED CEMENTITIOUS | Gulsen Nazerian, Guillermo Meza Hernandez, Jun Gu, Hubert |
| | 17:47 | 17:49 | COMPOSITES BY CHEMICAL TREATMENT | Rahier |
| | 17.40 | 47.54 | REDUCTION OF POLLUTING GASES THROUGH THE USE OF ECO-SUSTAINABLE | Miguel Angel De La Rubia, Alvaro Picazo, Cristina Argiz, |
| | 17:49 | 17:51 | CEMENTS. A DURABILITY STUDY | Encarnacion Reyes, Jaime Galvez, Amparo Moragues, Elvis |

Thursday 29th of August, room

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|---------------|---------------------------------|-------|--|--|--|--|--|--|--|
| Time slot | start | end | Title | Authors | | | | | |
| | Session Chair: Neven Ukrainczyk | | | | | | | | |
| | 10:30 | 10:45 | CHEMO-MECHANICAL MODELING OF AN OPC CEMENT PASTE EXPOSED TO EXTERNAL SULFATE ATTACK: AN APPROACH BASED ON SULFATES ADSORBED IN C-S-H AND | Anthony Soive, Syed Yasir Alam, Safae Berrabeh, Ahmed Loukili | | | | | |
| | 10:45 | 11:00 | CALCIUM SILICATE HYDRATES STABILITY UNDER CHEMICALLY AGGRESSIVE CONDITIONS | Cédric Roosz, Marie Giroudon, Mehdi Bista, Arij Fawaz, Fructueux Jésugnon Sohounme, Laurie Lacarrière, Alexandra | | | | | |
| | 11:00 | 11:15 | LEACHING AND CARBONATION MODELLING OF CONCRETE UNDER VARIABLE HYDROTHERMAL CONDITIONS | Layla Ibrahim, Laurie Lacarrière, Thierry Vidal, Alain Sellier | | | | | |
| | 11:15 | 11:30 | MIX DESIGN GUIDANCE FOR CARBONATION-RESISTANT ALKALI-ACTIVATED PASTES INCORPORATING MSWI BOTTOM ASH: INSIGHTS FROM THERMODYNAMICS MODELING | Farnaz Aghabeyk, Boyu Chen, Mayank Gupta, Luiz Miranda De Lima, Yun Chen, Ye Guang | | | | | |
| 10:30 – 13:00 | 11:30 | 11:45 | DURABILITY OF INNOVATIVE CEMENTITIOUS COATINGS FOR CONCRETE WASTEWATER TREATMENT PLANTS: IMPACT OF CRACKS ON BIODETERIORATION | Reem Hoballah, Matthieu Peyre Lavigne, Ahmed Toumi, Laurie Lacarrière, Cédric Patapy, Carole Soula, Amr Aboulela, | | | | | |
| | 11:45 | 12:00 | LIVING CONCRETE WALLS: ENGINEERING BIORECEPTIVITY AND BIOFILMS | Julia Von Werder, Leonie Stohl, Jake Cook, Chiara Tonon | | | | | |
| | 12:00 | 12:15 | EFFECT OF AGGREGATE SIZE ON LOAD INDUCED THERMAL STRAIN OF CONCRETE AT HIGH TEMPERATURE | Kajanan Selvaranjan, John Provis, Maurizio Guadagnini, Giacomo Torelli | | | | | |
| | 12:15 | 12:30 | CHEMICAL ACIDIFICATION OF PORTLAND-CEMENT BASED PASTES | Feyza Nur Sahan, O. Burkan Isgor, William Jason Weiss | | | | | |
| | 12:30 | 12:45 | CORROSION OF SALT CONCRETES IN MAGNESIUM-RICH SALINE SOLUTION SIMULATING EVAPORITE ROCK IN THE MORSLEBEN REPOSITORY | Ricky Henning, Patrick Sturm, Sylvia Keßler, Gregor Gluth | | | | | |
| | 12:45 | 13:00 | PROBABILISTIC SERVICE LIFE PREDICTION OF ALKALI-ACTIVATED CONCRETE | Tamara Janey Chidiac, Anastasija Komkova | | | | | |
| 13:00-14:00 | 0 Lunch break / Poster session | | | | | | | | |
| | Session Chair: Carmen Andrade | | | | | | | | |
| | 14:00 | 14:02 | RILEM TC GDP. RECENT PROGRESS IN MEASURING GAS DIFFUSION IN CEMENT BASED MATERIALS. | Bruno Huet, Philippe Turcry, Carmen Andrade, David Benavente, Wissem Dridi, Fabien Georget, Andreas Leeman, | | | | | |
| | 14:02 | 14:04 | RESISTANCE AGAINST SULPHATE OF BINARY AND TERNARY WITH GGBS OR/AND HIGH LIMESTONE CONTENT | Matthieu Bertin, Yoann Jainin, Roberta Alfani, Martin Cyr | | | | | |
| | 14:02 | 14:04 | SUSTAINABLE TERNARY BLENDED MIXTURE SCC: STRENGTH AND TRANSPORT PROPERTIES | Timothy Kofi Ametefe, Mark Bediako, Jones Owusu Twumasi | | | | | |
| | 14:04 | 14:06 | SCM REACTIVITY IN MULTICOMPONENT CEMENTS: DIFFERENTIAL EFFECTS OF MIX DESIGN PARAMETERS ON SCM INTERACTIONS | Hasmik Bou Farhat, Guillaume Lepêcheur, Ruben Snellings | | | | | |
| | 14:06 | 14:08 | SIMULATING NEUTRON RADIOGRAPHY FOR DESIGN AND INTERPRETATION | Tanner Heatherly, Todd Palmer, Burkan Isgor, Jason Weiss | | | | | |
| 14:00-14:30 | 14:08 | 14:10 | PROTON NUCLEAR MAGNETIC RESONANCE (1H NMR) SPECTROSCOPY STUDY ON THE MICROSTRUCTURE OF CEMENT PASTE CONTAINING ELECTRIC ARC FURNACE SLAG | Namkon Lee, Muhammad Haseeb Zaheer | | | | | |
| | 14:10 | 14:12 | MICROSTRUCTURE CHARACTERISTICS OF INTERFACIAL TRANSITION ZONE IN CONCRETE BASED ON FLUORESCENT EPOXY IMPREGNATION METHOD OBSERVATIONS | Jiarong Shen | | | | | |
| | 14:12 | 14:14 | BIODETERIORATION MAPPING OF LOW CARBON SEWAGE CEMENTITIOUS MATERIALS FROM RAMAN INSIGHT TO CHEMOMETRICS INPUTS | Janette Ayoub, Mario Marchetti, Tony Pons, Marcos Oliveira, Marielle Gueguen Minerbe | | | | | |
| | 14:14 | 14:16 | SHORT-TERM INVESTIGATION OF INTERACTIONS OF PLAIN CONCRETE, MARINE MICROORGANISMS, AND SEA WATER FOR THE APPLICATION OF FOWTS | Deeksha Arya Margapuram, Marie Salgues, Fabrice Deby, Raphael Lami, Benjamin Erable, Michel Groc, Renaud | | | | | |
| | 14:16 | 14:18 | KINETIC MODELLING OF THE EFFECT OF SCM FINENESS, CURING TEMPERATURE AND CONSTITUENT INTERACTIONS ON REACTIVITY | Guillaume Lepêcheur, Hasmik Bou Farhat, Shiju Joseph, Özlem Cizer, Ruben Snellings | | | | | |
| | 14:18 | 14:20 | INVESTIGATION OF STRUCTURAL AND OPTICAL PROPERTIES OF COAL FLY ASH THIN FILM DOPED WITH T | Rawan Aljabbari, Thamer Alomayri, Faisal G. Al-Maqate, Abeer Alsuwat | | | | | |

Caption:





Flash presentation (2 min. talk, no Q&A) + poster























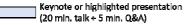
Bituminous materials: properties, sustainability and resilience

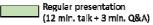
Topic & Session Chairs: Prof. Eshan Dave, Prof. Gabriele Tebaldi

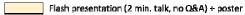
Tuesday 27 August

| Time slot | start | end | Title | Authors |
|---------------|-------|---------|---|--|
| | 11:30 | 11:55 | RESILIENCE OF ASPHALT PAVEMENTS | Eshan Dave |
| | | | | |
| | 11:55 | 12:10 | EXPERIMENTAL EVALUATION OF SELF-HEALING PROPERTIES OF BITUMINOUS BINDERS: OUTCOMES AND CHALLENGES FROM RILEM TC 278-CHA | Fabrizio Miglietta, Roberto M. Aurilio, Lucia Tsantilis, Orazio Baglieri, Hassan Baaj |
| 11:30 – 13:00 | 12:10 | 12:25 | UNRAVELLING G*/SINS AND G*.SINS CRITERIA THROUGH PHASE ANGLE ANALYSIS | Sham Ravindranth, Akanksha Pandey |
| 11.30 – 13.00 | 12.10 | 12.25 | ONNAVELLING G / SINO AND G . SINO CRITERIA THROUGH PHASE ANGLE ANALTSIS | Shaii Ravinurahti, Akanksha Fanuey |
| | 12:25 | 12:40 | TOWARDS A CONCEPT REPLACING BITUMEN WITH RENEWABLE BIO-BINDER | Michael P. Wistuba, Trifunović Stefan |
| | 12:40 | 12:55 | ASSESSING THE IMPACT OF VOLUMETRIC PROPERTIES ON WMA PERFORMANCE | Jorge Del Valle Corte, Pablo Orosa Iglesias, Ana María |
| | | | USING HAMBURG WHEEL TRACKING TEST | Rodríguez Pasandín, Ignacio Pérez Pérez, Santiago Ferro Lojo |
| 13:00 – 14:00 | | | Lunch break - poster session | |
| | 14:00 | 14:15 | ANALYZING THE EFFECT OF ADDITIVES ON THE RHEOLOGICAL PROPERTIES OF SBS MODIFIED BINDERS | Sham Ravindranth, Akanksha Pandey |
| • | 14:15 | 14:30 | CODA WAVE INTERFEROMETRY FOR FATIGUE MONITORING AND HEALING | Hassan Baai, Roberto M. Aurilio |
| | | | CHARACTERIZATION OF ASPHALT MIXTURES | " |
| | 14:30 | 14:45 | ENCAPSULATED PYROLYTIC REJUVENATOR BASED ON WASTE MINING TYRES TO PROMOTE SELF-HEALING OF MICROCRACKS IN AGED BITUMEN | Jose Concha, Manuel Chávez-Delgado, Erik Alpizar-Reyes, Jose Norambuena-Contreras |
| • | | | SENSITIVITY OF THE SPECIFIC HEAT CAPACITY OF ASPHALT CONCRETE TO MIXTURE | |
| 14:00 – 16:00 | 14:45 | 15:00 | CONSTITUENTS AND CONDITIONING TEMPERATURES | Duygu Demirtürk, Hande Isik Ozturk, Murat Guler |
| • | 15:00 | 15:15 | THE EFFECT OF USING PRIME COAT ON THE SURFACE TEMPERATURE OF ASPHALT | Mohsen Shamsaei, Alan Carter, Michel Vaillancourt |
| | | 15.15 | PAVEMENT | , |
| | 15:15 | 15:30 | MANDATORY USE OF HIGH VINYL CONTENT SBS POLYMERS FOR BITUMEN | Sham Ravindranth, Sohel Islam, Sumit Singh, Gd |
| | | | MODIFICATION AND PAVEMENT CONSTRUCTION | Ransinchung R. N |
| | 15:30 | 15:45 | PROPERTY EROSION IN REACTIVE ELASTOMERIC TERPOLYMER MODIFIED BINDERS: | Sham Ravindranth, Alok Sharma, Gd Ransinchung R. N |
| | 15.50 | 15.45 | ROLE OF STORAGE TEMPERATURE AND TIME | Shari Ravinaranti, Alok Sharina, Ga Ransineriang R. R |
| 16:00-16:30 | | | Coffee break - poster session | |
| | 16:30 | 16:55 | EVALUATION OF THE MECHANICAL PERFORMANCE OF BSM AS A FUNCTION OF | Fausto Bisanti, Gabriele Tebaldi, Eshan V. Dave |
| | 10.50 | 10.55 | ACTIVE FILLERS AND BITUMINOUS STABILISING AGENTS | radice bisarra, dabricie rebaidi, Estidir V. bave |
| | 16:55 | 17:10 | INFLUENCE OF A SUSTAINABLE MATERIAL PROCESSING OF RECLAIMED ASPHALT ON | Panujan Naguleswaran, Pahirangan Sivapatham, Ines Dragon |
| | 10.55 | 17.10 | PERFORMANCE TESTS AND FORECASTS OF ASPHALT PAVEMENTS | , , , , , , , |
| | 17:10 | 17:25 | PRESENTATION OF THE ALTERNATIVE PAVING MATERIALS – SUSTAINABILITY | Davide Lo Presti, Emmanuel Chailleux, Ana Jimenez del |
| | 17.10 | 17.25 | TECHNICAL COMMITTEE PROPOSAL | Barco Carrion, Kamilla Vasconcelos, Filippo Giustozzi |
| | 17:25 | 17:40 | SUSTAINABLE PAVEMENT STRUCTURE BY USING COLD RECYCLING TECHNOLOGY | Jibrin Mohammed Kaura, Abdulfatai Adinoyi Murana |
| 16:30-18:00 | 17.25 | 17.40 | (BSM METHODOLOGY) IN COMPARISON TO TRADITIONAL PAVEMENTS DESIGN | Murana, Shuaibu Abdulmumin Ahmed, Bilkisu Hassan Sada |
| 10.00 10.00 | 17:40 | 17:42 | EFFECTS OF LABORATORY COMPACTION METHODS ON PROPERTIES OF COLD | Nicola Carbutti, Eshan Dave, Gabriele Tebaldi, Jo Sias |
| - | 17.40 | 17.42 | RECYCLED ASPHALT MIXTURES | Micola Carbutti, Estiali Dave, Gabriele Tebalui, 10 3las |
| | 17:42 | 17:44 | COMPARISON OF COSTS AND BENEFITS OF USING NATURAL AND RECYCLED | Duygu Demirtürk, Iffet Gamze Mütevelli Özkan |
| | 17.42 | 17.44 | CONCRETE AGGREGATES IN ASPHALT CONCRETE: A CASE STUDY IN TURKEY | Duygu Demirturk, met Gamze Muteveili Ozkan |
| | 17:44 | 17:46 | IMPACT OF AGING ON CHEMICAL AND RHEOLOGICAL CHARACTERISTICS OF SELF- | Nacer Akkouri |
| | 17.44 | 17.40 | HEALING ASPHALT BINDER | IVACEI ARROUTI |
| | 17:46 | 17:48 | RESTORATION OF PHYSICAL PROPERTIES ON LONG-TERM AGED BITUMEN BY EFFECT | Manuel Chávez-Delgado, Jose L. Concha, Luis E. Arteaga- |
| | 17:40 | 17:48 | OF A PYROLYTIC REJUVENATOR BASED ON WASTE TYRES | Pérez, Jose Norambuena-Contreras |
| | | Kermote | or highlighted presentation Regular presentation | Florb executation (2 min talk to (26A) Locator |































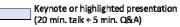
Wood in structures

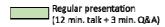
Topic & Session Chairs: Dr. Juan Li, Dr. Bohumil Kasal

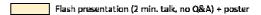
Tuesday 27 August

| Time slot | start | end | Title | Authors |
|-------------|-------|-------|--|---|
| 16:00-16:30 | | | coffee break - poster session | |
| | 16:30 | 16:55 | IDURABILITY OF WOOD STRUCTURES | Guilhem Greffier, Marianne Perrin, Luis Espinosa, Florent Eyma |
| | 16:55 | 17:10 | | Sota Ogura, Kei-Ichi Imamoto, Ridengaoqier E, Chizuru Kiyohara |
| | 17:10 | 17:25 | IBASIC STUDY ON DURABILITY OF YAKISUGI | Ryosuke Nakajima, Kei-Ichi Imamoto, Ridengaoqier E, Chizuru Kiyohara |
| 16:30-17:30 | 17:25 | 17:27 | WOOD ADHESIVES FOR STRUCTURAL ENGINEERING WOOD PRODUCTS: LATEST ADVANCES | Anuj Kumar |
| | 17:27 | 17:29 | MANUFACTURING AND STRUCTURAL PERFORMANCE OF STRUCTURAL PARTICLEBOARD | Min Lee, Sang-Min Lee |
| | 17:29 | 17:31 | INTRODUCING A NOVEL VEGETAL INSECTICIDE FOR WOOD PROTECTION | Daouia Messaoudi, Katia Ruel, Jean-Paul Joseleau |
| | 17:31 | 17:33 | DURABILITY AND FIRE RESISTANCE OF STRUCTURAL PARTICLE BOARD | Min Lee, Sang-Min Lee |

Caption:





























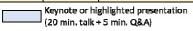
Biobased materials

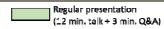
Topic Chair: Prof. Camille Magniont

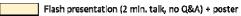
Tuesday 27 August

| Time slot | start | end | Title | Authors |
|---------------|-------|-------|--|---|
| | | | Session chairs: Camille Magniont & Sofiane Amziane | 1 |
| | 11:30 | 11:55 | ABOUT THE COMPLEXITY OF A COMPREHENSIVE APPROACH TO MITIGATING AND ADAPTING TO CLIMATE CHANGE WHEN DESIGNING BUILDINGS | Thibaut Lecompte |
| | 11:55 | 12:10 | BIO-BASED BUILDING MATERIALS: IMPACT OF THE THERMAL CONDUCTIVITY VARIABILITY ON THERMO-HYDRIC BEHAVIOR | Séverine Rosa Latapie, Ariane Abou Chakra, Vincent Sabathier |
| 11:30 – 13:00 | 12:10 | 12:25 | INFLUENCE OF BIORESOURCE ON MINERAL BINDERS HYDRATION AND VEGETAL CONCRETES COMPRESSIVE STRENGTH | Ana Laura Berger Cokely, Rafik Bardouh, Sofiane Amziane, Evelyne Toussaint, Grégory Mouille, Agathe |
| - | 12:25 | 12:40 | CHARACTERIZATION OF THE PHYSICAL AND THERMAL PROPERTIES OF MISCANTHUS FOR BUILDING MATERIAL | Mohammed Yacine Benariba, Anh Dung Tran Le, Dang Mao Nguyen, Geoffrey Promis |
| | 12:40 | 12:55 | INFLUENCE OF SUNFLOWER STALKS PROCESSING PARAMETERS ON THE PROPERTIES OF PITH INSULATING MATERIALS | Myriam Goutière, Aurélie Laborel-Préneron, Camille Magniont |
| 13:00 - 14:00 | | | lunch break - poster session | |
| | | | Session chairs: Sandrine Marceau & Romildo D. Toledo Filho | |
| _ | 14:00 | 14:15 | STUDY OF THE MECHANICAL BEHAVIOR OF HEMP CONCRETE WITH TWO DIFFERENT MINERAL BINDERS THROUGH DIGITAL IMAGE CORRELATION IN VARIED AGGREGATE | Rafik Bardouh, Evelyne Toussaint, Sofiane Amziane, Sandrine Marceau, Ana Laura Berger Cokely |
| | 14:15 | 14:30 | BIO-BASED CORE-SHELL CAPSULES FOR SELF-HEALING CONCRETE WITH CORROSION INHIBITION | Erik Alpizar-Reyes, Mercedes Sánchez-Moreno, M. Ángeles Oliva-Lamarca, Jose Norambuena-Contreras |
| | 14:30 | 14:45 | EXPLORING THE BEHAVIOUR OF HUMIDITY RESPONSIVE MATERIALS | Natalia Pynirtzi, Kumar, Biswajit Debnath, Mahab Aljanaat, Jane Scott, Colin Davie, Ben Bridgens |
| 14:00 – 16:00 | 14:45 | 15:00 | OPTIMIZED VEGETAL WOOLS FOR INDOOR COMFORT: COUPLING FIRE TREATMENT WITH ACOUSTIC AND HYGROTHERMAL PERFORMANCES | Thomas Schatzmayr Welp Sá, Sandrine Marceau, Clément Piégay, Philippe Glé, Fouad Laoutid, Cesar |
| | 15:00 | 15:15 | QUANTIFYING CELLULOSE NANOCRYSTALS ADSORPTION ON CEMENTITIOUS CONSTITUENTS | Sivakumar Ramanathan, Krishna Siva Teja Chopperla, O. Burkan Isgor, W. Jason Weiss |
| | 15:15 | 15:30 | INTEGRATING MOISTURE DYNAMICS INTO GRASSHOPPER ARCHITECTURAL DESIGN WORKFLOW: A PLUGIN TO GRASP THE BENEFITS OF MOISTURE BUFFERING | Magda Posani, Yasmine Priore, Pierre Estève, Emma Livio, Dominique Daudon, Guillaume Habert |
| | 15:30 | 15:45 | POTENTIAL OF LOCAL AGRICULTURAL BY-PRODUCTS FOR VEGETAL CONCRETE DESIGN | Haga Ratsimbazafy, Aurélie Laborel-Préneron, Camille Magniont, Philippe Evon, Pascale Sénéchal |
| 16:00-16:30 | | | coffee break - poster session | |
| _ | | | Session Chairs: Aurélie Laborel-Préneron & Mohammed Sonebi | |
| _ | 16:30 | 16:55 | HYGROTHERMAL PHENOMENA IN BIO- AND GEO-BASED MATERIALS INTERPLAY AT DIFFERENT SCALES | Monika Woloszyn |
| _ | 16:55 | 17:10 | CHARACTERIZATION OF MICROSTRUCTURE EVOLUTION OF HEMP CONCRETE IN THE EARLY STAGE BY 3D X-RAY MICROTOMOGRAPHY | Haichuan Liu, Dmytro Kosiachevskyi, Benjamin Smaniotto, Kamilia Abahri |
| _ | 17:10 | 17:25 | AN ANALYTICAL REVIEW OF THE INFLUENCE OF MICROSTRUCTURE ON THE CHEMICAL, PHYSICAL, AND HYGROTHERMAL PROPERTIES OF PLANT AGGREGATES | Mohammed Yacine Benariba, Anh Dung Tran Le, Dang Mao Nguyen, Geoffrey Promis |
| _ | 17:25 | 17:27 | ECO-FRIENDLY BUILDING SOLUTIONS: UNVEILING THE POTENTIAL OF WOOD WASTE PANELS FOR SUSTAINABLE CONSTRUCTION INNOVATION | Maya Hajj Obeid, Mickael Pailha, Monika Woloszyn |
| 16:30-18:00 | 17:25 | 17:27 | 100% BIO-BASED MATERIALS FOR COMFORTABLE AND DEMOUNTABLE CONSTRUCTIONS | A. Copin, S. Marceau And M. Guéguen Minerbe |
| | 17:27 | 17:29 | CHARACTERIZATION OF ONE ENDEMIC BAMBOO SPECIE OF AFRICA FOR INDUSTRIAL AND CONSTRUCTION APPLICATIONS | Japhet Noubiap Ngouobe, Thibaut Lecompte, Paul Salomon Ngohe-Ekam, Penlap Landry Hervé, Micheal |
| | 17:29 | 17:31 | INTRODUCING A NOVEL VEGETAL FUNGICIDE FOR PROTECTION OF BIO-BASED INSULATION MATERIALS AGAINST MOULDS | Canelle Vibert Clement, Daouia Messaoudi, César Cegovia |
| | 17:31 | 17:33 | OPTIMIZATION OF THE VINE SHOOTS PRE-TREATMENT APPLIED TO BIO-BASED CONCRETES | Lucas Araujo, Lally Garrigue, Rime Chehade, Stéphane Hans, Myriam Bahrar, Fabbri Antonin, Nassim Sebaibi |
| | 17:33 | 17:35 | TEXTILE HEMP SHIV POTENTIAL AS ALTERNATIVE BIOAGGREGATE FOR HEMP CONCRETE | Paul Soulié, Djillali Mezhoud, Aurélie Laborel- Préneron, Camille Magniont |































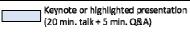
Data-driven concrete science (AI for concrete material and civil infrastructures)

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

Tuesday 27 August

| Time slot | start | end | Title | Authors |
|---------------|-------------------------------|-------|--|---|
| | | | Session Chairs: Sandra Nunes Barbosa & Ravi Patel | |
| | 11:30 | 11:55 | WHERE DOES ARTIFICIAL INTELLIGENCE FIT WITHIN OUR CONSERVATIVE CONSTRUCTION WORLD? | Nathan Tregger |
| | 11:55 | 12:10 | | Züleyha Kanpara Cıvaş, Milan Kundra, Martin Liska,Leon Black, Emilio Garcia-Taengua |
| 11:30 – 13:00 | 12:10 | 12:25 | TEXPLORING DATA FOR PREDICTING CONCRETE PROPERTIES AT EARLY AND LATE AGES | Arnaud Delaplace, Paul O'Hanlon, Louise Harding, Régis Bouchard |
| | 12:25 | 12:40 | A DATA-DRIVEN APPROACH FOR TENSILE STRENGTH OPTIMIZATION IN CEMENT PASTES | Jinane Murr, Syed Yasir Alam, Frederic Grondin |
| | 12:40 | 12:55 | | Ridengaoqier E, Imamoto Kei-Ichi, Chizuru Kiyohara, Tamako Abe |
| 13:00 - 14:00 | | | lunch break - poster session | |
| | | | Session Chairs: Stefanie von Greve-Dierfeld & Tulio Honorio | |
| | 14:00 | 14:15 | MACHINE LEARNING AND CONCRETE TECHNOLOGY: NEW FRONTIERS | Ravi Patel |
| | 14:15 | 14:30 | NUMERICAL ANALYSIS ON FEASIBLE DATA STRUCTURING AND MODELING POLICIES FOR MACHINE LEARNING APPLICATION TO CEMENTITIOUS MATERIALS | Satoshi Fujimoto |
| | 14:30 | 14:45 | MACHINE LEARNING-BASED PREDICTION OF SCC MORTAR PROPERTIES ACROSS VARIOUS CEMENT TYPES | Woubishet Zewdu Taffese, Sandra Nunes |
| 14:00 – 16:00 | 14:45 | 15:00 | MULTI-OBJECTIVE OPTIMIZATION OF RECYCLED CONCRETE MIX DESIGN USING MACHINE LEARNING | Haodong Ji, Hailong Ye |
| | 15:00 | 15:15 | | Chinnu Mariam Ninan, Anandhakrishnan M, K P Ramaswamy, Alexandra Bertron, R Sajeeb |
| | 15:15 | 15:17 | IMPACT OF DATA CLEANING ON AI MODELS PREDICTING COMPRESSIVE STRENGTH OF ALKALI-ACTIVATED MATERIALS | Woubishet Zewdu Taffese, Sandra Nunes |
| | 15:17 | 15:19 | | Haji Sami Ullah, Sandra Nunes, Neil Yorke-Smith, Max Hendriks |
| | 15:19 | 15:21 | USING BIG DATA TO DERIVE GGBS ACTIVITY INDICES | Züleyha Kanpara Cıvaş , Milan Kundra, Martin Liska, Leon Black , Emilio Garcia-Taengua |
| 16:00-16:30 | coffee break - poster session | | | |











Regular presentation (12 min. talk + 3 min. Q&A)



























Flash presentation (2 min. talk, no Q&A) + poster

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

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

Wednesday 28 August

| Time slot | start | end | Title | Authors | | |
|---------------|------------------------------|----------|--|---|--|--|
| 10:30 - 11:00 | Lunch break - poster session | | | | | |
| | | | Session Chair: Jorge Dolado | | | |
| | 11:00 11:25 | 11.25 | DEVELOPMENT OF A LARGE-SCALE CALCIUM SULFO-ALUMINATE (CSA) FOAMED | Stéphane Ginestet, Noé Beaupere, Tamar Nahhas, | | |
| | | 11.25 | MATERIAL FOR THERMAL ENERGY STORAGE | Alexandre Malley-Ernewein, Gabriel Samson, Martin Cyr | | |
| | 11:25 | 11:40 | NEW LOW CARBON FOOTPRINT CEMENT-LIME MORTAR WITH PHASE CHANGE | Cynthia Guardia, Ana Guerrero, Gonzalo Barluenga, Laura | | |
| | 11.25 | 11.40 | MATERIALS (PCM) AND BIOMASS ASH FOR THERMAL ENHANCEMENT OF BUILDINGS | Ramallo, Irene Palomar | | |
| | 11:40 | 11:55 | SUSTAINABLE GEOPOLYMER CEMENTITIOUS COMPOSITE FOR THERMOELECTRIC | Mohamad Barzegar, Guido Goracci, Pavel Martauz, Jorge | | |
| | 11:40 | 11:55 | ENERGY HARVESTING | Dolado | | |
| 11:00 - 13:00 | 11:55 | 12:10 | CEMENT-BASED ELECTROLYTES FOR ENERGY STORAGE APPLICATIONS | Birhan Alkadir Abdulahi, Juan Wang, Luping Tang, Liming | | |
| | 11.55 | 12.10 | CEIVIENT-BASED ELECTROLITIES FOR ENERGY STORAGE APPLICATIONS | Huang, Arezou Babaahmadi, Ergang Wang | | |
| | 12:10 | 10 12:25 | FOAM GLASS LIGHTWEIGHT AGGREGATE LOADED WITH PHASE CHANGE MATERIAL | Fan Zheng, Hailong Ye | | |
| | | | FOR ENERGY STORAGE | rail Zilelig, Hallolig Te | | |
| | 12:25 | 12:40 | ASSESSING ENERGY PERFORMANCE AND CO2 EMISSION OF BUILDING ENVELOPES | Mohammad Mahdi Khodavirdi Zanjani, Víctor Fachinotti, | | |
| | | | ACCOUNTING FOR STRUCTURAL CONSTRAINTS: BUILDING PERFORMANCE | Luca Moreschi, Stefano Spotorno, Adriana Del Borghi, | | |
| | 12:40 | 0 12:55 | FEW-LAYER GRAPHENE-BASED ALKALI-ACTIVATED MORTAR IN THERMAL ENERGY | Mohammad Mahdi Khodavirdi Zanjani, Antonio Caggiano, | | |
| | 12:40 | | STORAGE ENVELOPES: COMPOSITION AND MECHANICAL PROPERTIES | Víctor Fachinotti, Salvatore Polverino, Juan Basbus | | |
| 13:00-14:00 | | | coffee break - poster session | | | |
| | | | Session Chairs: Antonio Caggiano & Cynthia Guardia | | | |
| | 14:00 | 14:15 | THERMAL EVALUATION OF LOW-CARBON LIME CEMENT MORTARS WITH PCM FOR | Laura Ramallo, Gonzalo Barluenga, Irene Palomar | | |
| | 14.00 | 14.13 | 3D PRINTING ARCHITECTURAL APPLICATIONS | Ladra Ramano, Gonzalo Bariacinga, irene i alomai | | |
| 14:00-15:00 | 14:15 | 14:30 | EFFECTS OF ELECTROLYTIC COPPER POWDER ON REACTIONS AND THERMAL | Nghia Tran, Tuan Nguyen, Tuan Ngo | | |
| | 17.13 | 14.30 | PROPERTIES OF ONE-PART GEOPOLYMER EXPOSED TO HIGH TEMPERATURE | rigina tran, ruan riguyen, ruan rigo | | |
| | 14:30 | 14:32 | SYNTHESIS OF AMORPHOUS MAGENISUM CARBONATES AND POTENTIAL | Kanwal Shahid, Hoang Nguyen, Cise Unluer, Paivo Kinnunen | | |
| | 14.30 | 14.32 | APPLICATIONS | Ranwai Shamu, Hoang Nguyen, Cise Officer, Falvo Kilifichien | | |

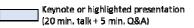
Energy-efficient buildings, comfort, IAQ

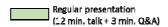
Session Chair: Prof. Stéphane Ginestet

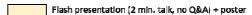
Wednesday 28 August

| Time slot | start | end | Title | Authors |
|---------------|-------|-------|--|--|
| 15:00 – 16:00 | 15:00 | 15:15 | IINVESTIGATE THE RELEASE OF PARTICLES FROM SURFACES OF MATERIALS INTO AIR | Mohamad Al Hallak, Thomas Verdier, Alexandra Bertron, Christine Roques |
| | 15:15 | 15.20 | INVESTIGATING THE DESIGN AND IMPLEMENTATION REQUIREMENTS FOR PROPOSED SUSTAINABLE CITIES IN TWO CASE STUDIES OF ARID AND COLD CLIMATES | Suaad Ridha, Claire Oms, Berangere Lartigue |
| | 15:30 | 15:45 | INFLUENCE OF RADIATIVE PROPERTIES OF INTERIOR COATING ON THE SUMMER THERMAL COMFORT. SENSITIVITY STUDY ON A DWELLING IN TOULOUSE | Valentin Lahaye, Marion Bonhomme, Claire Oms, Nicolas Duport, Stéphane Ginestet |
| | 15:45 | 15:47 | ANALYSIS OF THE INFLUENCE OF OPAQUE WALL THERMAL INERTIA ON SUMMER COMFORT IN RESIDENTIAL BUILDINGS | Zineb Boutayeb, Matthieu Labat, Claire Oms, Stéphane Ginestet |
| | 15:47 | 15:49 | | Younes Benakcha, Matthieu Labat, Ion Hazyuk, Stéphane Ginestet |

Caption:





























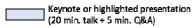
Historic materials and buildings and cultural heritage

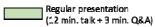
Topic Chairs: Prof. Enrico Sassoni, Prof. Corina Papanicolaou

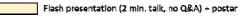
Wednesday 28 August, room

| Time slot | start | end | Title | Authors |
|---------------|---|--|--|---|
| Time slot | Start | enu | Session Chairs: Enrico Sassoni & Pagona Noni Maravela | |
| - | | | LIFE CYCLE ASSESSMENT OF STONE CONSOLIDANTS: WHAT FUNCTIONAL UNIT | |
| | 11:00 | 11:25 | | Alessandro Dal Pozzo, Giulia Masi, Alessandro Tugnoli, |
| | | | SHOULD BE ADOPTED? PRECIPITATION TRIGGERED DYNAMICS IN STONE AND CERAMIC TILES: A | Enrico Sassoni Hannelore Derluyn, Syrine Ben Elhadj Hamida, Tinhinane |
| | 11:25 | 11:40 | | |
| - | | | MESOSCOPIC VIEW | Chekai, Rozeline Wijnhorst, Leo Pel, Peter Moonen, |
| | 11:40 | 11:55 | STRAIN RATE SENSITIVITY OF PURE HYDRATED LIME MORTAR | Ashraf Nayel, Christian Malaga-Chuquitaype, Lorenzo |
| 11:00 - 13:00 | | | | Macorini |
| 11:00 - 13:00 | 11:55 | 12:10 | IN-SITU CO2 MIXING FOR CARBONATION ACCELERATION IN AERIAL LIME MORTAR | Hee-Young Hwang, Sung-Hoon Kang, Sung-Gul Hong |
| | 12.10 | 12.25 | BRIDGING TRADITION AND INNOVATION: ADVANCING SUSTAINABLE | Marlene Sámano Chong, Alberto Muciño Vélez, Luis |
| | 12:10 | 12:25 | ARCHITECTURAL PRACTICES WITH IN SITU POZZOLANIC REACTION TESTING OF LIME- | Fernando Guerrero Baca, Teresa Pi Puig, Ivonne Rosales |
| | 12:25 | 12:40 | IMPACT OF WIND ON THE SALT WEATHERING RESISTANCE OF MASONRY MORTARS | Anupama V A, Dr. Manu Santhanam |
| • | 12:40 12:55 14:00 14:15 14:15 14:30 | MARBLE CONSERVATION BY AMMONIUM PHOSPHATE: HOW DOES SALT | Alessio Gabrielli, Greta Ugolotti, Giulia Masi, Elisa Boanini, | |
| | 12:40 | 12:55 | CONTAMINATION AFFECT THE TREATMENT OUTCOME? | Enrico Sassoni |
| 13:00 - 14:00 | | | lunch break - poster sessoin | |
| | | | Sessoin Chairs: Hannelore Derluyn & Dimitrios Aggelis | |
| | | | THCM BEHAVIOR CHARACTERISATION OF PLATE LIMESTONE SUBMITTED TO FIRE – | Jérémy Lhomme, Emilie Huby, David Giovannacci, Claire |
| | 14:00 | 14:15 | FROM MICRO TO MACRO SCALE – CULTURE HERITAGE CONSERVATION | Lorentz, Stéphane Logel, Jean-Didier Mertz, Yannick Melinge |
| | | | SIMULATION OF THE HYGROTHERMAL BEHAVIOUR OF WALLS COMPOSED OF | Margot Ruiz, Valéry Masson, Marion Bonhomme, Stéphane |
| | 14:15 | 1:15 14:30 | TRADITIONAL AND BIO-BASED MATERIALS USING AN URBAN CLIMATE MODEL | Ginestet |
| | 14:30 | 14:30 14:45 | HYGROTHERMAL PERFORMANCE INVESTIGATION OF BUILDING LIMESTONES IN | Placide Uwizeyimana, Arnaud Regazzi, Faiza Mnasri, Laurent |
| | | | VARIABLE CLIMATE | Clerc, Eric Garcia-Diaz, Philippe Devillers, Frédéric Dubois, |
| 14:00 - 16:00 | 14:45 | | CONDITION ASSESSMENT OF CENTURY-OLD REINFORCED CONCRETE BUILDING WITH | Kei-Ichi Imamoto, Chizuru Kiyohara, Yasufumi Nerome, Yuri |
| | | | MORE THAN 60% OF GROUND GRANULATED BLAST FURNACE SLAG | Odajima, Ridengaogier E, Junyi Chen, Toru Kinose |
| | | | INFLUENCE FROM FORMING PRESSURES ON PROPERTIES OF FIRED CLAY DISCS | Frederikke Brandt Feldthus, Gunvor M. Kirkelund, Lisbeth |
| | 15:00 | 15:15 | CONTAINING SEWAGE SLUDGE ASH | M. Ottosen, Ida Bertelsen |
| | | | ANALYZING HISTORICAL MORTARS FOR THE DESIGN OF RESTORATION-COMPATIBLE | |
| | 15:15 | 15:17 | ONES: APPLICATION TO THE RAYMOND BASTION, CORFU, GREECE | Pagona Noni Maravelaki |
| | | | THE EARTH BRICK HOUSE "24H" OF UGA CAMPUS, AS PEDAGOGIC OBJECT AND | Dominique Daudon, Martin Pointet, Laurent Galichet, |
| | 15:17 | 15:19 | THERMAL COMFORT REAL TIME DEMONSTRATOR IN SERVICE | Thierry Joffroy, Yannick Sieffert, Laurent Oxarango, Team E- |
| 16:00-16:30 | | | coffee break - poster session | |
| | | | Session Chairs: Corina Papanicolaou & Giulia Masi | |
| | 16:30 | 16:55 | TRM-TO-MASONRY RESIDUAL BOND CHARACTERISTICS AS A FUNCTION OF | Corina Dananicalacu |
| | 16:30 | 16:55 | TEMPERATURE | Corina Papanicolaou |
| | 16:55 | 17:10 | SEISMIC STUDY OF REINFORCED BRICK MASONRY STRUCTURES | Nadia Tarifa, Zakaria Ilyes Djamai, Frédéric Duprat |
| | | | MECHANICAL BEHAVIOUR OF THE SEXPARTITE VAULTS OF NOTRE-DAME DE PARIS | Pierre Morenon, Anne-Sophie Colas, Frédéric Dubois, Denis |
| 16:30-18:00 | 17:10 | 17:25 | CATHEDRAL | Garnier, Stéphane Morel, Paul Nougayrède, Thomas Parent, |
| | | | COMPARATIVE ANALYSIS OF ADOBE STRUCTURES BUILDING CODES OF DIFFERENT | Somayeh Omidvari, Thierry Joffroy, Philippe Garnier, Majid |
| | 17:25 | 17:40 | COUNTRIES PRONE TO SEISMIC HAZARDS | Haimirbaba |
| | | | SEISMIC RISK ASSESSMENT OF TERRACES WITH DRY STONE RETAINING WALLS | ., |
| | 17:40 | 17:42 | TYPICAL OF THE CENTRAL ZONE OF THE ANDES | Sandra Santa-Cruz, Paola Ita, Dominique Daudon |
| • | | | SEISMIC BEHAVIOR OF DRY STONES WALLS : DEM SIMULATION FOR UNCERTAINTY | |
| | 17:42 | 17:44 | ESTIMATION | Dominique Daudon, Ansheng Chen, Julien Baroth |
| | | 1/ | te or highlighted presentation Regular presentation | |































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

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

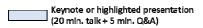
Wednesday 28 August

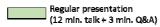
| Time slot | ata ut | and | Title | Authors |
|---------------|--------|-------|--|---|
| Time slot | start | end | Session Chairs: Ruben Snellings & Cédric Patapy | Authors |
| | | | | |
| | 11:00 | 11:25 | CARBON SEQUESTRATION IN CONCRETE – POTENTIAL AND CHALLENGES | Mateusz Wyrzykowski, Pietro Lura |
| | 11:25 | 11:40 | COMPARING THE DEGREE OF CARBONATION OF HARDENED CEMENT PASTE BY WET- | Dayoung Oh, Zhiwei Zhao, Zhijiang Li, Yaming Jin, Ryoma |
| | 11.25 | 11.40 | DRY CYCLE CARBONATION METHODS | Kitagaki |
| | 11:40 | 11:55 | CO2 SEQUESTRATION EFFECT ON THE PORE STRUCTURE OF CEMENT PASTE ANALYSED VIA TIME-DOMAIN PROTON NUCLEAR MAGNETIC RESONANCE (1H NMR) | Muhammad Haseeb Zaheer, Namkon Lee, Jung Jun Park |
| | | | UNDERSTANDING THE ROLE OF HIGH TEMPERATURE (120°C VS 20°C) ON | |
| | 11:55 | 12:10 | CARBONATION REACTIVITY OF CEMENT WASTE AND STEEL SLAG POWDERS | Hao Yu, Tung-Chai Ling |
| 11:00 - 13:00 | 12:10 | 12:25 | EVALUATION OF STEEL SLAG AS CO2-BINDER AND SUPPLEMENTARY CEMENTITIOUS | Giada Biava, Maciej Zajac, Mohsen Ben Haha, |
| | 12.10 | 12.23 | MATERIAL (SCM) | Claudia Capone, Elza Bontempi |
| | 12:25 | 12:40 | AQUEOUS CARBONATION OF BASIC OXYGEN FURNACE SLAG: A REVIEW OF MECHANISM, INFLUENCING FACTORS, AND APPLICATION POTENTIAL | Hamideh Mehdizadeh |
| | | | THE POTENTIAL OF BIO-MEDIATED CO2 SEQUESTRATION IN CEMENTITIOUS | |
| | 12:40 | 12:55 | MATERIALS | Xiulin Chen, Zhidong Zhang, Ueli Angst |
| | 12:55 | 12:57 | STUDY ON THE ACCELERATED CARBONATION OF RECLAIMED WATER SLUDGE IN CO2 | Hoon Moon, Namkon Lee, Jung Jun Park, Indong Jang, Gi- |
| | 12.55 | 12.57 | NANOBUBBLE WATER FOR CO2 SEQUESTRATION | Joon Park, Gum-Sung Ryu |
| | 12:57 | 12:59 | EFFICIENCY OF DRY ICE-BASED CO2 SEQUESTRATION IN CONCRETE | Deepak Kumar Kamde, Shihas Melikkattil Shamsudheen, Surendra K. Manjrekar, P.A. Muhammed Basheer |
| 13:00 – 14:00 | | | Lunch break - poster session | Janendra K. Manjiekar, F.A. Muhammed Basheer |
| | | | Session Chairs: Mateusz Wyrzykowski & Simon Blotevo | gel |
| | 14:00 | 14:15 | STUDY ON THE PHYSICAL PROPERTIES OF MORTAR USING Γ-C2S BASED CO2-FIXING | Hara Hirofumi, Masataka Ushiro, Taiichiro Mori |
| | | | ADMIXTURE | The time tall, medical cost of tallians were |
| 14:00 – 16:00 | 14:15 | 14:30 | DEVELOPMENT OF CARBON NEUTRAL CONCRETE CONTAINING RECYCLED CCU MATERIALS AND Γ-C2S AND REDUCTION OF CO2 IN THE APPLICATION OF | Yukiko Nishioka, Kouhei Eguchi, Daijiro Tsuji, Masaro Kojima |
| | | | | Marco Davolio, Stefano Gelain, Federico Furlani, |
| | 14:30 | 14:45 | CONCRETE CARBON MIXING FOR SUSTAINABLE CONCRETE PRODUCTION | Giovanni Muciaccia, Liberato Ferrara |
| | 14:45 | 15:00 | DEVELOPMENT OF CO2 IMMOBILIZED INTERLOCKING BLOCK WITH RECYCLED GLASS | Hiroshi Kasai, Toshinari Mukai, Takemasa Kitahara, |
| | | | CULLET AGGREGATE BY HIGH-CONCENTRATION ACCELERATED CARBONATION | Koji Fushimi |
| | 15:00 | 15:15 | EFFECT OF STRENGTH AT THE START OF CARBONATION IN EARLY AGE ON FINAL STRENGTH AND CO2 FIXATION | Hiroaki Yamano, Mio Sakai, Kumar Avadh, Takeshi Torichigai, Kengo Seki, Haru Tanabe |
| | | | CARBONATION SHRINKAGE EVALUATION IN ORDINARY PORTLAND CEMENT AND | |
| | 15:15 | 15:30 | HIGH SLAG CONTENT BLENDED CEMENT-BASED HARDENED MATERIALS | Karen Midori Masunaga, Panisa Sangkeaw, Takeshi Iyoda |
| 16:00-16:30 | | | Coffee break - poster session | |
| | | | Session Chairs: Tung-Chai Ling & Gregor Gluth | |
| | 16:30 | 16:55 | SUSTAINABLE BUILDING MATERIALS IN THE MIDDLE EAST AND NORTH AFRICA REGION: TRENDS, OPPORTUNITIES AND CHALLENGES | Mohammed Sonebi, Ahmed Abdalqader |
| | 46.00 | 46.45 | CHARACTERIZATION SCHEME FOR ASHES TO SUPPORT THE UTILIZATION IN | Lisbeth M. Ottosen, Gunvor M. Kirkelund, Ebba Schnell, |
| | 16:30 | 16:45 | DIFFERENT CONSTRUCTION MATERIALS | Frederikke Brandt Feldthus, Godfred Appiah, Huilin Li, |
| | 16:55 | 17:10 | CALCINATION OF TUNNEL EXCAVATION MATERIAL AND USE AS SUPPLEMENTARY | Björn Siebert, Christoph Budach, Pierre Müller, Thomas |
| | | | CEMENTITIOUS MATERIAL IN CONCRETE REVIEW OF RECYCLED AGGREGATE PROCESSING TECHNIQUES AND QUALITY | Heiermann, Stephan Uebachs |
| | 17:10 | 17:25 | CONTROL MEASURES IN THE SOUTH AFRICAN CONTEXT | Areej Gamieldien, Hans Beushausen, Mark Alexander |
| | 47.05 | 47.40 | EVALUATION OF SELECTED PROPERTIES OF RED SOIL STABILIZED BY LIMESTONE | Loyford M. Mugambi, Julius R. Toeri, Thomas Pfeiffer, |
| | 17:25 | 17:40 | CALCINED CLAY CEMENT – CIRCULARITY PERSPCETIVES | Wolfram Schmidt, Joseph M. Marangu |
| | 17:40 | 17:42 | ALKALI-ACTIVATED MATERIAL – OIL COMPOSITES: TOWARDS RESOURCE EFFICENCY, | Cyrill Grengg, Ognjen Rudic, Marcella Ruschi Mendes Saade, |
| 16:30-18:00 | | | HIGH DURABILITY AND CO2 NEUTRALITY UTILIZING GREEN CARBONATE-ACTIVATED SLAG BINDERS FOR ECO-FRIENDLY | Florian Mittermayr |
| | 17:42 | 17:44 | STABILIZATION OF WASTE MARINE MUD | Zhen Tan, Hailong Ye |
| | 17.44 | 17:46 | THE FEASIBILITY STUDY OF USING RECYCLED CONCRETE POWDER WITH INCREASED | Rong Huang, Junjie Wang, Kefei Li, Lei Xu |
| | 17:44 | 17:46 | CEMENTITIOUS CONTENT AS A BINDER MATERIAL | G G, 7 G, 1 |
| | 17:46 | 17:48 | BUILDING WITH BIOLOGY: ARCHITECTURAL ADVANCEMENTS THROUGH ADDITIVE | Maria De Los Angeles Ortega Del Rosario, Antonio Alberto |
| | | | MANUFACTURING | Jaén Ortega, Miguel Chen Austin |
| | 17:48 | 17:50 | THE UTILIZATION OF RECYCLED CELLULOSE IN CEMENTITIOUS MATERIALS | David Law, Chamini Liyanage, Chamila Gunasekara |
| | 17:50 | 17:53 | MECHANICAL AND THERMAL PERFORMANCE OF LIGHTWEIGHT ULTRA-HIGH- | Zuchi Tian, Hailong Vo |
| | 17:50 | 17:52 | PERFORMANCE CONCRETE WITH EXPENDED GLASS AGGREGATE | Zushi Tian, Hailong Ye |
| | 17:52 | 17:54 | THERMAL AND MICRO-STRUCTURAL ANALYSIS OF SYNTHESIZED CALCIUM | Anfal Alaibani, Mariam AlSaeedi, Mohammad Abdulsalam |
| | | | CARBONATE ADDITIONS TO PORTLAND CEMENT | |

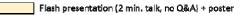
| 10:00 - 10:30 | | coffee break - poster session | | | | | |
|---------------|-------|--|--|---|--|--|--|
| | | Session Chairs: Anya Vollpracht & Guoqing Geng | | | | | |
| | 10:30 | 10:55 | IPILOT SCALE DEMONSTRATION OF CAMBRIDGE ELECTRIC CEMENT | Shiju Joseph, Rohit Prajapati, Patricio Burdiles, | | | |
| | | | | Julian Allwood, Cyrille Dunant | | | |
| | 10:55 | 11:10 | UPDATE ON TECHNOLOGIES FOR CLAY CALCINATION | Fernando Martirena-Hernandez | | | |
| | 11:10 | 11:25 | BREAKING THROUGH THE 50% CLINKER CONTENT LIMIT WITH LC3 CEMENTS | Franco Zunino | | | |
| | 11:25 | 11.40 | CONCEPT DEVELOPMENT FOR THE USE OF RECYCLED CARBON FIBRES IN THE CONSTRUCTION INDUSTRY | Vanessa Overhage, Hannah F. Wilms, Thomas Gries | | | |

| | 11:10 | 11:25 | EFFECTS OF QUARRY AND RECYCLED CONCRETE WASTE AS RAPID USE STABILIZERS FOR CLAY SOILS | Lee Leon | |
|---------------|------------------------------|-------|---|--|--|
| | 11:25 | 11:40 | THE FEASIBILITY STUDY OF USING RECYCLED CONCRETE POWDER WITH INCREASED CEMENTITIOUS CONTENT AS A BINDER MATERIAL | Rong Huang, Junjie Wang, Kefei Li, Lei Xu | |
| 10:30 – 13:00 | 11:40 | 11:55 | IMITITEORIECTIVE DECISION-MAKING IN THE REALM OF BLENDED CEMENT MIXTURES. | Debadri Som, Tobias Hertel, Glenn Beersaerts, Panagiotis Patrinos, Yiannis Pontikes | |
| | 11:55 | 12:10 | PHYSICAL PROPERTIES OF PERVIOUS CONCRETE WITH CLINKER-FREE CEMENT | Tamako Abe, Kei-Ichi Imamoto, Ridengaoqier E, Chizuru Kiyohara | |
| | 12:10 | 12:25 | STRENGTH OPTIMIZATION OF SUSTAINABLE LIGHTWEIGHT HYBRID BINDER MORTARS BASED ON VOLCANIC PUMICE AND DURABILITY TESTS. | Jesús López Salas, José Iván Escalante-García | |
| | 12:25 | 12:40 | HYGROSCOPIC BEHAVIOUR OF ECO-FRIENDLY GYPSUM MORTAR WITH RECYCLED POLYURETHANE FOAM | Alba Rodrigo-Bravo | |
| | 12:40 | 12:42 | | Naoki Hashimoto, Hiroki Suyama, Koji Takasu, Hidehiro Koyamada | |
| | 12:42 | 12:44 | EVALUATION OF SHEAR STRENGTH PARAMETERS OF SUSTAINABLE UTILIZATION OF SCRAP TIRES DERIVED GEO-MATERIALS FOR CIVIL ENGINEERING APPLICATIONS | Ahmad Hakamy | |
| | 12:44 | 12:46 | | Sivasankara Rao Meda, Sanjay Kumar Sharma, G D Tyagi, Sharma Charul, Tank Ishan | |
| 13:00-14:00 | lunch break - poster session | | | | |

Caption:





























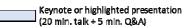
Corrosion, Maintenance and Repair of Reinforced Concrete Structures

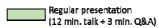
Topic Chair: Prof. Deepak Kumar Kamde

Wednesday 28 August

| Time slot | start | end | Title | Authors |
|---------------|-------|-------|--|---|
| | | | Session Chair: Radakrishna Pillaï | |
| | 11:00 | 11:25 | LESSONS FROM THREE DECADES OF RESEARCH ON THE DURABILITY OF REINFORCED C | Hans Beushausen |
| | 11:25 | 11:40 | THE ROLE OF INTERFACIAL VOIDS ON THE CORROSION OF STEEL IN REINFORCED | Shishir Mundra, Emanuele Rossi, Luka Malenica, |
| | 11.23 | 11.40 | CONCRETES – PECULARITIES AND RELEVANCE | Mohit Pundir, Ueli M Angst |
| | 11:40 | 11:55 | ELECTROCHEMICAL STUDY OF STEEL REINFORCEMENT IN SYNTHETIC PORE | Ali Nikoonasab, Marina Licht, Michael Raupach, Gregor J. |
| | | 11.55 | SOLUTIONS OF GGBFS-CONTAINING CEMENTS | G. Gluth |
| 11:00 - 13:00 | 11:55 | 12:10 | EXPERIMENTAL AND NUMERICAL EVIDENCE OF MACRO CELL CORROSION CURRENT | Lucas Hess, Raoul François, Laurent Boutillon, Lionel Linger, |
| | | | PREVALENCE IN CHLORIDE-INDUCED CORROSION AT LOAD-INDUCED CRACK | Valérie L'Hostis |
| | 12:10 | 12:25 | EFFECTS OF VARIOUS WATER REPELLANT COATINGS ON MOISTURE, ELECTRICAL | Pakawat Sancharoen, Somnuk Tangtermsirikul |
| | | | RESISTIVITY AND CARBONATION OF CONCRETE | , |
| | 12:25 | 12:40 | COMPARATIVE CORROSION BEHAVIOUR OF PLASTICALLY-DEFORMED MILD, TMT | Bhanu Prakash Malladi, Prasanna Kumar Behera |
| | | | AND STAINLESS STEEL BARS IN CHLORIDE-CONTAMINATED SIMULATED CONCRETE THE ROLE OF MOISTURE IN CARBONATED CONCRETE: THE CORROSION | |
| | 12:40 | 12:55 | PERFORMANCE OF BLENDED CEMENTS | Thilo Schmid, Cristhiana Albert, Zhidong Zhang, Ueli Angst |
| 13:00 – 14:00 | | | lunch break - poster session | |
| 13.00 - 14.00 | | | Session Chair: Deepak Kumar Kamde | |
| | | | Session chair. Beepak kumur kumuc | Fabio Enrico Furcas, Alexander German, Frank Winnefeld, |
| | 14:00 | 14:15 | THE CORROSION BEHAVIOUR OF STEEL IN MG-BASED BINDERS | Ueli Angst |
| | | | SPATIAL DISTRIBUTION OF CORROSION PRODUCTS IN REINFORCED CONCRETE | |
| | 14:15 | 14:30 | UNDER STRAY CURRENT ENVIRONMENT | Wenjun Zhu, Yi Ren, Raoul François |
| | | | A PRACTICAL MODEL FOR REPAIR EVALUATION AND SERVICE LIFE ESTIMATION OF | |
| | 14:30 | 14:45 | FIELD STRUCTURE UNDER MARINE EXPOSURE | Harshit Agrawal, Swathy Manohar, Salman Muhammad |
| 14:00 - 16:00 | 14.45 | 45.00 | EVALUATION OF INPUT PARAMETERS FOR THE ELECTROCHEMICAL MODELLING OF | Kaanthi Vadalda Thalaldal Badhalmishaa Billai |
| | 14:45 | 15:00 | CATHODIC PROTECTION SYSTEMS IN REINFORCED CONCRETE | Keerthi Vadakke Thalakkal, Radhakrishna Pillai |
| | 15:00 | 15:15 | INVESTIGATION OF CHANGES IN CEMENT PASTE ELECTROCHEMICAL PROPERTIES | Abdel Razzak El Zohby, Raphaelle Pouhet, Laurie |
| | 15:00 | 15.15 | UNDER THE EFFECT OF IMPOSED CURRENTS MAINTAINED OVER TIME | Lacarrière, Stéphane Laurens |
| | 15:15 | 15:30 | REHABILITATION OF MARITIME WORKS USING GFRP REINFORCEMENTS: SPANISH | Asunción Morales Hortelano, Laura Juárez Gonzalez, |
| | | | PRACTICAL CASES | Álvaro Ruiz Emparanza, Rafael Ybarra Huesa |
| | 15:30 | 15:45 | | S. Thalaimalaisamy, A. Basavaraj, D. Joseline And P. |
| | | | STRUCTURES | Arunachalam |
| 16:00-16:30 | | | coffee break - poster session Session Chair: Shishir Mundra | |
| | | | PRINCIPLES OF THE IMPACT OF CLIMATE ON THE CORROSION PROPAGATION | |
| | 4:30 | 4:55 | PROCESS | Carmen Andrade |
| | | | EVALUATION OF BOND STRENGTH BETWEEN SUPERABSORBENT POLYMER-ADDED | |
| | 4:55 | 5:10 | SHCC AND CONCRETE SUBSTRATE | Yao Luan, Keita Suzuki, Muhammad Ejaz |
| | | | | Maria Antonietta Aiello Aiello, D Coffetti, L Coppola, |
| | 5:10 | 5:25 | BOND-SLIP BEHAVIOUR OF CEMENT-LESS CONCRETE WITH STEEL AND FRP BARS | M Leone, A Napoli, R Realfonzo, V Romanazzi |
| | | - 40 | HOW FRP REINFORCEMENT CONTRIBUTES TO THE SUSTAINABILITY OF CONCRETE | Laura Juárez Gonzalez, Asunción Morales Hortelano, Álvaro |
| | 5:25 | 5:40 | STRUCTURES | Ruiz Emparanza, Francisco De Caso |
| | 5:40 | 5:42 | STUDY ON DETERMINATION OF MEASUREMENT POINTS FOR QUANTITATIVE | Hojae Lee, Eun-A Seo |
| | 5.40 | 5.42 | ANALYSIS OF CHLORIDE CONCENTRATION IN CONCRETE STRUCTURES | Hojae Lee, Euli-A Seo |
| | 5:42 | 5:44 | ASSESSING STEEL CORROSION RESISTANCE IN LIMESTONE CALCINED CLAY CEMENT | Umesh Hule, Radhakrishna G. Pillai |
| | 3.42 | 3.44 | (LC3) WITH CORROSION INHIBITOR EXPOSED TO CARBONATION | · |
| 16:30-18:00 | 5:44 | 5:46 | THE CHEMISTRY AT THE STEEL-CONCRETE INTERFACE AND ITS INFLUENCE ON | Shishir Mundra, Mohit Pundir, Barbara Lothenbach, David |
| | | | CORROSION OF THE STEEL REINFORCEMENT | S. Kammer, Ueli M Angst |
| | 5:46 | 5:48 | EFFECTS OF MOISTURE TRANSPORT ON DURABILITY OF STEEL REINFORCED | Zhidong Zhang, Chunsheng Zhou |
| | | | CONCRETE: WORK PROPOSED BY RILEM TC MMS | <u> </u> |
| | 5:48 | 5:50 | SERVICE LIFE OF REINFORCED CONCRETE (RC) SYSTEMS WITH CORROSION | Shefali Aggarwal, Radhakrishna Pillai |
| | | | INHIBITING ADMIXTURES STUDY OF LONG-TERM EFFECT OF AMINO-ALCOHOL BASED CORROSION INHIBITOR | |
| | 5:50 | 5:52 | IN CONCRETE | Ting-Yu Hao, Chao Xu, Da Shi |
| | | | ELECTROCHEHMICAL BEHAVIOR OF CONTINUOUS GALVANIZED REBARS IN SEVERE | |
| | 5:52 | 5:54 | CORROSIVE ENVIRONMENT | Vimal Mohan, Radhakrishna Pillai, P. Srinivasan |
| | | | THE INFLUENCE OF SILICA ON THE FORMATION OF CORROSION PRODUCTS IN | Fabio Enrico Furcas, Shishir Mundra, Barbara Lothenbach, |
| | 5:54 | 5:56 | CEMENTITIOUS SYSTEMS | Ueli Angst |
| | _ | | ANALYSING THE STRUCTURAL BEHAVIOUR OF CORROSION DAMAGED HIGH | - |
| 1 | 5:56 | 5:58 | STRENGTH CONCRETE STRUCTURE | Jaya Nepal And Salim Barbhuiya |
| | | | | |





























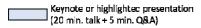


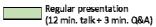
Non-destructive inspection of concrete materials and structures

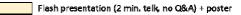
Topic Chair: Prof. Dimitrios Aggelis

| Time a state of | **** | | T:41- | Ta | | | |
|-----------------|--|-------------|--|---|--|--|--|
| Time slot | start | end | Title | Authors | | | |
| | Session Chairs: Dimitrios Aggelis & Giuseppe Lacidogna | | | | | | |
| | 10:30 | 10:55 | NDT METHODS AND STRUCTURAL HEALTH MONITORING TECHNIQUES FOR THE | Christian Grosse | | | |
| | | | INVESTIGATION AND CONSERVATION OF HISTORIC BUILDINGS | | | | |
| | 10:55 | 11:10 | USE OF NON-DESTRUCTIVE CONCRETE QUALITY ASSESSMENT FOR SELECTIVE | Marija Nedeljkovic | | | |
| | 10.55 | | DEMOLITION OF A HIGHWAY BRIDGE | man ya medenjiko me | | | |
| | 11:10 | 11:25 | DETECTION OF TILE DETACHMENT ON EXTERNAL FINISHING WALL BY SOLENOID | Yosuke Ito, Daiki Tanaka, Shinji Kawabe | | | |
| | 11.10 | 11.25 | TAPPING DEVICE REBOUNDING | | | | |
| | 11:25 | 11:40 | TRC-TO-CONCRETE BOND CHARACTERIZATION THROUGH ACOUSTIC EMISSION | Klajdi Toska, Dimitrios Aggelis, Tine Tysmans, Anne-Lise | | | |
| | 11.23 | 11.40 | MONITORING | Beaucour, Albert Noumowe | | | |
| 10:30 - 13:00 | 11:40 | 11:55 | LESSONS LEARNT ON QUANTIATIVE SPATIAL CHLORIDE ANALYSIS USING LIBS AND | Sabine Kruschwitz, Annika L. Schultheiss, Gerd Wilsch, | | | |
| | 11.40 | 11.55 | μXRF | Andreas Bogner, Ravi A. Patel | | | |
| | 11:55 | 12:10 | MONITORING THE EFFECT OF C-S-H SEED ON THE HYDRATION AND STRENGTH | Liming Huang, Tang Luping, Ingemar Löfgren, Arezou | | | |
| | 11.55 | 12.10 | DEVELOPMENT OF TERNARY BINDER CONCRETE | Babaahmadi | | | |
| | 12:10 | 12:25 | MONITORING OF REINFORCED CONCRETE DURABILITY: WEATHER EFFECT | Nuria Rebolledo, Julio Torres, Javier Sanchez | | | |
| | 12:10 | 12:25 | INDIVITORING OF REINFORCED CONCRETE DURABILITY, WEATHER EFFECT | ivulia Neboliedo, Julio Torres, Javier Sanchez | | | |
| | 12:25 | 12:40 | MULTIMODAL NON-DESTRUCTIVE MONITORING OF TRC SANDWICH PANELS IN | Nicolas Ospitia, Ali Pourkazemi, Eleni Tsangouri, Johan Stiens, | | | |
| | 12:25 | .2:25 12:40 | BENDING | Dimitrios Aggelis | | | |
| | 12,40 | 12.55 | NON-DESTRUCTIVE EVALUATION OF LOAD-CARRYING CONCRETE ELEMENTS WITH | Serkan Karatosun, Katja I.M. Thygesen, Thomas Ingeman- | | | |
| | 12:40 | 12:55 | LIMITED CORE SAMPLES | Nielsen, Jesper Stærke Clausen, Lisbeth M. Ottosen | | | |
| 13:00 - 14:00 | | | lunch break - poster sesison | | | | |
| | Session Chairs: Dimitrios Aggelis & Tomoki Shiotani | | | | | | |
| Ī | 14:00 | 1:00 14:25 | ANALYSIS OF FAILURE PRECURSORS PARAMETERS IN HETEROGENEOUS MATERIALS | Giuseppe Lacidogna, Leandro Ferreira Friedrich, Édiblu Cezar, | | | |
| | | | USING ACOUSTIC EMISSION SIGNALS | Ignacio Iturrioz | | | |
| 1 | | | | Nicolas Ospitia, Gerlinde Lefever, Nele De Belie, Dimitrios | | | |
| | 14:25 | 14:40 | ULTRASONIC INSPECTION FOR ADVANCED STRUCTURAL APPLICATIONS | Aggelis | | | |
| 1 | | | HAMMERING TEST FOR THE EXTERNAL TILE FINISHING WALL BY PATTERN | | | | |
| | 14:40 | 14:55 | RECOGNITION OF SPECTROGRAM | Daiki Tanaka, Yosuke Ito, Shinji Kawabe | | | |
| | | | INFLUENCE OF INCLUSION ON THE VOLUME CHANGES IN SEALED CONDITIONS OF | Maïté Lacante, Brice Delsaute, Dimitrios Aggelis, Stéphanie | | | |
| | 14:55 | 15:10 | SLAG ACTIVATED BY SODIUM HYDROXIDE: A MULTI-TECHNIQUE INVESTIGATION | Staguet | | | |
| | | | EFFECT OF SUPPLEMENTARY CEMENTITIOUS MATERIALS ON THE PERFORMANCE OF | | | | |
| | 15:10 | 15:25 | REINFORCED CONCRETE STRUCTURES UNDER CORROSION USING EMI TECHNIQUE | Tarun Morwal, Shilpa Pal, Nirendra Dev, Tushar Bansal | | | |
| | | | APPLICATION OF ELASTIC WAVE TOMOGRAPHY TO ASESS ADDITIVELY | Tomoki Shiotani, Hisafumi Asaue, Norihiko Ogura, Nobuhiro | | | |
| 14:00 - 16:00 | 15:25 | 15:40 | MANUFACTURED CONCRETE | Okude, Sagradyan Artur, Tetsuya Ishida | | | |
| | | | A COMBINATION OF NON-DESTRUCTIVE TECHNIQUES FOR MONITORING EARLY-AGE | Eleni Korda, Eleni Tsangouri, Didier Snoeck, Geert De | | | |
| | 15:40 | 15:55 | CONCRETE | Schutter, Dimitrios Aggelis | | | |
| | | | ENHANCED HYDRAULIC FRACTURE TRACKING IN LABORATORY SCALE USING | , 30 | | | |
| | 15:55 | 15:57 | COMPRESSED SENSING | Chen Gu | | | |
| | | | COMI RESSED SENSING | Matsuzawa Koichi, Kaori Nemoto, Naoki Mishima, Naoko | | | |
| | 15:57 | 15:59 | STUDY ON AI-BASED CRACK IMAGE DIAGNOSIS OF EXTERIOR FINISH COATINGS | Tsuchiya, Kiyofumi Nakada, Tadatsugu Kage | | | |
| | | | | Tomoki Shiotani, Hisafumi Asaue, Norihiko Ogura, Nobuhiro | | | |
| | 15:59 | 16:01 | APPLICATION OF NDT TO ASSESS ADDITIVELY MANUFACTURED CONCRETE | Okude, Sagradyan Artur, Tetsuya Ishida | | | |
| | | | ASSESSMENT OF TEST RESULT PRECISION FOR INDIRECT ULTRASONIC PULSE | Orduc, Jagradyan Artur, Tersuya Ismua | | | |
| | 16:01 | 16:03 | VELOCITY PERFORMED ON CONCRETE | Katja I.M. Thygesen, Lisbeth Ottosen, Serkan Karatosun | | | |
| | | | | Anno Lauro Dorrior, Maámio Drima, Andra Basil, Cádria | | | |
| | 16:03 | 16:05 | POTENTIAL OF ELECTRIC AND ELECTROMAGNETIC SIGNAL FOR HYDRIC STATE | Anne-Laure Perrier, Noémie Prime, Andre Revil, Cédric | | | |
| 15.00.15.05 | | | DIAGNOSIS OF BUILDING STRUCTURES. CASE OF 2 INNOVATIVE TEHCNICS | Bermond | | | |
| 16:00-16:30 | | | coffee break - poster session | | | | |





























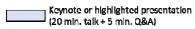


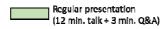
Earth-based materials and construction

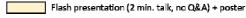
Topic & Session Chairs: Prof. Céline Perlot-Bascoulès, Prof. Antonin Fabbri

| Time slot | start | end | Title | Authors |
|---------------|-------|-------|---|--|
| | 10:30 | 10:55 | EARTH CONSTRUCTION: A CLAY SCIENCE PERSPECTIVE | Fionn Mc Gregor |
| | 10:55 | 11:10 | DRYING-INDUCED CRACKING OF RAW EARTH PLASTER | Karbala Ghida, Keita Emmanuel, Vandamme Matthieu, Belin Patrick, Maillet Benjamin, Sidi-Boulenouar Rahima |
| | 11:10 | 11:25 | EXCAVATED EARTH AS A SUBSTITUTE FOR CONCRETE AGGREGATES | Secret Marion, Claude Sophie, Aubert Jean-Emmanuel, Tornay Nathalie, Fourment Yvon, Broilliard Philippe |
| | 11:25 | 11:40 | SEISMIC VULNERABILITY OF REINFORCED MASONRY STRUCTURES | Vieux-Champagne Florent |
| 10:30 – 13:00 | 11:40 | 11:55 | EXTRUDING EARTH-BASED MATERIALS CONTROLLING GEOMETRICAL STRAND PROPERTIES BY MATERIAL AND PROCESS PARAMETERS IN 3D PRINTING | Charkhab Esmaeili Mehrzad, Noda Sakiko, Mai Inka |
| | 11:55 | 12:10 | FIRE BEHAVIOUR OF A CAST POURED EARTH CONCRETE | Jules Gombault, Laurent Molez, Hervé Maigen, Christophe Lanos |
| | 12:10 | 12:25 | INFLUENCE OF BIO-GEOBASED MATERIAL FORMULATION ON DRYING KINETICS AND MICROBIAL PROLIFERATION | Eva Taillade, Thomas Verdier, Sophie Claude, Hugo Cagnon, Jean-Emmanuel Aubert |
| | 12:25 | 12:40 | OPTIMIZING HEAVY COB WALL DESIGN FOR TEMPERATE-SEMI-OCEANIC ENVIRONMENTS | Kabore Aguerata, Claudiane Ouellet-Plamondon |
| | 12:40 | 12:55 | EXPERIMENTAL EVALUATION OF THE THERMAL PERFORMANCE OF A TRADITIONAL ADOBE WALL AND A TYPICAL BRICK WALL | Kyritsi Eirini, Kyriakidis Andreas, Philokyprou Maria, Ioannou Ioannis |
| 13:00 - 14:00 | | | lunch break - poster session | |
| | 14:00 | 14:15 | DETERMINATION OF THE POROSITY OF EARTH-BASED BUILDING MATERIALS USING VACUUM-ASSISTED SATURATION WITH ORGANIC LIQUIDS | Panagiotou Rafail, Ioannou Ioannis |
| | 14:15 | 14:30 | STABILIZED EARTH: RETHINKING OLD APPROACHES | Selina Vaculik, Thomas Matschei |
| 14:00 – 15:00 | 14:30 | 14:32 | · | Phan Alexiane, Chehade Rime, Fabbri Antonin, Bahrar Myriam, Streiff François, Sebaibi Nassim |
| 14:00 - 15:00 | 14:32 | 14:34 | · · · · | Melany N. Medina P., Maria De Los Angeles Ortega Del Rosario, Antonio Alberto Jaén Ortega, Rafael Duque, Luis |
| | 14:34 | 14:36 | INFLUENCE OF SYNTHETIC CARBON FIBER PRESENCE ON THE MULTI-PHYSICAL BEHAVIOR OF RAMMED EARTH | Rouba Kassab, Hamza Allam, Laurent Ibos |
| | 14:36 | 14:38 | THE IMPACT OF PROTOCOL IN THE COMPRESSIVE STRENGTH OF UNSTABILIZED RAMMED EARTH. | Eluckkiya Angalakurichi Nallasamy, Florent Vieux- Champagne, Yannick Sieffert, Yann Malecot, Martin Pointet |



























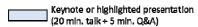


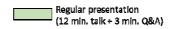
Innovation Day

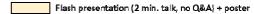
Topic & Session Chairs: Lionel Linger, Ivan Drouadaine

| Time slot | start | end | Title | Authors |
|---------------|-------|-------|---|---|
| | 10:30 | 10:55 | THE FUTURE OF THE EUROPEAN STANDARDIZATION OF CEMENT: INPUT OF THE RILEM TC-PHC | Laurent Izoret |
| | 10:55 | 11:10 | LOW CARBON CONCRETE BASED ON HIGH FILLER CONTENT | François Cussigh, Lionel Linger, Matthieu Jeusset, Yvan Thiebaut, Thomas Holder |
| | 11:10 | 11:25 | STUDY ON TECHNICAL STANDARDS FOR CONCRETE CONTRIBUTES TO THE REDUCTION OF CO2 EMISSIONS | Tadatsugu Kage, Koichi Matsuzawa, Kiyofumi Nakada |
| | 11:25 | 11:40 | MODELLING AND BENCHMARK OF WATER POST-COOLING PIPES IN MASS CONCRETE USING EMBEDDED ELEMENTS WITH A FINITE VOLUME APPROACH | Thomas Jochyms, Pierre-Edouard Denis, Yvan Thiebault, Laurent Boutillon, Lionel Linger |
| 10:30 – 13:00 | 11:40 | 11:55 | LOW CARBON CONCRETE DEVELOPED VIA PERFORMANCE-BASED APPROACH: A CASE STUDY OF THE NEW LARIVOT BRIDGE IN FRENCH GUIANA | Mouna Boumaaza, Thomas Holder, Paul-Alexandre Franco, Julien Crespy, Ferdinand Vitry, Line Ladouceur, Rani Antoun, |
| | 11:55 | 12:10 | PERFORMANCE-BASED STANDARDS FOR HYDRAULIC CEMENTS: MECHANICAL STRENGTH AND DIMENSIONAL STABILITY | Federica Boscaro, Laurent Izoret, Karen Scrivener |
| | 12:10 | 12:25 | FULLY RECYCLED LOW-CARBON CONCRETE FOR TWO NEW BUILDINGS NEAR PARIS, FRANCE | Valère Eichwald, Serge Nana, Blandine Albert, Lilia Caragacean, Jean-Michel Laye, Mouloud Behloul, Christophe |
| | 12:25 | 12:40 | ENVIRONMENTAL IMPACT OPTIMISATION OF ISOSTATIC BEAMS | Noémie Riez, Sébastien Maitenaz, Xavier Estrella, Nicolas Metge, Corentin Fivet |
| | 12:40 | 12:55 | VALORIZATION OF EXCAVATED SOILS IN THE PRODUCTION OF P1-TYPE CURBS | Younes Farez, Khadim Ndiaye, Prosper Plyia, Salima Aggoun, Romain Lafon |
| 13:00 - 14:00 | | | lunch break | |
| | 14:00 | 14.15 | DURABILITY DESIGN OF TUNNELS AND UNDERGROUND STRUCTURES IN THE ONTARIO LINE SOUTH | Mehdi Bakhshi, Behrouz Esmaeilkhanian, Verya Nasri, Lionel Linger |
| | 14:15 | 14:30 | DESIGN AND CONSTRUCTION OF FRC TUNNEL PRECAST SEGMENT WITH FIBRE ENABLED CARBON FOOTPRINT REDUCTION | Benoit De Rivaz |
| | 14:30 | 14:45 | GENERAL NEEDS FROM INDUSTRY FOR COLAS | Xavier Carbonneau |
| 14:00 – 16:00 | 14:45 | 15:00 | IMPLEMENTATION AND ASSESSMENT OF SEVERAL CRACKING TESTS TO BETTER ASSESS THE DURABILITY OF ASPHALT MIXES | Fayçal Lahjiri, Bertrand Pouteau, Eshan Dave, Amélie Griggio, Marc Proteau |
| 14.00 10.00 | 15:00 | 15:15 | FULL-DEPTH RECLAMATION (FDR) – PROPOSAL FOR MECHANISTICAL-EMPIRICAL DESIGN PARAMETERS - FEEDBACK FROM THE REGINA BYPASS PPPS PROJECT | Mustapha Masdan, Marc Proteau, Alan Ezaoui, Amélie Griggio, Bertrand Pouteau |
| | 15:15 | 15:30 | | |
| | 15:30 | 15:45 | ROUND TABLE DISCUSSION | All participants, Chaired by François Cussigh & Brice Delaporte |
| | 15:45 | 16:00 | | |
| 16:00-16:30 | | | coffee break | |





























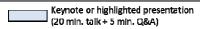


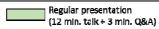
Corrosion of engineering materials – Session for young scientists

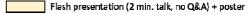
Topic & Session Chairs: Dr. Meeke van Ede, Dr. Lucas Michel

| Time slot | start | end | Title | Authors | |
|---------------|------------------------------|-------|---|--|--|
| 10:30 - 13:00 | 10:30 | 10:45 | INTRODUCTION OF THE RILEM YOUNG SCIENTIST CORROSION GROUP | Meeke van Ede, Lucas Michel | |
| | 10:45 | 11:00 | DOES THE STEEL MANUFACTURING PROCESS AFFECT THE CORROSION SUSCEPTIBILITY OF REINFORCING STEEL BARS? | Ahmad Takriti, Sylvia Kessler | |
| | 11:00 | 11:15 | PASSIVATION OF STRESSED STEEL IN SIMULATED CONCRETE PORE SOLUTION | Zheng Dong, Zhou Meng, Chuanqing Fu | |
| | 11:15 | 11:30 | PRELIMINARY RESULTS FROM AN EXPERIMENTAL STUDY ON REINFORCEMENT CORROSION IN SIMULATED NATURAL CONDITIONS | C. Martens, R. Caspeele and E. Verstrynge | |
| | 11:30 | 11:45 | IMPACT OF CRACKS ON CHLORIDE-INDUCED REINFORCEMENT CORROSION | Samanta Robuschi, Karin Lundgren, and Mette Rita Geiker | |
| | 11:45 | 12:00 | CHLORIDE-INDUCED CORROSION OF STEEL IN THREE LOW-CARBON CONCRETES: LOW-CLINKER, ALKALI-ACTIVATED SLAG AND SUPERSULFATED CEMENT | Lola Doussang, Gabriel Samson, Fabrice Deby, Bruno Huet, Emmanuel Guillon, Martin Cyr | |
| | 12:00 | 12:15 | CORROSION ASSESSMENT OF EMBEDDED STEEL IN NANO-MODIFIED SEAWATER-MIXED CONCRETE | Sundar Rathnarajan, Pawel Sikora | |
| | 12:15 | 12:30 | THE INFLUENCE OF CARBONATION ON THE PENETRATION DEPTH OF HYDROPHOBIC SEALANTS IN CONCRETE WITH VARIOUS BINDER TYPES | Tais Mei Dos Santos Soares, Hans Beushausen, Joanitta Ndawula | |
| | 12:30 | 12:45 | DISCUSSION | | |
| | 12:45 | 13:00 | DISCUSSION | | |
| 13:00 - 14:00 | lunch break - poster session | | | | |
| | 14:00 | 14.15 | SERVICE LIFE OF REINFORCED CONCRETE (RC) SYSTEMS WITH CORROSION INHIBITING ADMIXTURES | Shefali Aggarwal, Radhakrishna Pillai | |
| | 14:15 | 14:30 | ELECTROCHEMICAL MONITORING OF REINFORCED CONCRETE WITH PLANT-BASED CORROSION INHIBITOR | Natalia Delbianco, Rocio Peralta Ring, Carla Priano, Edgardo Fabian Irassar | |
| | 14:30 | 14:45 | EFFECT OF STRAY CURRENTS FROM DC-POWERED RAIL SYSTEMS ON THE DURABILITY AND STRENGTH OF REINFORCED CONCRETE COLUMNS | Igor Lapiro, Kovler Konstantin, Eid Rami | |
| 14:00 – 16:00 | 14:45 | 15:00 | INVESTIGATION OF CATHODIC PROTECTION OF REINFORCED CONCRETE COVERED WITH BIOFILMS FOR THE APPLICATION OF FOWTS | Deeksha Arya Margapuram, Marie Salgues, Raphael Lami, Benjamin Erable, Michel Groc, | |
| | 15:00 | 15:15 | INTERPRETATION OF ELECTROCHEMICAL RESPONSES TO UNDERSTAND THE CORROSION INITIATION OF PRESTRESSING STEEL IN SLAG BASED BINDERS | Sreelakshmi S, Radhakrishna Pillai | |
| | 15:15 | 15:30 | DISCUSSION | | |
| | 15:30 | 15:45 | DISCOSSION | | |
| 16:00-16:30 | | | coffee break - poster session | | |































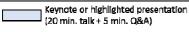
Characterisation and modelling on small scales

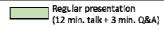
Topic & Session Chairs: Prof. Amine Bouibes, Prof. Laurie Lacarrière

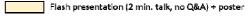
Wednesday 28 August

| Time slot | start | end | Title | Authors | | |
|---------------|-------------------------------|------------------------------|---|---|--|--|
| 11:00 – 13:00 | 11:00 | 11:25 | UNDERSTANDING CEMENT PASTE COHESION AND DEGRADATION MECHANISMS FROM ATOMISTIC MODELLING | Roland Pellenq | | |
| | 11:25 | 11:40 | ADVANCED SUSTAINABLE GRAPHENE NANO-COATED GEOPOLYMER MATERIALS | Ali Zaoui | | |
| | 11:40 | 11:55 | ATOMIC STRUCTURE OF CALICUM SILICATE HYDRATES: BULK AND SURFACE STRUCTURE | Aslam Kunhi Mohamed, Ziga Casar, Bowen Paul, Karen Scrivener | | |
| | 11:55 | 12:10 | MICROSCOPIC MECHANISM OF CREEP BEHAVIOR IN CALCIUM SILICATE HYDRATES: REAXFF-BASED MOLECULAR DYNAMICS STUDY | Ouail Reguieg, Amine Bouibes, Laurie Lacarrière | | |
| | 12:10 | 12:25 | ENHANCING NANOMECHANICAL AND MICROSTRUCTURAL PROPERTIES OF CEMENT COMPOSITES WITH CARBON NANOFIBERS AND GRAPHITIZED MULTI-WALLED CARBON | Salim Barbhuiya, Bibhuti Das | | |
| | 12:25 | 12:40 | EXPLORING THE IMPACT OF IRON (FE) DOPING ON ETTRINIGTE STABILITY IN CEMENT- BASED MATERIALS : INSIGHTS FROM ATOMISTIC SIMULATIONS | Majdouline Laanaiya, Amine Bouibes, Laurie Lacarrière | | |
| | 12:40 | 12:55 | TOWARD A COMPUTATIONAL MOLECULAR TECHNOLOGY FOR COMPLEX REACTION SYSTEMS IN CEMENTITIOUS MATERIALS: THE RED MOON APPROACH | Masataka Nagaoka, Amine Bouibes, Ouail Reguieg, Laurie Lacar | | |
| 13:00 - 14:00 | | lunch break - poster session | | | | |
| 14:00-16:00 | 14:00 | 14:15 | WHY MUD IS STICKY (OR, HOW CLAY PARTICLES INTERACT ACROSS THIN WATER FILMS) | lan Bourg | | |
| | 14:15 | 14:30 | ASR PRODUCTS AT THE MOLECULAR AND COLLOIDAL SCALE | Tulio Honorio | | |
| | 14:45 | 15:00 | DEFORMATION BEHAVIOR OF SYNTHETIC MAGNESIUM SILICATE HYDRATE PASTES WITH VARIOUS MG/SI RATIOS AT THE ATOMIC SCALE | Sumin Im, Sungchul Bae | | |
| | 15:02 | 15:17 | BRIDGING FROM NANO-SCALE MODEL TO CHEMICAL KINETICS IN REAL TIME DOMAIN WITH THE REDMOON METHOD: APPLICATION TO POLYOLEFIN SYNTHESIS BY | Kentaro Matsumoto | | |
| | 14:30 | 14:45 | STRUCTURAL, MECHANICAL AND VIBRATIONAL PROPERTIES OF THAUMASITE FROM CLASSICAL ATOMISTIC SIMULATIONS | Evgeny Tararushkin, Andrey Kalinichev | | |
| | 15:00 | 15:02 | STRUCTURE AND PROPERTIES OF CALCIUM ALUMINATES AS ADSORBENTS FOR ANIONIC RADIONUCLIDES | Artem Glushak, Evgeny Tararushkin, Grigory Smirnov, Andrey K | | |
| | 15:17 | 15:19 | MOLECULAR DYNAMICS SIMULATION FOR MULTIFUNCTIONAL SMART CONCRETE | Xiaohui Jia, Olivier Plé, Anna Lushnikova | | |
| | 15:19 | 15:21 | EFFECT OF BIO-SOURCED ADDITIONS AND WATER CONTENT ON MECHANICAL PROPERTIES OF KAOLINITE : A MOLECULAR DYNAMICS APPROACH | Ruifeng Di, Olivier Plé, Anna Lushnikova | | |
| 16:00-16:30 | coffee break - poster session | | | | | |





























Circular Economy, Life Cycle Analysis, Regional Practices

Session Chair: Prof. Gilles Escadeillas

Thursday 29 August

| Time slot | start | end | Title | Authors | | |
|---------------|-------|-------------------------------|--|---|--|--|
| | 14:00 | 14:15 | A LITERATURE REVIEW FOR MEASURING CIRCULAR ECONOMY IMPLEMENTATION IN THE BUILT ENVIRONMENT | Maher Hodroj, Christelle Tribout, Gilles Escadeillas | | |
| | 14:15 | 14:30 | REUSE OF STRUCTURAL CONCRETE COMPONENTS IN NEW BUILDINGS – DOCUMENTATION | Lisbeth M. Ottosen, Katja I.M. Thygesen, Serkan Karatosun, Thomas Ingeman-Nielsen, Karoline Gustafsson, Jan-Erik | | |
| | 14:30 | 14:45 | THE RENAISSANCE OF REUSE IN NORWAY - WHAT'S OLD IS NEW AGAIN | James Kallaos | | |
| | 14:45 | 15:00 | RECOVERY OF HIGH-PURITY CEMENT PASTE FROM CONCRETE WASTE | Rohit Prajapati, Julian Allwood, Cyrille Dunant | | |
| | 15:00 | 15:15 | DINABAU: INTEGRATING DIGITAL BUILDING MODELS FOR TEACHING SUSTAINABLE CONSTRUCTION WITH RENEWABLE RESOURCES | Aline Gruner, Florian Kopf, Dominik Schöne, Katharina Kleinschrot, Katharina Meyer, Michael Engelmann | | |
| | 15:15 | 15:30 | THE UTILIZATION OF RECYCLED CELLULOSE IN CEMENTITIOUS MATERIALS | David Law, Chamini Liyanage, Chamila Gunasekara | | |
| 14:00-16:30 | 15:30 | 15:45 | A POSSIBLE RE-USE OF SHEEP WOOL IN CONCRETE | Giuliana Somma | | |
| 14.00-10.30 | 15:45 | 16:00 | A SUSTAINABLE CONSTRUCTION PERSPECTIVE: INDUSTRIAL APPLICATION OF GEOPOLYMER CONCRETE IN BLOCK MANUFACTURING | Gaone Koma, Patrick Müller | | |
| | 16:00 | 16:15 | ENVIRONMENTAL IMPACTS OF ONE-PART ALKALI ACTIVATED SLAG-BASED CONCRETE | Jayashree Sengupta, Nirjhar Dhang, Arghya Deb | | |
| | 16:15 | 16:17 | WASTE CONCRETE FINES AS A SUSTAINABLE ALTERNATIVE FOR CEMENT MORTAR | Haripan Vislavath, Ravindra Gettu , Manu Santhanam | | |
| | 16:17 | 16:19 | RECYCLING OF MATERIALS FROM RENOVATION AND DEMOLITION OF BUILDING STRUCTURES | Slawomir Czarnecki, Marlena Moj | | |
| | 16:19 | 16:21 | INVESTIGATING THE POZZOLANIC REACTION OF GLASS FIBRES - THERMOSET RESIN COMPOSITES POWDER IN CEMENT PASTE | Natalia Lora Acevedo, Hela Bessaies-Bey, Thierry Sedran, Radhouane Masmoudi, Loïc Divet, Arezki Tagnit-Hamou, | | |
| | 16:21 | 16:23 | CHARACTERIZATION OF CONCRETE PRODUCTION IN PANAMA FROM AN ENVIRONMENTAL PERSPECTIVE: WATER AND ENERGY | Yazmin L. Mack-Vergara, Luis Sulbarán, Yamileth Lima | | |
| | 16:23 | 16:25 | BALANCING CIRCULARITY AND DECARBONISATION POTENTIAL OF CONCRETES WITH RECYCLED AGGREGATES | Bruno Fernandes, Hisham Hafez, Susan Bernal, Leon Black | | |
| 16:00 - 17:00 | | coffee break - poster session | | | | |



Caption:







Keynote or highlighted presentation (20 min. talk + 5 min. Q&A)







Regular presentation (12 min. talk + 3 min. Q&A)







Flash presentation (2 min. talk, no Q&A) + poster

