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| **13th fib PhD on line symposium 2020**Program(Paris time zone = GMT+2)Each speaker has 15’ for the presentation of the paper and 10’ for the questions. |  |

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|  | Webinar room A | Webinar room B |
| Wednesday, August 26th 2020 |
| 9h30-10h00 | Opening of the symposiumProf. Jean-Michel TorrentiProf. Tor-Ole OlsenProf György L. Balázs |  |
| 10h-12h session 1 | Session 1A – Innovation in materials and structuresChairmen:Prof György L. BalázsProf Sofiane AmzianeDr Sándor Solyom | Session 1B – structural analysis and designChairmen:Prof. Akio Kasuga Dr. Briffaut MatthieuDr Motohiro Ohno |
| 10h-10h30 | Application of bonding the concrete mixture to reinforcement in steel-concrete composite structures*Olexandr Horb, Yurii Davydenko, Shkurupii Olexandr, Mytrofanov Pavlo* | Masonry strengthening under the combined action of vertical and horizontal forces*Dmytro Usenko, Oksana Dovzhenko, Volodymyr Pohribnyi, Oleksandr Zyma* |
| 10h30-11h | Development of new-generation, biodegradable board thermal insulation*Dániel Csanády, Olivér Fenyvesi* | Model uncertainty quantification for column removal scenario calculations using the energy-based method*Luchuan Ding, Wouter Botte, Ruben Van Coile, Robby Caspeele* |
| 11h-11h30 | Effects of using polypropylene and steel fibres on Ultra High Performance Concrete subjected to elevated temperatures*Ahmed Seyam, Samir Shihada, Rita Nemes* | Characterization of the anisotropic tensile response of UHPFRC*Rui Valente, Aurelio Sine, Mário Pimentel, Sandra Nunes* |
| 11h30-12h00 | Experimental and numerical investigation of bond behaviour of synthetic macro-fibre in concrete*Mantas Garnevičius, Linas Plioplys, Viktor Gribniak* |  |
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| 14h-16h30 | Session 1A – Innovation in materials and structuresChairmen:Prof. Harald S. MüllerDr. Arnaud PerrotDr. Joao Pacheco | Session 1B – structural analysis and designChairmen:Prof Tor-Ole OlsenBruno Godart Dr. Graham Webb |
| 14h-14h30 | Experimental investigation of reinforcement strategies for concrete extrusion 3D printed beams*Lukas Gebhard, Jaime Mata-Falcón, Ana Anton, Benjamin Dillenburger, Walter Kaufmann* | Dimensioning Approach of Partially Prestressed Concrete Beams, Optimization of Simply Supported Beams*Abdel Nour Nadim* |
| 14h30-15h | Influence of constant hygric stress on the load-bearing behaviour of high-performance solid absorber made of high-strength fibre concrete*Martin Kiesche, Prof. Dr.-Ing. Matthias Pahn* | Effects of unidirectional tensile stresses on punching shear of RC slabs*Pablo Fernandez, Antonio Mari, Eva Oller, Magi Domingo* |
| 15h-15h30 | Influence of matrix properties and embedded length on the pull-out behaviour of yarns in cement/calcareous filler matrices*Anne-Claire Slama, Jean Louis Gallias, Bruno Fiorio* | Experimental Study on Flexural Behavior of Concrete Girders Prestressed with Stainless Steel Strands*Anwer Al-Kaimakchi, Michelle Rambo-Roddenberry* |
| 15h30-16h | Load-deformation behaviour of concrete tension ties with weft-knitted textile reinforcement*Minu Lee, Jaime Mata-Falcón, Walter Kaufmann* |  |
| 16h-16h30 | Mechanical and mineralogical characteristics of mortars with crushed and river sand*Emmanuel Elat, Albert Noumowé, Prosper Pliya, Alexandre Pierre, Michel Mbessa, Myriam Duc* |  |
| Thursday, August 27th 2020 |
| 9h-10h | Keynote: Bernard Mathieu - Concrete in a carbon-neutral economy: an existential challenge!Chairwoman: Dr. Sandrine Mansoutre |
| 10h-10h30 | Coffee break |
| 10h30-12h | Session 1A – Innovation in materials and structuresChairmen:Prof. Frank DehnProf. Ahmed LoukiliDr Nikola Tosic | Session 1B – structural analysis and designChairmen:Prof. Fabrice GatuingtDr. Andreas Sjaastad |
| 10h30-11h | Numerical study on the micro-mechanical behaviour of artificial granular materials*Mohamed Amine Benmebarek, Majid Movahedi Rad* | General method of structural analysis of reinforced concrete columns under axial load and biaxial bending*Bogdan Barylyak, Andrii Pavlikov, Olha Harkava* |
| 11h-11h30 | Residual stiffness analysis of flexural concrete elements with composite reinforcement systems*Haji Akbar Sultani, Viktor Gribniak, Arvydas Rimkus, Lluis Torres, Aleksandr Sokolov* | Impact of Modulus of Elasticity on Deflections of Concrete Structures*Radek Vasatko* |
| 11h30-12h00 | The Applicability of Superabsorbent Polymer as a Protective Carrier in the Bio-based Self-healing Concrete*Hana Schreiberova, Josef Fladr, Alena Kohoutkova, Tomas Trtik, Seps Karel, Zdenek Prosek* |  |
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| 14h-16h30 | Chairmen:Prof. Petr HajekProf. Olivier Plé Dr. Vladyslav Shekhotsov | Chairmen:Prof. Aurelio MuttoniDr François ToutlemondeDr. Marta del Zoppo |
| 14h-14h30 | Wood Ashes from Electrostatic Filter as a Replacement for the Fly Ashes in Concrete*Piotr-Robert Lazik, Harald Garrecht* | Numerical Plastic Analysis of Non-Prismatic RC Beams Strengthened by CFRP*Sarah Khaleel Ibrahim, Majid Movahedi Rad* |
| 14h30-15h | Sealing of service penetrations in timber buildings with the method wood in wood*Thomas Scherer, Dirk Lorenz, Catherina Thiele* | Punching shear at edge flat slab-column connections*Deema Abu-Salma, Robert Vollum, Lorenzo Macorini* |
| 15h-15h30 | Drying shrinkage and mechanical properties of concrete based on Corbicula shells, from river sediments, as coarse aggregates*Hamza Beddaa, Amor Ben-Fraj, Francis Lavergne, Jean-Michel Torrenti* | Simplification of the procedure for determining the fire resistance of heat insulating brickwork*Heiner Kruse, Catherina Thiele, Christian Glock* |
| 15h30-16h | Influence of the sizes and the loading platform form on the strength of concrete elements at local compression*Iryna Kuznietsova, Oksana Dovzhenko, Volodymyr Pohribnyi, Iryna Usenko* | The change of stress-strain state in biaxial bended reinforced concrete Т-section beams depending on the load*Yuliia Prykhodko, Andrii Pavlikov* |
| 16h-16h30 |  | Bond behavior between high strength concrete and steel reinforcement under high cycle fatigue push-in loading*Homam Spartali, Abedulgader Baktheer, Benjamin Camps, Josef Hegger, Rostislav Chudoba* |
| Friday, August 28th 2020 |
| 9h30-12h00 | Session 2A – durability and life assessmentChairmen:Prof. Hugo CorresProf. Karim Aït-MokhtarDr. Motohiro Ohno | Session 2B – monitoring and structural assessmentChairmen:Prof. Joost WalravenDr Jean Luc ClémentDr. Vladyslav Shekhotsov |
| 9h30-10h | Accelerated carbonation of recycled concrete aggregates*Marie Sereng, Assia Djerbi Tegguer, Othman Omikrine-Metalssi, Patrick Dangla, Jean-Michel Torrenti* | Validation of a numerical model for singly reinforced corroded concrete beams*Hussein Nasser, Charlotte Van Steen, Rutger Vrijdaghs, Lucie Vandewalle, Els Verstrynge* |
| 10h-10h30 | Leaching of concrete : a comparison of performance indicators*Aliénor Gauthier, Emmanuel Rozière, Benoit Hilloulin, Ahmed Loukili* | A new assessment methodology for fair-faced concrete surfaces based on digital image processing*Kitti Ajtayné Károlyfi, András Horváth, Ferenc Papp* |
| 10h30-11h | Fracture mechanics parameters in assessment of high strength concrete's frost degradation*Sylwia Borowska, Marta Kosior-Kazberuk* | Carbon-fibred mortar: Effect of sand content and grain size distribution on electrical properties*Hamza Allam, François Duplan, Jean-Pierre Clerc, Sofiane Amziane, Yves Burtschell* |
| 11h-11h30 |  | Transmission length test for prestressing cable after loss of mechanical anchorage*Rafał Walczak* |
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| 14h-15h | Session 2A – durability and life assessmentChairmen:Prof. Marco di PriscoProf. Farid BenboudjemaDr Marta del Zoppo  |  |
| 14h-14h30 | Numerical Modelling for Reactive Transport due to the Water-dependent Activities within Building Materials*Qingxiang Xiong, Fekri Meftah* |  |
| 14h30-15h | Numerical investigations on the influence of concrete cover on bond behavior of reinforcement in concrete after fire*Arunita Das, Akanshu Sharma, Josipa Bosnjak* |  |
| 15h-16h | Closing ceremony (Jean-Michel)EFB awards (Sandrine Mansoutre)MasterBuilders Solutions awards (Vanessa Schueltke)Fib awards (Tor-Ole Olsen and György L. Balázs.)& presentation of the 14th fib PhD symposium in Italy (Marco di Prisco) |