



Microdurability2020.com

28 - 30 April 2021

The Hague, The Netherlands



Co-Sponsors:



Organizers:



The 4th International RILEM conference
Microstructure Related Durability of Cementitious Composites
28 - 30 April 2021, Den Haag (The Hague) – The Netherlands

Microdurability pre-conference Webinar 12 – 13 October 2020

Programme

Day 1: 12:00 – 16:00 (CET), 12 October 2020

Time	Speaker	Title
12:00 – 12:15	Miao Changwen Klaas van Breugel	Opening
Session 1 (Chair: Guang Ye)		
Keynote lecture 1		
12:15 – 12:45	Prof. Barbara Lothenbach Empa, Switzerland	Durability of cementitious materials
12:45 – 13:15	Dr. Jorge Sanchez Dolado CSIC, Spain	The usefulness of “useless” nanoscience for improving cementitious durability
Selected paper 1		
13:15 – 13:30	Tobias Danner, Karla Hornbostel, Mette Geiker: Self-healing and chloride ingress in cracked cathodically protected concrete exposed to marine environment for 33 years	
13:30 – 13:45	Zijian Jia, Yamei Zhang: In-situ leaching behavior of Portland cement paste in different solution	
Session 2 (Chair: Erik Schlangen)		
Keynote lecture 2		
13:45 – 14:15	Prof. Ippei Maruyama Nagoya University, Japan	Microstructure change of concrete under Neutron and Gamma-Ray Irradiation
14:15 – 14:45	Prof. Liu Jiaping Southeast University, China	Recent development on influence of chemical admixtures on Microstructure and durability of concrete
14:45 – 15:15	Dr. Ruben Snellings VITO, Belgium	Negative carbon construction materials from industrial residues – a case for circular economy
Selected paper 2		
15:15 – 15:35	Carmen Andrade: Quantify water permeability and pore size through capillary absorption	
15:35 – 15:55	Karen Scrivener: Developing a generic approach to durability	
16:00 End of day 1		

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Day 2: 12:00 – 16:00 (CET), 13 October 2020

Time	Speaker	Title
Session 3 (Chair: Yamei Zhang)		
Keynote lecture 3		
12:00 – 12:30	Prof. Susan Bernal Lopez Leeds university, UK	The materials science underpinning the long-term performance of alkali-activated concretes
12:30 – 13:00	Prof. Yan Peiyu Tsinghua University, China	The hydration characteristics of slag in cement-slag complex binder and the microstructural variation of hardened paste under the condition of leaching by soft water
Selected paper 3		
13:00 – 13:15	Zhenming Li, Shizhe Zhang, Xuhui Liang, Guang Ye: Cracking potential of alkali-activated slag and fly ash concrete subjected to restrained autogenous shrinkage	
13:15 – 13:30	Tyler Oesch, Frank Weise, Heidi Marx, Mario Kositz, Klaus-Juergen Huenger: Analysis of the porosity of alkali-sensitive aggregates for the assessment of microstructure-dependent solubility in the context of ASR	
Special session introduction (Guang Ye)		
13:30 – 13:45	Dr. Zhenguo Shi Empa, Switzerland	Alkali silicate reaction
13:45 – 14:00	Dr. Marija Nedeljković Delft University of Technology/ TNO	Carbonation
14:00 – 14:20	Dr. Zuhua Zhang/Stijn Matthys Hunan University/ Ghent University	Alkali-activated materials in conjunction with midterm workshop of ITN-DuRSAAM
Session 4 (Chair: Klaas van Breugel)		
Selected paper 4		
14:20 – 14:35	Yuya Takahashi, Fuyuan gong, Koichi Maekawa: Analytical study about the expansion progress of concrete exposed to combined alkali silica reaction and freezing thawing cycles.	
14:35 – 14:50	Nafiseh Ebrahimi, Amin Ghaziaskar, Jon M. Makar: Electrochemical reactions between iron sulphide minerals and their implications for concrete durability	
Keynote lecture 4		
14:50 – 15:20	Prof. Gaurav N. Sant Samueli School of Engineering, UCLA, United States	Machine learning applied to enhance and ensure concrete's durability and engineering performance
15:20 – 15:50	Prof. Doug Hooton University of Toronto, Canada	Understanding the differences between chemical and physical degradation mechanisms that can occur in similar exposure
15:50	Looking forward to the Microdurability conference in April 2021, Den Haag	
16:00	Closure	

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