

Semion Zhutovsky

Biography

Dr. Semion Zhutovsky joined the Faculty of Civil and Environmental Engineering in October 2016. He completed his Ph.D. in Civil Engineering at the Technion – Israel Institute of Technology in 2013. After obtaining his Ph.D. degree he continued to work in National Building Research Institute as a researcher. In 2014-2016 he continued his research and teaching work as a Postdoctoral Fellow in University of Toronto, Canada.

Research Interests

Dr. Semion Zhutovsky is the head of the Laboratory of Alternative Binders. His main research interests include High-Performance Concrete, Internal Curing, Shrinkage and Cracking of Concrete, Early-Age Properties of Concrete, Durability and Sustainability of Cementitious Materials, Sulfate Attack in Cementitious Materials, Supplementary Cementitious Materials and Alternative Binders, Behavior of Cement Paste, Mortar and Concrete under Extremely High Hydrostatic Pressure.

Teaching Interests

Construction materials, Concrete Technology, Building Physics

Selected Publications

- Zhutovsky, S., and Kovler, K., (2013), “Hydration kinetics of high-performance cementitious systems under different curing conditions”, *Materials and Structures*, 46 (10), 1599-1611.
- Zhutovsky, S., and Kovler, K., (2017), “Application of ultrasonic pulse velocity for assessment of thermal expansion coefficient of concrete at early age”, *Materials and Structures*, 50 (1).
- Zhutovsky, S., and Hooton, R.D., (2017), “Experimental study on physical sulfate salt attack”, *Materials and Structures*, 50 (1).
- Zhutovsky, S., and Hooton, R.D., (2017), “Accelerated testing of cementitious materials for resistance to physical sulfate attack”, *Construction and Building Materials*, 145, 98-106.
- Karinski, Y.S., Yankelevsky, D.Z., Zhutovsky, S., and Feldgun, V.R., (2018), “High-pressure uniaxial confined compression tests of mortars”, *Construction and Building Materials*, 165, 523-532.

Selected Awards and Honors

Mr. Semion Zhutovsky received Lion Sachs Postdoctoral Fellowship (2014), Rachel Shalon prize (2014), Jacobs (2009) and Neeman (2008) excellence scholarships.

Education

- Ph.D. in Civil Engineering, Faculty of Civil and Environmental Engineering, Technion – Israel Institute of Technology, Haifa, Israel, 2013
- M.Sc. in Civil Engineering, Faculty of Civil and Environmental Engineering, Technion – Israel Institute of Technology, Haifa, Israel, 2001
- B.Sc. (Cum Laude) in Civil Engineering, Faculty of Civil and Environmental Engineering, Technion – Israel Institute of Technology, Haifa, Israel, 1999