

SeungHee Kwon

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EDUCATION

KAIST, Daejeon , Korea (South)

Doctor of Engineering in Civill Engineering, February 2005

- Thesis: "Creep of concrete under multiaxial compression"

KAIST, Daejeon , Korea (South)

Master of Engineering in Civill Engineering, February 2000

- Thesis: "Long-term behavior of concrete-filled steel tubular column"

KAIST, Daejeon , Korea (South)

Bachelor of Engineering in Civill Engineering, February 1998

RESEARCH AND TEACHING INTERESTS

Estimation of performance on concrete pumping

Long-term behavior of concrete (creep and shrinkage)

Estimation of rheological properties of concrete and slip-layer

PUBLICATION

“State of the Art on Prediction of Concrete Pumping”, Korea Concrete Institute, International Journal of Concrete Structures and Materials, 2016

“Ductility enhancement of 60-m long span prestressed concrete girder using new high strength prestressed strands (2,160 and 2,400 MPa)”, Korea Institute for Structural Maintenance and Inspection, Journal of Structural Integrity and Maintenance, 2016

“Effect of Admixtures on the Yield Stresses of Cement Pastes under High Hydrostatic Pressures”, MDPI AG, MATERIALS, 2016

“Effect of Admixtures on Pumpability for High-Strength Concrete”, American Concrete Institute, ACI Materials Journal, 2016

“Estimation of rheological properties of UHPC using mini slump test”, ELSEVIER SCI LTD, CONSTRUCTION AND BUILDING MATERIALS, 2015

“Effect of wide-flange-steel geometry on the long-term shortening of steel-reinforced concrete columns”, ICE PUBLISHING, MAGAZINE OF CONCRETE RESEARCH, 2015

“Numerical analysis for behavior of outer concrete tank in emergency LNG spillage”, TECHNO-PRESS, COMPUTERS AND CONCRETE, 2014

PRESENTATIONS

“Statistical analysis of pit depths of corroded post-tensioned strands according to different chloride condition in a real bridge on service”, 7th International Conference on Advances in Experimental Structural Engineering, PAVIA RISK CENTRE, Republic of Korea, September, 2017

“Effect of Coarse Aggregate Sizes on SCC Pumpability ”, ACI Convention 2015 Spring, Kansas City, USA, 2015

“Numerical Approach to Estimate Liquid Tightness of Outer Concrete Tank in Emergency LNG Spillage”, The 2013 world congress on advances in structural engineering and mechanics (ASEM13), Republic of Korea, September, 2013

“KCI database of test data for creep and shrinkage of concrete”, The 2013 world congress on advances in structural engineering and mechanics (ASEM13), Republic of Korea, September, 2013

VOLUNTARY ACTIVITIES

- Chief, Committee of High Performance Concrete in Korea Concrete Institute, January 2017-Present
- Assistant Administrator, Journal of the Korea Concrete Institute, January 2017-Present
- Associate editor, KSCE Journal of Civil Engineering, January 2016-Present

RESEARCH EXPERIENCE

Myong-Ji University, Yongin, Korea (South), Principal Investigator, September 2014-October 2017

- Performed an experimental research of “Development of Manufacturing Technologies, Material Models and Guidelines for SUPER Concrete with Compressive Strength of 80~180 MPa” sponsored by Korea Agency for Infrastructure Technology Advancement.

Myong-Ji University, Yongin, Korea (South), Principal Investigator, April 2017-December 2017

- Performed an experimental research of “Investigation of the mechanism on variation of workability and rheological properties of concrete during pumping under the pressure of 200 bar” sponsored by Korea Agency for Infrastructure Technology Advancement.

Myong-Ji University, Yongin, Korea (South), Principal Investigator, September 2014-October 2017

- Performed an experimental research of “Development of the slip-layer activation system to reduce pressure required to concrete pumping in more than 20%” sponsored by Korea Agency for Infrastructure Technology Advancement.

Myong-Ji University, Yongin, Korea (South), Principal Investigator, November 2016-October 2017

- Performed an experimental research of “Development of a core technology to enhance pumping efficiency of concrete” sponsored by National Research Foundation of Korea.

REFERENCES