

MOON WON
Professor of Civil, Environmental and Construction Engineering
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Professional Preparation

B.S. in Civil Engineering, Seoul National University, Seoul, Korea, 1984
M.S in Civil Engineering, The University of Texas at Austin, 1987
Ph. D. in Civil Engineering (transportation), The University of Texas at Austin, 1989

Professional Chronology

Professor of Civil, Environmental and Construction Engineering, Texas Tech University (2008-present)
Research Associate, Center for Transportation Research, The University of Texas at Austin (2004-2008)
Design/Research/Materials Engineer, Texas Department of Transportation (1990-2004)

Research Interests

Design, behavior, performance, evaluations and repair of rigid pavement
Portland cement concrete materials
Forensic evaluations of failures in rigid pavements and concrete structures

Synergistic Activities/Committee Membership

1. Editorial Board – International Journal of Concrete Structures and Materials
2. ACI Committee 325 – Concrete Pavement
3. TxDOT Concrete Pavement Working Group
3. Beijing-Seoul-Tokyo International Concrete Pavement Conference Committee

Selected Publications (Last 3 years)

1. Choi, P., Kim, D.-H., Lee, B.-H., Won, M.-C. (2016). Application of ultrasonic shear wave tomography to identify horizontal crack or delamination in concrete pavement and bridge. *Construction and Building Materials*, 121, 81-91.
2. Choi, S., Na, B., Won, M.-C. (2016). Mesoscale Analysis of CRCP Behavior Subjected to Environmental Loading. *Construction and Building Materials*, 121, pp. 81-91
3. Choi, P., Kim, D.-H., Lee, B.-H., Won, M. (2016). Evaluation of structural responses of CRCP using falling weight deflectometer. *Canadian Journal of Civil Engineering*, 43(1), pp. 28-39
4. Chen, D. H., Choi, P., Chen, K. Y., Won, M.-C. (2016). Slot stitching for longitudinal joint separation repairs. *Construction and Building Materials*, 115, 153-162.
5. Choi, S., Ha, S., and **Won, M.** (2015) "Mechanism of Transverse Crack Development in Continuously Reinforced Concrete Pavement at Early Ages" *Transportation Research Record 2524*, Transportation Research Board, National Research Council, Washington D.C., pp. 42-58.
6. Zhou, W., Choi, P., Ryu, S., and **Won, M.** (2015) "Evaluation of Pavement Support for Pavement Design," *ASCE Journal of Transportation Engineering*, ASCE, Vol 141, No. 9
7. Chen, D. and **Won, M.** (2015) "CAM and SMA mixtures to delay reflective cracking in PCC pavements," *Journal of Construction and Building Materials*, Vol. 96, pp. 226 - 237.
8. Zhou, W., Choi, P., Saraf, S., Ryu, S. and **Won, M.** (2014) "Premature Distresses at Transverse Construction Joints in Continuously Reinforced Concrete Pavement," *Journal of Construction and Building Materials*, Vol. 55, pp. 212- 219.