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Professor of Civil, Environmental and Construction Engineering
Texas Tech University
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Professional Preparation

B.S. in Civil Engineering (with Honors), Seoul National University, Seoul, Korea, 1984
M.S in Civil Engineering, The University of Texas at Austin, 1987
Ph. D. in Civil Engineering, 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/Materials Engineer (State Concrete 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

Selected Publications (Last 3 years)

1. Poudyal, L., Adhikari, K., Won, M. (2021). Mechanical and Durability Properties of Portland Limestone Cement (PLC) Incorporated with Nano Calcium Carbonate (CaCO₃). *Materials*, 905(14).
2. Hong, G., Kim, J., Yeon, J. H., Won, M., Choi, S. (2021). Comparison of Stress Fields near Longitudinal Construction Joints of Tied and Doweled Sections in Portland Cement Concrete Pavements. *Sustainability*.
3. Rouzmehr, F., Choi, P., Nam, J., Won, M. (2021). Improvements of Quality Assurance Testing Program for Subgrade and Base Layer Construction. *Construction and Building Materials*, 310(125157).
4. Jeon, S., Choi, P., Won, M. (2021). Punchout evaluations and classification of continuously reinforced concrete pavement to improve pavement design. *Road Materials and Pavement Design*, 22(7), 1481-1499.
5. Poudyal, L., Adhikari, K., Won, M. (2021). Nano Calcium Carbonate (CaCO₃) as a Reliable, Durable and Environment-Friendly Alternative to Diminishing Fly Ash. *Materials*.
6. Choi, P., Poudyal, L., Rouzmehr, F., Won, M. (2020). Spalling in Continuously Reinforced Concrete Pavement in Texas. *Transportation Research Record*, 2674(11), 731-740.

Selected Presentations (Last 3 years)

1. Continuously Reinforced Concrete Pavement in Texas (Distinguished Lecture), TxDOT/Cement Council of Texas Concrete Conference (November 18, 2021, Austin Texas)
2. Rigid Pavement Design and Maintenance, Texas Department of Transportation Materials Academy (November 5, 2021, Austin Texas)