



EDUCATION

- Valparaiso University
 - Bachelor of Science, Civil Engineering, 2021
- University of Illinois Urbana-Champaign
 - Master of Science, Civil Engineering, 2023

PRACTICE AREAS

- Construction Materials
- Laboratory Evaluations
- Nondestructive Evaluation
- Research and Product Evaluation
- Durability Assessment

REGISTRATIONS

- ACI Concrete Field Testing Technician - Grade I
- ACI Concrete Laboratory Testing Technician - Level I
- ACI Masonry Laboratory Testing Technician

PROFESSIONAL AFFILIATIONS

- American Ceramic Society (ACerS)
- American Concrete Institute (ACI)

CONTACT

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EXPERIENCE

Since joining WJE in 2024, Drew Witte has gained experience on projects related to construction materials, including laboratory performance testing of various concrete, ceramic, and clay samples. He has performed nondestructive condition assessments of civil infrastructure and associated service life prediction of reinforced concrete structures.

Prior to joining WJE, Mr. Witte conducted research on microscopic characterization of supplementary cementitious materials and designed and evaluated low embodied carbon concrete mixtures. His research focused on characterizing the reactive amorphous phases present in coal fly ash using confocal Raman spectroscopy combined with local SEM-EDS.

REPRESENTATIVE PROJECTS

Construction Materials

- Chesapeake Bay Bridge/William Preston Lane Jr. Memorial Bridge - MD: Evaluation and testing of very high early strength concrete, including field instrumentation
- Low Embodied Concrete for Data Center Applications - IL: At-scale field demonstration of construction with emerging low carbon concrete materials
- IADOT - IA: Laboratory evaluation of polyester polymer concrete overlay bond strength
- Precast Parking Garage - Dallas, TX: Visual assessment and materials testing of lightweight concrete double tees

Laboratory Evaluations

- Yeh College and New College West - Princeton, NJ: Physical testing and efflorescence evaluation of calcium silicate brick
- Denison Main Street Improvements - TX: Strength and durability laboratory evaluation of clay brick
- Precast Concrete Pipe Durability: Corrosion rate and carbonation testing of drycast concrete pipe with varying crack widths

Nondestructive Evaluation

- INDOT RFP SR 46 - Columbus, IN: Bridge deck evaluation of Robert N. Stewart bridge, including polyester polymer concrete overlay
- IA-US 218 over Mud Creek - IA: Vibration monitoring of IADOT bridge during construction of adjacent bridge lanes

Research and Product Evaluation

- NanoCrete Graphene Testing: Raman spectroscopic evaluation of graphene type and purity
- Epoxy-Coated Reinforcing Steel: ASTM A775 prequalification testing
- Long-Term Bridge Performance Program: Review of state DOT policies for activities related to bridge deck de-icing, bridge deck repair, and rehabilitation

Durability Assessment

- Durability Consulting - International: Environmental exposure risk evaluation and durability design of structural concrete elements
- Chicago Transit Authority Red Line Extension - IL: Durability design of reinforced concrete bridge elements as part of a mainline design-build project