WJE

PERSONNEL QUALIFICATIONS

Karla A. Salahshour | Senior Associate



EDUCATION

- University of Texas at Austin
- Bachelor of Science, Architectural Engineering, 2010
- Master of Science, Civil Engineering, 2012

PRACTICE AREAS

- Petrography
- Laboratory Evaluations
- Construction Materials
- Historic Preservation
- Masonry
- EIFS, Stucco, Plaster
- Flooring and Underlayments
- Pavement Investigation

REGISTRATIONS

- ICRI Concrete Slab Moisture Testing Technician
- PE in AZ, KS, MD, NM, OH, and PA

PROFESSIONAL AFFILIATIONS

- American Concrete InstituteAssociation for Preservation
- Technology International
- ASTM International
- International Concrete Repair Institute
- Society of Concrete Petrographers

TECHNICAL COMMITTEES

- ACI 221 Aggregates
- ACI 232 Fly Ash in Concrete
- ACI 523 Cellular Concrete

CONTACT

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EXPERIENCE

Karla Salahshour specializes in the evaluation and characterization of historic and modern building materials. Her work in WJE's Cleveland materials laboratory focuses on the petrographic examination of concrete, mortar, grout, brick, stucco and plaster, natural and manufactured stone, and other construction materials. Ms. Salahshour investigates the causes of distress in construction materials, characterizes cementitious materials, and evaluates durability concerns in hardened concrete.

Ms. Salahshour also conducts field evaluations that often grade into laboratory testing, such as evaluating distress in concrete slabs and pavements and evaluating the performance of flooring and coating systems as well as investigating distressed reinforced concrete structures. Her field experience includes the investigation of stone cladding panels, mass masonry structures, terra cotta facades, EIFS and stucco systems, and terrazzo. These field evaluations often grade into laboratory testing.

REPRESENTATIVE PROJECTS

Petrography

- Carvins Cove Dam Roanoke, VA: Examination of deteriorated concrete due to alkali-silica reaction
- Blue Racer Natrium Plant Natrium, WV: Examination of fire-damaged concrete
- Medical Center Beachwood, OH: Investigation of lightweight cellular concrete
- Yale University, Welsh Hall New Haven, CT: Examination of stone masonry
- Denso Facility Livonia, MI: Examination of a pigmented metallic shake

Laboratory Evaluations

- Washington Dulles Airport Washington, D.C.: Evaluation of failed terrazzo flooring systems
- Ahuja Medical Center Beachwood, OH: Investigation of terra cotta rain screen panels
- Ohio State University, McCorkle Aquatic Pavilion - Columbus: Investigation of delaminated ceramic pool tiles
- Gilmore Academy Natatorium Gates Mills, OH: Investigation of pool coating blisters
- InfoCision Stadium Akron, OH: Investigation of rail post pocket grout

 Providence Point - Scott Township, PA: Examination of aggregate base course

Historic Preservation

- Washington National Cathedral -Washington, D.C.: Examination of mortar
- Hoover Dam Henderson, NV: Evaluation of terrazzo plaza
- Edison Monument Tower Menlo Park, NJ: Investigation of mosaic concrete repairs
- Union Theological Seminary New York, NY: Examination of cast stone spires
- Perry's Victory and International Peace Memorial - Put-In-Bay, OH: Observations of efflorescence cleaning and mortar repointing
- Salk Institute for Biological Studies La Jolla, CA: Evaluation of original concrete for restoration

Flooring and Underlayments

- Manufacturing Facility Solon, OH: Investigation of static dissipative floor coating failure
- Urgent Care Facility Kent, OH: Investigation of abrasion and impact damage on flooring material
- Medical Center Beachwood, OH: Evaluation of substrate slab moisture
- Rice University Houston, TX: Investigation of floor blisters
- Corning Museum of Glass Corning, NY: Evaluation of floor densifiers and sealers
- Houston Methodist Hospital Nassau Bay, TX: Investigation of blistered terrazzo flooring

Pavement Investigation

- Dallas/Fort Worth International Airport TX: Examination of concrete apron
- Los Angeles International Airport CA: Investigation of concrete runway
- Colorado Springs Airport CO: Investigation of D-cracking in pavement
- Indianapolis International Airport IN: Investigation of concrete surface distress
- Denver International Airport CO: Investigation of concrete deterioration and evaluation of concrete repairs
- Honda Plant OH: Evaluation of rollercompacted concrete
- Nova Place Pittsburgh, PA: Investigation of porous pavement distress

