

### Kathryn Francis Jaworski | Associate III



#### EDUCATION

- Johns Hopkins University
  - Bachelor of Science, Civil Engineering, 2006

#### PRACTICE AREAS

- Bridge Engineering
- Difficult Access Inspections
- Facade Assessment
- Failure Investigation
- Masonry Structures
- Repair and Rehabilitation Design
- Structural Evaluation

#### REGISTRATIONS

- AWS Certified Welding Inspector
- NHI Course 130055 - Safety IDOT Certified Bridge Inspection Team Leader
- Level 2 Lead Technician - Society of Professional Rope Access Technicians
- Inspection of In-Service Bridges
- NHI Course 130078 - Fracture Critical Inspection Techniques of Steel Bridges

#### CONTACT

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#### EXPERIENCE

Since joining WJE in 2006, Kathryn Francis Jaworski has been involved in a wide range of investigations of existing structures, including the assessment of buildings, tunnels, bridges, plazas, parking garages, and national monuments. Her projects have included assessments of both structural and building envelope performance involving deterioration, distress, leakage, wind damage, failure investigation, and evaluation of construction and design errors. Materials involved with these projects include steel, cast-in-place concrete, precast concrete, cast stone, limestone, granite, masonry, glass, wood, terra cotta, stucco, and EIFS.

The use of visual, nondestructive, and invasive survey techniques have been components of the condition assessment process. Ms. Jaworski has participated in several investigations requiring the use of WJE's Difficult Access Team, which utilizes industrial rope access techniques to perform inspection work when the use of traditional access equipment is not feasible.

Following field investigations, she has assisted in the development of remedial designs for structures, preparation of construction documents, and the resulting construction phase services.

#### REPRESENTATIVE PROJECTS

##### Bridge Engineering

- Illinois DOT - Cook County, IL: Fracture critical inspection of several fracture critical steel truss, steel girder, and moveable bascule bridge structures
- Iowa DOT: Corrosion study of epoxy-coated rebar in eight bridge decks using various NDT techniques including ground penetrating radar and comparison with evidence from core samples

##### Failure Investigation

- Central Artery/Tunnel Safety Audit - Boston, MA: Field inspection of structure and finishes of tunnel roadways and plenums after ceiling panel collapse

- David L. Lawrence Convention Center - Pittsburgh, PA: Field inspection of steel beam expansion joint connections and precast double-tee beams after collapse; weld inspection of retrofit beam seats
- Hurricane Ike - Houston, TX: Assessment of damage to cladding, curtain wall, and roofing components of several commercial high-rise buildings

##### Masonry Structures

- Washington National Cathedral - Washington, D.C.: Post-seismic damage assessment using industrial rope access techniques and repair recommendations
- Joseph Smith Memorial Building - Salt Lake City, UT: Weld inspection of connections supporting facade access equipment and terra cotta cladding assessment using industrial rope access techniques

##### Repair and Rehabilitation Design

- Chase Tower - Chicago, IL: Inspection, repair recommendations, and construction phase services for granite facade repairs and sealant installation
- Washington Metropolitan Area Transit Authority - Bethesda, MD: Visual and magnetic particle testing of repair welds within steel box girders of Red Line structure

##### Structural Evaluation

- Washington Monument - Washington, D.C.: Condition assessment of post-seismic damage using industrial rope access techniques and repair recommendations
- Perry's Victory and International Peace Memorial - Put-In-Bay, OH: Investigation of structural integrity of monument observation deck, instrumentation and load testing of plaza structure, and stone repair on fascia and shaft of monument
- Chicago Public School District - IL: Structural condition assessment, instrumentation, and load testing of reinforced concrete roof framing