PERSONNEL QUALIFICATIONS

Bryan M. Monahan |Associate Principal

EDUCATION

- The Pennsylvania State University
  - Bachelor of Architectural Engineering, 2001
  - Master of Architectural Engineering, 2001

PRACTICE AREAS

- Building Enclosure Commissioning
- Peer Review
- Structural Investigation
- Facade Assessment
- Failure Investigation
- Repair and Rehabilitation Design
- Building Envelope Assessment
- Leakage Investigation

REGISTRATIONS

- Professional Engineer in OH

PROFESSIONAL AFFILIATIONS

- ASTM International

TECHNICAL COMMITTEES

- ASTM E06.41 - Air Leakage and Ventilation Performance
- ASTM E06.55 - Performance of Building Enclosures

CONTACT

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EXPERIENCE

Bryan Monahan works with a wide range of investigations of structural, thermal performance, and building envelope failures. These investigations include systems and materials such as glazed curtain walls and windows; masonry; architectural terra cotta; dimension stone; and precast, post-tensioned, and cast-in-place concrete. Mr. Monahan's experience with structural repairs includes strengthening of conventional and concrete-encased structural steel members, retrofit of precast concrete panel connections, retrofit of timber truss connections, and lateral stabilization for timber frames. His building enclosure commissioning (BECx) experience includes all phases of process, including owner performance requirement and design development, peer review of construction documents, functional performance testing, construction observations, and warranty phase documentation.

In addition to working with WJE, Mr. Monahan was a Regional Manager at Architectural Testing Inc., in their York, Pennsylvania, office. He has given multiple presentations and lectures on building envelope testing, performance, and commissioning for The Pennsylvania State University, Bucknell University, the Architectural Glass and Metal Association (AGMA), and Sustainable Roofing Alliance (SRA). He has technical training in WUFI (Level I), THERM, Thermography (Level I) and has received Installation Masters training for Installation of Windows/Doors in Commercial Buildings.

REPRESENTATIVE PROJECTS

Building Enclosure Commissioning

- Williamsport Hospital Patient Tower Expansion - Williamsport, PA: Peer review, mockup evaluation, and construction phase services (consulting, inspections, testing)
- University of Pennsylvania, Translational Research Center - Philadelphia: Peer review; construction phase and warranty phase services for above-grade enclosure of 14 Level research and healthcare facility
- Wardman West Apartments - Washington, D.C.: Architectural and shop drawing reviews and mockup evaluation completed to date; inspections, functional performance testing program, and construction phase services to be completed
- Johns Hopkins New Clinical Building - Baltimore, MD: Architectural peer review and consulting services; inspection and testing services throughout construction

Structural Investigation

- South Avenue Parking Garage - Rochester, NY: Investigation of collapsed post-tensioned garage ramp and rapid evaluation of adjacent garage
- Central Artery/Tunnel Safety Audit - Boston, MA: Extensive evaluation of tunnel structure systems

Repair and Rehabilitation Design

- Kennedy Center for the Performing Arts - Washington, D.C.: Structural condition assessment and repair design
- PNC Park at North Shore - Pittsburgh, PA: Repair of distressed concrete caused by gypsum-based railing post pocket grout

Building Envelope Assessment

- Quicken Loans Arena - Cleveland, OH: Precast concrete cladding panel assessment
- Case Western Reserve University, Peter B. Lewis Building - Cleveland, OH: Thermal evaluation of building envelope

Leakage Investigation

- Ohio State University Scott Hall - Columbus, OH: Water leakage through terrace and membrane
- The Pennsylvania State University, Multisport Building - University Park, PA: Water leakage through storefront assembly