WJE

PERSONNEL QUALIFICATIONS

Elizabeth R. Pugh | Senior Associate



EDUCATION

- Purdue University
 - Bachelor of Science, Civil Engineering, 2012
- Illinois Institute of TechnologyMaster of Architectural
 - Engineering, 2013

PRACTICE AREAS

- Building Enclosure Consulting
- Computer Modeling
- Facade Assessment
- Water/Air Leakage Assessment
- Masonry Assessment
- Repair and Rehabilitation
- Roofing and Waterproofing
- Windows and Curtain Walls

REGISTRATIONS

- NFRC Certified Simulator
- Professional Engineer in IL and WI

PROFESSIONAL AFFILIATIONS

- American Society of Civil Engineers (ASCE)
- ASTM International
- National Fenestration Rating Council (NFRC)

CONTACT

epugh@wje.com 847.272.7400 www.wje.com

EXPERIENCE

Since joining WJE in 2014, Elizabeth Pugh has participated in a wide range of building enclosure investigations and repair projects. She has participated in facade investigations on a variety of structures. Ms. Pugh has performed investigations of moisture problems in buildings of all types, including in situ air pressurization, temperature measurements, and water penetration testing. She has assisted in the development of repair designs and has performed construction observations during the repair of building enclosures. Ms. Pugh has also assisted with design reviews of building enclosures in new construction. She is proficient in the use of AutoCAD and SketchUp to model building assemblies and develop detailing between enclosure system interfaces.

Ms. Pugh has particular expertise in building enclosure issues relating to moisture and condensation problems. She is an NFRC Certified Simulator, proficient in the use of THERM and WINDOW to analyze thermal performance and localized heat transfer effects in building enclosures. Ms. Pugh has also studied the use of advanced three-dimensional finite element analysis and computational fluid dynamics (CFD) software packages for building enclosure applications.

REPRESENTATIVE PROJECTS

- Building Enclosure Consulting
 Hospital Chicago, IL: Precast concrete facade investigation, condensation
- investigation, and construction observations
 Recreational Facility Southern IL: Moisture damage investigation, thermal analysis, development of concentral reaging and
- development of conceptual repairs, and review of implemented repairs
 Lurie Children's Hospital Meadow Park
- Facility Northbrook, IL: Thermal analysis and design recommendations to minimize air infiltration and condensation
- SIH Cancer Center Carterville, IL: Thermal analysis and design recommendations to minimize air infiltration and condensation
- Private Residence Lyford Cay, Bahamas: Peer review of building enclosure design for main house and guest house

Facade Assessment

- Stonebridge Manor House Lake Bluff, IL: Investigation of exterior stucco cladding and wood windows and development of conceptual repairs
- Operations and Checkout Building, Kennedy Space Center - FL: Exterior facade assessment and development of conceptual repairs to address water leakage
- Joseph P. Kinneary U.S. Courthouse -Columbus, OH: Investigation of cast stone cracking

Masonry Assessment

 Ozaukee County Courthouse - Port Washington, WI: Investigation of limestone facade deterioration and development of conceptual repairs

Repair and Rehabilitation

- 415 Fullerton Avenue Chicago, IL: Design and construction period services for repairs to the masonry facade
- Joslyn Art Museum Omaha, NE: Construction observations of granite site wall repairs

Roofing and Waterproofing

- Northwestern University, Parkes Hall -Evanston, IL: Design and construction period services for low-slope roof replacement
- Northwestern University, Levy Mayer Hall -Chicago, IL: Design and construction period services for slate roof replacement
- Northwest Community Hospital Arlington Heights, IL: Investigation of roof damage

TECHNICAL COMMITTEES

ASTM C16 - Thermal Insulation

