



EDUCATION

- The Pennsylvania State University
 - Bachelor of Science, Civil Engineering, 2003
 - Master of Science, Architectural Engineering, 2005

PRACTICE AREAS

- Construction Observation Services
- Quality Assurance
- Facade Assessment
- Peer Review
- Structural Evaluation
- Leakage Investigation
- Curtain Wall Systems
- Repair and Rehabilitation Design
- Roofing and Waterproofing

REGISTRATIONS

- Certified Infrared Thermographer - Level I
- Professional Engineer in MD

PROFESSIONAL AFFILIATIONS

- American Society of Civil Engineers (ASCE)

CONTACT

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EXPERIENCE

Frederick Peters has extensive experience on a broad range of projects relating to construction observation, field quality assurance, facade assessment, condition assessment, structural investigations, and repair and rehabilitation design. He has broad-based experience with various building materials, including concrete, masonry facade, cast stone, natural stone, aluminum and glass curtain wall systems, EIFS and roofing and waterproofing assemblies. Mr. Peters' responsibilities have included assistance with the investigation and development of repair drawings and specifications, construction observation and building enclosure commissioning, and performance testing. He has performed structural investigations and performed nondestructive testing, including infrared thermography.

While pursuing his master's degree, Mr. Peters worked closely with the Pennsylvania Housing Research Center and the Pennsylvania Housing Finance Agency. There, he developed his thesis on the optimization of construction techniques to increase ADA accessibility, energy efficiency, and structural durability in residential construction.

REPRESENTATIVE PROJECTS

Construction Observation Services and Quality Assurance

- 1010 Massachusetts Ave - Washington, D.C.: Construction of new exterior facade, including masonry cavity wall, punched windows, and roofing
- Waterview - Arlington, VA: Construction of new exterior facade, including curtain wall, metal panels, precast, EIFS, and roofing
- 360 H Street - Washington D.C.: Construction of new exterior facade, including masonry veneer, fenestration, and green roofing

Facade Assessment

- Marriott Hotel - Nashville, TN: Condition survey of exterior walls and roofing
- National Geographic Society - Washington, D.C.: Condition survey of marble panel facade
- University of Maryland, School of Dentistry - Baltimore, MD: Evaluation of masonry, curtain wall, and metal panel facade construction
- All Souls Church - Washington, D.C.: Infrared inspection of facade

Structural Evaluation

- Catholic Archdiocese of Baltimore - MD: Evaluation of earthquake damage to multiple properties
- 1305 Wisconsin Avenue - Washington, D.C.: Evaluation of structural damage due to fire
- Large Retail Establishment - Glen Burnie, MD: Evaluation of structural damage due to vehicular collision

Leakage Investigation

- 400 Massachusetts Avenue - Washington, D.C.: Water intrusion investigation through masonry facade
- Coppin State University - Baltimore, MD: Water intrusion investigation through masonry facade and curtain wall

Curtain Wall Systems

- Reston International Center - Reston, VA: Evaluation of locking-strip gasket glazed aluminum curtain wall system
- Baltimore County Public Safety Headquarters - Towson, MD: Investigation of frequent and reoccurring spontaneous glass breakage

Repair and Rehabilitation Design

- Hermitage at Cedarfield - Richmond, VA: Building envelope assessment of brick masonry facade repair and rehabilitation design
- Cathedral of Mary Our Queen - Baltimore, MD: Evaluation and repair of limestone arches

Roofing and Waterproofing

- Cathedral of Mary Our Queen - Baltimore, MD: Evaluation and moisture survey and development of roof replacement documents