

### Paul J. Parfitt | Senior Associate



#### EDUCATION

- The Pennsylvania State University
  - Bachelor of Architectural Engineering, Structures Option, 2007
  - Master of Architectural Engineering, Structures Option, 2007
  - Minor of Architecture Studies, 2007

#### PRACTICE AREAS

- Collapses
- Repair and Rehabilitation
- Bridges
- Structural Analysis
- Failure/Damage Investigations
- Difficult Access
- Facade Assessment
- Instrumentation/Monitoring/Load Testing

#### REGISTRATION

- Professional Engineer in PA and VA
- Structural Engineer in IL
- Society of Professional Rope Access Technicians - Level I
- AWS Certified Welding Inspector
- California OES Safety Assessment Program Certified

#### CONTACT

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#### EXPERIENCE

Paul Parfitt joined the Washington, D.C. office as a full-time associate in 2008 after working in the Denver office as a summer intern during 2007. He has gained extensive experience working on structural evaluations, collapse investigations, and load testing of new and existing buildings and bridges. Mr. Parfitt has worked on a broad range of projects, including post-tensioned, precast, and conventionally reinforced concrete structures; wood-framed, light gauge metal structures; structural steel structures; pre-engineered buildings and building components; and concrete and brick masonry wall systems. Mr. Parfitt is also part of WJE's Difficult Access Team.

While attending the Pennsylvania State University, Mr. Parfitt was awarded first place for his thesis design study of a performance-based designed seismic lateral system. He previously worked at the Pennsylvania State University and Symmes Maini & McKee Associates of Boston.

#### REPRESENTATIVE PROJECTS

##### Collapses

- Dulles Jet Center - Reston, VA: Structural analysis and investigation into jet hangar heavy truss roof collapse
- File Storage Warehouse - Landover, MD: Structural analysis and investigation into warehouse progressive collapse
- Miller-Coors Brewery - Elkton, VA: Evaluation of collapsed spent grain tank and structural review of in-service grain tank; ultrasonic testing on tank walls
- Watergate East - Washington, D.C.: Investigation into multilevel concrete slab collapse of parking garage

##### Repair and Rehabilitation Design

- Watergate West - Washington, D.C.: Paper wrapped, post-tensioned balcony and building facade repair design and construction observation
- Calvert Cliffs Nuclear Power Plant - Lusby, MD: Concrete survey, development of repair documents, and construction observation

##### Bridges

- Hawaii Department of Transportation: Specialized structural investigation of post-tensioned bridges
- Oklahoma Department of Transportation: Specialized structural investigation of post-tensioned bridges

##### Structural Analysis

- Central Artery/Tunnel Project (Big Dig) - Boston, MA: Safety audit of post-tensioned concrete structures
- Richmond Coliseum - VA: Investigation and analysis of hurricane shelter classification and retrofitting

##### Failure/Damage Investigations

- Chesapeake Bay Foundation - Annapolis, MD: Structural condition assessment of heavy timber Parallam wood members
- Blue Ridge Growers - Culpepper, VA: Structural condition assessment of damaged roof structure

##### Difficult Access

- Washington National Cathedral - Washington, D.C.: Condition assessment of post-seismic damage
- Kimpton Palomar - Philadelphia, PA: Facade inspection and assessment of masonry and terra cotta
- 1701 Florida Avenue - Washington, D.C.: Condition assessment of post-seismic damage

##### Instrumentation/Monitoring/Load Testing

- Silver Spring Transit Center - Silver Spring, MD: Ground penetrating radar survey of post-tensioned concrete structure
- Miller-Coors Brewery - Elkton, VA: Installation and monitoring of instrumentation on ice-damaged fermenting tank

##### PROFESSIONAL AFFILIATIONS

- American Concrete Institute
- American Institute of Steel Construction
- American Society of Civil Engineers - Structural Committee NCS, chair; Professional Development NCS-YMF, chair
- Structural Engineers Association
- American Welding Society