PERSONNEL QUALIFICATIONS

Timothy M. Crowe | Associate Principal

EDUCATION

- University of Illinois at Urbana-Champaign
  - Bachelor of Science, Architectural Studies, 1985
  - Master of Architecture, Structures Option, 1987

PRACTICE AREAS

- Historic Preservation
- Structural Evaluation
- Assessment of Wood Structures
- Repair and Rehabilitation Design
- Failure Investigation
- Facade Assessment

REGISTRATIONS

- Architect in IL
- Professional Engineer in IN, IA, and LA
- Structural Engineer in IL and NE

PROFESSIONAL AFFILIATIONS

- American Wood Council (AWC)
- American Institute of Timber Construction
- Structural Engineers Association of Illinois (SEAOI)
- Association for Preservation Technology International (APTI)

CONTACT

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EXPERIENCE

Since joining WJE in 1990, Timothy Crowe has served as project manager for the evaluation and repair of hundreds of historic and contemporary building structures and cladding systems. Cladding systems include brick, stone, terra cotta, and precast and cast-in-place concrete. He has assessed structural systems and distress conditions for timber, concrete, and steel building structures, including damage resulting from construction error, wind, ice, snow, and fire. Mr. Crowe has supervised the preparation of contract documents and performed construction observation services for buildings ranging from churches to high-rise office towers.

Prior to joining WJE, Mr. Crowe worked as a design structural engineer from 1987 to 1990 at Perkins & Will, Inc. At that time, Mr. Crowe performed analyses, including lateral load, gravity, and foundation system designs on concrete and steel-framed buildings ranging from three to seventy stories.

REPRESENTATIVE PROJECTS

Historic Preservation

- St. Elizabeths Hospital, West Campus - Washington, D.C.: Structural assessment as part of Historic Structure Reports for seventy masonry, timber, and iron-framed buildings dated from 1850s to 1920s; structural design services for adaptive reuse of ten buildings
- Westminster Presbyterian Church - Minneapolis, MN: Stone masonry investigation and repair of 1896 church
- Wisconsin Executive Mansion - Madison, WI: Wood framing and monumental structural wood column investigation
- Salk Institute - La Jolla, CA: 1965 landmark concrete structure; teak window investigation and repair design
- Nebraska State Capitol - Lincoln, NE: Limestone masonry high-rise cladding, steel framing, and retaining wall investigations and repair
- Holy Family Church Bell Tower - Chicago, IL: Metal cladding, masonry, and timber structure investigation and repair for 1874 church

Structural Evaluation

- Episcopal Church of the Epiphany - Chicago, IL: Stone masonry, timber truss, and roof investigation and repair for 1885 church
- Richards Hall - Lincoln, NE: Rehabilitation of 1908 masonry, concrete, and timber and steel-framed structure
- Knox College, Alumni Hall - Galesburg, IL: Mass masonry wall and timber framing stabilization and shoring designs of 1894 building
- 310 North Peoria - Chicago, IL: Structural assessment of 1890 historic heavy timber-framed floor and masonry warehouse and repair recommendations

Failure Investigation

- Hurricane damage inspections at numerous buildings and churches in MS, LA, and TX
- U.S. Post Office - Chicago, IL: Steel-frame collapse investigation
- Numerous timber truss collapse investigations and repairs for buildings in IA, IL, and IN

Facade Assessment

- Huntington County Courthouse - IN: Limestone masonry, cladding, and balcony structure investigation and repair recommendations for 1904 landmark structure
- Allstate Corporate Headquarters Complex - Northbrook, IL: Precast concrete cladding investigation, repairs, and reclad
- OSF St. Mary Medical Center - Galesburg, IL: Masonry and cladding investigation and window assembly evaluation for 1970s complex
- Federal Building - Des Moines, IA: Brick masonry, curtain wall, and granite panel investigation
- 3600 North Lake Shore Drive - Chicago, IL: Twenty-eight-story concrete and brick masonry investigation and repair

TECHNICAL COMMITTEES

- APTI - Preservation Engineering Committee, co-chair
- ASTM D07 - Wood
- ASTM E06.24 - Building Preservation Technology