

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

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

REGISTRATIONS

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

PROFESSIONAL AFFILIATIONS

- American Institute of Timber Construction (AITC)
- American Wood Council (AWC)
- Association for Preservation Technology International (APT), Fellow
- ASTM International
- Structural Engineers Association of Illinois (SEAOI)

CONTACT

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EXPERIENCE

Timothy Crowe has served as project manager for the evaluation and repair of cladding systems on hundreds of building structures ranging from historic churches to contemporary high-rise office towers. The cladding systems on these structures include mass brick and stone masonry, terra cotta, fenestrations, precast concrete panels, and cast-in-place concrete. He has also examined and analyzed distress conditions and failures of timber, concrete, and steel building structural systems resulting from natural disasters, construction error, wind, ice, snow, and fire. Mr. Crowe has supervised and performed repair design, repair document preparation, and construction observations for these projects, and has performed litigation support and provided expert testimony.

Prior to joining WJE, Mr. Crowe worked as a design structural engineer at the design firm Perkins&Will, where he performed structural analyses of steel and concrete frames and foundation systems for building structures.

REPRESENTATIVE PROJECTS

Structural Evaluation

- Holy Family Church Bell Tower - Chicago, IL: Metal cladding, masonry, and timber structure investigation and repair for 1874 structure
- Knox College, Alumni Hall - Galesburg, IL: Mass masonry wall and timber framing stabilization and shoring designs of 1894 building
- U.S. Midwest - Bowstring truss evaluation and repair design for hundreds of buildings
- 310 North Peoria - Chicago, IL: Structural assessment and repair recommendations for 1890 historic heavy timber-framed floor and masonry warehouse
- Episcopal Church of the Epiphany - Chicago, IL: Stone masonry, timber truss, and roof investigation and repair for 1885 church
- Richards Hall - Lincoln, NE: Structural rehabilitation and underpinning of 1908 masonry, concrete, and timber and steel-framed structure

Historic Preservation

- St. Elizabeths Hospital, West Campus - Washington, D.C.: Structural assessment of seventy masonry, timber, and iron-framed buildings dating from the 1850s to the 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: Wood framing and monumental structural wood column investigation
- Salk Institute - La Jolla, CA: Teak window investigation and repair design for 1965 landmark concrete structure
- Nebraska State Capitol - Lincoln: Limestone masonry high-rise cladding, steel framing, and retaining wall investigations and repair

Failure Investigation

- IA, IL, and IN: Numerous timber and wood truss and glulam failure/collapse investigations and repair designs for buildings
- LA, MS, and TX: Hurricane damage inspections at buildings and churches
- IA, IL, MN, and WI: Numerous fire damage assessments of commercial and residential structures
- Numerous assessments of wood flooring failures within commercial and residential structures

Facade Assessment and Repair

- OSF St. Mary Medical Center - Galesburg, IL: Masonry and window system evaluation and repair designs for 1970s complex
- Huntington County Courthouse - Huntington, 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

TECHNICAL COMMITTEES

- APT - Preservation Engineering Committee, former chair
- ASTM D07 - Wood
- ASTM E06.24 - Building Preservation Technology