



## PERSONNEL QUALIFICATIONS

# Jonathan E. Lewis | Principal and Executive Director of Practice Development



### EXPERIENCE

Since joining WJE in 2001, Jonathan Lewis has conducted various structural investigations, condition assessments, repair designs, and peer reviews. He has performed structural analyses and assisted in the development of repairs for multiple notable structures across the United States. Mr. Lewis has significant experience with structural analysis computer software programs and is proficient in finite element analysis. He has developed expertise in fall protection requirements for elevated work surfaces, as well as the evaluation and analysis of facade access equipment.

In addition to analysis and repair design, Mr. Lewis has provided repair phase services on various projects, including building envelope repairs, structural modifications, and repairs to post-tensioned and conventionally reinforced parking structures.

### REPRESENTATIVE PROJECTS

#### Bridge Engineering

- Poplar Street Complex - East St. Louis, IL: Seismic retrofit of elevated roadway
- Indiana Toll Road - Northern IN: Condition assessment and repair design for ten bridge structures
- Sunshine Bridge - Donaldsonville, LA: Structural analysis of barge impact
- Illinois Department of Transportation - Cook County: Gusset plate analysis and load rating of multiple bridge truss structures
- Illinois State Toll Highway Authority and Illinois Department of Transportation: Erection engineering for multiple overpass structures

#### Failure/Damage Investigations

- I-35W Bridge Over the Mississippi River - Minneapolis, MN: Investigation and structural analysis related to collapse
- Pick N' Save Store - Brookfield, WI: Investigation, analysis, and repair design following roof collapse
- Liberty Bridge Fire - Pittsburgh, PA: Investigation and analysis of fire damage

#### Facade Access Equipment and Fall Protection

- BMO Harris Bank Complex - Chicago, IL: Evaluation and load testing of existing facade access equipment
- The Old Post Office - Chicago, IL: Evaluation and design of new facade access equipment
- 135 South LaSalle Street Building - Chicago, IL: Design and load testing of new dedicated roof anchorages for facade access
- Federal Reserve Bank of Chicago - IL: Design and load testing of new dedicated roof anchorages for facade access

#### Structural Engineering

- Phoenix Suns Arena - AZ: Analysis of roof framing system
- Wrigley Field - Chicago, IL: Condition survey and structural analysis
- University of Nebraska-Lincoln: Analysis of new athletic center and stadium addition
- Chicago Transit Authority - IL: Structural analysis and load rating of multiple early 1900s concrete viaducts

#### Facade Assessment

- Franklin Center - Chicago, IL: Water leakage investigation and repair of granite panels
- InterContinental Chicago Hotel - IL: Investigation and repair of distressed limestone facade and parapets
- Fairmont Chicago Hotel - IL: Investigation and repair design for cracked granite panels

### EDUCATION

- University of Illinois at Urbana-Champaign
  - Bachelor of Science, Civil Engineering, 1999
  - Master of Science, Structural Engineering, 2001

### PRACTICE AREAS

- Bridge Engineering
- Failure/Damage Investigations
- Facade Access Equipment and Fall Protection
- Structural Engineering
- Structure Load Rating
- Concrete Structures
- Structural Metals
- Facade Assessment

### REGISTRATIONS

- Professional Engineer in MI
- Structural Engineer in IL

### PROFESSIONAL AFFILIATIONS

- American Society of Civil Engineers
- Architectural Engineering Institute
- Structural Engineering Institute
- Structural Engineers Association of Illinois
- Structural Engineers Foundation

### CONTACT

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