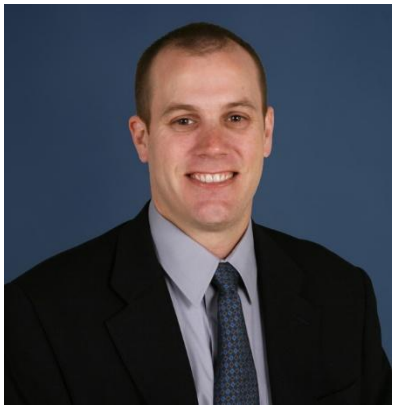
PERSONNEL QUALIFICATIONS

Jon F. Sfura | Associate Principal



EDUCATION

- Purdue University
  - Bachelor of Science, Civil Engineering, 1994
- University of Illinois at Urbana-Champaign
  - Master of Science, Civil Engineering, 1996
  - Doctor of Philosophy, Civil Engineering, 2003

PRACTICE AREAS

- Repair and Rehabilitation Design
- Seismic Evaluation
- Failure Analysis
- Peer Review
- Structural Evaluation
- Structural Analysis/Computer Modeling

REGISTRATIONS

- Civil Engineer in CA
- Professional Engineer in FL, KY, MI, MO, NC, TN, and WI
- Structural Engineer in IL

PROFESSIONAL AFFILIATIONS

- American Concrete Institute
- Building Seismic Safety Council
- Earthquake Engineering Research Institute
- Structural Engineers Association of Illinois

CONTACT

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EXPERIENCE

Since joining WJE in 2004, Jon Sfura has acquired experience on a wide variety of engineering projects involving the investigation, analysis, and repair of concrete, masonry, steel, aluminum, and wood commercial and residential structures. He has experience in computer analyses to model the behavior of existing structures and to design repairs and retrofits. Projects include assessing distress due to structural overload, collision, foundation settlement, corrosion, fire, and natural disasters. Mr. Sfura has also taught seminars regarding seismic design of buildings throughout the United States.

Prior to joining WJE, Mr. Sfura studied the nonlinear seismic response of asymmetric steel structures to earthquake ground motions as a doctoral candidate. This work involved large-scale shake table testing, instrumentation, data acquisition, and nonlinear finite-element analysis.

REPRESENTATIVE PROJECTS

Repair and Rehabilitation Design

- 222 South Riverside Plaza - Chicago, IL: Design and reconstruction of existing plaza structure
- ASARCO EW Tankhouse - Kearny, AZ: Evaluation of processing facility foundation movement and repair design
- Reach Resort - Key West, FL: Repair of post-tensioned reinforced concrete hotel and parking garage
- Highland Oaks - Downers Grove, IL: Repair of post-tensioned concrete parking garage
- Hampton Roads Sanitation District - Virginia Beach, VA: Concrete wastewater treatment tank expansion joints failure analysis and repair design
- Senior Citizens Plaza - Key West, FL: Reinforced masonry and precast concrete investigation, analysis, and repair design
- Gavin Central School - Ingleside, IL: Investigation and repair of fractured plate-connected timber trusses
- United States - Various Locations: Investigation and repair of plate-connected wood roof trusses for a major restaurant chain

Seismic Evaluation

- Hanford B Reactor - Benton County, WA: Seismic assessment and strengthening for historic reactor enclosure
- Via Christi Hospital - Wichita, KS: Seismic assessment and retrofit of six story hospital
- York Hospital - Omaha, NE: Seismic design of hospital expansion

Failure Analysis

- Multiple Agricultural Buildings: Investigation of roof collapse under heavy snow load
- Phoenix Sky Train - Phoenix, AZ: Failure analysis and repair design review of automated people mover track
- Ochsner Hospital - New Orleans, LA: Collapse analysis of hospital expansion
- College of DuPage, TEC Center - Glen Ellyn, IL: Failure analysis and repair design of precast wall panel connections

Peer Review

- Arden Hills Readiness Center - Arden Hills, MN: Structural, blast, life-safety, and building envelope review of military facility
- Via Christi Hospital - Wichita, KS: Seismic peer review of retrofits for hospital
- Multiple Projects - Chicago, IL: Structural peer reviews of various projects for the City of Chicago Structural Peer Review program

Structural Evaluation

- Ochsner Hospital - New Orleans, LA: Lateral capacity analysis of converted concrete parking garage
- Osmon Fieldhouse - Valley City, ND: Capacity analysis of heavy timber-arched roof sports facility
- Dillard's Department Store - Ft. Lauderdale, FL: Investigation of hurricane damage
- Hopkins Elementary School - Granville, IL: Investigation of tornado damage
- Coal City Early Childhood Center - Coal City, IL: Investigation of foundation settlement

TECHNICAL COMMITTEES

- ASCE 7 - Standard Committee for Minimum Design Loads for Buildings and Other Structures, Wind Load Subcommittee
- Building Seismic Safety Council - NEHRP Recommended Seismic Provisions