



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
- Structural Evaluation
- Structural Analysis/Computer Modeling

REGISTRATIONS

- Civil Engineer in CA
- Professional Engineer in FL, KS, and MI
- 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 country.

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: Processing facility foundation movement evaluation 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
- SC Johnson Wax Headquarters - Racine, WI: Structural repairs of the Frank Lloyd Wright Administration Building
- Various Locations Nationwide: 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 development of upgrade options for reactor enclosure
- York Hospital - Omaha, NE: Seismic design of hospital expansion

Failure Analysis

- Phoenix Sky Train - Phoenix, AZ: Failure analysis and repair design review of automated people mover track
- Ochsner Hospital - New Orleans, LA: Collapse analysis of under-construction hospital expansion/renovation
- College of DuPage, TEC Center - Glen Ellyn, IL: Failure analysis and repair design of precast wall panel connections
- Govalle Tunnel - Austin, TX: Epoxy liner failure analysis for deep concrete wastewater tunnels

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
- Phoenix Fabricators and Erectors - Avon, IN: Determine capacity envelopes of erection cranes and design retrofits
- Wheaton College, Barrows Auditorium - Wheaton, IL: Investigation of fire damage to roof structure
- Dillard's Department Store - Ft. Lauderdale, FL: Investigation of hurricane damage to roof structure and repair document review
- Hopkins Elementary School - Granville, IL: Investigation of tornado damage and repair design
- 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