PERSONNEL QUALIFICATIONS

Peter S. Nelson | Associate Principal and Unit Manager

EDUCATION

- University of Illinois at Urbana-Champaign
  - Bachelor of Science, Civil Engineering, 2006
  - Master of Science, Civil Engineering, 2008

PRACTICE AREAS

- Repair and Rehabilitation Design
- Failure Investigation
- Structural Evaluation
- Facade Assessment

REGISTRATIONS

- Professional Engineer in IL
- Structural Engineer in IL

PROFESSIONAL AFFILIATIONS

- American Concrete Institute
- International Concrete Repair Institute

CONTACT

pnelson@wje.com
847.272.7400
www.wje.com

EXPERIENCE

Since joining WJE in 2009, Peter Nelson has gained experience in condition assessment, structural evaluation, and repair and rehabilitation design. He has investigated multiple failures involving concrete, wood, masonry, and steel structures. Mr. Nelson also has experience with various facade evaluation and repair projects, including concrete, masonry, and glass and aluminum curtain wall systems.

Before joining WJE, Mr. Nelson conducted undergraduate and graduate-level research at the Army Corps of Engineers research facility in Champaign, Illinois. His research focused primarily on testing wood shear panel walls and large-scale shake-table testing.

REPRESENTATIVE PROJECTS

Repair and Rehabilitation Design

- Soldier Field - Chicago, IL: Condition assessment of historic concrete structure, repair design, and construction period services
- 1630 Sheridan Road - Wilmette, IL: Repair design and construction period services for below-grade parking structure and entry plaza repair project
- Ryan Field - Evanston, IL: Structural repair design and construction period services for multiple concrete repair projects
- The Waterford - Chicago, IL: Condition assessment and construction period services for balcony repair project
- Wheaton Center - Wheaton, IL: Condition assessment, repair design, and construction period services for high-rise residential buildings and parking structures
- Optima Views - Evanston, IL: Construction period services for green roof plaza restoration atop parking structure
- 1630 Sheridan Road - Wilmette, IL: Repair design and construction period services for balcony repair project

Failure Investigation

- Christensen Farms and Feedlots - Weldon, IA: Field investigation and evaluation of timber truss roof collapse
- Boston Store Wall Collapse - Milwaukee, WI: Field investigation and evaluation of masonry wall failure
- Shure Headquarters - Niles, IL: Field investigation and evaluation of sunshade failure

Structural Evaluation

- Byron Nuclear Generating Station, Hyperbolic Shell Cooling Towers - IL: Structural condition assessment of two 500-foot-tall natural draft cooling towers
- Edwin I. Hatch Nuclear Plant - Baxley, GA: Structural monitoring program inspections for maintenance rule and license renewal
- Port of Houston Authority - TX: Condition assessment for multiple wharf structures
- LaGrange Fire Station - LaGrange, IL: Structural assessment of existing concrete framing
- Larimer County Fairgrounds - Loveland, CO: Structural evaluation and design of roof framing repairs
- Byron Nuclear Generating Station, Essential Service Water Cooling Tower - IL: Structural assessment of safety-related cooling tower in support of license renewal
- 1630 Sheridan Road - Wilmette, IL: Structural assessment of seawall structure

Facade Assessment

- University of Phoenix Stadium - Glendale, AZ: Investigation of wind-related effects on composite cladding panels
- Various evaluations of glass surface distress resulting from construction activities, cleaning processes, and natural disasters
- One East Wacker Street - Chicago, IL: Investigation of marble facade distress, repair design, and construction period services
- 135 South LaSalle Street - Chicago, IL: Limestone facade examinations and repair period services
- InterContinental Hotel Chicago - IL: Construction period services to address limestone parapet distress
- One South Wacker Street - Chicago, IL: Facade examinations and construction period services
- 400 North LaSalle Street - Chicago, IL: Condition assessment and construction period services to address concrete facade distress