



## PERSONNEL QUALIFICATIONS

### John F. Duntemann | Senior Principal



#### EDUCATION

- University of Illinois at Urbana-Champaign
  - Bachelor of Science, Civil Engineering, 1978
  - Master of Science, Structural Engineering, 1981

#### PRACTICE AREAS

- Structural Evaluation
- Failure Analysis
- Repair and Rehabilitation Design
- Peer Review

#### REGISTRATIONS

- Civil Engineer in CA, DC, and NV
- Structural Engineer in AZ, IL, and LA
- Professional Engineer in FL, IL, Manitoba, MD, MI, NY, TN, and WA

#### PROFESSIONAL AFFILIATIONS

- American Concrete Institute
- American Society of Civil Engineers
- International Association for Bridge and Structural Engineering
- Structural Engineers Association of Illinois

#### CONTACT

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#### EXPERIENCE

John Duntemann specializes in the assessment of structural distress and serviceability problems in buildings, bridges, and other structures. He has analyzed numerous conventional structures as well as several unique building systems, addressing general code conformance and related topics such as deflection, cracking, vibration, and lateral stability. Mr. Duntemann also performs a variety of consulting activities related to new and existing construction.

Mr. Duntemann was the principal author of the *Guide Design Specifications for Bridge Temporary Works* (1995, 2015), which was adopted by the American Association of State Highway and Transportation Officials (AASHTO). He is a contributing author to the *Handbook of Temporary Structures in Construction* (1996, 2012) and the *Forensic Structural Engineering Handbook* (2000, 2010).

Mr. Duntemann currently serves on the board of the Structural Engineering Association of Illinois and served on the Illinois State Task Force on School Plan Review and Inspection. He was also a member of the National Council of Examiners for Engineering and Surveying Structural Exam Committee (2004–2010).

Prior to joining WJE, Mr. Duntemann was a design engineer with Petro-Marine Engineering, Inc., in New Orleans. He was responsible for the structural design and development of contract drawings for several offshore drilling and production platforms in the Gulf of Mexico and the Gulf of Suez.

#### REPRESENTATIVE PROJECTS

##### Structural Evaluation

- U.S. Supreme Court - Washington, D.C.: Blast evaluation of retrofit windows
- Chicago Public Schools - Chicago, IL: Assessment and repair of multiple schools
- Port of New Orleans - LA: Damage assessment of wharf structures after Hurricane Katrina
- Multiple Structures - Northridge, CA: Assessment and repair of seismic damage

#### Failure Analysis

- Gavin Central School - Ingleside, IL: Investigation and repair of fractured plate-connected timber trusses
- Aluminum Dome Structure - Lynchburg, VA: Failure analysis of dome roof on water storage tank
- Phoenix Skytrain - Phoenix, AZ: Failure analysis and repair recommendations related to concrete connection details
- Cline Avenue Ramp - East Chicago, IN: Failure investigation of falsework system

#### Repair and Rehabilitation Design

- Fenway Park - Boston, MA: Development of repair plans for seating bowl reconstruction
- Reach Resort - Key West, FL: Repair of post-tensioned reinforced concrete hotel and garage
- Ochsner Hospital - New Orleans, LA: Structural rehabilitation of pile cap foundations
- Marina Towers - Chicago, IL: Development of rehabilitation plans for landmark concrete facade

#### Peer Review

- Hampton Roads Sanitation District - Norfolk, VA: Review construction details for reinforced concrete water treatment tanks
- America West Arena (now US Airways Center) - Phoenix, AZ: Design review and reinforcement of long-span steel roof trusses
- Centre County Bridge - State College, PA: Erection and bracing of curved girder bridge
- Safeco Field - Seattle, WA: Design peer review of new baseball stadium

#### TECHNICAL COMMITTEES

- ACI 224 - Cracking
- ACI 423 - Prestressed Concrete (Joint ACI-ASCE)
- ASCE Performance of Structures Technical Activities Committee, former chair
- ASCE 7 - Standard Committee for Minimum Design Loads for Buildings and Other Structures
- ASCE 37 - Standard Committee for Design Loads on Structures during Construction
- IABSE WG8 - Forensic Structural Engineering
- IABSE Outstanding Structure Award Committee