

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

- Structural Engineer in AZ, IL, and LA
- Civil Engineer in CA, DC, and NV
- Professional Engineer in FL, GA, ID, IL, MB, MD, MI, NC, ND, NY, SC, TN, and WA

PROFESSIONAL AFFILIATIONS

- American Concrete Institute (ACI)
- American Society of Civil Engineers (ASCE)
- Precast/Prestressed Concrete Institute (PCI)
- Structural Engineers Association of Illinois (SEAOI), past President
- Structural Engineering Institute (SEI), Fellow
- International Association for Bridge and Structural Engineering (IABSE), Fellow

CONTACT

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EXPERIENCE

John Duntemann specializes in the assessment and repair of structural distress and serviceability problems in buildings, bridges, and other structures. In his forty-year career, he has performed a variety of consulting activities related to new and existing construction, including bridge and transportation structures, civic and commercial buildings, industrial buildings and facilities, stadiums and arenas, parking structures, storage tanks and temporary structures.

He has published more than forty papers and lectured extensively on the performance and assessment of structures, structural failures, structural rehabilitation, and design and construction codes and standards. He is a contributing author to the *Handbook of Temporary Structures in Construction* (1996, 2012) and the *Forensic Structural Engineering Handbook* (2000, 2010). He also authored a state-of-the-art standard, *Guide Design Specification for Bridge Temporary Works* (1995, 2015), adopted by the American Association of State Highway and Transportation Officials.

Mr. Duntemann is a Fellow of the Structural Engineering Institute (SEI) and International Association for Bridge and Structural Engineering (IABSE). He is past president of the Structural Engineering Association of Illinois (2013–2014) and served on the Illinois State Task Force on School Plan Review and Inspection (2006). He is also a former member of the National Council of Examiners for Engineering and Surveying Structural Exam Committee (2004–2010) and a member of the ASCE/SEI 7 Standards Committee, Minimum Design Loads and Associated Criteria for Buildings and Other Structures, since 1995.

REPRESENTATIVE PROJECTS

Structural Evaluation

- ASARCO Electro Winning Building - Kearny, AZ: Analysis and repair of mining building subject to extreme differential movements
- Rinconada Water Treatment Plant - Los Gatos, CA: Nondestructive evaluation and monitoring of concrete tank construction

Failure Analysis

- Nettlehorst Elementary School - Chicago, IL: Failure investigation of long span timber truss and design replacement roof
- Phoenix Sky Train - Phoenix, AZ: Failure analysis and repair recommendations related to concrete connection details.
- SR91 Bridge 20 - CA: Failure analysis and litigation support for under-construction overpass

Repair and Rehabilitation Design

- Audubon School Addition - New Orleans, LA: Evaluation and realignment of an out-of-plumb steel frame building
- Burton Barr Central Library - Phoenix, AZ: Roof and fire sprinkler replacement after wind damage
- Guaranteed Rate Field (formerly US Cellular Field) - Chicago, IL: Capital repair program
- Marina Towers - Chicago, IL: Rehabilitation of landmark concrete facade
- Ochsner Hospital - New Orleans, LA: Rehabilitation of pile cap foundations

Peer Review

- Gaillard Center - Charleston, SC: Design review of civic building and theater restoration
- Safeco Field (now T-Mobile Pk) - Seattle, WA: Design peer review of new baseball stadium
- Talking Stick Resort Arena - Phoenix, AZ: Design review of long-span steel roof trusses and concert load analyses

TECHNICAL COMMITTEES

- ACI 224 - Cracking
- ACI 423 - Prestressed Concrete
- ASCE Performance of Structures Technical Activities Committee, former chair
- ASCE 7- Standard Committee for Minimum Design Loads for Buildings and Other Structures; Chair, ASCE 7-22, Snow & Rain Load Subcommittee
- ASCE 37 - Standard Committee for Design Loads on Structures during Construction; Chair, Environmental Loads Subcommittee
- IABSE TG5.1 - Forensic Structural Engineering, current chair
- IABSE Outstanding Structure Award Committee