



## PERSONNEL QUALIFICATIONS

### Andrew E. N. Osborn | Senior Principal



#### EDUCATION

- Cornell University
  - Bachelor of Science, Civil Engineering, 1975
- University of Illinois at Urbana-Champaign
  - Master of Science, Structural Engineering, 1976

#### PRACTICE AREAS

- Collapse Investigation
- Bridges and Civil Infrastructure
- Instrumentation and Testing/Structural Monitoring
- Insurance Investigations
- Structural Analysis/Finite Element Analysis
- Vibration Studies
- Precast/Prestressed/Post-Tensioned Concrete
- Concrete Deterioration/Repair Design
- Litigation Support
- Research

#### REGISTRATIONS

- Professional Engineer in CT, DE, MD, NH, NJ, NY, PA, RI, and VT
- Structural Engineer in IL and MA

#### PROFESSIONAL AFFILIATIONS

- American Concrete Institute
- Precast/Prestressed Concrete Institute

#### CONTACT

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#### EXPERIENCE

Since joining WJE in 1978, Andrew Osborn has participated in more than one thousand projects. He has conducted a wide range of investigations, repair designs, and load tests of buildings, bridges, water retaining structures, parking garages, tunnels, stadiums, and a lighthouse. These structures have been made of reinforced and prestressed concrete, masonry, steel, and wood. Since 1993, he has developed expertise in investigations performed for, or on behalf of, insurance companies and/or their subrogation counsel. Prior to WJE, Mr. Osborn was a Project Engineer at DeLeuw Cather and Company (now Parsons Infrastructure), where he designed over twenty-five post-tensioned box girder bridges for the Kuwait Motorway System.

#### REPRESENTATIVE PROJECTS

##### Collapse Investigation

- Fisher Place Garage: Seven-story precast/prestressed concrete garage collapse during construction
- Park City Estates Parking Deck: Reinforced concrete waffle slab collapse under heavy soil loads
- Pedestrian Bridge - Marcy, NY: Steel U-girder collapse while under construction

##### Bridges and Civil Infrastructure

- Verrazano-Narrows Bridge: Deck cracking investigation
- Delaware Water Gap Bridge: Deck cracking investigation
- Brooklyn Battery and Queens Midtown Tunnels: Nondestructive testing

##### Instrumentation and Testing/Structural Monitoring

- Cape Hatteras Lighthouse - Outer Bank, NC: Extensive instrumentation system to monitor lighthouse during move
- Throgs Neck Bridge - New York, NY: Light pole strain and vibration
- CitiCorp Wall Panels: Monitoring following clip failures
- Portland-Columbia Bridge - NJ and PA: NCHRP 12-37 deck monitoring

- Javits Center - New York, NY: 140 sensors monitored for five years
- LaGuardia Airport Over-Water Runway Extension - New York, NY: Multiple load tests and laboratory tests of scale models

##### Insurance Investigations

- World Trade Center - New York, NY: Investigation of complex and thirty surrounding buildings following 9/11
- Rancocas Bridge - NJ: Capsizing investigation
- AOL/Time Warner Building: Fire investigation

##### Structural Analysis/Finite Element Analysis

- Javits Center - New York, NY: Nonlinear FEA of wall connection detail
- UPS Headquarters: Nonlinear FEA of steel precast panel connection
- New Stanton, PA: FEA of reinforced concrete sewage tank
- New York, NY: FEA of spun aluminum luminaire enclosure

##### Research

- NSF: Shear testing of precast concrete wall connections
- FHWA: Testing of full-depth precast/prestressed concrete deck replacements
- NCHRP 10-62: Testing for surface characteristics of prestressing strands

##### TECHNICAL COMMITTEES

- PCI - Prestressing Steel Committee
- PCI - Research and Development Council
- PCI - Technical Activities Council, past chair