



## PERSONNEL QUALIFICATIONS

### Kevin A. Michols | Principal, Unit Manager, and Director of Janney Technical Center



#### EDUCATION

- University of Illinois at Urbana-Champaign
  - Bachelor of Science, Civil Engineering, 1979
  - Master of Science, Structural Engineering, 1981

#### PRACTICE AREAS

- Construction Troubleshooting
- Corrosion Protection
- Facade Ordinance Inspections
- Failure Investigation
- Fire Damage Investigation
- Nondestructive Evaluation
- Repair and Rehabilitation Design
- Structural Evaluation

#### REGISTRATIONS

- Professional Engineer in AZ, CO, FL, IA, IL, MD, MI, NC, WI, and WV
- Structural Engineer in IL and NE

#### PROFESSIONAL AFFILIATIONS

- American Concrete Institute
- American Society of Civil Engineers
- International Concrete Repair Institute
- Structural Engineers Association of Illinois

#### CONTACT

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#### EXPERIENCE

Kevin Michols joined WJE in 2007 with extensive experience related to evaluation of existing structures, troubleshooting construction problems, and development of repair/rehabilitation programs. Specific focus areas include structural condition assessment, structural integrity evaluation, strengthening design, durability enhancement, and service life extension.

Prior to joining WJE, Mr. Michols served as vice president of CTLGroup in Skokie, Illinois, where he managed structural evaluation and repair projects and was responsible for overseeing technical and daily business operations for the Engineers and Construction Technology Consultants Division of CTLGroup.

Mr. Michols is professionally active in several technical committees and has presented at numerous seminars and workshops on the subject of structural evaluation and repair.

#### REPRESENTATIVE PROJECTS

##### Failure Investigation

- High-Rise Hotel - Chicago, IL: Transfer beam fracture
- Multistory Parking Structure - Hartford, CT: Concrete deck failure
- Wastewater Tank - Chicago Area: Concrete roof slab collapse at manufacturing facility

##### Repair and Rehabilitation Design

- Electric Generating Station - Mid-Atlantic Region: Structural repair development for two hyperbolic shell natural draft cooling towers
- Refinería de Cartagena FCC Tabletop Foundation - Cartagena, Colombia: Structural repair and seismic retrofit of support structure for large refinery process vessels
- Iowa City Water Treatment Plant - Iowa City, IA: Structural strengthening of precast double-tee roof structure
- Northwestern University, Utility Steam Tunnels - Evanston and Chicago, IL: Structural repairs and waterproofing
- Northwestern University, Ryan Field Stadium - Evanston, IL: Annual inspections, structural rehabilitation, and ongoing maintenance repair program

- InterContinental Hotel - Chicago, IL: Rehabilitation of four-story below-grade parking structure
- Memorial Stadium, University of Nebraska-Lincoln: Annual inspections, structural rehabilitation design, and ongoing maintenance repair
- 1630 Sheridan Corporation - Wilmette, IL: Rehabilitation of below-grade parking structure and entry plaza
- Wheaton Center - Wheaton, IL: Structural concrete repairs and durability enhancement for high-rise residential buildings and parking structures

#### Structural Evaluation

- Vehicle Assembly Building - Kennedy Space Center, FL: Structural evaluation of elevated concrete slabs, service life modeling, and repair development
- Union Depot - St. Paul, MN: Structural evaluation and repair development for ninety-year-old, 250,000-square-foot elevated concrete train deck structure
- Power Generation Station - Midwest Region: Structural evaluation and repair program development for a large mechanical draft cooling tower and two hyperbolic shell natural draft cooling towers
- Palo Verde Nuclear Station Water Reclamation Facility - Tonopah, AZ: Structural life assessment and repair program development for wastewater treatment tanks
- Two Prestressed Concrete Box Beam Bridges - Ontario County, NY: Investigation of diagonal cracking and load rating
- Mitchell Park Horticultural Conservatory Domes - Milwaukee, WI: Investigation of structural framing for explosion damage

#### TECHNICAL COMMITTEES

- ACI 546 - Repair of Concrete
- ACI 563 - Specifications for Repair of Structural Concrete
- ICRI 110 - Guide Specifications
- ICRI 120 - Environmental Health and Safety
- ICRI 210 - Evaluation
- ICRI 310 - Surface Preparation
- ICRI 320 - Repair Materials and Methods
- ICRI TAC - Technical Activities, past chair