

### Donald F. Meinheit | Principal



#### EDUCATION

- Purdue University
  - Bachelor of Science, Civil Engineering, 1966
- University of Illinois, Urbana-Champaign
  - Master of Science, Structural Engineering, 1968
- University of Texas, Austin
  - Doctor of Philosophy, Structural Engineering, 1977

#### PRACTICE AREAS

- Architectural Concrete
- Failure Investigation
- Inspection and Evaluation
- Prestressed and Post-Tensioning Concrete Structures
- Reinforced Concrete Structures
- Research and Testing
- Stadiums and Arenas
- Tanks, Water Treatment Facilities, and Swimming Pools

#### REGISTRATIONS

- Professional Engineer in IL, IN, TN, and TX
- Structural Engineer in IL

#### CONTACT

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#### EXPERIENCE

Donald Meinheit joined WJE in 1979 and has served as project engineer and project manager on numerous collapse and failure investigations, laboratory test programs, and a variety of other structural and material evaluation projects. Dr. Meinheit has published articles on fatigue of steel connections, bearing walls, box girder bridge behavior, parking structure repair, expansion anchor behavior, head-stud anchor behavior, and manufactured housing foundations under both static and simulated seismic conditions.

He is an active contributor to several committees in ACI, CRSI, and PCI and has given lectures on repair of structures, failure investigations, and anchorage-to-concrete design. Dr. Meinheit has long been associated with the precast concrete industry and is an expert on precasting, precast concrete materials, headed stud anchorage design, and architectural precast concrete. He has contributed extensively to the anchorage design provisions in ACI 318.

#### REPRESENTATIVE PROJECTS

##### Failure Investigation

- Memorial Stadium - Lincoln, NE: Collapse investigation of south stadium grandstand
- Conesville Power Plant - Conesville, OH: Collapse investigation of mechanical draft cooling tower and recommendations for inspection of similar towers

##### Research and Testing

- Precast/Prestressed Concrete Institute: Design criteria for headed stud groups
- Dayton Superior: Laboratory testing of flange connectors under monotonic and seismic loading
- Commonwealth Edison: Laboratory Testing of post-installed expansion anchors for nuclear application

##### Concrete Repair Design

- Chicago Midway Airport - Chicago, IL: Corbel failure investigation and repair design
- Horseshoe Casino Hammond - Hammond, IN: L-shaped spandrel repair design and prototype testing

#### Inspection and Evaluation

- Rookery Building - Chicago, IL: Assessment of clay-tile floor arch and cast-iron column
- High-Speed Rail System - Seoul, Republic of Korea: Quality audit of all transportation facilities
- City of London Water Reservoir - Ontario, Canada: Water leakage and base slab analysis
- Northeastern Illinois University - Chicago, IL: Water leakage and tile coating investigation of swimming pool
- Water Reservoir - Faribault, MN: Investigation of excessive wall cracking and repair recommendation
- Woodmont Water Tank - Avon, CT: Water leakage investigation of concrete tank

#### PROFESSIONAL AFFILIATIONS

- American Concrete Institute, Fellow
- American Institute of Steel Construction
- American Society of Civil Engineers, Fellow
- Concrete Reinforcing Steel Institute
- Post-Tensioning Institute
- Precast/Prestressed Concrete Institute, Fellow
- Structural Engineers Association of Illinois

#### TECHNICAL COMMITTEES

- ACI C608 - Adhesive Anchor Installer Certification
- ACI 318 - Subcommittee B Reinforcement and Anchorage
- ACI 355 - Anchorage to Concrete, past chairman
- ACI 533 - Precast Panels, past chairman
- CRSI - Anchorages and Splices Committee
- CRSI - Design Aids Committee, chairman
- PCI - Research and Development
- PCI - Insulated Wall Panels

#### AWARDS

- American Concrete Institute Chicago Chapter - Henry Crown Award
- Prestressed Concrete Institute - Martin P. Korn Award
- American Concrete Institute - Delmar Bloem Distinguished Service Award