



## PERSONNEL QUALIFICATIONS

### Ralf Leistikow | Principal



#### EDUCATION

- Georgia Institute of Technology
  - Bachelor of Science, Civil Engineering, 1986
  - Master of Science, Civil Engineering, 1988

#### PRACTICE AREAS

- Collapse Investigation
- Disaster Response
- Materials Investigation
- Parking Structures
- Prestressed and Post-Tensioning
- Repair and Rehabilitation Design
- Structural Investigation
- Testing and Instrumentation

#### REGISTRATIONS

- Professional Engineer in AL, FL, GA, LA, MS, NC, and SC

#### PROFESSIONAL AFFILIATIONS

- American Concrete Institute
- American Society of Civil Engineers
- International Concrete Repair Institute
- Georgia Chapter of ICRI, past president

#### TECHNICAL COMMITTEES

- ACI 224 - Cracking of Concrete

#### CONTACT

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#### EXPERIENCE

Since joining WJE in 1991, Ralf Leistikow has been involved in numerous structural investigations, evaluations, and repair designs on low- and high-rise buildings as well as parking, commercial, and underground structures. His work includes the evaluation of post-tensioned, precast, and conventionally reinforced concrete structures; cast-in-place pavements and industrial floors; wood-framed and light gauge metal-framed structures; structural steel-framed structures; pre-engineered buildings and building components; and concrete, brick masonry, stone, stucco, and EIFS wall systems.

Mr. Leistikow evaluates and prepares documents for concrete repairs on various above- and below-grade structures located nationwide. He participates in and leads the investigation of structural damage and deterioration related to excessive loadings, deflections, deficient construction materials, moisture infiltration, fire, and corrosion. These projects include the evaluation and repair design of deteriorated embedded items such as corroded post-tensioning strands, mild reinforcing, and steel connections.

#### REPRESENTATIVE PROJECTS

##### Collapse Investigation

- Atlanta Botanical Gardens Canopy Walkway - Atlanta, GA: Investigation of partially collapsed steel pedestrian bridge structure and temporary falsework
- Mansell Road Office Building - Alpharetta, GA: Investigated collapse of steel frame and composite slab
- Orme Street Trunk Combined Sewer - Atlanta, GA: Investigation of unreinforced concrete tunnel

#### Disaster Response

- Fire Damage Assessment: Field investigation and analysis of multiple fire-damaged structural steel, wood, and concrete structures
- Hurricane and Tornado Damage Assessments: Field investigation and analysis of wind and surge-related damage on multiple commercial, government, and residential projects following hurricanes Marilyn (1995), Charley (2004), Ivan (2004), Katrina (2005), Wilma (2005), and the 2011 tornado season

#### Parking Structures

- Georgia Institute of Technology North Campus Parking Deck - Atlanta, GA: Evaluation and development of repair procedures for cracked columns and other construction defects
- Knoxville City and Knox County Building - TN: Investigation, long-term acoustic monitoring, and repair of post-tensioned parking structure

#### Repair and Rehabilitation Design

- Hilton Garden Inn at Sugarloaf - Duluth, GA: Condition survey and repair design of hollow core plank floor and concrete unit masonry wall systems following excessive differential building settlement
- Lowe's Motor Speedway - Concord, NC: Condition survey, load testing, and retrofit design

#### Structural Investigation

- Fox Theatre - Atlanta, GA: Condition survey of balcony and vibration study
- Snellville Billboards - Snellville, GA: Evaluation of billboard framing
- Transmission Towers - GA: Concrete foundation distress investigation