



#### EDUCATION

- University of Minnesota
  - Bachelor of Civil Engineering, 1997
  - Master of Science, Structural Engineering, 1999

#### PRACTICE AREAS

- Failure/Damage Investigation
- Concrete Structures
- Building Science
- Bridges and Civil Infrastructure
- Masonry
- Litigation Consulting
- Structural Metals
- Corrosion

#### REGISTRATIONS

- Professional Engineer in IA, KS, MI, MN, ND, SD, and NE

#### CONTACT

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#### EXPERIENCE

Mark Chauvin has significant experience investigating a wide variety of architectural and structural problems in buildings and bridges. His work includes inspection, analysis, and repair of structural capacity issues as well as investigation of deterioration, distress, and failure of wood, concrete, masonry, and steel systems, including multiple collapse investigations. Mr. Chauvin has also investigated building enclosure performance problems, including metal panel and masonry facades, EIFS and stucco claddings, and roofing and waterproofing systems.

In addition to his project work, Mr. Chauvin has conducted research to assess the effectiveness of several corrosion mitigation strategies implemented on a chloride-contaminated reinforced concrete bridge in Minneapolis.

#### REPRESENTATIVE PROJECTS

##### Failure/Damage Investigation

- I-35W Bridge - Minneapolis, MN: Investigation of collapse
- Heritage Lutheran Church - Apple Valley, MN: Investigation of roof collapse
- International Nutrition - Omaha, NE: Investigation of building collapse
- Life Time Fitness - Savage, MN: Investigation of precast plank collapse during construction
- Quality Time Lanes - Independence, KS: Investigation of roof collapse
- St. Mary's University - Winona, MN: Evaluation of Sheffield tile floor structures
- Thumper Pond Resort - Ottertail, MN: Investigation of roof collapse

##### Concrete Structures

- Central Ethanol Co-Op - Little Falls, MN: Assessment of fire damage to concrete silo
- Cold Spring Brewery - Cold Spring, MN: Investigation of concrete digester wall failure
- Red Star Yeast - Cedar Rapids, IA: Investigation of concrete anchorage failures
- Transit Center - Maple Grove MN: Investigation of concrete construction issues
- Planned Parenthood - St. Paul, MN: Investigation of column reinforcing issues
- U.S. Naval Facility - Quantico, VA: Investigation and repair of concrete digester

##### Building Science

- U.S. Bank Stadium - Minneapolis, MN: Exterior enclosure consulting
- 1st National Bank Building - St. Paul, MN: Assessment of limestone facade
- Academy of Holy Angels - Richfield, MN: Roof replacement design and construction observations
- Courtyard by Marriott - Lincoln, NE: Investigation of leakage and condensation
- La Quinta Inn & Suites - Bloomington, MN: Investigation of stucco cladding failure
- Mount Rushmore, Lincoln Borglum Visitor Center - Keystone, SD: Inspection of granite facade distress
- Minnesota Public Radio - St. Paul: Assessment of metal panel facade issues
- Shrine of our Lady of Guadalupe - LaCrosse, WI: Investigation of condensation issues
- The Falls at Riverplace - Minneapolis, MN: Investigation of building envelope leakage
- Metropolitan Opera House - New York, NY: Inspection of travertine facade distress
- Washington County Government Center - Stillwater, MN: Repair of exterior envelope
- Westin Edina Galleria - Edina, MN: Investigation of curtain wall leakage
- Winona State University - Winona, MN: Investigation and repair of tunnel leakage

##### Bridges and Civil Infrastructure

- Third Avenue Bridge - Minneapolis, MN: Condition assessment and repair design
- Martin Olav Sabo Pedestrian Bridge - Minneapolis, MN: Evaluation and repair of stay-cable failures
- Grey Cloud Island Bridge - St. Paul Park, MN: Assessment of construction damage
- Lowry Avenue Bridge - Minneapolis, MN: Instrumentation and monitoring of pier movement
- Minnesota Bridge 02037 - Coon Rapids: Inspection, regrouting, and corrosion monitoring of post-tensioned tendons
- Minnesota Bridge 27099 - Minneapolis: Condition assessment and service life analysis
- Union Depot - St. Paul, MN: Condition assessment of train deck structure and construction observations during repair