

Paul Krauss | Principal



EDUCATION

- The University of Vermont
 - Bachelor of Science, Civil Engineering, 1980

PRACTICE AREAS

- Concrete Deterioration
- Construction Troubleshooting
- Corrosion Protection
- Materials Investigation
- Precast Concrete and Pipe
- Repair and Rehabilitation Design
- Research, Testing, and Quality Control

REGISTRATIONS

- Civil Engineer in CA
- Professional Engineer in IL and MT

PROFESSIONAL AFFILIATIONS

- American Concrete Institute
- ASTM International
- American Concrete Pipe Association

CONTACT

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EXPERIENCE

Paul Krauss' consulting activities at WJE have included all aspects of concrete construction and rehabilitation. His experience has included field investigations and laboratory research into numerous construction failures and problems involving concrete, steel, polymer concrete, coatings, and sealers. Mr. Krauss routinely uses structural instrumentation and nondestructive testing techniques to solve complex materials problems.

Mr. Krauss has been project manager for many research projects involving solutions for bridge deck cracking, corrosion resistant steel, and concrete durability. These studies were conducted for many notable organizations such as the National Cooperative Highway Research Program, Concrete Reinforcing Steel Institute (CRSI), and Federal Highway Administration (FHWA).

Mr. Krauss joined WJE after working with the California Department of Transportation (Caltrans). As Chief of the Portland Cement Concrete and Structures Branch of the Transportation Laboratory, he supervised testing and research laboratory for concrete structures and pavements.

REPRESENTATIVE PROJECTS

Concrete Rehabilitation

- Martin Marietta: Manual for repair materials and techniques for concrete structures in nuclear power plants
- U.S. Army Corps of Engineers: Evaluation of injection materials for repair of deep cracks in concrete structures

Testing and Quality Control

- Quality Control Programs for the National Precast Concrete Association, the American Concrete Pipe Association, and the Concrete Reinforcing Steel Institute

Corrosion Protection

- Minnesota Department of Transportation: Corrosion investigation of four bridges built between 1973 and 1978 containing epoxy-coated reinforcing steel

High Performance Concrete

- Wacker Drive Viaduct Reconstruction: Development of high-performance concrete and site quality control

Research and Testing

- NCHRP Report 380: Transverse cracking in newly constructed bridge decks
- FHWA Research: New breeds of corrosion resistant-reinforcing steel for seventy-five-to-one-hundred-year service life
- Caltrans: New materials and techniques for the repair of concrete structures

TECHNICAL COMMITTEES

- ACI E7 - Education
- ACI 548 - Polymers in Concrete
- ASTM 13.03 - Concrete Pipe Durability
- SHRP - Assessment of Physical Condition of Concrete Bridges
- SHRP - Rehabilitation-Non-Electrochemical Techniques