

### Brian E. Kehoe | Associate Principal



#### EDUCATION

- Northwestern University
  - Bachelor of Science, Civil Engineering, 1981
- University of California, Berkeley
  - Master of Science, Civil Engineering, 1984

#### PRACTICE AREAS

- Earthquake Engineering
- Historic Preservation
- Structural Analysis
- Stadiums and Arenas
- Bridges and Infrastructure
- Failure Investigation
- Parking Structures
- Repair and Rehabilitation
- Seismic Repair and Retrofit

#### REGISTRATIONS

- Professional Engineer in CA, OR, and WA
- Structural Engineer in CA, HI, OR, and UT

#### PROFESSIONAL AFFILIATIONS

- American Concrete Institute
- American Society of Civil Engineers
- Earthquake Engineering Research Institute

#### CONTACT

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#### EXPERIENCE

Brian Kehoe is an expert in performing seismic evaluations, conducting design reviews, and designing repairs to structures damaged during catastrophic events. He has assessed structural damage to buildings in the United States and abroad after several major earthquakes. Mr. Kehoe has designed repairs for buildings constructed of unreinforced masonry, wood, concrete, and steel. He has designed seismic bracing for various nonstructural building components. Mr. Kehoe has experience investigating and designing repairs for structures that have been impacted by or have deteriorated or damaged by other catastrophes, such as fires, corrosion, wood decay, or cracking. He has performed finite element analyses for various structures for wind, earthquake, and other types of loading. He participates in committees that develop and update codes and guidelines for the seismic evaluation of existing buildings and the seismic design of new buildings.

#### REPRESENTATIVE PROJECTS

##### Earthquake Engineering

- FEMA 154, Rapid Visual Screening of Buildings, Applied Technology Council: Member of Project Management Committee developing third edition of guideline document
- American Samoa Department of Homeland Security: Seismic evaluation of four essential buildings
- Washington Monument and Lincoln Memorial - Washington, D.C.: Assessment of post-seismic damage and recommended repairs
- United Airlines Maintenance Facility - San Francisco, California: Seismic evaluation and retrofit design of anchorage for existing tanks
- Universidad del Sagrado Corazon - San Juan, Puerto Rico: Seismic assessments of campus buildings and development of conceptual seismic strengthening

##### Historic Preservation

- Alcatraz Island, Alcatraz Guardhouse- San Francisco, CA: Seismic strengthening design for historic unreinforced masonry structure
- Faculty Club, University of California - Berkeley, CA: Investigation and design of repairs to historic wood-framed building

- Giannini Hall - Berkeley, CA: Design of exterior wall concrete repairs
- White Wolf Lodge - Yosemite Park, CA: Structural evaluation and rehabilitation for historic wood-framed lodge and cabins
- American Legation - Tangier, Morocco: Structural evaluation of settlement and seismic evaluation

#### Bridges and Infrastructure

- Guy West Bridge - Sacramento, CA: Analysis and design of suspender replacement
- Bidwell Bar Bridge - Oroville, CA: Condition assessment of main cables and suspenders
- San Francisco International Airport AirTrain - CA: Condition assessment of concrete and steel box girder structures supporting more than six miles of track
- Oregon City Arch Bridge - West Lynn: Engineer of record for design of shotcrete encasement for historic structural steel arch bridge
- San Francisco International Airport Viaduct - CA: Design of repairs for prestressed concrete elevated roadway
- Emeryville Amtrak Bridge - Emeryville, CA: Seismic evaluation of an existing pedestrian bridge to assess impact of proposed modifications

#### Failure Investigation

- Aircraft Hangar - Napa, CA: Investigation of collapse of large steel framed door
- Conference Center Parking Garage - Fresno, CA: Evaluation of collapse of precast concrete framing and design of repairs
- Phoenix Sky Harbor International Airport Rental Car Center - AZ: Investigation of formwork collapse supporting concrete floor framing

#### TECHNICAL COMMITTEES

- ACI 360 - Design of Slabs on Ground
- ACI 369 - Seismic Repair and Rehabilitation
- ACI 374 - Performance-Based Seismic Design of Concrete Buildings
- ASCE 41 - Seismic Evaluation and Retrofit of Existing Buildings, (steering committee member)