

### 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
- Structural Analysis
- Stadiums and Arenas
- Bridges
- Parking Structures
- Repair and Rehabilitation
- Historic Preservation
- Seismic Repair and Retrofit

#### REGISTRATIONS

- Professional (Civil) Engineer in CA and OR
- Structural Engineer in CA, HI, OR, and UT

#### PROFESSIONAL AFFILIATIONS

- American Concrete Institute
- American Society of Civil Engineers
- Building Seismic Safety Council
- Earthquake Engineering Research Institute

#### TECHNICAL COMMITTEES

- ACI 360 - Design of Slabs on Ground
- ACI 374 - Performance-Based Seismic Design of Concrete Buildings
- ASCE 25 - Earthquake-Actuated Automatic Gas Shutoff Valves
- ASCE 41 - Seismic Evaluation and Retrofit of Existing Buildings (steering committee member)

#### EXPERIENCE

Brian Kehoe is an expert in performing seismic evaluations, conducting design reviews, and designing repairs to structures damaged during catastrophic events such as major earthquakes. 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 a variety of nonstructural building components.

Mr. Kehoe is experienced in investigating and designing repairs for structures that have been impacted by or have deteriorated as a result of other catastrophes such as fires, corrosion, wood decay, or cracking. He has also performed finite element analyses for a variety of structures for wind, earthquake, and other types of loading.

Mr. Kehoe has developed training courses and conducted presentations throughout the country for FEMA on seismic design and evaluation of buildings and nonstructural components. He actively participates in committees that develop and update codes and guidelines for the seismic evaluation of existing buildings and for the seismic design of new buildings.

#### REPRESENTATIVE PROJECTS

##### Earthquake Engineering

- ATC 43, Applied Technology Council: Development of guidelines for evaluation and repair of earthquake-damaged concrete and masonry shear wall buildings
- Benton County Schools - Benton County, OR: Seismic evaluation of fourteen primary and secondary school campuses
- FEMA 154, Rapid Visual Screening of Buildings, Applied Technology Council: Member of Project Management Committee developing third edition of guideline document
- U.S. Department of State Facilities: Seismic evaluation of existing residential buildings in several countries; and earthquake damage evaluation of buildings in Algiers, Algeria and Port-au-Prince, Haiti
- Washington Monument/Lincoln Memorial - Washington, D.C.: Assessment of post-seismic damage and recommended repairs

- United Airlines Maintenance Facility, San Francisco: Seismic evaluation and retrofit design for various hazardous waste tanks

#### Stadiums and Arenas

- Aloha Stadium - Honolulu, HI: three-dimensional finite element analysis of framing for stadium bleachers
- Spartan Stadium - San Jose, CA: Condition assessment and repair design for precast concrete bleachers supported on steel framing and scoreboard supports

#### Bridges

- Guy West Bridge, Sacramento, CA: Analysis and design of suspender replacement
- San Francisco Airport AirTrain - San Francisco, CA: Condition assessment of concrete and steel box girder structures supporting more than six miles of track
- San Francisco Airport Viaduct, San Francisco, CA: Condition assessment of prestressed concrete elevated roadway

#### Parking Structures

- Conference Center Parking Garage - Fresno, CA: Prestressed concrete damage evaluation and structural and seismic upgrade design
- North Garage, San Jose State University - San Jose, CA: Evaluation of corrosion of post-tensioning tendons and repair design

#### Repair and Rehabilitation

- Alcatraz Guardhouse, Alcatraz Island - San Francisco, CA: Seismic strengthening design for historic unreinforced masonry structure
- Clorox Plaza, Oakland, CA - Structural evaluation and design of elevated concrete plaza structure for new landscaping
- 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

#### CONTACT

bkehoe@wje.com  
510.428.2907  
www.wje.com