



#### EDUCATION

- University of California, Berkeley
  - Bachelor of Science, Civil Engineering, 1987
  - Master of Engineering, Structural Engineering, 1989

#### PRACTICE AREAS

- Bridges and Civil Infrastructure
- Code Consulting
- Earthquake Damage Assessment
- Failure/Damage Investigations
- Fire Damage
- Historic Preservation
- Instrumentation/Monitoring/Load Testing
- Litigation Consulting

#### REGISTRATIONS

- Civil Engineer in CA
- Structural Engineer in CA and HI

#### CONTACT

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#### EXPERIENCE

Kent Sasaki has performed engineering investigations on hundreds of structures, including high-rise buildings, warehouses, apartment buildings, houses, bridges, tunnels, aqueducts, seawalls, wharfs, water tanks, power plants, historic structures, mine processing buildings, and monuments. He investigates damage from earthquakes, fire, earth movement, flooding, vibration, blast, and construction defects.

Mr. Sasaki provides expertise in the differentiation between old and new damage; application of building codes to the repair of structures; and evaluation of materials using nondestructive, destructive, load, and laboratory testing. He has substantial experience with insurance and litigation claims, investigates large collapses, designs repairs and seismic retrofits, and evaluates defect claims. Mr. Sasaki assesses structures affected by corrosion and alkali-silica reaction (ASR), authors technical papers, conducts research, and provides expert trial testimony. As a Commissioner for the California Building Standards Commission, Mr. Sasaki reviews and approves building codes (Title 24) for the state.

#### REPRESENTATIVE PROJECTS

##### Bridges and Civil Infrastructure

- Caltrans Bridge Deck Cracking Research - CA: Investigation of early-age, concrete bridge deck cracking
- Sixth Street Bridge - Los Angeles, CA: Evaluation of ASR cracking on historic bridge

##### Code Consulting

- Saint Patrick Proto Cathedral - San Jose, CA: Determination of code-required repairs for fire-damaged church
- Willows Apartments - Martinez, CA: Design of repairs for fire-damaged apartment building

##### Earthquake Damage Assessment

- 2014 Napa; 2011 Virginia; 2011 Tohoku, Japan; 2001 Nisqually; 1994 Northridge; and 1989 Loma Prieta earthquakes
- Washington Monument - Washington, D.C.: Assessment of damage after 2011 Virginia earthquake

#### Failure/Damage Investigations

- Interstate 40 Bridges - Mojave Desert, CA: Investigation of failure of concrete bridges due to fatigue
- Water Tank - Westminster, CA: Investigation of rupture in water tank due to corrosion of reinforcing steel

#### Fire Damage

- Interstate 5 Tunnel - Santa Clarita, CA: Assessment of fire damage to 550-foot-long tunnel
- MacArthur Maze Interchange - Oakland, CA: Assessment of fire damage to highway structures
- Renoir Hotel - San Francisco, CA: Assessment of fire damage to historic hotel

#### Historic Preservation

- Fort Cronkhite Barracks - Marin Headlands, CA: Design of seismic retrofit for historic barracks
- Wawona Hotel - Yosemite National Park, CA: Design of seismic retrofit for historic hotel

#### Instrumentation/Monitoring/Load Testing

- Aqueduct - CA: Instrumentation for monitoring steel strain at large-diameter steel aqueduct
- Courthouse Square - Salem, OR: Load testing on concrete floor slabs at office building and bus mall

#### Litigation Consulting

- The Versailles Apartments - Los Angeles, CA: Expert testimony on applicability and requirements of historical building code
- San Quentin Prison - San Quentin, CA: Investigation of seawall damage and construction defects

#### PROFESSIONAL AFFILIATIONS

- American Concrete Institute
- American Society of Civil Engineers, Past Section President
- California Building Standards Commission, Commissioner
- Earthquake Engineering Research Institute
- International Code Council
- Structural Engineers Association of California