

Kari Klaboe | Senior Associate



EXPERIENCE

Kari Klaboe has performed investigations on a wide range of structures, including steel, concrete, wood, and masonry. Ms. Klaboe's experience includes seismic performance evaluation and seismic retrofit design of modern and historic buildings, and repair and rehabilitation of structures damaged due to natural disasters, fire damage, or deterioration such as wood decay or corrosion. Her work has included investigations of structures in the United States and abroad, with a focus on post-earthquake damage assessment of buildings.

EDUCATION

- Michigan Technological University
 - Bachelor of Science, Civil Engineering, 2009
- Purdue University
 - Master of Science, Civil Engineering, 2011

PRACTICE AREAS

- Concrete Structures
- Earthquake Damage Assessment
- Structural Evaluation
- Repair and Rehabilitation
- Seismic Repair and Retrofit
- Failure/Damage Investigations
- Earthquake Engineering
- Litigation Consulting

REGISTRATIONS

- Civil Engineer in CA
- Professional (Structural) Engineer in NV
- Structural Engineer in AZ and CA

PROFESSIONAL AFFILIATIONS

- American Society of Civil Engineers
- Earthquake Engineering Research Institute
- Structural Engineers Association of Northern California

CONTACT

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REPRESENTATIVE PROJECTS

Structural Evaluation

- Harmon Tower - Las Vegas, NV: Investigation and nonlinear seismic analysis of a high-rise reinforced concrete building
- Liberian Port Silo - Liberia, Africa: Code review and determination of granular material loads for a reinforced concrete silo
- Multifamily Residential Buildings - HI: Code and design review for wind loading for multifamily residential buildings
- Courthouse Square - Salem, OR: Investigation of slab deflections and load testing of a five-story office building and below-grade parking structure
- McGuire Building - Seattle, WA: Nonlinear seismic analysis of a twenty-five-story reinforced concrete building

Repair and Rehabilitation

- San Francisco International Airport Viaduct - CA: Condition assessment of prestressed concrete elevated roadway
- Parking Garages - Stanford, CA: Condition assessments of multiple post-tensioned parking garage structures and testing of in-place post-tensioning tendons
- Office Building - Mumbai, India: Structural assessment and repair to address corrosion and chloride contamination at a reinforced concrete, post-tensioned office building
- Historic Adobe Building - Santa Fe, NM: In-field testing for decay in wood vigas in roof framing of building listed as a National Historic Landmark

Seismic Repair and Retrofit

- Heart Mountain Chimney - Park County, WY: Nonlinear seismic analysis and retrofit design of historic unreinforced masonry chimney at National Historic Landmark site
- Historic Structure - Hanford, WA: Seismic performance evaluation of historic steel and masonry building listed as National Historic Landmark
- Riggers Loft - Richmond, CA: Seismic retrofit design of historic World War II shipbuilding facility listed on National Register of Historic Places

Failure/Damage Investigations

- Jet Fuel Tank - Andersen AFB, Guam: Investigation of partial roof collapse at above-ground, closed-top steel jet fuel tank
- Multifamily Residential Buildings - CA: Structural assessment and repair design to address wood decay at various residential buildings in northern California
- Earthquake Damage Assessment: Post-earthquake damage assessments of multiple properties following earthquakes in Puerto Rico, Mexico, California (Napa), and Haiti

Earthquake Engineering

- FEMA P-1100 Working Group: *Vulnerability-Based Seismic Assessment and Retrofit of One- and Two-Family Dwellings*
- Confidential - Worldwide: Seismic assessment of existing residential buildings of varied construction

Litigation Consulting

- Office Building - San Francisco, CA: Investigation of reinforced concrete, deep foundations for high-rise office building
- Apartment Building - Los Angeles, CA: Investigation of damage claims for podium-style apartment building with below-grade reinforced concrete parking structure