

Resume

Kenneth R. Lajoie, Ph.D.

Education:

BA: University of California Berkeley, 1963, Geology major

Ph.D.: University of California Berkeley, 1968

- Dissertation: Late Quaternary Stratigraphy and Geologic History of Mono Basin, CA

National Science Foundation teaching fellowship

National Science Foundation post doctorate fellowship:

- Lamont Geological Observatory, Columbia University, NY, 1968-1970

Professional Career:

U.S. Geological Survey, Menlo Park, CA, 1970 – 2000

Principal Investigator on the following projects:

- Environmental geology of the San Francisco Bay region, CA
- Earthquake hazards of the San Francisco Bay region, CA
- Coastal hazards of San Mateo County, CA
- Coastal tectonics of California
- Amino-acid racemization dating of Quaternary fossil mollusks
- Electron-spin resonance dating of Quaternary fossil mollusks
- Paleoecology of fossil marine moluscan faunas of coastal California
- Paleomagnetic dating of Quaternary sediments of the western Los Angeles Basin, CA
- Quaternary stratigraphy and tectonic framework of western Los Angeles Basin, CA
- Trace-element correlations of young volcanic ashes western USA
- Paleomagnetic correlations of Quaternary lake sediments of the western Great Basin, USA
- Argon/Argon dates of young volcanic ashes of Mono Basin, CA
- Coastal tectonic studies of central Chile, Japan, New Zealand, Greece and Turkey
- Paleoseismology and coastal tectonics of Prince William Sound, Alaska
- Seismic-hazard evaluation of proposed and existing nuclear power-plant sites at Humboldt Bay, Point Arena, Davenport, Diablo Canyon and San Onofre, CA
- Seismic-hazard evaluation of proposed liquid natural gas (LNG) site at Point Conception, CA
- Impacts of 1982 - 83 and 1997 - 98 El Nino climatic events in coastal San Mateo County, CA
- Mapped landslides in San Mateo County, CA following the 1997 - 1998 El Nino climatic event
- Mapped earthquake ground ruptures at Superstition Hills and Landers, CA
- Post-earthquake studies following the Arcata, Coyote Lake, and Loma Prieta, CA seismic events

Professional and Scientific Committees

- UNESCO Holocene Shorelines Projects, 1975 - 1985
- National Academy of Sciences Panel on Active Tectonics, 1985 (coastal tectonics)
- Advisor to the California Coastal Commission on coastal hazards
- Invited technical expert at US congressional subcommittee hearings on protecting Mono Lake, CA
- Numerous invited television, radio and public appearances to discuss seismic and coastal hazards and environmental issues
- Science advisory panel for Save Our Shores
- Science advisory panel for water-quality study of Napa Valley, CA

Independent Research, 2000 – 2010

- The origin and history of San Francisco Bay, CA
- Sea-level rise San Francisco Bay CA
- Conditions controlling oyster and peat distribution San Francisco Bay, CA
- Alluvial fan formation of the south San Francisco Bay region, Napa Valley and Sacramento Valley, CA
- Late Quaternary geologic evolution of the Sacramento area, CA
- Coastal processes and hazards of San Mateo County, CA
- The stratigraphic formation of pelecypod shells
- Recurrence theory of episodic natural events
- Geophysical studies of the Giza Plateau, Egypt with the Giza Plateau Mapping Project, 2003
- Study of alluvial fan formation on the southern Giza Plateau, Egypt with the Giza Plateau Mapping Project, 2005
- The construction and destruction of the third – fourth dynasty pyramid at Meidum, Egypt
- Evaluate and reinterpret radiocarbon dates of Old to Middle Kingdom monuments in Egypt