## REFERENCES

- Anderson, L.W., Anders, M.H., and Ostenaa, D.A., 1982, Late Quaternary faulting and seismic hazard potential eastern Diablo Range, California: California Division of Mines and Geology Special Publication, v. 62, p. 197-206.
- Anderson, R.S., and Menking, K. M., 1994, The Quaternary marine terraces of Santa Cruz, California: evidence for coseismic uplift on two faults: Geological Society of America Bulletin, v. 106, no. 5, p. 649-664.
- Andrews, D.J., Oppenheimer, D. H., and Lienkaemper, J. J., 1993, The Mission Link between the Hayward and Calaveras faults: Journal of Geophysical Research, v. 98, no. B7, p. 12,083-12,095.
- Andrews, D.J., and Schwerer, E., 2000, Probability of rupture of multiple fault segments, , vol., no., pp..: Bulletin of the Seismological Society of America, v. 90, no. 6, p. 1498-1506.
- Andrews, D.J., and Schwerer, E., 2000, Probability of rupture of multiple fault segments: Bulletin of the Seismological Society of America, v. 90, no. 6, p. 1498-1506.
- Argus, D.F., and Gordon, R.G., 1991, Current Sierra Nevada- North American motion from very long baseline interferometry—implications for the kinematics of the western United States: Geology, v. 19, p. 1085-1088.
- Argus, D.F., and Gordon, R.G., 2001, Present tectonic motion across the Coast Ranges and San Andreas fault system in central California: Geological Society of America Bulletin, v. 113, no. 12, p. 1580-1592.
- Bakun, W.H., 1980, Seismic activity on the southern Calaveras fault in central California: Seismological Society of America Bulletin, v. 70, no. 1181-1197.
- Bakun, W.H., 1998, Modified Mercalli intensities for some recent California earthquakes and historic San Francisco Bay region earthquakes: U.S. Geological Survey Open-File Report 98-584, p. 175 pp.
- Bakun, W.H., 1999, Seismic Activity of the San Francisco Bay Region: Bulletin Seismological Society of America, v. 89, p. 764-784.
- Bakun, W.H., M.M. Clark, R.S. Cockerham, W. L. Ellsworth, A. G. Lindh, W. H. Prescott, A. F. Shakal, and P. Spudich (1984). The 1984 Morgan Hill, California, earthquake, Science 225, 288-291.
- Bakun, W.H., King, G. C. P., and Cockerham, R. S., 1986, Seismic slip, aseismic slip, and the mechanics of repeating earthquakes on the Calaveras fault, California: Earthquake Source Mechanics, Geophysical Monograph 37, Am. Geophys. Union, p. 195-207.
- Baldwin, J.N., and Lienkaemper, J.J., 1999, Paleoseismic investigations along the Green Valley fault, Solano County, California: U.S. Geol. Surv.
- J.N. Baldwin, K.L. Knudsen, A. Lee, C.S. Prentice, R. Gross, 2001, Preliminary estimate of coseismic displacement of the penultimate earthquake on the Northern San Andreas Fault, Pt. Arena, California, in Proceedings of the 3rd Conference on Tectonic Problems of the San Andreas Fault System, September 6-8, 2000, Stanford University 15 pp. [http://pangea.stanford.edu/GP/sanandreas2000/Baldwin.pdf]
- Bonilla, M.G., Lienkaemper, J. J., and Tinsley, J. C., 1980, Surface faulting near Livermore,

California associated with the January 1980 earthquakes: U.S. Geological Survey Open-File Report 80-523, p. 32 p. and 1 pl.

- Bonilla, M.G., and Lienkaemper, J.J., 1990, Visibility of fault strands in exploratory trenches and timing of rupture events: Geology, v. 18, no. 2, p. 153-156.
- Boore, D.M., W.B. Joyner, and T.M. Fumal, Estimation of response spectra and peak accelerations from western North American earthquakes: a summary of recent work, *Seism. Res. Lett.*, **66**, 128-153, 1997.
- Borcherdt, R.D., Estimates of site-dependent response spectra for design (methodology and justification), *Earthquake Spectra*, **10**, 1964-1978, 1994.
- Borchardt, G.S., David L; Wills, Chris J, 1999, Holocene slip rate of the Concord Fault at Galindo Creek in Concord, California: National Earthquake Hazards Program Final technical report, National Earthquake Hazards Program, U. S. Geological Survey, Library, Reston, VA, United States.
- Borchardt, G., and Baldwin, J., 2001, Late Holocene behavior and seismogenic potential of the Concord-Green Valley fault system in Contra Costa and Solano counties, California: Calif. Geol. Surv. Bull., v. 210, p. 229-239.
- Bortugno, E.J., McJunkin, R.D., and Wagner, D.L., 1992, Map showing recency of faulting, San Francisco-San Jose quadrangle, California: California Division of Mines and Geology Regional Geologic Map Series, Map 5A, Sheet 5, map scale 1:250,000.
- Bowman, D.D., Ouillon, G., Sammis, C.G., Sornette, A., and Sornette, D., 1998, An observational test of the critical earthquake concept: Journal of Geophysical Research, B, Solid Earth and Planets, v. 103, no. 10, p. 24,359-24,372.
- Bryant, W.A., Smith, D.P., and Hart, E.W., 1981, Sargent, San Andreas and Calaveras fault zone--evidence for recency in the Watsonville East, Chittenden and San Felipe quadrangles, California: California Division of Mines and Geology Open-File Report 81-7 SF (3 map sheets at 1:24,000 scale).
- Bryant, W.A., 1985, Faults in the southern Monterey Bay area, Monterey County: California Division of Mines and Geology Fault Evaluation Report FER-167 [unpublished report, included in archive, staff, CDMG, 1990].
- Budding, K.E., Schwartz, D.P., and Oppenheimer, D.H., 1991, Slip Rate, Earthquake Recurrence, and Seismological Potential of the Rodgers Creek fault zone, Northern California: Geophysical Research Letters, v. 18, p. 447-450.
- Bufe, C.G., and Varnes, D.J., 1993, Predictive modelling of the seismic cycle of the greater San Francisco Bay region: Journal of Geophysical Research, B, Solid Earth and Planets, v. 98, p. 9871-9883.
- Burgmann, R., Schmidt, D., Nadeau, R.M., d'Alessio, M., Fielding, E., Manaker, D., McEvilly, T.V., and Murray, M.H., 2000, Earthquake potential along the northern Hayward Fault, California: Science, v. 289, no. 5482, p. 1178-1182.
- Castillo, D.A., and Ellsworth, W. L., 1993, Seismotectonics of the San Andreas fault system between Point Arena and Cape Mendocino in northern California: implications for the development and evolution of a young transform: Journal of Geophysical Research, v. 98, no. B4, p. 6543-6560.

- CDMG staff, 1990, Microfiche copies of Fault Evaluation Reports for the southern Coast Ranges: California Division of Mines and Geology Open-File Report 90-11, 4 p., 1 pl. and microfiche archive.
- Chamberlin, T.C., 1890, The method of multiple working hypotheses: Science, v. 15, p. 92-97.
- Clark, M.M., Harms, K.K., Lienkaemper, J.J., Harwood, D.S., Lajoie, K.R., Matti, J.C., Perkins, J.A., Rymer, M.J., Sarna-Wojcicki, A.M., Sharp, R.V., Sims, J.D., Tinsley, J.C. III, and Ziony, J.I., 1984, Preliminary slip-rate table and map of late-Quaternary faults of California: U.S. Geological Survey Open-File Report 84-106; 12 p., 5 plates, map scale 1:1,000,000.
- Cockerham, R.S., Lester, F. W., and Ellsworth, W. L., 1980, A preliminary report on the Livermore Valley earthquake sequence January 24-February 26, 1980: U.S. Geological Survey Open-File Report 80-714; 54 p.
- Cooper, A., 1973, Structure of the contintental shelf west of San Francisco, California: U.S. Geological Survey Open-File Report 73-1907; 65 p.
- Coppersmith, K.J., 1979, Activity assessment of the Zayante-Vergeles fault, central San Andreas fault system, California, University of California, Santa Cruz, unpub. Ph.D. dissertation, 210 p.
- Cornell, C.A., 1968, Engineering seismic risk analysis: Bulletin of the Seismological Society of America, v. 58, p. 1583-1606.
- Cornell, C.A., and Winterstein, S.R., 1988, Temporal and magnitude dependence in earthquake recurrence models: Bulletin of the Seismological Society of America, v. 78, no. 4, p. 1522-1537.
- Crane, R.C., 1995, Geology of the Mount Diablo region (abs.): AAPG Bulletin, v. 79, p. 582.
- DeMets, C., Gordon, R.G., Argus, D.F., and Stein, S., 1994, Effects of recent revisions to the geomagnetic reversal of time scale on estimates of current plate motions: Geophysical Research Letters, v. 21, no. 20, p. 2191-2194.
- DeMets, C., 1995, A reappraisal of seafloor spreading lineations in the Gulf of California: Implications for the transfer of Baja California to the Pacific plate and estimates of Pacific-North America motion: Geophysical Research Letters, v. 22, no. 24, p. 3545-3548.
- DeMets, C., and Dixon, T.H., 1999, New kinematic models for Pacific-North America motion from 3 Ma to present; I, Evidence for steady motion and biases in the NUVEL-1A model: Geophysical Research Letters, v. 26, no. 13, p. 1921-1924.
- Dietz, L., and Ellsworth, W.L., 1990, The October 17, 1989, Loma Prieta, California, earthquake and its aftershocks: geometry of the sequence from high-resolution locations: Geophys. Res. Letts., v. 17, p. 1417-1420.
- Dietz, L.D., and Ellsworth, W.L., 1997, Aftershocks of the Loma Prieta earthquake and their tectonic implications, U. S. Geological Survey Professional Paper, p. D5-D47.
- Dietz, L.D., and Ellsworth, W.L., 1997, Aftershocks of the Loma Prieta earthquake and their tectonic implications, U. S. Geological Survey Professional Paper, p. D5-D47.
- Dixon, T.H., Robaudo, S., Lee, J., and Reheis, M.C., 1995, Constraints on present-day Basin and Range deformation from space geodesy: Tectonics, v. 14, p. 755-772.
- Ellsworth, W.L., Lindh, A.G., Prescott, W.H., and Herd, D.G., 1981, The 1960 San Francisco earthquake and the seismic cycle, Maurice Ewing Series, AGU, p. 126-140.

- Ellsworth, W.L., Olson, J.A., Shijo, L.N., and Marks, S.M., 1982, Seismicity and active faults in the eastern San Francisco Bay region: California Division of Mines and Geology Special Publication, v. 62, p. 83-91.
- Ellsworth, W.L., 1990, Earthquake history, 1769-1989, in The San Andreas fault system, California, U. S. Geological Survey Professional Paper, p. 153-187.
- Ellsworth, W.L., 1995, Characteristic earthquakes and long-term earthquake forecasts: implications of central California seismicity, *in* Cheng, F.Y., and Sheu, M.S., eds., Urban Disaster Mitigation: the Role of Science and Technology, Elsevier, p. 1-14.
- Ellsworth, W.L., Matthews, M.V., Nadeau, R.M., Nishenko, S.P., Reasenberg, P.A., and Simpson, R.W., 1999, A physically-based earthquake recurrence model for estimation of long-term earthquake probabilities: U. S. Geological Survey, OFR 99-522, 23 p.
- Fassinger, P.W., Kirking, B., Perry, P.R., Smith, K., Wong, W., and Yang, C., 2001, Projections 2002 – Forecasts for the San Francisco Bay Area to the Year 2025, Association of Bay Area Governments, Oakland, CA, 285 p.
- Feigl, K.L., Agnew, D. C., Bock, Y., Dong, D., Donnellan, A., Hager, B. H., Herring, T. A., Jackson, D. D., Jordan, T. H., King, R. W., Larsen, S., Larson, K. M., Murray, M. H., Shen, Z., and Webb, F. H., 1993, Space geodetic measurement of crustal deformation in central and southern California, 1984-1992: Journal of Geophysical Research, v. 98, no. B12, p. 21,677-21,712.
- Field, E.H., Jackson, D.D., and Dolan, J.F., 1999, A Mutually Consistent Seismic-Hazard Source Model for Southern California: Bulletin of the Seismological Society of America, v. 89, p. 559-578.
- Frankel, A., Mueller, C., Barnhard, T., Perkins, D., Leyendecker, E.V., Dickman, N. Hanson, S., and Hopper, M., 1996, National Seismic Hazard Maps: Documentation June 1996: U.S. Geological Survey Open-File Report 96-532, p. 44.
- Frankel, A., Mueller, C., Barnhard, T., Perkins, D., Leyendecker, E.V., Dickman, N. Hanson, S., and Hopper, M., 1997, National 1996 Seismic Hazard Maps: U.S. Geological Survey Open-File Report 97-131.
- Fumal, T.E., Heingarther, G.F., and Schwartz, D.P., 1999, Timing and slip of large earthquakes on the San Andreas fault, Santa Cruz Mountains, California: Geol. Soc. Am. Abstracts with Programs, v. 31, no. 6, p. A-56.
- Galehouse, J.S., 1990, Effect of the Loma Prieta earthquake on fault creep rates in the San Francisco Bay region: AGU 1989 fall meeting, late abstracts; Loma Prieta sessions [modified], v. 71, p. 288.
- Galehouse, J.S., 1995, Theodolite measurements of creep rates on San Francisco Bay region faults: U.S. Geological Survey Open-File Report 95-210, p. 335-346.
- Galehouse, J.S., 1998, Theodolite measurements of creep rates on San Francisco Bay region faults: National Earthquake Hazards Program Final technical report, National Earthquake Hazards Program, U. S. Geological Survey, Library, Reston, VA, United States.
- Galehouse, J.S., and Lienkaemper, J.J., 2003, Inferences drawn from two decades of alinement array measurements of creep on faults in the San Francisco Bay region: Bull. Seism. Soc. Am. (in review), v. 93, p. (in review).

- Gilbert, G.K., 1886, The inculcation of scientific method by example, with an illustration drawn from the Quaternary geology of Utah: , v. 31, p. 284-299.
- Gordon, R.G., and D. F. Argus, 1993, The San Andreas fault system in central California as the boundary between the Pacific and the Sierra Nevada-Great Valley microplate: kinematics from VLBI geodesy (abs.): Eos (American Geophysical Union, Transactions), v. 74, p. 64.
- Greensfelder, R., 1968, Aftershocks of the Truckee, California, earthquake of September 12, 1966: Seismological Society of America Bulletin, v. 58, no. 5, p. 1607-1620.
- Group, H.F.P., 1999, Timing of paleoearthquakes on the northern Hayward fault-preliminary evidence in El Cerrito, California: U.S. Geological Survey Open-File Report 99-318, 34 p.
- Hall, N.T., Hunt, T. D., and Vaughan, P. R., 1994, Holocene behavior of the San Simeon fault zone, south-central coastal California: Geological Society of America Special Paper, v. 292, p. 167-189.
- Hall, N.T., Wright, R. H., and Clahan, K. B., 1995, Final technical report, paleoseismic investigations of the San Andreas fault on the San Francisco Peninsula, California: USGS-NEHRP contract report, #14-08-0001-G2081, on file at U.S. Geological Survey, Reston, VA; 45 p., 26 figs., 2 tables, 27 plates.
- Hall, N.T., Wright, R.H., and Clahan, K.B., 1999, Paleoseismic studies of the San Francisco peninsula segment of the San Andreas fault zone near Woodside, California: Journal of Geophysical Research, v. 104, no. B10, p. 23,215-23,236.
- Hanks, T.C., and Kanamori, H., 1979, A moment-magnitude scale: Journal of Geophysical Research, v. 84, p. 2348-2350.
- Hanks, T.C., and Krawinkler, H., 1991, The 1989 Loma Prieta, California, earthquake and its effects: Introduction to the special issue: Seismological Society of America Bulletin, v. 81, p. 1415-1423.
- Hanks, T.C., 1997, Imperfect science: uncertainty, diversity, and experts: Eos (American Geophysical Union, Transactions), v. 78, p. 366-377.
- Hanks, T.C., and Bakun, W.H., 2002, A bilinear source-scaling model for M-log A observations of continental earthquakes: Bulletin of the Seismological Society of America, v. 92, p. 1841-1846.
- Hanson, K.L., and Lettis, W. R., 1994, Estimated Pleistocene slip rate for the San Simeon fault zone, south-central coastal California: Geological Society of America Special Paper, v. 292, p. 133-150.
- Harms, K.K., Harden, J.W., and Clark, M.M., 1987, Use of quantified soil development to determine slip rates on the Paicines fault, northern California (abs.): Geological Society of America Abstracts with Programs, 83rd Meeting, Cordilleran Section, v. 19, no. 6, p. 387.
- Harris, R.A., and Simpson, R.W., 1992, Changes in static stress on Southern California faults after the 1992 Landers earthquake: Nature, v. 360, no. 6401, p. 251-254.
- Harris, R.A., and Day, S.M., 1995, Numerical simulations of earthquakes spontaneously propagating along complex faults [abs.]: International Union of Geodesy and Geophysicists Meeting, Abstract volume A, p. 369.
- Harris, R.A., and Simpson, R.W., 1998, Suppression of large earthquakes by stress shadows: a comparison of Coulomb and rate-and-state failure: Journal of Geophysical Research, v. 103,

p. 24,439-24,451.

- Hart, E.W., 1981, Recently active strands of the Greenville Fault, Alameda, Contra Costa, and Santa Clara counties, California: California Division of Mines and Geology Open-File Report 81-8, scale 1:24,000.
- Hart, E.W., Bryant, W.A., Manson, M.W., and Kahle, J.E., 1986, Summary report, Fault evaluation program, 1984-1985, southern Coast Ranges region and other areas: California Division of Mines and Geology Open-File Report 86-3, 26 p., 1 plate, scale 1:500,000.
- Hart, E.W., 1992, Recently active traces of the Rodgers Creek fault, Sonoma County, California: Calif. Div. Mines Geol Open-File Rep., v. 92-7, p. 18 pp.
- Hartzell, S. H>, and T. H. Heaton (1986). Rupture history of the 1984 Morgan Hill, California earthquake from the inversion of strong motion records, Bull. Seism. Soc. Am. 76, 649-674.
- Hayward Fault Paleoearthquake Group (Lienkaemper, J.J., Schwartz, D. P., Kelson, K. I., Lettis, W. R., Simpson, G. D., Southon, J.R., Wanket, J.A., Williams, P.L.), 1999, Timing of Paleoearthquakes on the Northern Hayward Fault -- Preliminary Evidence in El Cerrito, California: U.S. Geol. Surv. Open-File Rep., v. 99-318, p. 34.
- Hedel, C.W., 1984, Maps showing geomorphic and geologic evidence for late Quaternary displacement along the Surprise Valley and associated faults, Modoc County, California: U.S. Geological Survey Miscellaneous Field Studies Map MF-1429, 2 sheets, scale 1:62,500.
- Heingartner, G.F., and Schwartz, D. P., 1996, Paleoseismic evidence for large magnitude earthquakes along the San Andreas fault in the southern Santa Cruz mountains, California: Eos (American Geophysical Union, Transactions), v. 77, p. p. 462.
- Herd, D.G., and Brabb, E.E., 1980, Faults at the General Electric test reactor site, Vallecitos Nuclear Center, Pleasanton, California: U.S. Geological Survey Administrative Report, 77 p.
- Hill, D.P.E., Jerry P; Jones, Lucile M, 1990, Seismicity, 1980-86, *in* Wallace, R.E., ed., The San Andreas fault system, California, U. S. Geological Survey Professional Paper, P 1515, p. 115-151.
- Hitchcock, C.S., Kelson, K. I., and Thompson, S. C., 1994, Geomorphic investigations of deformation along the northeastern margin of the Santa Cruz Mountains: U.S. Geological Survey Open-File Report 94-187; 51 p., 2 pl.
- Jachens, R.C., and Zoback, M.L., 1999, The San Andreas fault in the San Francisco Bay Region, California: Structure and kinematics of a young plate boundary: International Geology Review, v. 41, p. 191-205.
- Jackson, D.D., and Working Group on California Earthquake Probabilities, 1995, Seismic Hazards in Southern California: Probable Earthquakes, 1994 to 2024: Bulletin of the Seismological Society of America, v. 85, p. 379-439.
- Jackson, D.D., and Kagan, Y.Y., 1999, Testable earthquake forecasts for 1999: Seismological Research Letters, v. 70, no. 4, p. 393-403.
- Jaume, S.C., and Sykes, L.R., 1996, Evolution of moderate seismicity in the San Francisco Bay region, 1850 to 1993: Seismicity changes related to the occurrence of large and great earthquakes: Journal of Geophysical Research, v. 101, p. 765-789.

Jeffreys, H., 1976, The Earth (sixth edition ed.), Cambridge University Press, 574 p.

- Jennings, C.W., 1977, Geologic Map of California, 1:750,000: California Division of Mines and Geology, Geologic Data Map No.2.
- Jennings, C.W., 1992, Preliminary fault activity map of California: California Division of Mines and Geology Open-File Report 92-3, scale 1:750,000.
- Jennings, C.W., 1994, Fault activity map of California and adjacent areas with locations and ages of recent volcanic eruptions: California Division of Mines and Geology Data Map Series No. 6, 92 p., 2 plates, map scale 1:750,000.
- Joyner, W.B., and D.M. Boore, Peak horizontal acceleration and velocity from strong-motion records including the records from the 1979 Imperial Valley, California, earthquake, Bull. Seism. Soc. Amer., 71, 2011-2038, 1981.
- Kagan, Y.Y., and Knopoff, L., 1987, Random stress and earthquake statistics; time dependence: Geophys. J. R. Astr. Soc., v. 88, p. 723-731.
- Kelson, K.I., Simpson, G.D., Lettis, W.R., and Haraden, C.C., 1996, Holocene slip rate and recurrence of the northern Calaveras fault at Leyden Creek, eastern San Francisco Bay region: Journal of Geophysical Research, v. 101, no. B3, p. 5961-5975.
- Kelson, K.I., and others, 1998, Late Holocene slip rate and amounts of coseismic rupture along the central Calaveras fault, San Francisco Bay area, California: Final Technical Report submitted to the U.S. Geological Survey National Earthquake Hazard Reduction Program, Award Number 1434-HQ-97-GR-03151, 26 pp.
- Kelson, K., 2001, Geologic characterization of the Calaveras fault as a potential seismic source, San Francisco Bay area, California: Calif. Geol. Surv. Bull., v. 210, p. 179-192.
- Kenner, S., and Segall, P., 1999, Time-dependence of the stress shadowing effect and its relation to the structure of the lower crust: Geology, v. 27, no. 2, p. 119-122.
- Kenner, S.J., and Segall, P., 2000, Postseismic deformation following the 1906 San Francisco earthquake: Journal of Geophysical Research B, Solid Earth and Planets, v. 105, no. 6, p. 13,195-13,209.
- Knudsen, K.L., Witter, R.C., Garrison-Laney, C.E., Baldwin, J.N., and Carver, G.A., 1999, Evidence for earthquake-induced, rapid subsidence in estuarine sediment along northern fault: Final Technical Report, U.S. Geological Survey, Award 1434-HQ-97-GR-03009, 51 p.
- Knudsen, K.L., Witter, R.C., Garrison-Laney, C.E., Baldwin, J.N., and Carver, G.A., 2002, Past earthquake-induced rapid subsidence along the northern San Andreas fault: A paleoseismological method for investigation strike-slip faults: Bull. Seism. Soc. Am., v. 92, p. 2612-2636.
- Knuepfer, P.L., 1977, Geomorphic investigations of the Vaca and Antioch fault systems, Solano and Contra Costa Counties, California, Stanford University, Stanford, California, M.S. thesis, 53 p.
- LaForge, R., and Lee, W. H. K., 1982, Seismicity and tectonics of the Ortigalita fault and southeast Diablo Range, California: California Division of Mines and Geology Special Publication, v. 62, p. 93-101.
- Langridge, R.M.P., C S, 2000, Mid-Holocene slip rate on the San Andreas Fault near Fort Ross,

California (abs.): Seismological Research Letters, v. 71, p. 228.

- Lawson, A.C., 1908, The earthquake of 1868, *in* Lawson, A.C., ed., The California earthquake of April 18, 1906: Report of the State Earthquake Investigation Commission (Volume I): Carnegie Institution of Washington Publication, p. 434-448.
- Lettis, W.R., 1982, Late Cenozoic stratigraphy and structure, central San Joaquin Valley, California: U.S. Geological Survey Open-File Report 82-526, p. 203 p., scale 1:500,000.
- Lettis, W., 2001, Late Holocene behavior and seismogenic potential of the Hayward-Rodgers-Creek fault system in the San Francisco Bay area, California: Calif. Geol. Surv. Bulletin, v. 210, p. 167-178.
- Lienkaemper, J.J., Pezzopane, S.K., Clark, M.M., and Rymer, M.J., 1987, Fault fractures formed in association with the 1986 Chalfant Valley, California, earthquake sequence: preliminary report: Seismological Society of America Bulletin, v. 77, no. 1, p. 297-305.
- Lienkaemper, J.J., G. Borchardt, and M. Lisowski, 1991, Historic creep rate and potential for seismic slip along the Hayward fault, California: *Journal of Geophysical Research*, v. 96, no. B11, p. 18,261-18,283.
- Lienkaemper, J.J., 1992, Map of recently active traces of the Hayward fault, Alameda and Contra Costa Counties, California: U.S. Geological Survey Miscellaneous Field Studies Map MF-2196, map scale 1:24,000, p. 13.
- Lienkaemper, J.J., Williams, P. L., Taylor, P., and Williams, K., 1995, New evidence of large surface-rupturing earthquakes along the northern Hayward fault zone [abstr.], *in* SEPM (Society of Economic Paleontologists and Mineralogists) Pacific Section, 70th Annual Meeting, San Francisco, California, SEPM, p. 38.
- Lienkaemper, J.J., and Borchardt, G., 1996, Holocene slip rate of the Hayward fault at Union City, California: Journal of Geophysical Research, v. 101, no. B3, p. 6099-6108.
- Lienkaemper, J.J., Galehouse, J.S., and Simpson, R.W., 1997, Creep response of the Hayward Fault to stress changes caused by the Loma Prieta earthquake: Science, v. 276, no. 5321, p. 2014-2016.
- Lienkaemper, J.J., and Galehouse, J.S., 1998, New evidence doubles the seismic potential of the Hayward fault: Seismological Research Letters, v. 69, no. 6, p. 519-523.
- Lienkaemper, J.J., and Williams, P.L., 1998, New evidence in north Oakland of minor ground rupture on the Hayward fault and major rupturing in prehistoric earthquakes: Geophysical Research Letters, v. 26, p. 1949-1952.
- Lienkaemper, J.J., Schwartz, D. P., Kelson, K. I., Lettis, W. R., Simpson, G. D., Southon, J.R., Wanket, J.A., Williams, P.L., 1999, Timing of Paleoearthquakes on the Northern Hayward Fault -- Preliminary Evidence in El Cerrito, California: U.S. Geol. Surv. Open-File Rep., v. 99-318, p. 34.
- Lienkaemper, J.J., Dawson, T. E., Personius, S. F., and Seitz, G.G., Reidy, L. M. and Schwartz, D. P., 2002, A record of large earthquakes on the southern Hayward fault for the past 500 years: Bull. Seism. Soc. Am., v. 92, no. 7, p. 2637-2658.
- Lindh, A.G., 1983, Preliminary assessment of long-term probabilities for large earthquakes along selected segments of the San Andreas fault system in California: U.S. Geological Survey Open-File Report 83-63, 15 p.

- Lindh, A.G., 1988, Estimates of Long-Term Probabilities for Large Earthquakes Along Selected Fault Segments of the San Andreas Fault System in California, Earthquake Prediction --Present Status: Pune, India, Univ. of Poona, p. 189-200.
- Lindh, A.G., and Oppenheimer, D.H., 1993, Probabilities of large earthquakes in the East Bay, Special Publication - California Division of Mines and Geology, p. 43.
- Linker, M.F., and Rice, J.R., 1997, Models of postseismic deformation and stress transfer associated with the Loma Prieta earthquake, U. S. Geological Survey Professional Paper, Report: P 1550-D, p. D253-D275.
- Lisowski, M., and Prescott, W. H., 1989, Strain accumulation near the Mendocino triple junction [abstr.]: Eos (American Geophysical Union, Transactions), v. 70, no. 43, p. 1332.
- Lisowski, M., Prescott, W. H., Savage, J. C., and Johnston, M. J., 1990, Geodetic estimate of coseismic slip during the 1989 Loma Prieta, California, earthquake: Geophysical Research Letters, v. 17, no. 9, p. 1437-1440.
- Liu, H., and D. V. Helmberger (1983). The near-source ground motion of the 6 August 1979 Coyote Lake, California, earthquake, Bull. Seism. Soc. Am. 73, 201-218.
- Louderback, G.D., 1947, Central California earthquakes of the 1830's: Seismological Society of America Bulletin, v. 34, no. 1, p. 33-74.
- Machette, M.N., Personius, S.F., and Nelson, A.R., 1992, Paleoseismology of the Wasatch fault zone: U.S. Geological Survey Professional Paper, v. 1500-A, p. 72 p.
- McCarthy, J., Hart, P. E., and Oppenheimer, D., 1995, High-angle faulting in the western Sacramento delta region, Pittsburg, California, *in* SEPM (Society of Economic Paleontologists and Mineralogists) Pacific Section, 70th Annual Meeting, San Francisco, California, SEPM, p. 39.
- McCrory, P.A., 1996, Evaluation of fault hazards, northern coastal California: U.S. Geological Survey Open-File Report 96-657, p. 87 p.
- McCulloch, D.S., 1987, Regional geology and hydrocarbon potential of offshore central California, *in* D. W. Scholl, G., A., and Vedder, J. G., ed., Geology and resource potential of the continental margin of western North America and adjacent ocean basins—Beaufort Sea to Baja California: Circum Pacific Council for Energy and Mineral Resources, Earth Science Series, p. 353-401.
- McCulloch, D.S., and Greene, H.G., 1990, Geologic map of the central California continental margin, Map No. 5A (Geology), *in* Greene, H.G., and Kennedy, M.P., ed., California Division of Mines and Geology California Continental Margin Geologic Map Series, Area 5 of 7, map scale 1:250,000.
- McNally, K.C., and Stakes, D. S., 1998, Implications of the San Gregorio fault zone seismicity for Monterey Bay Coastal Hazard Assessment: Eos (American Geophysical Union, Transactions), v. 79, p. 589.
- Mendoza, C.H., S H, 1987, Inversion for slip distribution using teleseismic body waves; North Palm Springs and Borah Peak earthquakes (abstr.): Seism. Res. Letts., v. 58, p. 8.
- Mendoza, C., and Hartzell, S.H., 1988 (87?), Aftershock patterns and main shock faulting: Bulletin of the Seismological Society of America, v. 78, no. 4, p. 1438-1449.
- Mogi, K., 1982, Temporal variation of the precursory crustal deformation just prior to the 1944,

Tonankai earthquake: Zisin, v. 35, no. 1, p. 145-148.

- Molnar, P., 1979, Earthquake recurrence intervals and plate tectonics: Bulletin of the Seismological Society of America, v. 69, no. 1, p. 115-133.
- Mosier, J.B., 1977, Results of triangulation for earth movement study at California aqueductfault crossing sites: Section VI, north and south San Francisco Bay aqueducts, Suppl. No. 6, July 1977, Union and Veras sites.: U.S. Dept. Commerce, NOAA, National Geodetic Survey.
- Murray, M.H., Marshall, G.A., Lisowski, M. and Stein, R.S., 1996, The 1992 M=7 Cape Mendocino, California earthquake: coseismic deformation at the south end of the Cascadian megathrust: Journal of Geophysical Research, v. 101, no. B8, p. 17,707-17,726.
- NEHRP Recommended Provisions for Seismic Regulations for New Buildings and Other Structures, Building Seismic Safety Council, Washington, D.C., 33-35, 1997.
- Niemi, T.M., and Hall, N. T., 1992, Late Holocene slip rate and recurrence of great earthquakes on the San Andreas fault in northern California: Geology, v. 20, no. 3, p. 196-198.
- Niemi, T. M., and Zhang, H.; Generaux, S.; Fumal, T.; Seitz, G. G., 2002, A 2500-year record of earthquakes along the northern San Andreas Fault at Vedanta Marsh, Olema, California: Geological Society of America Cordilleran Section abstracts, Geological Society of America, Cordilleran Section, 98th annual meeting Abstracts with Programs, Geological Society of America, vol. 34, no. 5, p. 86.
- Nishenko, S.P., and Buland, R., 1987, A Generic Recurrence Interval Distribution for Earthquake Forecasting: , v. 77, p. 1382-1399.
- Nolan, J.M., Zinn, E.N., and Weber, G.E., 1995, Paleoseismic study of the southern Sargent fault, Santa Clara and San Benito Counties California: U.S. Geological Survey NEHRP Final Technical Report 1434-94-G-2466, 23 p. [contract report on file at U.S. Geological Survey, Menlo Park, California].
- Noller, J.S.S., J M; Lettis, W R, 1993, Preliminary maps showing Quaternary geology of the Solyo and Lone Tree Creek 7.5-minute quadrangles, California: U. S. Geological Survey, Open-File Report, OF 93-0224, 3 sheets.
- Noller, J.S., and Lightfoot, 1997, An archaeseismic approach and method for the study of active strike-slip faults: Geoarchaelogy, v. 12, p. p. 117-135.
- Ogata, Y., 1999, Estimating the hazard of rupture using uncertain occurrence times of Paleoearthquakes: Journal of Geophysical Research, B, Solid Earth and Planets, v. 104, no. 8, p. 17,995-18,014.
- Oppenheimer, D.H., Bakun, W. H., and Lindh, A. G., 1990, Slip partitioning of the Calaveras fault, California, and prospects for future earthquakes: Journal of Geophysical Research, v. 95, no. B6, p. 8483-8498.
- Oppenheimer, D.H., and MacGregor-Scott, N., 1992, The seismotectonics of the eastern San Francisco Bay region: California Division of Mines and Geology Special Publication, v. 113, p. 11-16.
- Oppenheimer, D.H., and Lindh, A. G., 1993, The potential for earthquake rupture of the northern Calaveras fault: California Division of Mines and Geology Special Publication, v. 113, p. 233-240.

- Oppenheimer, D.H., Wong, I. G., and Klein, F. W., 1993, The seismicity of the Hayward fault, California: California Division of Mines and Geology Special Publication, v. 113, p. 91-100.
- Page, W.D., and Renne, P. R., 1994, <sup>40</sup>AR-<sup>39</sup>AR dating of Quaternary basalt, western Modoc Plateau, northeastern California: Implications to tectonics [abstr.]: U.S. Geological Survey Circular 1107 [Abstracts of the Eighth International Conference on Geochronology, Cosmochronology and Isotope Geology, Lanphere, M. A., Dalrymple, G. B., and Turrin, B. D. (eds.)], p. 240.
- Parsons, T., 2002, Post-1906 stress recovery of the San Andreas fault system calculated from 3-D finite element analysis: , v. in press.
- Perkins, J.A., and Sims, J.D., 1988, Late Quaternary slip along Calaveras fault near Hollister, California: Eos (American Geophysical Union, Transactions), v. 69, no. 44, p. 1420.
- Petersen, M.D., Bryant, W.A., Cramer, C.H., Cao, T., Reichle, M.S., Frankel, A.D., Lienkaemper, J.J., McCrory, P.A., and Schwartz, D.P., 1996, Probabilistic seismic hazard assessment for the state of California: Open-File Report - U. S. Geological Survey, v. OF 96-0706, p. 33.
- Pezzopane, S.K., 1993, Active faults and earthquake ground motions in Oregon, University of Oregon, Ph. D. dissertation, 208 pp.
- Phipps, S.P., 1992, Late Cenozoic tectonic wedging and blind thrusting beneath the Sacramento Valley and eastern Coast Ranges, Day 2: American Association of Petroleum Geologists. Pacific Section. Guidebook, v. 70, p. 63-84.
- Pollitz, F.F., Burgmann, R., and Segall, P., 1998, Joint estimation of afterslip rate and postseismic relaxation following the 1989 Loma Prieta earthquake: J. Geophys. Res., v. 103, p. 26975-26992.
- Prentice, C.S., 1989, Earthquake geology of the the northern San Andreas fault near Point Arena California, California Institute of Technology, Pasadena, unpub. Ph.D. dissertation, 252 p.
- Prentice, C., Niemi, T. N., and Hall, N. T., 1991, Quaternary tectonics of the northern San Andreas fault, San Francisco Peninsula, Point Reyes, and Point Arena, California [field trip guide]: California Division of Mines and Geology Special Publication, v. 109, p. 25-34.
- Prescott, W.H., and Burford, R. O., 1976, Slip on the Sargent fault: Seismological Society of America Bulletin, v. 66, no. 3, p. 1013-1016.
- Prescott, W.H., Lisowski, M., and Savage, J.C., 1981, Geodetic Measurement of Crustal Deformation on the San Andreas, Hayward, and Calaveras Faults Near San Francisco, California: J. Geophys. Res., v. 86, p. 10853-10869.
- Prescott, W.H., and M. Lisowski, 1983, Strain accumulation along the San Andreas fault system east of San Francisco Bay, California: *Tectonophysics*, v. 97, p. 41-56.
- Prescott, W.H., King, N. E., and Gu, G. H., 1984, Preseismic, coseismic and postseismic deformation associated with the 1984 Morgan Hill, California, earthquake: California Division of Mines and Geology Special Publication, v. 68, p. 137-148.
- Prescott, W.H., Savage, J.C., Svarc, J.L., and Manaker, David, 2001, Deformation across the Pacific-North America plate boundary near San Francisco, California: Journal of Geophysical Research, B, Solid Earth and Planets, v. 106, no. 4, p. 6673-6682.

- Reasenberg, P.A., and Simpson, R.W., 1992, Response of regional seismicity to the static stress change produced by the Loma Prieta earthquake: Science, v. 255, p. 1687-1690.
- Reasenberg, P.A., Hanks, T.C., and Bakun, W.H., 2003, An empirical model for earthquake probabilities in the San Francisco Bay region, California, 2002-2031: v. to be submitted to .
- Reid, H.F., 1910, The Mechanics of the Earthquake, The California earthquake of April 18, 1906: Report of the State Earthquake Investigation Commission: Publication No. 87, Carnegie Institution of Washington, v. II, 192 p.
- Rikitake, T., 1974, Probability of Earthquake Occurrence as estimated from Crustal Strain: Tectonophysics, v. 23, p. 299-312.
- Rogers, J.D., and Halliday, J. M., 1993, Exploring the Calaveras-Las Trampas fault junction in the Danville-San Ramon area: California Division of Mines and Geology Special Publication, v. 113, p. 261-270.
- Rosenberg, L.I., and Clark, J. C., 1994, Final technical report, Quaternary faulting of the Greater Monterey area, California: USGS-NEHRP contract report, #1434-94-G2443, on file at U.S. Geological Survey, Reston, VA.
- Ross, S.L., Ryan, H. L., and Stevenson, A. J., 1998, San Gregorio fault zone studies offshore Half Moon Bay and Monterey Bay, CA: Eos (American Geophysical Union, Transactions), v. 79, p. 623.
- Ryall, A., VanWormer, J. D., and Jones, A. E., 1968, Triggering of microearthquakes by earth tides, and other features of the Truckee, California, earthquake sequence of September, 1966: Seismological Society of America Bulletin, v. 58, no. 1, p. 215-248.
- Rymer, M. J., and Ellsworth, W. L., 1990, The Coalinga, California, Earthquake of May 2, 1983:U. S. Geological Survey, Professional Paper 1487, 417 p.
- Rymer, M.J., Kendrick, K.J., Lienkaemper, J.J., and Clark, M.M., 1990a, Surface rupture on the Nunez Fault during the Coalinga earthquake sequence: U.S. Geological Survey Professional Paper 1487, p. 299-318.
- Rymer, M.J., Lienkaemper, J.J., and Brown, B., 1990b, Distribution and timing of slip along the Nuñez fault after June 11, 1983: U.S. Geological Survey Professional Paper 1487, p. 319-334.
- Savage, J.C., Prescott, W.H., Lisowski, M., and King, N., 1979, Geodolite measurements of deformation near Hollister, California, 1971-1978: Journal of Geophysical Research, v. 84, p. 7599-7615.
- Savage, J.C., Lisowski, M., and Prescott, W.H., 1992, Strain accumulation across the Wasatch fault near Ogden, Utah: Journal of Geophysical Research, v. 97, no. B2, p. 2071-2083.
- Savage, J.C., and Lisowski, M., 1993, Inferred depth of creep on the Hayward fault, central California: Journal of Geophysical Research, v. 98, no. B1, p. 787-793.
- Savage, J.C., Lisowski, M., Svarc, J.L., and Gross, W.K., 1995, Strain accumulation across the Central Nevada Seismic Zone, 1973-1994: Journal of Geophysical Research, v. 100, no. B10, p. 20,257-20,269.
- SCEC Phase II, 1994, Seismic Hazards in Southern California: Probable Earthquakes, 1994 to 2024 (Phase II): Southern California Earthquake Center, Report.
- Schwartz, D.P., and Coppersmith, K.J., 1984, Fault behavior and characteristic earth-quakes:

Examples from the Wasatch and San Andreas fault zones: , v. 89, p. 5681-5698.

- Schwartz, D.P.P., D; Hecker, Suzanne; Okumura, Koji; Budding, Karin E; Powers, T J, 1992, The Rodgers Creek fault zone; fault behavior and earthquake potential: Calif. Div. Mines Geol., Spec. Pub., v. 113, p. 63.
- Schwartz, D.P., Pantosti, D., Hecker, S., Okamura, K., Budding, K. E., and Powers, T., 1993,
   Late Holocene behavior and seismogenic potential of the Rodgers Creek fault zone, Sonoma County, California: California Division of Mines and Geology Special Publication, v. 113, p. 393-398.
- Schwartz, D.P., Joyner, W.B., Stein, R.S., Brown, R.D., McGarr, A.F., Hickman, S.H., and Bakun, W.H., 1996, Review of seismic-hazard issues associated with the Auburn Dam project, Sierra Nevada foothills, California: U.S. Geological Survey Open-File Report 96-11, p. ~8 p.
- Schwartz, D.P., Pantosti, D., Okumura, K., Powers, T., and Hamilton, J., 1998, Paleoseismic investigations in the Santa Cruz Mountains: Implications for the recurrence of large magnitude earthquakes on the San Andreas Fault: Journal of Geophysical Research, v. 103, p. 17,985-18,001.
- Schwartz, D.P., Seitz, G., Lienkaemper, J., Dawson, T., Hecker, S., Lettis, W., and Kelson, K, 2001, The Bay Area Earthquake Cycle: A paleoseismic perspective: Eos (American Geophysical Union, Transactions), v. 82 (47), p. Abstract S12F-07.
- Segall, P., and Lisowski, M., 1990, Surface displacements in the 1906 San Francisco and 1989 Loma Prieta earthquakes: Science, v. 250, no. 4985, p. 1241-1244.
- Seshadri, V., 1993, The inverse Gaussian distribution : a case study in exponential families: New York, Oxford: Clarendon Press, 256 p.
- Shaw, J.H., Bischke, R., and Suppe, J., 1994, Relations between folding and faulting in the Loma Prieta epicentral zone: Strike-slip fault-bend folding: U.S. Geol. Surv. Prof. Paper, v. 1550-F, p. F3-F21.
- Shimazaki, K., and Nakata, T., 1980, Time-predictable recurrence model for large earthquakes: Geophysical Research Letters, v. 7, p. 279-282.
- Sieh, K.E., and Jahns, R.H., 1984, Holocene activity of the San Andreas fault at Wallace Creek, California: Geological Society of America Bulletin, v. 95, p. 883-896.
- Sieh, K., Stuiver, M., and Brillinger, D., 1989, A more precise chronology of earthquakes produced by the San Andreas Fault in Southern California: Journal of Geophysical Research, B, Solid Earth and Planets, v. 94, no. 1, p. 603-623.
- Simpson, G.D., Lettis, W. R., and Kelson, K. I., 1993, Segmentation model for the northern Calaveras fault, Calaveras Reservoir to Walnut Creek: California Division of Mines and Geology Special Publication, v. 113, p. 253-259.
- Simpson, G.D., and Lettis, W.R., 1994, Paleoseismic investigation of the northern Calaveras fault: U.S. Geological Survey Open-File Report 94-176, p. 660-661.
- Simpson, G.D., Thompson, S.C., Noller, J.S., Lettis, W.R., and Williams, 1998, The northern San Gregorio fault zone: Evidence for the timing of late Holocene earthquakes near Seal Cove, California: Bulletin Seismological Society of America, v. 87, no. 5, p. 1158-1170.
- Simpson, R.W., Lienkaemper, J.J., and Galehouse, J.S., 2001, Variations in creep rate along the

Hayward Fault, California, interpreted as changes in depth of creep: Geophysical Research Letters, v. 28, no. 11, p. 2269-2272.

- Sims, J.D., 1991, Distribution and rate of slip across the San Andreas transform boundary, Hollister area, central California: Geological Society of America Abstracts with Programs, 87th Meeting Cordilleran Section, v. 23, no. 2, p. 98.
- Snyder, D.L., Wills, C. J., and Borchardt, G., 1995, Slip rate and earthquake recurrence on the Concord fault at Galindo Creek, Concord, California: USGS-NEHRP contract report, #1434-94-G2483 [contract report on file at U.S. Geological Survey, Reston, VA, 37 p.].
- Sowers, J.M., Noller, J. S., and Unruh, J. R., 1993, Quaternary deformation and blind-thrust faulting on the east flank of the Diablo range near Tracy, California: California Division of Mines and Geology Special Publication, v. 113, p. 377-383.
- Stein, R.S., and Ekström, G., 1992, Seismicity and geometry of a 110-km-long blind thrust fault:
  2. Synthesis of the 1982-1985 [Coalinga] California earthquake sequence: Journal of Geophysical Research, v. 97, no. B4, p. 4865-4883.
- Stein, R.S., and Hanks, T.C., 1998, M=6 earthquakes in southern California during the twentieth century: no evidence for a seismicity or moment: Bulletin Seismological Society of America, v. 88, no. 645-652.
- Steinbrugge, K.V., Bennett, J.H., Lagoria, H.J., Davis, J.F., Borchardt, G., and Toppozada. T.R., 1987, Earthquake Planning Scenario for a Magnitude 7.5 Earthquake on the Hayward Fault in the San Francisco Bay Area: C.D.M.G., Spec. Pub., California Division of Mines and Geology, Sacramento, CA, v. 78, 245 p.
- Stover, C.W., and Coffman, J.L., 1993, Seismicity of the United States, 1568-1989 (revised): U. S. Geological Survey Professional Paper, Report 1527, 418 p.
- Sykes, L.R., and Nishenko, S.P., 1984, Probabilities of occurrence of large plate rupturing earthquakes for the San Andreas, San Jacinto, and Imperial faults, California: Journal of Geophysical Research, v. 89, p. 5905-5927.
- Thatcher, W., and Hanks, T.C., 1973, Source parameters of southern California earthquakes: Journal of Geophysical Research, v. 78, no. 35, p. 8547-8576.
- Thatcher, W., Marshall, G., and Lisowski, M., 1997, Resolution of fault slip along the 470-kmlong rupture of the great 1906 San Francisco earthquake: Journal of Geophysical Research, v. 102, no. B3, p. 5353-5367.
- Tocher, D., 1959, Creep on the San Andreas fault (California): Geological Society of America Bulletin, v. 70, no. 12, Part 2, p. 1753.
- Toppozada, T.R., Borchardt, G., Hallstrom, C. L., and Youngs, L. G., 1993, Planning scenario for a major earthquake on the Hayward fault: California Division of Mines and Geology Special Publication, v. 113, p. 457-462.
- Toppozada, T.R., and Borchardt, G., 1998, Re-evaluation of the 1836 "Hayward Fault" earthquake and the 1838 San Andreas Fault earthquake: Seismological Society of America Bulletin, v. 88, p. 140-159.
- Toppozada, T., and Branum, D., 2001, Historical San Francisco Bay earthquakes and post-1989 quiescence (abstract): Seimological Research Letters, v. 72, no. 2, p. 227.

Toppozada T.R., B., G., Hallstrom, C.L., and Youngs. L.G.,, Planning Scenario for a Major

Earthquake on the Rodgers Creek Fault in the Northern San Francisco Bay Area: Calif. Div. Mines & Geol., Special Publication 112, California Division of Mines and Geology, Sacramento, CA, v. 112, 263 p.

- Tuttle, M., and Sykes, L., 1993, Re-evaluation of the 1838, 1865, 1868, and 1890 earthquakes in the San Francisco Bay area: California Division of Mines and Geology Special Publication, v. 113, p. 81-89.
- Unruh, J.R., and Moores, E. M., 1992, Quaternary blind thrusting in the southwestern Sacramento Valley, California: Tectonics, v. 11, no. 2, p. 192-203.
- Unruh, J.R., Loewen, B. A., and Moores, E. M., 1995a, Progressive arcward contraction of a Mesozoic-Tertiary fore-arc basin, southwestern Sacramento Valley, California: Geological Society of America Bulletin, v. 107, no. 1, p. 38-53.
- Unruh, J.R., Simpson, G. D., Hitchcock, C. S., and Lettis, W. R. [of W. R. Lettis and Associates], 1995b, Seismotectonic evaluation, Stony Gorge and East Park Dams, Orland Project, northern Coast Ranges, California: Draft report prepared for U.S. Bureau of Reclamation, 170 p.
- Unruh, J., 2001, Seismic hazards associated with blind thrusts in the San Francisco Bay area: Calif. Geol. Surv. Bull., v. 210, p. 211-228.
- Utsu, T., Aftershocks and earthquake statistics (IV): Journal of the Faculty of Science, Hokkaido University Series VII (Geophysics), v. 4, p. 1-42, 1972.
- Utsu, T., Estimation of parameters for recurrence models of earthquakes: Bulletin of the Earthquake Research Institute, University of Tokyo, v. 59, p. 53-66, 1984.
- Wakabayashi, J., and Smith, D. L., 1994, Evaluation of recurrence intervals, characteristic earthquakes, and slip rates associated with thrusting along the Coast Range-Central Valley geomorphic boundary, California: Seismological Society of America Bulletin, v. 84, no. 6, p. 1960-1970.
- Wald, D.J., Heaton, S. H., and Helmberger, D. V., 1991, Rupture model of the 1989 Loma Prieta earthquake from the inversion of strong motion and broadband teleseismic data: Seismological Society of America Bulletin, v. 91, p. 1540-1572.
- Wald, D.J., Quitoriano, V., Heaton, T.H., Kanamori, H., Scrivner, C.W., and Worden, C.B., 1999, TriNet "ShakeMaps": rapid generation of instrumental ground motion and intensity maps for earthquakes in southern California: Earthquake Spectra, v. 15, no. 3, p. 537-556.
- Wald, D.J., Quitoriano, V., Heaton, T.H., and Kanamori, H., 1999, Relationships between peak ground acceleration, peak ground velocity and Modified Mercalli Intensity in California: Earthquake Spectra, v. 15, no. 3, p. 557-564.
- Waldhauser, F., and Ellsworth, W.L., 2000, A double-difference earthquake location algorithm; method and application to the northern Hayward Fault, California: Bulletin of the Seismological Society of America, v. 90, no. 6, p. 1353-1368.
- Walter, S.R., Oppenheimer, D.H., and Mandel, R.I., 1998, Seismicity Maps of the San Francisco and San Jose 1degree by 2degree Quadrangles, California for the period 1967-1993: U.S. Geol. Surv. Geologic Invest. Series, v. Map I-2580.
- Ward, S.N., 1990, Pacific-North America Plate Motions——New results from Very Long Baseline Interferometry: Journal of Geophysical Research, v. 95, no. B13, p. 21,965-21,981.

- Ward, S.N., 2000, San Francisco Bay Area earthquake simulations: a step toward a standard physical earthquake model: Bulletin of the Seismological Society of America, v. 90, p. 370-386.
- Weber, G.E., 1981, Geologic investigation of the marine terraces of the San Simeon region and Pleistocene activity on the San Simeon fault zone, San Luis Obispo County, California: USGS-NEHRP contract report, #14-08-0001-18230, on file at U.S. Geological Survey, Reston, VA; 66 pp.
- Weber, G.E., and Nolan, J. M., 1995, Determination of late Pleistocene-Holocene slip rates along the San Gregorio fault zone, San Mateo County, California: U.S. Geological Survey Open-File Report 95-210, p. 805-807.
- Wells, R.E., 1990, Paleomagnetic rotations and the Cenozoic tectonics of the Cascade Arc, Washington, Oregon, and California: Journal of Geophysical Research, v. 95, no. B12, p. 19,409-19,417.
- Wells, D.L., and Coppersmith, K. J., 1994, New empirical relationships among magnitude, rupture length, rupture width, rupture area, and surface displacement: Seismological Society of America Bulletin, v. 84, no. 4, p. 974-1002.
- Wesson, R.L., Bakun, W.H., Uhrhammer, R.A., Oppenheimer, D.H., and Perkins, D.M., 1999, Application of Bayesian inference to the association of earthquakes and faults in the San Francisco Bay Region: Seismological Research Letters, v. 70, no. 2, p. 270.
- Wesson, R.L., Bakun, W.H., and Perkins, D.A., 2002, Associating Earthquakes with Faults in the San Francisco Bay Area using Bayesian Inference: preprint.
- Williams, P.L., 1993, Geologic record of southern Hayward fault earthquakes: California Division of Mines and Geology Special Publication, v. 113, p. 171-179.
- Williams, P.L., Anima, R., Ingram, L., McCarthy, J., McEvilly, T. V., Nakata, T., Okamura, M., and Shimazaki, K., 1997, Geometry and Holocene activity of the Pinole and southernmost Rodgers Creek faults, San Pablo Bay, California: Geological Society of America Bulletin [preprint, in review].
- Williams, P.L., 1999, Strawberry Creek slip rate (Hayward fault slip rate constrains at Berkeley [CA]), *in* Contributions to Working Group on California Earthquake Probabilities May 28, 1999 Workshop, U.S. Geological Survey, Menlo Park, CA, U.S. Geological Survey, Menlo Park, CA (unpublished handout to participants), p. 4.
- Wills, C.J., and Borchardt, G., 1993, Holocene slip rate and earthquake recurrence on the Honey Lake fault zone, northeastern California: Geology, v. 21, no. 9, p. 853-856.
- Wong, I.G., and Hemphill-Haley, M.A., 1993, Seismicity and faulting near the Hayward and Mission faults: California Division of Mines and Geology Special Publication, v. 113, p. 207-215.
- Wood, H.O., and Neumann, F., 1931, Modified Mercalli Intensity Scale of 1931, , .: , v. 21, p. 277-283.
- Working Group on California Earthquake Probabilities, 1988, Probabilities of large earthquakes occurring in California on the San Andreas fault, U.S. Geological Survey Open-File Report, p. 62.
- Working Group on California Earthquake Probabilities, 1990, Probabilities of large earthquakes

in the San Francisco Bay Region, California, U.S. Geological Survey Circular, p. 51.

- Working Group on California Earthquake Probabilities (Jackson, D. D.; Aki, K.; Cornell, C. A.; Dieterich, J, H.; Henyey, T. L.; Mahdyiar, M.; Schwartz, D.; Ward, S. N.),1995, Seismic hazards in southern California: probable earthquakes, 1994-2024: Bulletin Seismological Society of America, v. 85, p. 379-439.
- Working Group on California Earthquake Probabilities, 1999, Earthquake probabilities in the San Francisco Bay Region: 2000-2030—A Summary of findings: U.S. Geological Survey Open-File Report 99-517, p. 55 p. [http://geopubs.wr.usgs.gov/open-file/of99-517/].
- Working Group on Northern California Earthquake Potential, 1996, Database of potential sources for earthquakes larger than magnitude 6 in northern California: U.S. Geological Survey Open-File Report 96-705, p. 53 p. [http://quake.wr.usgs.gov:80/hazprep/NCEP/].
- Wright, R.H., Hamilton, D. H., Hunt, T. D., Traubenik, M. L., and Shlemon, R. J., 1982, Character and activity of the Greenville structural trend: California Division of Mines and Geology Special Publication, v. 62, p. 187-196.
- Youngs, R.R.C., Kevin J, 1985, Implications of fault slip rates and earthquake recurrence models to probabilistic seismic hazard estimates: Bull. Seis. Soc. Amer., v. 75, p. 939-964.
- Yu, E., and Segall, P., 1996, Slip in the 1868 Hayward earthquake from the analysis of historical triangulation data: Journal of Geophysical Research, v. 101, no. B7, p. 16,101-16,118.
- Zoback, M.L., Jachens, R. C., and Olson, J. A., 1999, Abrupt along-strike change in tectonic style: San Andreas fault zone, San Francisco Peninsula: Journal of Geophysical Research, v. 104, p. 10719-10742.