

APPENDIX I:

REFERENCES

- Abrahamson, N.A. and Silva, W.J., 1997, Empirical Response Spectral Attenuation Relations for Shallow Crustal Earthquakes: *Seismological Research Letters*, Vol. 68, No.1, pp. 94-127.
- Alford, Stephen, 2002 personal communication, City of Newport Beach Senior Planner, via written correspondence to Earth Consultants International, dated September 10, 2002.
- Alquist-Priolo Earthquake Fault Zoning Act, California Public Resources Code, Chapter 7.5 Earthquake Fault Zones, Section 2621 et seq., last updated October 2, 2007.
- American Society for Testing Materials (ASTM) E-108, Standard Test Methods for Fire Tests of Roof Coverings.
- Anderson, K., 2006, The Use of Fire by Native Americans in California; *in* Sugihara, N.G., van Wagendonk, J.W., Shaffer, K.E., Fites-Kaufman, J., and Thode, A.E., (editors), 2006, Fire in California's Ecosystems: University of California Press, Berkeley and Los Angeles, California, pp. 417-430.
- Andrews, P. L., 1986, BEHAVE: Fire behavior prediction and fuel modeling system BURN subsystem, part 1: US Department of Agriculture, Forest Service, General Technical Report INT-194, Intermountain Research Station, Ogden, Utah, 130p.
- Andrews, P.L., and Bevins, C.D., 1999, Update and expansion of the BEHAVE Fire Modeling System: Fire Management Notes.
- Andrews, P.L., and Bradshaw, L.S., 1990, RXWINDOW: Defining windows of acceptable burning conditions based on desired fire behavior: US Department of Agriculture, Forest Service, General Technical Report INT-273, Intermountain Research Station, Ogden, Utah, 54p.
- Andrews, P.L., and Chase, C.H., 1989, BEHAVE: Fire behavior prediction modeling system-BURN subsystem Part 2: U.S. Department of Agriculture, Forest Service, General Technical Report INT-260, Intermountain Research Station, Ogden, Utah, 93p.
- ASTM E-108, Standard Test Methods for Fire Tests of Roof Coverings: American Society for Testing Materials.
- Auger, J., 2008 personal communication, City of Newport Beach General Services Department.
- Badum, Stephen G., 2002 personal communication, City of Newport Beach Public Works Director, via written correspondence to Mr. Patrick Alford, City of Newport Beach Senior Planner, dated September 13, 2002.
- Ballantyne, D., 2008, Oil and Gas Pipelines: Supplemental Study to the ShakeOut Scenario: U.S. Geological Survey Open File Report 2008-1150, 11p.
- Barrette, Brian, 1999, System for Rating Structural Vulnerability in SRA: Sacramento, California, dated September 1999.

- Barrie, D., Tatnall, T.S., and Gath, E., 1992, Neotectonic uplift and ages of Pleistocene marine terraces, San Joaquin Hills, Orange County, California; *in* Engineering geology field Trips: Orange County, Santa Monica Mountains and Malibu, Guidebook and Volume, 35th Annual Meeting, Association of Engineering Geologists, Southern California Section, pp. A-55 to A-61.
- Barrows, A.G., 1974, A Review of the Geology and Earthquake History of the Newport-Inglewood Structural Zone: Southern California: California Division of Mines and Geology Special Report 114, 115p.
- Barrows, A.G., Irvine, P.J., and Tan, S.S., 1995, Geologic surface effects triggered by the Northridge earthquake; *in* Woods, M.C., and Seiple, W.R. (editors), The Northridge, California, Earthquake of 17 January 1994: California Division of Mines and Geology Special Publication 116, pp. 65-88.
- Barrows, A.G., Tan, S.S., and Irvine, P.J., 1994, Investigation of Surface Geologic Effects and Related Land Movement in the City of Simi Valley Resulting from the Northridge Earthquake of January 14, 1994: California Division of Mines and Geology Open File Report 94-09, 41p., 1 plate.
- Bates, R.L., and Jackson, J.A., 1987, editors, Glossary of Geology: American Geological Institute, Alexandria, Virginia, 788p.
- Bergmann, M.C., Rockwell, T.K., Kenney, M., Hushebeck, M., Hirabayashi, K., Haraden, C., Thomas, A., and Patterson, A., 1993, Preliminary Assessment of the Late Holocene slip rate for the Wildomar Fault, Murrieta, California: Final Technical Report, U.S. Geological Survey External Research Program under Contract No. 14-08-001-G2062, dated January 19, 1993.
- Bjorklund, T., and Burke, K., 2002, Four-dimensional analysis of the inversion of a half-graben to form the Whittier fold-fault system of the Los Angeles Basin: *Journal of Structural Geology*, Vol. 24, pp. 1369-1387.
- Blake, T. F., 2000, EQFAULT, A Computer Program for the Estimation of Peak Horizontal Ground Acceleration from 3D Fault Sources.
- Blake, T.F., Holligsworth, R.A., and Stewart, J.P., (editors), 2002, Recommended Procedures for Implementation of DMG Special Publication 117, Guidelines for Analyzing and Mitigating Landslide Hazards in California: Southern California Earthquake Center, 110p. + Appendix A.
- Bolt, Bruce A., 1999, Earthquakes: W.H. Freeman and Company, New York, 331p.
- Boore, D.M., Joyner, W. and Fumal, T. E., 1997, Equations for estimating horizontal response spectra and peak acceleration from western North American earthquakes: A summary of recent work: *Seismological Research Letters*, Vol. 68, No. 1, pp. 128-153.
- Borchardt, G., and Kennedy, M.P., 1979, Liquefaction potential in urban San Diego – a pilot study: *California Geology*, Vol. 32, pp. 217-221.
- Borrero, J.C., Dolan J., Synolakis, C.E., 2001, Tsunami sources within the Eastern Santa Barbara Channel: *Geophysical Research Letters*, Vol. 28, pp. 643-647.
- Borrero, J.C., Legg, M.R., and Synolakis, C.E., 2004, Tsunami sources in the southern California bight: *Geophysical Research Letters*, Vol. 31, pp. L13211-L13215.

- Bozorgnia, Y., Campbell, K.W., and Niazi, M., 1999, Vertical ground motion: Characteristics, relationship with horizontal component, and building code implications: Proceedings of the SMIP99 Seminar on Utilization of Strong-Motion Data, Oakland, California, September 15, 1999, pp. 23-49.
- Brabb, E.E., and B.L. Harrod (Editors), 1989, Landslides: Extent and Economic Significance: Proceedings of the 28th International Geological Congress Symposium on Landslides, Washington D.C.
- Brake, J.F., 1987, Analysis of historic and prehistoric slip on the Elsinore fault at Glen Ivy Marsh, Temescal Valley, southern California: Unpublished M.Sc. Thesis, San Diego State University, San Diego, California, 107p.
- Brandsma, M., Divoky, D., and Hwang, L.S., 1978, Circumpacific Variation of Computed Tsunami Features: Tsunami Symposium, Ottawa, Canada, Marine Sciences Directorate, Department of Fisheries and Environment Manuscript Report Series 48, pp. 132-151.
- Bray, J.D., 2001, Developing Mitigation Measures for the Hazards Associated with Earthquake Surface Fault Rupture; *in* A Workshop on Seismic Fault-Induced Failures – Possible Remedies for Damage to Urban Facilities: Research Project 2000 Grant-in-Aid for Scientific Research (No. 12355020), Japan Society for the Promotion of Science, Workshop Leader, Kazuo Konagai, University of Tokyo, Japan, pp. 55-79, January 11-12, 2001.
- Brewer, Lindie, 1992, Preliminary Damage and Intensity Survey: *Earthquakes and Volcanoes*, Vol. 23, No. 5, pp. 219-226.
- Bryant, W.A., 1985, Southern Newport-Inglewood Fault Zone, Southern Los Angeles and Northern Orange Counties: California Division of Mines and Geology Fault Evaluation Report FER-172.
- Bryant, W.A., 1988, Recently Active Traces of the Newport-Inglewood Fault Zone, Los Angeles and Orange Counties, California: California Division of Mines and Geology Open-File Report 88-14.
- Building Technology, Inc., 1990a, Financial Incentives for Seismic Rehabilitation of Hazardous Buildings – An Agenda for Action. Volume 1: Findings, Conclusions and Recommendations: Federal Emergency Management Agency Publication No. 198, 104p.
- Building Technology, Inc., 1990b, Financial Incentives for Seismic Rehabilitation of Hazardous Buildings – An Agenda for Action. Volume 2: State and Local Case Studies and Recommendations: Federal Emergency Management Agency Publication No. 199, 130p.
- Building Technology, Inc., 1990c, Financial Incentives for Seismic Rehabilitation of Hazardous Buildings – An Agenda for Action. Volume 3: Applications Workshops Report: Federal Emergency Management Agency Publication No. 216, 200p.
- Bullard, T.F., and Lettis, W.R., 1993, Quaternary fold deformation associated with blind thrust faulting, Los Angeles basin, California: *Journal of Geophysical Research*, Vol. 98, pp. 8348-8369.
- Burby, R., (editor), 1998, Cooperating With Nature: Confronting Natural Hazards with Land Use Planning for Sustainable Communities: Joseph Henry Press, Washington D.C.
- Burgan, R. E., 1987, Concepts and interpreted examples in advanced fuel modeling: U.S. Department of

- Agriculture, Forest Service, Intermountain Research Station, Ogden, UT, General Technical Report INT-238, 44p.
- Burgan, R.E. and Rothermel, R.C., 1984, BEHAVE: Fire prediction and fuel modeling system-FUEL subsystem: U.S. Department of Agriculture, Forest Service, General Technical Report INT-167, Intermountain Forest and Range Experiment Station, Ogden, Utah, 126p.
- Byerly, P. 1930, The California earthquakes of November 4, 1927: *Bulletin of the Seismological Society of America*, Vol. 20, pp. 53-66.
- California Building Standards Commission, 2007, California Building Code, Title 24, Parts 1 through 10, and 12; published July 1, 2007; effective January 1, 2008.
- California Board of Forestry, 1996, California Fire Plan: A Framework for Minimizing Costs and Losses from Wildland Fires: a report dated March 1996.
- California Building Standards Commission (CBSC), 2013, California Building Code, Title 24, Part 2, 2 Volumes.
- California Building Standards Commission (CBSC), 2013, California Historical Building Code, Title 24, Part 8.
- California Building Standards Commission (CBSC), 2013, California Existing Building Code, Title 24, Part 10.
- California Code of Regulations, Title 14, Article 10, Seismic Hazards Mapping Act.
- California Code of Regulations, Title 22, California Building Standards Code.
- California Code of Regulations, Title 24, California Building Standards Code.
- California Department of Forestry, 1993, Rater Instruction Guide: Very High Fire Hazard Severity Zone.
- California Department of Forestry and Fire Protection (CDF), Fire and Resource Assessment Program (FRAP), 2005a, Fire Threat Map, Scale: 1:1,100,000 at 34" x 44"; Map ID: FTHREAT_MAP v05_1, published October 20, 2005.
- California Department of Forestry and Fire Protection (CDF), Fire and Resource Assessment Program (FRAP), 2005b, Fuel Rank Potential Fire Behavior Map, Scale: 1:1,100,000 at 34" x 44"; Map ID: FRNK_MAP v05_2, published July 07, 2005.
- California Department of Forestry and Fire Protection, 2009, Fire Perimeters Map, Version 08_2, from <http://frap.fire.ca.gov/data/frapgisdata/select.asp> and http://frap.cdf.ca.gov/projects/fire_data/fire_perimeters/, last updated on January 09, 2009.
- California Department of Water Resources, 1984, Dams within the Jurisdiction of the State of California: Division of Safety of Dams, Bulletin 17-84, 94p.
- California Department of Water Resources, 1986, Statutes and Regulations Pertaining to Supervision of Dams and Reservoirs: Division of Safety of Dams, 46p.

- California Division of Mines and Geology (CDMG), 1976, Environmental Geology of Orange County, California: Division of Mines and Geology Open-file Report 79-8 LA, 474p.
- California Division of Mines and Geology (CDMG), 1986, Alquist-Priolo Earthquake Fault Zones Map for the Newport Beach Quadrangle, Effective: July 1, 1986.
- California Division of Mines and Geology (CDMG), 1996, Probabilistic Seismic Hazard Assessment for the State of California, Appendix A – Fault Source Parameters: Open-File Report 96-08.
- California Division of Mines and Geology (CDMG), 1997, Guidelines for Evaluating and Mitigating Seismic Hazards in California: Special Publication 117, 74p.
- California Division of Mines and Geology, 1997a (Revised 2001), Seismic Hazard Zone Report for the Anaheim and Newport Beach 7.5 Minute Quadrangles, Orange County, California, Seismic Hazard Zone Report 003.
- California Division of Mines and Geology, 1997b (Revised 2001), Seismic Hazard Zone Report for the Laguna Beach 7.5 Minute Quadrangle, Orange County, California, Seismic Hazard Zone Report 013.
- California Division of Mines and Geology, 1997c (Revised 2001), Seismic Hazard Zone Report for the Tustin 7.5 Minute Quadrangle, Orange County, California, Open-File Report 97-20.
- California Division of Mines and Geology (CDMG), 1998, Maps of Known Active Near-Source Zones in California and Adjacent Portions of Nevada, to be used with the 1997 Uniform Building Code published by the International Conference of Building Officials.
- California Division of Mines and Geology (CDMG), 1999, Recommended Criteria for Delineating Seismic Hazard Zones in California: Special Publication 118, May 1992, Revised July 1999.
- California Environmental Quality Act, California Public Resources Code, Section 21000 et seq.
- California Geological Survey, 2002, Guidelines for Evaluating the Hazard of Surface Fault Rupture: DMG Note 49, available from http://www.consrv.ca.gov/cgs/information/publications/cgs_notes/index.htm
- California Geological Survey (CGS), 2002, Alquist-Priolo Earthquake Fault Zones: CD-ROM 2001-05.
- California Geological Survey (CGS), 2004, Hazards from "mudslides", debris avalanches and debris flows in hillside and wildfire areas: CGS Note 33, available online at http://www.consrv.ca.gov/cgs/information/publications/cgs_notes/note_33/index.htm.
- California Geological Survey (CGS), 2004, Guidelines for Evaluating the Hazard of Surface Fault Rupture: CGS Note 49, available online at <http://www.consrv.ca.gov/CGS/rghm/ap/index.htm>.
- California Geological Survey (CGS), 2008, Guidelines for Evaluating and Mitigating Seismic Hazards in California: Special Publication 117, 74p., revised September 11, 2008 and available online at <http://www.conservation.ca.gov/cgs/shzp/Pages/shmppgminfo.aspx>.

- California Governor's Office of Emergency Services, Dam Inundation Maps obtained at www.oes.ca.gov/.
- California Office of Planning and Research (OPR), 1987, General Plan Guidelines.
- California Seismic Safety Commission (CSSC), 2000, Status of the Unreinforced Masonry Building Law (Government Code Section 8875 et. seq.), 2000 Year Report to the Legislature, Adopted April 13, 2000, SSC 00-02.
- California Seismic Safety Commission (CSSC), 2003, Status of the Unreinforced Masonry Building Law, 2003 Report to the Legislature, Adopted June 12, 2003.
- California Seismic Safety Commission (CSSC), 2006, Status of the Unreinforced Masonry Building Law, 2006 Report to the Legislature, Adopted November 9, 2006, SSC Publication No. 2006-04, 12p. + 2 appendices.
- Campbell, K.W., 1997, Empirical near-source attenuation relationships for horizontal and vertical components of peak ground acceleration, peak ground velocity, and pseudo-absolute acceleration response spectra: *Seismological Research Letters*, Vol. 68, pp. 154-179.
- Campbell, K.W., and Bozorgnia, Y., 2000, New empirical models for predicting near-source horizontal, vertical, and V/H response spectra: Implications for design, in Proceedings, 6th International Conference on Seismic Zonation, Palm Springs, California.
- Campbell, K.W., and Bozorgnia, Y., 2003a Erratum, Updated Near-Source Ground-Motion (Attenuation) Relations for the Horizontal and Vertical Components of Peak Ground Acceleration and Acceleration Response Spectra: *Bulletin of the Seismological Society of America*, Vol. 93, No. 4., p. 1872.
- Campbell, K.W., and Bozorgnia, Y., 2003b, Erratum: Updated near-source ground motion (attenuation) relations for the horizontal and vertical components of peak ground acceleration and acceleration response spectra: *Bulletin of the Seismological Society of America*, Vol. 93, p. 1413.
- Campbell, K.W., and Bozorgnia, Y., 2003c, Updated Near-Source Ground-Motion (Attenuation) Relations for the Horizontal and Vertical Components of Peak Ground Acceleration and Acceleration Response Spectra: *Bulletin of the Seismological Society of America*, Vol. 93, No. 1, pp. 314-331.
- Campbell, R.H., 1975, Soil slips, debris flows, and rainstorms in the Santa Monica Mountains and vicinity, southern California: United States Geological Survey Professional Paper 851, 51p.
- Cannon, S.H., 2001, Debris-Flow Generation from Recently Burned Watersheds: *Environmental & Engineering Geosciences*, Vol. VII, No. 4, November 2001, pp. 321-341.
- Cao, T., Bryant, W.A., Rowshandel, B., Branum, D., and Wills, C.J., 2003, The revised 2002 California probabilistic seismic hazard maps, dated June 2003, 11p., available at <http://www.consrv.ca.gov/cgs/rghm/psha/index.htm>.
- Center for Continuing Study of the California Economy, July 2013, Numbers in the News: California Poised to Move Up in World Economy Rankings in 2013.

- Chenoweth, M., and Landsea, C., 2004, The San Diego Hurricane of 2 October 1858: *Bulletin of the American Meteorological Society*, November issue, pp. 1689-1697.
- Chin, E.H., Aldrige, B.N., and Longfield, R.J., 1991, Floods of February 1980 in Southern California and Central Arizona: U.S. Geological Survey Professional Paper 1494, 126p.
- Chow, V.T., 1959, *Open Channel Hydraulics*: McGraw Hill, New York, 680p.
- City of Huntington Beach Flood Study, 1974; <http://www.hbsurfcity.com/history/floodhis.htm>
- Clark, B.R., Zeiser, F.L., and Gath, E.M., 1986, Evidence for determining the activity level of the Pelican Hill fault, coastal Orange County, California; *in* Program with Abstracts, Association of Engineering Geologists, p. 146.
- Clarke, S.H., Jr., Greene, H.G., and Kennedy, M.P., 1985, Earthquake-related phenomena offshore; *in* Ziony, J.I., (editor), *Evaluating Earthquake Hazards in the Los Angeles Region*: United States Geological Survey Professional Paper 1360, pp. 347-374.
- Claypole, E.W., 1900, The Earthquake at San Jacinto, December 25, 1899: *The American Geologist*, Vol. XXV, Feb. 1900, pp. 106-108, plate III.
- Coffman, J. L., and Stover, C.W., 1993, *Seismicity of the United States, 1568-1989*: U.S. Geological Survey Professional Paper 1527.
- Coleman, Ronny J., 1994, Policy Context on Urban-Wildland Fire Problem: California State and Consumer Services Agency, A Special Report for the Governor Pete Wilson, dated January 19, 1994, 13p.
- Collins, R., 2000, Evaluating the Effectiveness of the Bates Bill and Other Wildland Urban Interface Fire Protection Measures for the Healdsburg Fire Department: An applied research project submitted to the National Fire Academy as part of the Executive Fire Officer Program.
- Converse Consultants, 1994, Fault study report for the City of Newport Beach Utilities Department, Phase II Expansion Project, 949 W. 16th Street, Newport Beach, California; CCOC Project No. 94-32177-00, dated September 30, 1994.
- Corwin, C.H., 1947, West Newport oil field; *in* Summary of Operations, California Oil Fields, Thirty-second Annual Report of the State Oil and Gas Supervisor: Department of Natural Resources, Division of Oil and Gas, Vol. 32, No. 2, pp. 8-16.
- Crook Jr., R., Allen, C.R., Kamb, B., Payne, C.M., and R.J. Proctor, 1987, Quaternary geology and seismic hazard of the Sierra Madre and associated faults, western San Gabriel mountains; *in* Recent Reverse Faulting in the Transverse Ranges, California: U.S. Geological Survey Professional Paper 1339, pp. 27-63, Plates 2.1, 2.2, and 2.3.
- Davis, D. J., 1980, Rare and Unusual Postfire Flood Events Experienced Flood Events in Los Angeles County During 1978 and 1980; *in* Storms, Floods and Debris Flows in Southern California and Arizona 1978 and 1980: Proceedings of a Symposium, September 17-18, 1980, published by the National Academy Press.

- Davis, T.L., Namson, J., and Yerkes, R.F., 1989, A cross section of the Los Angeles area: Seismically active fold and thrust belt, the 1987 Whittier Narrows Earthquake, and Earthquake Hazard: *Journal of Geophysical Research*, Vol. 94, pp. 9644-9664.
- Dawson, T.E., Weldon, R.J., II, and Biasi, G.P., 2008, Appendix B: Recurrence Interval and Event Age Data for Type A Faults: U.S. Geological Survey Open File Report 2007-1437B, California Geological Survey Special Report 203B, Southern California Earthquake Center Contribution #1138B, Version 1.0, 38p.
- Deng, J., and Sykes, L.R., 1996, Triggering of 1812 Santa Barbara earthquake by a great San Andreas shock: implications for future seismic hazards in Southern California: *Geophysical Research Letters*, Vol. 23, pp. 1155-1158.
- Department of Boating and Waterways and State Coastal Conservancy, 2002, California Beach Restoration Study: Sacramento, California. Copies of this report may be obtained on the internet at: <http://www.dbw.ca.gov/beachreport.htm>
- Dolan, J.F., Christofferson, S., and Shaw, J.H., 2003, Recognition of paleoearthquakes on the Puente Hills blind thrust fault, Los Angeles, California: *Science*, Vol. 300, pp. 115-118.
- Dolan, J.F., Gath, E.M., Grant, L.B., Legg, M., Lindvall, S., Mueller, K., Oskin, M., Ponti, D.F., Rubin C.M., Rockwell, R. K., Shaw, J.H., Trieman, J.A., Walls, C., and Yeats, R.S. (compiler), 2001, Active Faults in the Los Angeles Metropolitan Region: Report by the Southern California Earthquake Center Group C.
- Dolan, J.F., Sieh, K., Rockwell, T.K., Yeats, R.S., Shaw, J., Suppe, G., Huftile, G., and Gath, E., 1995, Prospects for larger and more frequent earthquakes in greater metropolitan Los Angeles, California: *Science*, Vol. 267, pp. 199-205.
- Earth Consultants International, Inc., 1997, Fault trenching investigation, Newport-Banning Property, Orange County, California; Project No. 978100-019, dated November 25, 1997.
- Earth Technology Corporation (The), 1986, Geological evaluation of faulting potential, West Newport oil field, Orange County, California; Project No. 86-820-01, dated July 31, 1986.
- Earthquake Engineering Research Institute (EERI), 1986, Reducing Earthquake Hazards: Lessons Learned from Earthquakes: Earthquake Engineering Research Institute, Publication No. 86-02, 208p.
- Earthquake Engineering Research Institute (EERI), 1992, Special Report, Landers and Big Bear Earthquakes of June 28 and 29, 1992, Double Event Shakes Southern California: Oakland, California, 12p.
- Earthquake Engineering Research Institute (EERI), 1994, Northridge Earthquake, January 17, 1994, Preliminary Reconnaissance Report: Oakland, California, 96p.
- Earthquake Engineering Research Institute (EERI), 1995, Northridge, California, 1994 Earthquake, Vol. 11, Issues S1 and S2.

- Earthquake Project, 1989, Catastrophic Earthquake, The Need to Insure Against Economic Disaster, Boston, MA: National Committee on Property Insurance.
- Eguchi, R.T., and Ghosh, S., 2008, The ShakeOut Scenario, Supplemental Study: Hazardous Materials: U.S. Geological Survey Open File Report 2008-1150, California Geological Survey Preliminary Report 25, version 1.0, dated May 2008, 11p.
- Eisner, R.K., Borrero, J.C. and Synolakis, C.E., 2001, Inundation Maps for the State of California.
- Ellen, S.D., and Fleming, R.W., 1987, Mobilization of Debris Flows from Soil Slips, San Francisco Bay region, California; *in* Costa, J.E. and Wicczorek, G.F. (editors), Debris Flows/Avalanches: Process, Recognition, and Mitigation: *Geological Society of America Reviews in Engineering Geology*, Vol. VII, pp. 31-40.
- Ellsworth, W.L., 1990, Earthquake History, 1769-1989; *in* Wallace, R.E., (editor), The San Andreas Fault System, California: U.S. Geological Survey Professional Paper 1515.
- Engstrom, W.N., 1996, The California storm of January 1862: *Quaternary Research*, Vol. 46, pp. 141-148.
- Ewing, L. and Wallendorf, L., (editors), 2002, Solutions to Coastal Disasters '02: Conference Proceedings of the meeting held in San Diego, California on February 24-27, 2002: American Society of Civil Engineers, Reston, Virginia, 1,019p.
- Federal Emergency Management Agency, 1985, FEMA-73, Comprehensive Earthquake Preparedness Planning Guidelines: City: Earthquake Hazard Reduction Series 2, 80p.
- Federal Emergency Management Agency (FEMA), 1987, The Los Angeles – Whittier Narrows Earthquake of October 1, 1987: Federal/State Hazard Mitigation Survey Team Report: Federal Emergency Management Agency Region IX, California Governor's Office of Emergency Services, Southern California Earthquake Preparedness Project and Planning Division.
- Federal Emergency Management Agency (FEMA), 1987, FEMA-135, Abatement of Seismic Hazards to Lifelines: Water and Sewer Lifelines and Special Workshop Presentations: Earthquake Hazard Reduction Series No. 2, 181p.
- Federal Emergency Management Agency (FEMA), 1987, FEMA-139, Abatement of Seismic Hazards to Lifelines: Proceedings of a Workshop on Development of an Action Plan – Volume 5: Papers on Gas and Liquid Fuel Lifelines: Building Seismic Safety Council; Earthquake Hazard Reduction Series No. 30, 134p.
- Federal Emergency Management Agency (FEMA), 1988, FEMA-154, Rapid Visual Screening of Buildings for Potential Seismic Hazards: A Handbook: Applied Technology Council (ATC-21), Earthquake Hazards Reduction Series No. 41, 185p.
- Federal Emergency Management Agency (FEMA), 1988, FEMA-155, Rapid Visual Screening of Buildings for Potential Seismic Hazards: Supporting Documentation: Applied Technology Council (ATC-21-1), Earthquake Hazards Reduction Series No. 42, 137p.

- Federal Emergency Management Agency (FEMA), 1988, FEMA-156, Typical Costs for Seismic Rehabilitation of Existing Buildings, Volume I – Summary: by Englekirk and Hart Consulting Engineers, Inc., Los Angeles, California; Earthquake Hazard Reduction Series No. 39.
- Federal Emergency Management Agency (FEMA), 1989, FEMA-173, Establishing Programs and Priorities for the Seismic Rehabilitation of Buildings – Supporting Report: Building Systems Development, Inc., Integrated Design Services and Rubin, Claire B.; Earthquake Hazard Reduction Series No 46, 190p.
- Federal Emergency Management Agency (FEMA), 1989, FEMA-174, Establishing Programs and Priorities for the Seismic Rehabilitation of Buildings – A Handbook Building Systems Development, Inc., Integrated Design Services and Rubin, Claire B.; Earthquake Hazard Reduction Series No 45, 122p.
- Federal Emergency Management Agency (FEMA), 1989, FEMA-175, Seismic Evaluation of Existing Buildings: Supporting Documentation: Applied Technology Council (ATC-22-1); Earthquake Hazard Reduction Series No. 48, 160p.
- Federal Emergency Management Agency (FEMA), 1989, FEMA-178, A Handbook for Seismic Evaluation of Existing Buildings (Preliminary): Applied Technology Council (ATC-22); Earthquake Hazard Reduction Series No. 47, 169p.
- Federal Emergency Management Agency, 1989, Flood Insurance Rate Maps (FIRMs) for the City of Newport Beach, California; Community Panels No. 06059-C0047E, 06059-C0055E, 06059-C0062E, 06059-CSTD1, 06059-CSTD2, and 06059-CSTD3 dated September 15, 1989.
- Federal Emergency Management Agency (FEMA), 1994, (Second Edition), Typical Costs for Seismic Rehabilitation of Existing Buildings: Volume I: Summary: Prepared for FEMA by the Hart Consultant Group, Inc., Santa Monica, California, 70p., supersedes 1988 version.
- Federal Emergency Management Agency (FEMA), 1995, (Second Edition), Typical Costs for Seismic Rehabilitation of Existing Buildings: Volume 2: Supporting Documentation. Second Edition: Prepared for FEMA by the Hart Consultant Group, Inc., Santa Monica, California, 102p., supersedes 1988 version.
- Federal Emergency Management Agency, 1997, Flood Insurance Rate Maps (FIRMs) for the City of Newport Beach, California; Community Panels No. 06059-C0046F, 06059-C0054F and Index Map No. 06059C-IND0, dated January 3, 1997.
- Federal Emergency Management Agency, 1998, FEMA-232, Home Builder’s Guide to Seismic Resistant Construction: Earthquake Hazard Reduction Series, 75p.
- Federal Emergency Management Agency, 1998, FEMA-315, Seismic Rehabilitation of Buildings: Strategic Plan 2005: Earthquake Hazard Reduction Series, 40p.
- Federal Emergency Management Agency, 2007, Definitions of alluvial fan flooding and flooding in general as published in the Code of Federal Regulations Title 44 (Emergency Management and Assistance), Section 59.1.

- Federal Emergency Management Agency (FEMA), 2014, Review of Changes to the Policy for Flood Risk Analysis and Mapping, FEMA Daily Digest Bulletin, March 18, 2014.
- Feton, J.P., 1988, Newport Beach - The first Century, 1888-1988: City of Newport Beach Historical Society, Sultana Press, Brea, California.
- Field, E.H., Dawson, T.E., Felzer, K.R., Frankel, A.D., Gupta, V., Jordan, T.H., Parsons, T., Petersen, M.D., Stein, R.S., Weldon, R.J., and Wills, C.J., 2009, Uniform California earthquake rupture forecast, version 2: *Bulletin of the Seismological Society of America*, Vol. 99, pp. 2053-2107.
- Field, E.H., Seligson, H.A., Gupta, N., Gupta, V., Jordan, T.H., and Campbell, K.W., 2005, Loss Estimates for a Puente Hills Blind-Thrust Earthquake in Los Angeles, California: *Earthquake Spectra*, Vol. 21, No. 2, pp. 329-338.
- Field, M.E., and Edwards, B.D., 1980, Slopes of the southern California continental borderland: A regime of mass transport; *in* Field, M.E., Bouma, A.H., Colburn, I.P., Douglas, R.G., and Ingle, J.C., (editors), Proceedings of the Quaternary depositional environments of the Pacific Coast: Pacific Coast Paleogeography Symposium No. 4: Los Angeles California Society of Economic Paleontologists and Mineralogists, Pacific Section, pp. 169-184.
- Finney, M.A., 1995, FARSITE- A Fire Area Simulator for Managers; *in* The Biswell Symposium: Fire Issues and Solutions in Urban Interface and Wildland Ecosystems: US Department of Agriculture, Forest Service, General Technical Report PSW-158, Berkeley, California.
- Finney, M.A. 1998, FARSITE: Fire Area Simulator-model development and evaluation: U.S. Department of Agriculture, Forest Service, Research Paper RMRS-RP-4, Rocky Mountain Research Station, Ft. Collins, Colorado, 47p.
- Finney, M. A., 2006, An overview of FlamMap fire modeling capabilities; *in* Fuels Management—How to Measure Success: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station, Fort Collins, Colorado, Proceedings RMRS-P-41, Portland, Oregon, March 28-30,, pp. 213-220.
- Fisher, Fred L., 1995, Building Fire Safety in the Wildland Urban Intermix: The Role of Building Codes and Fire Test Standards: Report prepared for the California/China Bilateral Conference on Fire Safety Engineering held August 14-15, 1995 in Sacramento, California, 13p.
- Fischer, P.J., and Mills, G.I., 1991, The offshore Newport-Inglewood – Rose Canyon fault zone, California: Structure, segmentation and tectonics; *in* Abbott, P.L., and Elliot, W.J., (editors.), Environmental Perils, San Diego Region: Geological Society of America Field Trip guidebook prepared by the San Diego Association of Geologists, pp. 17-36.
- Fisher, Fred L., 1995, Building Fire Safety in the Wildland Urban Intermix: The Role of Building Codes and Fire Test Standards: Report prepared for the California/China Bilateral Conference on Fire Safety Engineering held August 14-15, 1995 in Sacramento, California, 13p.
- Flick, R.E., 1985, A review of conditions associated with high sea levels in southern California: *Science of the Total Environment*, Vol. 55, pp. 251-259.
- Flick, R.E., 1998, Comparison of California tides, storm surges, and sea level during the El Niño winters

- of 1982-83 and 1997-98: *Shore and Beach*, Vol. 66, No. 3, pp. 7-11.
- Flick, R.E., 2007, In California, Mean Sea Level Doesn't Run Over Your Doorstep!: Presentation given at the Fourth Annual Climate Change Research Conference, 10 September 2007, Sacramento, California.
- Flick, R. E., and D. R. Cayan, 1984, Extreme Sea Levels on the Coast of California: American Society of Civil Engineers, 19th Coastal Engineering Conference Proceedings, Houston, Texas, pp. 886–897.
- Flyn, Jennifer D., 2009, Fire Service Performance Measures: National Fire Protection Association, Fire Analysis and Research Division, Quincy, Massachusetts, 43p., November.
- Freeman, S. T., Heath, E.G., Guptil, P.D., and Waggoner, J.T., 1992, Seismic hazard assessment, Newport–Inglewood fault zone; *in* Pipkin, B.W., and Proctor, R.J., (editors), *Engineering Geology Practice in Southern California*: Star Publishing Co., Belmont, California, pp. 211–231.
- Fuis, G.S., and Mooney, W.D., 1990, Lithospheric structure and tectonics from seismic-refraction and other data; *in* Wallace, R.E., (editor), *The San Andreas Fault System, California*: U.S. Geological Survey Professional Paper 1515, pp. 207-283.
- Fumal, T.E., Davis, A.B., Frost, W.T., O'Donnell, J., Segal, G., and Schwartz, D.P., 1995, Recurrence Studies of the Tujunga Segment of the 1971 San Fernando earthquake, California: *EOS (Supplement)*, Vol. 76, No. 46, 364p.
- Gath, E.M., Gonzalez, T., and Rockwell, T.K., 1992, Slip rate on the Whittier fault based on 3-D trenching at Brea, southern California: *Geological Society of America Abstracts with Programs*, Vol. 24, p. 26.
- Garcia, A.W., and Houston, J.R., 1975, Type 16 flood insurance study – Tsunami predictions for Monterey and San Francisco Bays and Puget Sound: U.S. Army Corps of Engineers Waterways Experiment Station Technical Report H-75-17, 21p.
- Garrison, T., 2002, *Oceanography – An Invitation to Marine Science*: Wadsworth Publishing House, Belmont, California, 4th Edition.
- Goklany, I.M., 2007, Death and Death Rates due to Extreme Weather Events: Global and U.S. Trends, 1900-2006: *The Civil Society Report on Climate Change*: International Policy Press, London.
- Gosnold, William D., Jr., LeFever, Julie A., Todhunter, Paul E., and Osborne, Leon F., Jr., 2000, Rethinking Flood Prediction: Why the Traditional Approach Needs to Change: *Geotimes*, Vol. 45, No. 5, pp. 20-23.
- Graf, W.P., 2008, Woodframe Buildings: Supplemental Study to The ShakeOut Scenario: U.S. Geological Survey Open File Report 2008-1150 and California Geological Survey Preliminary Report 25 version 1.0.
- Graf, W.P., and Seligson, H.A., 2011, Earthquake Damage to Wood-Framed Buildings in the ShakeOut Scenario: *Earthquake Spectra*, Vol. 27, No. 2, pp. 351-373.

- Grant, L.B., Ballenger, L.J., and Runnerstrom, E.E., 2002, Coastal uplift of the San Joaquin Hills, southern Los Angeles Basin, California, by a large earthquake since A.D. 1635: *Bulletin of the Seismological Society of America*, Vol. 92, No. 2, pp. 590-599.
- Grant, L.B., Mueller, K. J., Gath, E.M., Cheng, H., Edwards, R.L., Munro, R., Kennedy, G.L., 1999, Late quaternary uplift and earthquake potential of the San Joaquin Hills, southern Los Angeles Basin, California: *Geology*, November 1999, Vol. 27, No. 11, pp. 1031-1034.
- Grant, L.B., Waggoner, J.T., Rockwell, T.K., and von Stein, C., 1997, Paleoseismicity of the north branch of the Newport-Inglewood fault zone in Huntington Beach, California, from Cone Penetrometer Test Data: *Bulletin of the Seismological Society of America*, Vol. 87, No. 2, pp. 277-293.
- Grauzinis, V. J., Joy, J.W., and R. R. Putz, 1965, The Reported Tsunami of December 1812: manuscript written for the Environmental Impact Report for San Onofre Nuclear Generating Power Station.
- Greenlee, J., and Sapsis, D., 1996, Prefire Effectiveness in Fire Management: A Summary of State-of-Knowledge: dated August 1996; available from www.ucpl.ucop.edu/UWI%20Documents/103.PDF.
- Greenwood, R.B., 1998, Section I - Liquefaction Evaluation Report: Liquefaction zones in the Long Beach 7.5-Minute Quadrangle, Los Angeles County, California: California Division of Mines and Geology Seismic Hazard Zone Report for the Long Beach 7.5-Minute Quadrangle, Los Angeles County, California, Open File Report No. 98-19, pp. 3-20.
- Griggs, G.B., Marshall, J.S., Rosenbloom, N.A., and Anderson, R.S., 1991, Ground Cracking in the Santa Cruz Mountains; *in* Baldwin, J.E. and Sitar, N. (editors), Loma Prieta Earthquake: Engineering Geologic Perspectives, Association of Engineering Geologists Special Publication No. 1, pp. 25-41.
- Guptil, P.D., Armstrong, C., and Egli, M., 1992, Structural features of West Newport Mesa; *in* Heath, E., and Lewis, L., (editors), The Regressive Pleistocene Shoreline, Coastal Southern California, South Coast Geological Society Annual Field Trip Guide Book No. 20, pp. 123-136.
- Guptil, P.D., and Heath, E.G., 1981, Surface faulting along the Newport-Inglewood zone of deformation: *California Geology*, pp. 142-148.
- Hall, J.F., (editor), 1994, Northridge Earthquake, January 17, 1994: EERI Preliminary Reconnaissance Report, 107p.
- Harp, E.L., and Jibson, R.W., 1996, Landslides triggered by the 1994 Northridge, California, earthquake: *Bulletin of the Seismological Society of America*, Vol. 86, No. 1B, pp. S319-S332.
- Hart, E.W., and Bryant, W.A., 1999, Fault-Rupture Hazard Zones in California, Alquist-Priolo Earthquake Fault Zoning Act with Index to Earthquake Fault Zones Maps: California Division of Mines and Geology Special Publication 42.
- Hart, E.W., and Bryant, W.A., 2007 Interim Revision, Fault-Rupture Hazard Zones in California, Alquist-Priolo Earthquake Fault Zoning Act with Index to Earthquake Fault Zones Maps: California Division of Mines and Geology Special Publication 42, 42p., available from the web at <http://www.consrv.ca.gov/cgs/rghm/ap/Pages/disclose.aspx>

- Hauksson, E., 1987, Seismotectonics of the Newport-Inglewood fault zone in the Los Angeles Basin, southern California: *Bulletin of the Seismological Society of America*, Vol. 77, No. 2, pp. 539-561.
- Hauksson, E., and Gross, S., 1991, Source parameters of the 1933 Long Beach earthquake: *Bulletin of the Seismological Society of America*, Vol. 81, pp. 81-98.
- Hauksson, E., and Jones, L.M., 1989, The 1987 Whittier Narrows earthquake sequence in Los Angeles, southern California: Seismological and tectonic analysis: *Journal of Geophysical Research*, Vol. 94 pp. 9569-9589.
- Hauksson, E., Jones, L.M., and Hutton, K., 2002, The 1999 Mw 7.1 Hector Mine, California, earthquake sequence: Complex conjugate strike-slip faulting: *Bulletin of the Seismological Society of America*, Vol. 92, No. 4, pp. 1154-1170.
- Hayes, E., 1988, A Review of Information on Seismic Hazards Needed for the Earthquake-Resistant Design of Lifeline Systems in the United States: U.S. Geological Survey Open File Report ICSSCTR-10, 71p.
- Heck, N.H., 1947, List of Seismic Sea Waves: *Bulletin of the Seismological Society of America*, Vol. 37, No. 4.
- Helm, R., Neal, B., and Taylor, L., 1973, A Fire Hazard Severity Classification System for California's Wildlands: A report by the Department of Housing and Urban Development and the California Department of Conservation, Division of Forestry to the Governor's Office of Planning and Research, dated April 1, 1973.
- Henry, A.J., 1916, Floods of January-February, 1916, in the lower Mississippi and in Southern California: *Monthly Weather Review*, Washington D.C., dated February 29, 1916.
- Highland, L.M., and Schuster, R.L., undated, Significant Landslide Events in the United States: U.S. Geological Survey publication, 21p., available from www.landslides.usgs.gov/docs/faq/significantls_508.pdf
- Houston, J.R., and Garcia, A.W., 1974, Type 16 flood insurance study: Tsunami predictions for Pacific coastal communities: U.S. Army Corps of Engineers Waterways Experiment Station Research Report H-74-3, 10p.
- Houston, J.R., and Garcia, A.W., 1978, Type 16 flood insurance study: Tsunami predictions for the west coast of the United States: U.S. Army Corps of Engineers Waterways Experiment Station Research Report H-78-26, 38p.
- Houston, J.R., 1980, Type 19 flood insurance study: Tsunami predictions for southern California: U.S. Army Corps of Engineers Waterways Experimental Station Technical Report HL-80-18, 172p.
- Houston, J.R., and Butler, H.L., 1979, A numerical model for tsunami inundation: U.S. Army Corps of Engineers Waterways Experimental Station Technical Report HL-79-2, 54p.
- Houston, J.R., Whalin, R.W., Garcia, A.W., and Butler, H.L., 1975, Effect of source orientation and location in the Aleutian Trench on tsunami amplitude along the Pacific coast of the continental

- United States: U.S. Army Corps of Engineers Waterways Experiment Station Research Report H-75-4, 22p.
- Iida K., Cox, D. C, and G. Pararas-Carayannis, 1967, Preliminary Catalog of Tsunamis Occurring in the Pacific Ocean: University of Hawaii, Honolulu.
- Iida, K., 1963, Magnitude, energy, and generation mechanisms of tsunamis and a catalog of earthquakes associated with tsunamis; *in* Proceedings of the 10th Pacific Science Congress Symposium: International Union of Geodesy and Geophysics Monograph No. 24, pp. 7-18.
- Imamura, A., 1949, List of Tsunamis in Japan: *Journal of the Seismological Society of Japan*, Vol. 2, pp. 22-28 (in Japanese, as referenced in McCulloch, 1985).
- Institute for Local Self Government, 1992, Fire Retardant Roofing: How we can save lives and property: A guide for enacting local ordinances for fire and retardant roofing, 69p.
- Insurance Services Office, Inc. (ISO), 1997, The Wildland/Urban Fire Hazard: ISO, New York, December 1997.
- Insurance Services Office, Inc. (ISO), 2001, Guide for Determination of Needed Fire Flow: Edition 10-2001, 26p.
- Interagency Hazard Mitigation Team, 2000, State Hazard Mitigation Plan: Oregon Emergency Management.
- International Code Council (ICC), 2012, International Building Code.
- International Conference of Building Officials (ICBO), 1997, Uniform Building Code.
- International Conference of Building Officials (ICBO), 2001, California Building Code.
- International Conference of Building Officials, 2001, Uniform Code for Building Conservation, Appendix Chapter 1, 1997 Edition, California Building Standards Commission, Part 10, Title 24, California Code for Building Conservation, California Code of Regulations.
- International Conference of Building Officials, 2001, California Historical Building Code, California Building Standards Commission, Part 8, Title 24, California Code of Regulations.
- International Conference of Building Officials, 2001, Uniform Building Code, 1997 Edition, California Building Standards Commission, California Building Code, Part 2, Title 24, California Code of Regulations.
- Jacoby, G., Sheppard, P. and Sieh, K., 1988, Irregular recurrence of large earthquakes along the San Andreas Fault in southern California -- Evidence from trees near Wrightwood: *Science*, Vol. 241, pp. 196-199.
- Jaffe, M., Butler, J., and Thurow, C., 1981, Reducing Earthquake Risks: A Planners Guide: American Planning Association (Planning Advisory Service), Report No. 364, 82p.

- Jennings, C. W., Strand, R. G., Rogers, T. H., 1977, Geologic Map of California: California Division of Mines and Geology, Geologic Data Map No. 2, reprinted 2000; Scale: 1:750,000.
- Jennings, Charles W., 1994, Fault Activity Map of California and Adjacent Areas with Location and Ages of Recent Volcanic Eruptions: California Division of Mines and Geology, California Geologic Data Map Series, Map No. 6, Map Scale: 1:250,000. (CD-2000-06: Digital Database of Fault Activity Map of California and Adjacent Areas).
- Jibson, R.W., 2005, Landslide Hazards at La Conchita, California: U.S. Geological Survey Open-File Report 2005-1067, available from <http://pubs.usgs.gov/of/2005/1067/508of05-1067.html>
- John M. Tettemer and Associates, 1998, Newport Coast Phase IV-2, Hydrology Analysis; Report dated February 1998.
- Jones, L.M., 1995, Putting Down Roots in Earthquake Country: Southern California Earthquake Center (SCEC) Special Publication, Los Angeles, California.
- Jones, L.M., Bernknopf, R., Cox, D., Goltz, J., Hudnut, K., Mileti, D., Perry, S., Ponti, D., Porter, K., Reichle, M., Seligson, H., Shoaf, K., Treiman, J., and Wein, A., 2008, The ShakeOut Scenario: U.S. Geological Survey Open File Report 2008-1150, California Geological Survey Preliminary Report 25, version 1.0, 308p.
- Jones, L., Mori, J., and Hauksson, E., 1995, The Landers Earthquake: Preliminary Instrumental Results: *Earthquakes and Volcanoes*, Vol. 23, No. 5, pp. 200-208.
- Joy, J.W., 1968, Tsunamis and their Occurrence along the San Diego County Coast: Westinghouse Ocean Research Laboratory Report, No. 68-567-OCEAN-RL, San Diego, California.
- Joyner, W. B., and Fumal, T. E., 1985, Predictive Mapping of Earthquake Ground Motion; *in* Ziony, J. I., ed., *Evaluating Earthquake Hazards in the Los Angeles Region, An Earth-Science Perspective*: U.S. Geological Survey Professional Paper 1360, pp. 203-217.
- Keefer, D.K., 1984, Landslides caused by earthquakes: *Geological Society of America Bulletin*, Vol. 95, No. 4, pp. 406-421.
- Keefer, D.K., and Johnson, A.M., 1983, Earth Flows: Morphology, Mobilization, and Movement: U.S. Geological Survey Professional Paper 1264, 55p.
- Keefer, D.K., and Wilson, R.C., 1989, Predicting earthquake-induced landslides with emphasis on arid and semi-arid environments; *in* Sadler, P.M., and Morton, D.M., (editors), *Landslides in a Semi-Arid Environment with Emphasis on the Inland Valleys of Southern California*: Inland Geological Society of Southern California, Volume 2, pp. 118-149.
- Keefer, D.K., Wilson, R.C., Mark, R.K., Brabb, E.E., Brown III, W.M., Ellen, S.D., Harp, E.L., Wieczorek, G.F., Alger, C.S., and Zatzkin, R.S., 1987, Real-Time Landslide Warning During Heavy Rainfall: *Science*, Vol. 238, pp. 921-925.
- Keeley, J.E., 2006, South Coast Bioregion; *in* Sugihara, N.G., van Wagtendonk, J.W., Shaffer, K.E., Fites-Kaufman, J., and Thode, A.E., (editors), 2006, *Fire in California's Ecosystems*: University of California Press, Berkeley and Los Angeles, California, pp. 350-390.

- Keeley, J.E., and Fotheringham, C.J., 2001, Historic fire regime in Southern California shrublands: *Conservation Biology*, Vol. 15, No. 6, pp. 1536-1548.
- Knuuti, Kevin, 2002, Planning for Sea Level Rise: U.S. Army Corps of Engineers Policy; *in* Ewing, L. and Wallendorf, L., (editors), *Solutions to Coastal Disasters '02: Conference Proceedings of the meeting held in San Diego, California on February 24-27, 2002*: American Society of Civil Engineers, Reston, Virginia, pp. 549-560.
- Kuhn, G.G. and Shepard, F.P., 1984, *Sea Cliffs, Beaches and Coastal Valleys of San Diego County: Some Amazing Stories and Some Horrifying Implications*: University of California Press, Berkeley and Los Angeles, California, 193p.
- Kuhn, G.G. and Shepard, F.P., 1985, *Beach Processes and Sea Cliff Erosion in San Diego County, California*: Handbook of Coastal Processes and Erosion, edited by Komar, P.D, CRC Press.
- Lagasse, P.F., Schall, J.D., Johnson, F., Richardson, E.V., Richardson, J.R., Chang, F., 1991, Stream stability at highway structures: U.S. Department of Transportation No. FHWA-IP-90-014 Hydraulic Engineering Circular 20, 195p.
- Lajoie, K.R., Ponti, D.J., Powell II, S.A., Mathieson, S.A, and Sarna-Wojcicki, 1991, Emergent Marine Strandlines and Associated Sediments, Coastal California; A Record of Quaternary Sea-Level Fluctuations, Vertical Tectonic Movements, Climatic Changes, and Coastal Processes; *in* Morrison, R.B., (editor), *Quaternary Nonglacial Geology: Conterminous U.S.: The Geological Society of America, The Decade of North American Geology, Volume K-2*, pp. 191-214.
- Lander, J.F., and P.A. Lockridge, 1989, *United States Tsunamis 1690-1988*: U.S. Department of Commerce, Publication 41-2.
- Lander, J.F., Lockridge, P.A., and Kozuch, M.J., 1993, *Tsunamis affecting the West Coast of the United States, 1806-1992*: U.S. Department of Commerce, NOAA, KGRD 29, Boulder, Colorado, 242p.
- Larson, L., 2009, How Certain Are We About Our Flood Risk?: *Nation Hazards Observer*, Vol. XXXIII, No. 6, dated July 2009.
- Law/Crandall, Inc., 1994, Report of fault rupture hazard investigation, Wastewater Treatment Plant No. 2, Huntington Beach, California for the County Sanitation Districts of Orange County, Project No. 2661.30140.0001, dated June 13, 1994.
- Lazarte, C.A., Bray, J.D., Johnson, A.M., and Lemmer, R.E., 1994, Surface breakage of the 1992 Landers earthquake and its effects on structures: *Bulletin of the Seismological Society of America*, Vol. 84, No. 3, pp 547-561.
- Legg, M.R., 1985, Geologic structure and tectonics of the inner continental borderland offshore northern Baja California, Mexico: unpublished PH.D thesis, University of California Santa Barbara, 410p.
- Legg, M.R., Borrero, J.C., and Synolakis, C.E., 2003, Evaluation of Tsunami Risk to Southern California Coastal Cities: Research supported by the 2002 Professional Fellowship, funded by the Federal

- Emergency Management Agency and administered by the Earthquake Engineering Research Institute, EERI PF2002-11, 32p. + graphics.
- Legg, M.R. and Goldfinger, C., 2001, Earthquake Potential of Major Faults Offshore Southern California: Collaborative Research with Oregon State University and Legg Geophysical: U.S. Geological Survey Grant No. 01HQGR0017; available from <http://erp-web.er.usgs.gov/reports/abstract/2001/sc/g0017.htm>.
- Legg, M.R., and Kennedy, M.P., 1991, Oblique divergence and convergence in the California Continental Borderland; in Abbott, P.L., and Elliott, W.J., (editors), Environmental Perils of the San Diego Region: San Diego Association of Geologists Guidebook, pp. 1-16.
- Leighton and Associates, Inc., 1997, Preliminary geotechnical investigation of liquefaction and settlement potential, proposed residential development at the lowland portion of Newport/Banning Ranch, northeast of Pacific Coast Highway and the Santa Ana River, city of Newport Beach, California; Project No. 1970011-01, dated May 16, 1997.
- Leon, L.A., Dolan, J.F., Shaw, J.H., and Pratt, T.L., 2006 and 2007, Borehole and high-resolution seismic reflection evidence for Holocene activity on the Compton blind-thrust fault, Los Angeles, California: Abstract to presentation given at the Southern California Earthquake Center Annual Meeting held in Palm Springs, California on September 10-13, 2006, and at the Southern California Section of the Association of Engineering Geologists monthly meeting held in Commerce, California on May 8, 2007.
- Leon, L.A., Dolan, J.F., Shaw, J.H., and Pratt, T.L., 2009, Evidence for large Holocene earthquakes on the Compton thrust fault, Los Angeles, California: *Journal of Geophysical Research*, Vol., 114, B12305, doi:10.1029/2008JB006129.
- Liel, A.B., Haselton, C.B. and Deierlein, G.G., 2011, Seismic collapse safety of reinforced concrete buildings: II. Comparative assessment of non-ductile and ductile moment frames: *Journal of Structural Engineering*, Vol. 137, No. 4, pp. 492-502.
- Lindvall, S.C., and Rockwell, T.K., 1995, Holocene activity of the Rose Canyon fault zone in San Diego, California: *Journal of Geophysical Research*, Vol. 100, pp. 24,121-24,132.
- Long, E.E., 1988, Acting Chief of Tide and Current Prediction Section, NOAA, National Ocean Survey, personal communication with James E. Lander, CIRES, September 19, 1988, as reported in Lander and Lockridge, 1989.
- LSA Associates, Inc., 1991, Final Environmental Impact Report, San Joaquin Hills Planned Community, No. 517; dated February 26, 1991.
- LSA Associates, Inc., 1998, Environmental Impact Report: Phase IV-2 of the Newport Coast Planned Community, Newport Coast Planning Areas 3A-2, 3B, 14, MCDP Sixth Amendment and Coast Development Permit.
- Lund, Le Val, 1994, Lifelines performance in the Landers and Big Bear (California) earthquakes of 28 June 1992: *Bulletin of the Seismological Society of America*, Vol. 84, No. 3, pp. 562-572.

- Lund, Le Val, 1996, Lifeline utilities performance in the 17 January 1994 Northridge, California Earthquake: *Bulletin of the Seismological Society of America*, Vol. 86, No. 1B, pp. S350-S361.
- Lynch, K.P., Rowe, K.L., and Liel, A.B., 2011, Seismic performance of reinforced concrete frame Buildings in southern California: *Earthquake Spectra*, Vol. 27, No. 2, pp. 399-418 (May 2011).
- Madden, C., and Yeats, R.S., 2008, Paleoseismic and Structural Investigations to Determine Late Quaternary Slip Rate for the Chino Fault, Southeastern Los Angeles Basin, California: Final Technical Report, U.S. Geological Survey National Earthquake Hazards Reduction Program, External Grant Award No. 04HQGR0107, October 2008, 51p. + 2 plates.
- Marine Advisors, Inc., (compilers), 1965, Examination of Tsunami Potential at the San Onofre Nuclear Generating Station, Report A-163, Los Angeles, California.
- Martin, G.R., and Lew, M., 1999, (editors), Recommended Procedures for Implementation of DMG Special Publication 117 Guidelines for Evaluating and Mitigating Seismic Hazards in California – Liquefaction Hazards: Southern California Earthquake Center Publication, 63p.
- Martinson, D.G., Pisias, N.G., Hays, J.D., Imbrie, J., Moore, J.C., Shackleton, N.J., 1987, Age dating and the orbital theory of ice ages: development of a high-resolution 0 to 300,000 year chronostratigraphy: *Quaternary Research*, Vol. 27, pp. 1-29.
- McCarthy, R.J., Bernard, E.N., and Legg, M.R., 1993, Coastal Zone '93, Processes of the American Shore and Beach Preserve Association: American Society of Civil Engineers meeting in New Orleans, Louisiana.
- McCulloch, D. S., 1985, Evaluating Tsunami Potential; *in* Ziony, J.I., (editor), Evaluating Earthquake Hazards in the Los Angeles Region: United States Geological Survey Professional Paper 1360, pp. 375-413.
- McGarr, A., Vorhis, R. C., 1968, Seismic seiches from the March 1964 Alaska earthquake: U.S. Geological Survey Professional Paper 544-E, 43p.
- McNeilan, T., Rockwell, T.K., and Resnick, G., 1996, Sense and rate of Holocene slip, Palos Verdes fault, southern California: *Journal of Geophysical Research*, Vol. 101, B4, pp. 8317-8334.
- Meier, M.F. 1984, Contribution of Small Glaciers to Global Sea Level: *Science*, Vol. 226, pp. 1418-1421.
- Mendenhall, W.C., 1905, Development of underground waters in the eastern coastal plain region of Southern California: United States Geological Survey Water-Supply and Irrigation Paper No. 137.
- Mercer, J.H. 1970, Antarctic Ice and Interglacial High Sea Levels: *Science*, Vol. 168, pp. 1605-1606.
- Mileti, D., 1999, Disasters by Design: A Reassessment of Natural Hazards in the United States: Joseph Henry Press, Washington D.C.
- Miller, R.V., and Tan, S.S., 1976, Geology and engineering geologic aspects of the south half of the Tustin quadrangle, Orange County, California: California Division of Mines and Geology Special Report No. 126.

- Millman, D.E., and Rockwell, T.K., 1986, Neotectonics of the Elsinore fault in Temescal Valley, California; *in* Neotectonics and Faulting in Southern California, Volume and Guidebook, Geological Society of America Cordilleran Section, pp. 159-166.
- Montandon, F., 1928, Tremblements de Terre: Moterdaux pour l'Etude des Calamites, Geneva, Switzerland, No. 16, 345p.
- Morton, D.M., 1999, Preliminary Digital Geologic Map of the Santa Ana 30' X 60' Quadrangle, Southern California, Version 1.0: United States Geological Survey Open-File Report 99-172, Southern California Areal Mapping Project.
- Morton, P.K., and Miller, R.V., 1981, Geologic Map of Orange County California, showing Mines and Mineral Deposits: California Division of Mines and Geology Bulletin 204, Plate 1, scale 1:48,000.
- Morton, P.K., Miller, R.V., Evans, J.R., 1976, Environmental Geology of Orange County, California: California Division of Mines and Geology Open-File Report 79-8 LA.
- Mueller, K.J., 1997, Recency of folding along the Compton-Los Alamitos trend: Implications for seismic risk in the Los Angeles basin: Abstract, *EOS Transactions of the American Geophysical Union*, Vol. 78, p. 702.
- Mueller, K.J., Grant, L.B., and Gath, E.M., 1998, Late Quaternary growth of the San Joaquin Hills - A new source of blind thrust earthquakes in the Los Angeles basin: *Seismological Research Letters*, Vol. 69, pp. 161-162.
- Mueller, Karl J. and Rockwell, T.K., 1995, Late Quaternary activity of the Laguna Salada fault in northern Baja California, Mexico: *Geological Society of America Bulletin*, Vol. 107, No. 1, pp. 8-18.
- Munro, R., 1992, Marine terraces along the frontal slopes of the Newport coast, Orange County, California; *in* Heath, E., and Lewis, L., (editors), The regressive Pleistocene shoreline, coastal southern California, South Coast Geological Society Annual Field Trip Guide Book No. 20, pp. 105-113.
- Myers, D.J., Nablek, J.L., and Yeats, R.S., 2003, Dislocation modeling of blind thrusts in the eastern Los Angeles Basin, California: *Journal of Geophysical Research*, Vol. 108, No. B9, 18p., doi: 10.1029/2002JB002150.
- National Climatic Data Center, 2010, Various Event Record Details, www4.ncdc.noaa.gov.
- National Earthquake Information Center (NEIC) USGS Earthquake Hazards Program, available from http://neic.usgs.gov/neis/epic/epic_rect.html
- National Fire Protection Association (NFPA), 2001, Standard for the Organization and Deployment of Fire Suppression Operations, Emergency Medical Operations and Special Operations to the Public by Career Fire Departments: NFPA Standard 1710, 2001 Edition.
- National Fire Protection Agency (NFPA), 2010, NFPA 1710: Standard for the Organization and Deployment of Fire Suppression Operations, Emergency Medical Operations, and Special

- Operations to the Public by Career Fire Departments, available from <http://www.nfpa.org/codes-and-standards/document-information-pages?mode=code&code=1710>
- National Oceanic & Atmospheric Administration (NOAA), 2005a, NOAA identifies causes for latest wet weather in west: NOAA News Online (Story 2395) available from www.noaanews.noaa.gov.
- National Oceanic & Atmospheric Administration (NOAA), 2005b, Worsening drought in northwest, record rain in the southwest in January: NOAA News Online (Story 2389), available from www.noaanews.noaa.gov.
- National Research Council, 1987, Responding to Changes in Sea Level: Engineering Implications: National Academy Press, Washington, D.C.
- National Research Council, Committee on Natural Disasters, Panel on the Assessment of Wind Engineering Issues, 1993, Wind and the Built Environment, U.S. Needs in Wind Engineering and Hazard Mitigation: National Academy Press, Washington D.C., 130p.
- National Research Council, Committee on FEMA Flood Maps, 2009, Mapping the Zone – Improving Flood Map Accuracy: National Academy Press, ISBN: 0-309-13058-1, 136p.
- Newport Beach (City of), 1975, Public Safety Element, Newport Beach General Plan.
- Newport Beach (City of), 2006, General Plan, adopted July 25, 2006.
- Nordstrom, Karl F., 2000, Beaches and Dunes of Developed Coasts: Cambridge University Press, Cambridge, United Kingdom, 338p.
- Oakeshott, Gordon B., (editor), 1975, San Fernando, California, Earthquake of 9 February 1971: California Division of Mines and Geology, Bulletin 196, 462p.
- Oldale, R., 1985, Late Quaternary Sea Level History of New England: A Review of Published Sea Level Data: *Northeastern Geology*, Vol. 7, pp. 192- 200.
- Orange County Flood Control District, photos of Storm Water Runoff dating from 1916, 1927, 1934, 1938, 1940, and 1941.
- Oregon Department of Land Conservation and Development, 2000, Planning for Natural Hazards: The Oregon Technical Resource Guide, Chapter 5.
- O'Rourke, Michael J., and X. Liu, 1999, Response of Buried Pipelines Subject to Earthquake Effects: American Society of Civil Engineers, Multidisciplinary Center for Earthquake Engineering Research Monograph #3, Buffalo, New York, 249p.
- Palm, R., 1981, Real Estate Agents and Special Studies Zone Disclosure: The Response of California Home Buyers to Earthquake Hazard Information: University of Colorado at Boulder, Natural Hazards Research and Applications Information Center, Monograph Series No. 032.
- Patterson, A. C., and Rockwell, T. K., 1993, Paleoseismology of the Whittier fault based on 3-dimensional trenching at the Olinda oil field, Orange County, southern California: Geological Society of America Abstracts With Programs, Vol. 25, p. 131.

- Peltier, W.R., and A.M. Tushingham, 1989, Global Sea Level Rise and the Greenhouse Effect: Might They Be Connected?: *Science*, Vol. 244, pp. 806-810.
- Perry, S., Jones, L., and Cox, D., 2011, Developing a Scenario for Widespread Use: Best Practices, Lessons Learned: *Earthquake Spectra*, Vol. 27, No. 2, pp. 263-272.
- Perry, R.W., and Lindell, M.K., 1999, Hazardous Materials Problems and Solutions in Earthquakes; *in* Annual Report and 16th Meeting of the Western States Seismic Policy Council, pp. 93-117.
- Person, Waverly J., 1986, Earthquakes: July - August 1986: *Earthquakes and Volcanoes*, Vol. 19, No. 1, pp. 32-35.
- Peterson, M. D., Bryant, W. A., Cramer, C. H., Cao, T., Reichle, M., Frankel, A. D., Lienkaemper, J. J., McCrory, P.A., and Schwartz, D. P., 1996, Probabilistic Seismic Hazard Assessment for the State of California: California Division of Mines and Geology, Open-File Report 96-08.
- Peterson, M. D., Topozada, T. R., Cao, T., Cramer, C. H., Reichle, M. S. and Bryant, W. A., 2000, Active Fault Near-Source Zones Within and Bordering the State of California for the 1997 Uniform Building Code: *Earthquake Spectra*, Vol. 16, No. 1, pp. 69-83.
- Petersen, M. D. and Wesnousky, S.G., 1994, Fault slip rates and earthquake histories for active faults in southern California: *Bulletin of the Seismological Society of America*, Vol. 84, No. 5, pp. 1608-1649.
- Phillips, Clinton B., 1983, Instructions for Zoning Fire Hazard Severity in State Responsibility Areas in California: California Department of Forestry, dated December 1983.
- Pickett, M.A., 2008, Assessing the Impacts of a M7.8 Southern San Andreas Fault Earthquake on Hospitals: Supplemental Study to the ShakeOut Scenario: U.S. Geological Survey Open File Report 2008-1150, California Geological Survey Preliminary Report 25 version 1.0, 22p.
- Pipkin, B.W., Robertson, H.S., and Mills, R.S., 1992, Coastal erosion in southern California: An overview; in Pipkin, B.W. and Proctor, R.J., editors, *Engineering Geology Practice in Southern California*: Association of Engineering Geologists, Southern California Section, Special Publication No. 4, Star Publishing Company, pp. 459-483.
- Platte, M., and Brazil, J., 1993, Water Pressure Burned Laguna – Fire Distribution Problems, and Not Low Supply – Hindered Fight, Records Show: Los Angeles Times article, November 14, 1993; http://articles.latimes.com/1993-11-14/news/mn-56930_1_low-water-pressure.
- Poland, J.F., and Piper, A.M., 1956, Ground-water geology of the coastal zone, Long Beach-Santa Ana area, California: U.S. Geological Survey Water-Supply Paper 1109.
- Porter K., Wein, A., Alpers, C., Baez, A., Barnard, P., Carter, J., Corsi, A., Costner, J. Das, T., Dettinger, M., Done, J., Eadie, C., Eymann, M., Ferris, J., Gunturi, P., Hughes, M., Jarrett, R., Johnson, L., Le-Griffin, H., Mitchell, D., Morman, S., Neiman, P., Olsen, A., Perry S., Plumlee, F., Ralph, M., Reynolds, D., Rose, A., Schaefer, K., Serakos, J., Siembieda, W., Stock, J., Strong, D., Wing, I., Tang, A., Thomas, P., Topping, K., and Wills, C., Jones, L. (chief scientist), and Cox, D. (project manager), 2011, Overview of the Arkstorm Scenario, U.S. Geological Survey Open File Report 2010-1312, 183p. plus appendices.

- Rahmstorf, S., 2007, A semi-empirical approach to projecting future sea-level rise: *Science*, Vol. 315, No. 5810, pp. 368-370.
- Ralph, F.M., and Dettinger, M.D., 2011, Storms, Floods, and the Science of Atmospheric Rivers: *EOS, Transactions of the American Geophysical Union*, Vol. 92, No. 32, dated 9 August 2011.
- Reneau, S.L., and Dietrich, W.E., 1987, The Importance of Hollows in Debris Flow Studies; Examples from Marin County, California; *in* Costa, J.E. and Wieczorek, G.F. (editors), *Debris Flows/Avalanches: Process, Recognition, and Mitigation: Geological Society of America Reviews in Engineering Geology*, Vol. VII, pp. 165-179.
- Richardson, E.V., Harrison, L.J., Richardson, J.R., and Davis, S.R., 1993, Evaluating scour at bridges (2nd edition): U.S. Department of Transportation Hydraulic Engineering Circular 18, 132p.
- Richter, Charles. F., 1958, *Elementary Seismology*, W. H., Freeman, San Francisco.
- Rico, H., Hauksson, E., Given, D., Friberg, P., and Frechette, K., 2004, The CISEN Display – Reliable delivery of real-time earthquake information and Shakemap to Critical End-users: Abstract, Seismological Society of America Meeting, April 14-16, Palm Springs, California.
- Rivero, C., Shaw, J.H., and Mueller, 2000, Oceanside and Thirtymile Bank blind thrusts: Implications for earthquake hazards in coastal southern California, *Geology*, Vol. 28, No. 10, pp. 891-894.
- Rivero, C., and Shaw, J.H., 2011, Active folding and blind thrust faulting induced by basin inversion processes, inner California Borderlands; *in* McClay, K., Shaw, J.H., and Supper, J., (editors), *Thrust Fault-Related Folding: American Association of Petroleum Geologists Memoir*, Vol. 94, pp. 187-214.
- Rockwell, T.K., 1989, Behavior of individual fault segments along the Elsinore-Laguna Salada fault zone, southern California and northern Baja California: Implications for the characteristic earthquake model; *in* Schwartz, D.P., and Sibson, R.H., (editors), *Fault Segmentation and Controls of Rupture Initiation and Termination: U.S. Geological Survey Open-File Report OF 89-315*, pp. 288-308.
- Rockwell, T.K. and Brake, J.F., 1987, Magnitude of slip from historical and prehistorical earthquakes on the Elsinore fault, Glen Ivy Marsh, southern California (abstract): *Geological Society of America Abstracts with Programs*, Vol. 19, No. 6.
- Rockwell, T.K., McElwain, R.S., Millman, D.E., and Lamar, D.L., 1986, Recurrent late Holocene faulting on the Glen Ivy north strand of the Elsinore fault at Glen Ivy Marsh; *in* *Neotectonics and Faulting in Southern California, Volume and Guidebook*, Geological Society of America Cordilleran Section, pp. 167-175.
- Rogers, A. M., Tinsely, J. C., and Borchardt, R. D., 1985, Predicting relative ground response; *in* Ziony, J.I., (editor), *Evaluating Earthquake Hazards in the Los Angeles Region, An Earth Science Perspective: U.S. Geological Survey, Professional Paper 1360*, pp. 221-248.

- Roth R., Holtom, R., and Sai-on S., 1986, California Earthquake Zoning and Probable Maximum Loss Evaluation Program, California Administrative Code Title 10, Chapter 5, Subchapter 3, Section 2307: California Department of Insurance, Los Angeles, California, 44p.
- Rubin, C., and Sieh, K., 1992, Active Crustal Shortening Along the Southern Flank of the Central Transverse Ranges, California: Southern California Earthquake Center 1992 Report, Prepared for the SCEC Annual Meeting, October 6-8, 1992, Los Angeles, California.
- Rubin, C.M., Lindvall, S., and Rockwell, T., 1998, Paleoseismic evidence for large slip earthquakes along the Sierra Madre fault in the greater Los Angeles region: *Science*, Vol. 281, pp. 398-402.
- Ruggiero, P., Komar, P.D., and Allan, J.C., 2010, Increasing wave heights and extreme value projections: The wave climate of the U.S. Pacific Northwest: *Coastal Engineering*, Vol. 57, pp. 539-552.
- Russell, N., and Griggs, G., 2012, Adapting to Sea Level Rise: A Guide for California's Coastal Communities: A study for the California Energy Commission, Public Interest Environmental Research Program, 49p.
- Rymer, M.J., Fumal, T.E., Schwartz, D.P., Powers, T.J., and Cinti, F.R., 1995, Distribution and Recurrence of Surface Fractures in Potrero Canyon Associated with the 1994 Northridge, California, Earthquake; *in* Woods, M.C., and Seiple, W.R., (editors), The Northridge, California, Earthquake of 17 January 1994: California Division of Mines and Geology Special Publication 116, pp. 133-146.
- Salsman, G. S., 1959, The Tsunami of March 9, 1957 as Recorded at Tide Stations: United States Coast and Geodetic Survey, Technical Bulletin No. 6.
- Savage, W.U., 1995, Utility lifelines performance in the Northridge earthquake; *in* Woods, M.C., and Seiple, W.R., (editors), The Northridge Earthquake of 17 January 1994: California Division of Mines and Geology Special Publication 116, pp. 153-162.
- Scawthorn, C., 1987, Fire Following Earthquake, Estimates of the Conflagration Risk to Insured, Property in Greater Los Angeles and San Francisco: All Industry Research Advisory Council, Oak Brook, Illinois, 83p.
- Scawthorn, C.R., 2008, Fire Following Earthquake: Supplemental Study to the ShakeOut Scenario: U.S. Geological Survey Open File Report 2008-1150, 33p.
- Schuster, R.L. and Highland, L.M., 2001, Socioeconomic and environmental impacts of landslides in the Western Hemisphere: U.S. Geological Survey Open-File Report 2001-276.
- Seed, R.B., Cetin, K.O., Moss, R.E.S., Kammerer, A.M., Wu, J., Pestana, J.M., Rimer, M.F., Sancio, R.B., Bray, J.D., Kayen, R.E., and Faris, A., 2003, Recent advances in soil liquefaction engineering: A unified and consistent framework: Earthquake Engineering Research Center, College of Engineering, University of California, Berkeley, EERC Report No. 2003-06, 71p.
- Seismic Hazards Mapping Act, California Public Resources Code, Section 2690 et seq., last updated May 13, 2003.

- Seligson, Hope, 2008, HAZUS Enhancements and Implementation for the ShakeOut Scenario: Supplemental Study for the ShakeOut Scenario, Report prepared for the U.S. Geological Survey and the California Geological Survey, to accompany U.S. Geological Survey Open File Report 2008-1150, California Geological Survey Preliminary Report 25 version 1.0, and U.S. Geological Survey Circular 1324, California Geological Survey Special Report 207 version 1.0.
- Seymour, R.J., 2011, Evidence for changes to the Northeast Pacific wave climate: *Journal of Coastal Research*, Vol. 27, pp. 194-201.
- Sharpe, R., 1982, An Investigation of the Correlation between Earthquake Ground Motion and Building Performance: Applied Technology Council, U.S. Contract Survey, No. 14-08-0001-19892, 113p.
- Shaw, J.H. and Suppe, J., 1994, Active faulting and growth folding in the eastern Santa Barbara Channel, California: *Geological Society of America Bulletin*, Vol. 106, pp. 607-626.
- Shaw, J. H., and Suppe, J., 1996, Earthquake hazards of active blind-thrust faults under the central Los Angeles basin, California: *Journal of Geophysical Research*, Vol. 101, pp. 8623-8642.
- Shaw, J.H., and Shearer, P., 1999, An elusive blind-thrust fault beneath metropolitan Los Angeles: *Science*, Vol. 283, pp. 1516-1518.
- Shaw, J.H., Plesch, A., Dolan, J.F., Pratt, T.L., and Fiore, P., 2002, Puente Hills blind thrust system, Los Angeles, California: *Bulletin of the Seismological Society of America*, Vol. 92, No. 8, pp. 2,946-2,960.
- Shlemon, R.J., Elliot, P., and Franzen, S., 1995, Holocene displacement history of the Newport-Inglewood, North Branch fault splays, Santa Ana River floodplain, Huntington Beach, California: The Geological Society of America 1995 Annual Meeting, Abstracts with Programs, New Orleans, Louisiana.
- Shoaf, K., 2008, Chapter 6. Casualties; *in* Jones, L.M., Bernknopf, R., Cox, D., Goltz, J., Hudnut, K., Mileti, D., Perry, S., Ponti, D., Porter, K., Reichle, M., Seligson, H., Shoaf, K., Treiman, J., and Wein, A., 2008, The ShakeOut Scenario: U.S. Geological Survey Open File Report 2008-1150 and California Geological Survey Preliminary Report 25, Version 1.0, pp. 200-208.
- Shum, C. and Kuo, C., 2011, Observation and geophysical causes of present-day sea level rise; *in* Lai, R., Sivakumar, M., Faiz, S., Rahman, A., and Islam, K., (editors), *Climate Change and Food Security in South Asia*, Part 2, Chapter 7, pp. 85-104.
- Sieh, K. and Williams, P., 1990, Behavior of the southernmost San Andreas fault during the past 300 years: *Journal of Geophysical Research*, Vol. 95, pp. 6629-6645.
- Sieh, K. L., Jones, L., Hauksson, E., Hudnut, K., Eberhart-Phillips, D., Heaton, T., Hough, S., Hutton, K., Kanamori, H., Lilje, A., Lindvall, S., McGill, S., Mori, J., Rubin, C., Spotila, J., Stock, J., Thio, H. K., Treiman, J., Wernicke, B., Zachariasen, J., 1993, Near field investigations of the Landers earthquake sequence, April to July, 1992: *Science*, Vol. 260, pp. 171-176.
- Soloviev, S.L., and Go, C.N., 1975, A catalogue of Tsunamis of the Eastern Shore of the Pacific Ocean: Academy of Sciences of the USSR, Nauka Publishing House, Moscow, 204p.

- Southern California Earthquake Center (SCEC), 1999, Recommended procedures for implementation of DMG SPI 17 Guidelines for Evaluating and Mitigating Seismic Hazards in California – Liquefaction Hazards in California: Martin, G.R., and Lew, M. (editors), 63p.
- Southern California Earthquake Center (SCEC), 2001, Southern California Faults and Earthquakes, available from www.scecdc.scec.org.
- Southern California Earthquake Center (SCEC), 2002, Recommended Procedures for Implementation of DMG Special Publication 117, Guidelines for Analyzing and Mitigating Landslide Hazards in California; by Blake, T.F., Hollingsworth, R.A., and Stewart, J.P., editors, 110p. + Appendix.
- Spaeth M.G. and S.C. Berkman, 1972, Tsunami of March 28, 1968 as Recorded at Tide Stations at the Seismic Sea Wave Warning System; *in* The Great Alaska Earthquake of 1964: Oceanography and Coastal Engineering, National Academy of Sciences, pp. 38-110.
- Spangle, W. E., 1988, Putting Seismic Safety Policies to Work: Prepared for the Bay Area Regional Earthquake Preparedness Project, 39p.
- Spittler, T.E., Harp, E.L., Keefer, D.K., Wilson, R.C., and Sydnor, R.H., 1990, Landslide features and other coseismic fissures triggered by the Loma Prieta earthquake, Santa Cruz Mountains, California; *in* McNutt, S.R., and Sydnor, R.H., (editors.), The Loma Prieta (Santa Cruz Mountains), California, Earthquake of 17 October 1989: California Division of Mines and Geology Special Publication 104, pp. 59-66.
- State of California, Office of Planning and Research (OPR), 1987, General Plan Guidelines.
- State of California, SSC-01, Seismic Safety Commission, 1988, Steps to Earthquake Safety for Local Governments, Report No. SSC 88-01.
- State of California, SSC-03, Seismic Safety Commission, 1987-03, Guidebook to Identify and Mitigate Seismic Hazards in Building, Report No. SSC 87-03.
- Stephenson, W.J., Rockwell, T.K., Odum, J.K., Shedlock, K.M., and Okaya, D.A., 1995, Seismic reflection and geomorphic characterization of the onshore Palos Verdes fault zone, Los Angeles, California: *Seismological Society of America Bulletin*, Vol. 85, No. 3, pp. 943-950.
- Stermitz, F., 1964, Effects of the Hebgen Lake Earthquake on Surface Water: U.S. Geological Survey Professional Paper 435, pp. 139-150.
- Stewart, J.P., Bray, J.D., Seed, R.B., and Sitar, N. (editors), 1994, Preliminary report on the principal geotechnical aspects of the January 17, 1994 Northridge earthquake: University of California at Berkeley, College of Engineering Report No. UCB/EERC 94-08, 245p.
- Stewart, J.P., Bray, J.D., McMahon, D.J., and Kropp, A.L., 1995, Seismic performance of hillside fills: Reprint from Landslides Under Static and Dynamic Conditions-Analysis, Monitoring, and Mitigation: Geotechnical Engineering Division/ASCE, held October 23-27, 1995, San Diego.
- Stratton, R. D., 2006, Guidance on Spatial Wildland Fire Analysis: Models, Tools, and Techniques: General Technical Report RMRS-GTR-183, U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station, Ft. Collins, Colorado, 15p.

- Sudduth, C., 1985, Evaluating earthquake ground failure potential for development decisions, summary of Working Group V and audience discussion; *in* Future Directions in Evaluating Earthquake Hazards in Los Angeles Region, An Earth-Science Perspective: U.S. Geological Survey, Professional Paper 1360, 320p.
- Synolakis C.E., 1987, The runup of solitary waves: *Journal of Fluid Mechanics*, Vol. 185, pp. 523-545.
- Synolakis, C.E., Borrero, J., and Eisner, R., 2002, Developing Inundation Maps for Southern California; *in* Ewing, L. and Wallendorf, L., (editors), Solutions to Coastal Disasters '02: Conference Proceedings of the meeting held in San Diego, California on February 24-27, 2002: American Society of Civil Engineers, Reston, Virginia, pp. 848-862.
- Synolakis, C.E., Liu, P.L., Yeh, H., and Carrier, G., 1997, Tsunamigenic seafloor deformations: *Science*, Vol. 278, pp. 598-600.
- Synolakis, Costas Emmanuel, 2002, Professor of Civil Engineering, University of Southern California, Los Angeles, California, and Director of the University of Southern California Tsunami Research Group, personal communication via telephone and e-mail regarding tsunami inundation maps for Orange County and Newport Beach.
- Talley, C.H., Jr. and W. K. Cloud, (editors), 1962, United States Earthquakes, 1960: United States Coast and Geodetic Survey.
- Tan, S.S. and Edgington, W.J., 1976, Geology and engineering geologic aspects of the Laguna Beach quadrangle, Orange County, California: California Division of Mines and Geology Special Report 127.
- Tan, S.S., 1998, Slope failure and erosion assessment of the fire areas at Fillmore (April 1996) and Piru (August 1997), Ventura County, California: California Division of Mines and Geology Open-File Report 98-32.
- Taylor, W.L., and Taylor, R.W., 2007, The Great California Flood of 1862: The Fortnightly Club of Redlands, California.
- Teggart, F. J., 1911, The Portola expedition of 1769-1770, Diary of Miguel Costanso: Publication of the Academy of Pacific Coast History, Vol. 2, No. 4.
- The Irvine Company, 1988, The Irvine Coast Master Coastal Development Permit (CDP); report dated January 8, 1988.
- Tierney, K.J., 1994, Emergency Preparedness and Response; *in* Practical Lessons from the Loma Prieta Earthquake: National Academy Press, Washington DC, pp. 105-128.
- Tierney, K.J., 1995, Social aspects of the Northridge earthquake; *in* Woods, M.C., and Seiple, W.R., (editors), The Northridge, California, Earthquake of 17 January 1994: California Department of Conservation, Special Publication 116, pp. 255-262.
- Tinsley, J.C., and Fumal, T.E., 1985, Mapping quaternary sedimentary deposits for aerial variations in shaking response; *in* Ziony, J.I., (editor), Evaluating Earthquake Hazards in the Los Angeles

- Region – An Earth Science Perspective: U.S. Geological Survey Professional Paper 1360, pp. 101-125.
- Tinsley, J.C., Youd, T.L., Perkins, D.M., and Chen, A.T.F., 1985, Evaluating liquefaction potential *in* Ziony, J.I., (editor), Evaluating Earthquake Hazards in the Los Angeles Region – An Earth Science Perspective: U.S. Geological Survey Professional Paper 1360, pp. 263-316.
- Titov, V.V., and Gonzalez, F.I., 1997, Implementation and testing of the Method of Splitting Tsunami (MOST) model: NOAA Technical Memorandum ERL PMEL-112, 11p.
- Titov, V.V. and Synolakis, C.E., 1998, Numerical modeling of tidal wave runup: *Journal of Waterways, Port, Coastal and Ocean Engineering*, ASCE, Vol. 124, No. 4, pp. 157-171.
- Titus, J.G., 1990, Greenhouse Effect, Sea Level Rise, and Barrier Islands: Case Study of Long Beach Island, New Jersey: *Coastal Management*, Vol. 18, pp. 65-90.
- Titus, J.G., Park, R.A., Leatherman, S.P., Weggel, J.R., Greene, M.S., Mausel, P.W., Brown, S., Gaunt, C., Trehan, M. and Yohe, G., 1991, Greenhouse Effect and Sea Level Rise: The Cost of Holding Back the Sea: *Coastal Management*, Vol. 19, pp. 171-210.
- Topozada, T.R., and others, 1988, Planning Scenario for a Major Earthquake on the Newport-Inglewood Fault (Los Angeles and Orange Counties): California Division of Mines and Geology Special Publication No. 99.
- Topozada, T.R. and Parke, D.L., 1982, Areas damaged by earthquakes, 1900-1949: California Division of Mines and Geology, Open-File Report, pp. 82-17.
- Topozada, T.R., Real, C.R., and D.L. Parke, 1981, Preparation of Isoseismal Maps and Summaries of Reported Effects for Pre-1900 California Earthquakes: California Division of Mines and Geology Open File Report 81-11 SAC.
- Townley, S.D., 1939, Earthquakes in California, 1769 to 1928: *Bulletin of the Seismological Society of America*, Vol. 29, No. 1, pp. 21-252.
- Trask, J.B., 1856, Untitled paper on earthquakes in California from 1812 to 1855: Proceedings of the California Academy of Natural Science, San Francisco, Vol. 1, No. 2.
- Treiman, J.A., 1995, Surface faulting near Santa Clarita; *in* Woods, M.C., and Seiple, W.R., (editors), The Northridge, California, Earthquake of 17 January 1994: California Division of Mines and Geology Special Publication 116, pp. 103-110.
- Treiman, Jerome A., 2002a, Chino Fault, Riverside and San Bernardino Counties, California: California Geological Survey Fault Evaluation Report FER-247, 31p. + plates.
- Treiman, Jerome A., 2002b, Tin Mine, Main Street, Eagle and Glen Ivy (North and South) Fault Strands of the Elsinore Fault Zone, Riverside County, California: California Geological Survey Fault Evaluation Report FER-248, 15p. + plates.
- Troxell, H. C., et al., 1942, Floods of March 1938 in Southern California: U.S. Geological Survey Water Supply Paper 844.

- Tsutsumi, H., and Yeats, R.S., 1999, Tectonic Setting of the 1971 Sylmar and 1994 Northridge earthquakes in the San Fernando Valley, California: *Bulletin of the Seismological Society of America*, Vol. 89, pp. 1232-1249.
- Tsutsumi, H., Yeats, R.S., and Huftile, G. H., 2001, Late Cenozoic tectonics of the northern Los Angeles fault system, California: *Geological Society of America*, Vol. 113, No. 4, pp. 454-468.
- Tucker, A.Z., and Dolan, J.F., 2001, Paleoseismologic evidence for a >8 ka age of the most recent surface rupture on the eastern Sierra Madre fault, northern Los Angeles metropolitan region, California: *Bulletin of the Seismological Society of America*, Vol. 91, pp. 232-249.
- Unreinforced Masonry Law, California Public Resources Code, Chapter 12.2 Building Earthquake Safety, Section 8875 et seq.
- U.S. Army Corps of Engineers, 1985, Prado Dam Emergency Plan Inundation Map.
- U.S. Army Corps of Engineers, Los Angeles District, February 1986, Coast of California Storm and Tidal Waves Study: Southern California Coastal Processes Data Summary, Ref. No. CCSTWS 86-1, 572p.
- U.S. Army Corps of Engineers, Los Angeles District, November 1993, Condition Survey for Entrance Jetties, Newport Bay Harbor, Orange County, California.
- U.S. Army Corps of Engineers, South Pacific Division, Los Angeles District, May 1995, Surfside-Sunset/West Newport Beach Nourishment Project, Orange County, California.
- U.S. Geological Survey, 1935, Newport Beach quadrangle (topographic map), Scale 1:31,680.
- U.S. Geological Survey, 1948, Tustin, California quadrangle, 7.5 Minute Series (topographic map), Scale 1:24,000.
- U.S. Geological Survey, 1949, Newport Beach, California, quadrangle, 7.5 X 10 Minute Series (topographic map), Scale 1:24,000.
- U.S. Geological Survey, 1965 (Photorevised 1981), Laguna Beach, California, quadrangle, 7.5 Minute Series (topographic map), Scale 1:24,000.
- U.S. Geological Survey, 1965 (Photorevised 1981), Newport Beach, California, quadrangle, 7.5 Minute Series (topographic map), Scale 1:24,000.
- U.S. Geological Survey, 1965 (Photorevised 1981), Tustin, California quadrangle, 7.5 Minute Series (topographic map), Scale 1:24,000.
- U.S. Geological Survey, 1986, Earthquake Hazards in Southern California: Proceedings of XXXII Conference: U.S. Geological Survey Open File Report 86-401, pp. 158-172.
- U.S. Geological Survey, 1997, National Hazard Maps for California / Nevada: U.S. Geological Survey Open-File Report 97-130; (for additional information refer to <http://geohazards.cr.usgs.gov/eq/html/canvmap.html>).

- U.S. Geological Survey, 2000, Landslide hazards, USGS Fact Sheet FS-071-00, available at <http://greenwood.cr.usgs.gov/pub/fact-sheets.fs-071-00>.
- U.S. Geological Survey (USGS), 2001, <http://landslides.usgs.gov/index.html>
- U.S. Geological Survey, 2002, Fact Sheet 175-99.
- URS, 2001, Report of Findings, Seismic Analysis Program, Big Canyon Reservoir Newport Beach, California; report prepared for the City of Newport Beach Public Works Department – Utilities, dated July 2001.
- URS, 2006 (pre-draft Report), Orange County Regional Water and Wastewater Multi-Hazard Mitigation Plan, Orange County, California: Excerpts of report (dated September 29, 2005) prepared for the Municipal Water District of Orange County were provided to ECI by the City of Newport Beach as part of the DMP process.
- Vaughan, P. and Rockwell T.K., 1986, Alluvial stratigraphy and neotectonics of the Elsinore fault zone at Agua Tibia Mountain, Southern California: 82nd Annual Meeting of the Cordilleran Section of the Geological Society of America Field Trip Guidebook, Los Angeles, California, pp. 177-191.
- Vaughan P.R., Thorup, K.M. and Rockwell, T.K., 1999, Paleoseismology of the Elsinore fault at Agua Tibia Mountain, southern California: *Bulletin of the Seismological Society of America*, Vol. 89, No. 6, pp. 1447-1457.
- Vedder, J.G., 1975, Revised Geologic map, structure sections and well table, San Joaquin Hills-San Juan Capistrano area, California: U.S. Geological Survey Open-File Report 75-552.
- Vedder, J.G., Yerkes, R.F., and Schoelhamer, J.E., 1957, Geologic map of the San Joaquin Hill-San Juan Capistrano area, Orange County, California: U.S. Geological Survey Oil and Gas Investigations Map OM-193, scale 1:24,000.
- Waananen, A.O., 1969, Floods of January and February 1969 in Central and Southern California: U.S. Geological Survey Open File Report, 233p.
- 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, the Professional Journal of the Earthquake Engineering Research Institute (EERI), Vol. 15, No. 3, pp. 557-564.
- Walker, J.R., Nathan, R.A., and Seymour, R.J., 1984, Coastal Design Criteria in Southern California: Abstracts, 19th International Conference of Coastal Engineering, Sept. 3-7, 1984, in Houston, Texas, published by the American Society of Civil Engineers, pp. 186-187.
- Walls, C., Rockwell, T., Mueller, K., Bock, Y., Williams, S., Pfanner, J., and Fang, P., 1998, Escape tectonics in the Los Angeles metropolitan region and implications for seismic risk: *Nature*, Vol. 394, pp. 356-360.
- Walls, C., and Gath, E.M., 2001, Tectonic geomorphology and Holocene surface rupture on the Chino fault: Southern California Earthquake Center Annual Meeting, Proceedings and Abstracts, p.

- I 18, reprinted in Treiman, 2002a.
- Ward, S.N., and Valensise, G., 1994, The Palos Verdes terraces, California: Bathtub rings from a buried reverse fault: *Journal of Geophysical Research*, Vol. 99, pp. 4485-4494.
- Weber, F.H., 1980, Landsliding and Flooding in Southern California During the Winter of 1979-1980 (Principally February 13-21, 1980), California Division of Mines and Geology Open-File Report 80-3 LA, 69p.
- Weber, F.H., Treiman, J.A., Tan, S.S., and Miller, R.V., 1979, Landslides in the Los Angeles Region, California: Effects of the February-March 1978 Rains, California Division of Mines and Geology Open-File Report 79-4, 277p., 1 plate.
- Wells, D.L. and Coppersmith, K., 1994, New empirical relationships among magnitude, rupture length, rupture width, rupture area, and surface displacement: *Bulletin of the Seismological Society of America*, Vol. 84, pp. 974-1002.
- Wells, W.G., 1987, The Effects of Fire on the Generation of Debris Flows in Southern California; *in* Costa, J.E. and Wieczorek, G.F. (editors), Debris Flows/Avalanches: Process, Recognition, and Mitigation: *Geological Society of America Reviews in Engineering Geology*, Vol. VII, pp. 105-114.
- Wesnousky, S.G., 1986, Earthquakes, Quaternary faults, and seismic hazard in California: *Journal of Geophysical Research*, Vol. 91, No. B12, pp. 12,587-12,631.
- Wilcoxon, P.J. 1986, Coastal Erosion and Sea Level Rise: Implications for Ocean Beach and San Francisco's Westside Transport Project: *Coastal Zone Management*, Vol. 14, No. 3, pp. 173-191.
- Wilson, R.C., 1997, Operation of a Landslide Warning System During the California Storm Sequence of January and February 1993; *in* Larson, R.A., and Slosson, J.E. (editors), Storm-Induced Geologic Hazards: Case Histories from the 1992-1993 Winter in Southern California and Arizona: *Geological Society of America Reviews in Engineering Geology*, Vol. XI, pp. 61-70.
- Wilson, R.C., and Keefer, D.K., 1985, Predicting Areal Limits of Earthquake Induced Landsliding: *in* Ziony, J.I., (editor), Evaluating Earthquake Hazards in the Los Angeles Region, An Earth Science Perspective: U.S. Geological Survey Professional Paper 1360, pp. 317-347.
- Wilson, R.I., Barberopoulou, A., Miller, K.M., Goltz, J.D., and Synolakis, C.E., 2008, New maximum tsunami inundation maps for use by local emergency planners in the State of California, USA: EOS Transactions of the American Geophysical Union, Vol. 89, No. 53, Fall Meeting Supplement, Abstract OS43D-1343.
- Wilson, R.I, Ewing, L., Dengler, L., Boldt, E., Evans, T., Miller, K., Nicolini, T., and Ritchie, A., 2011, Effects of the February 27, 2010 Chilean Tsunami on the Harbors, Ports and Maritime Community in California, with Comparisons to Preliminary Evaluation of March 11, 2011 Tsunami: California Geological Survey poster available from the California Geological Survey website.
- Wolfe, M. R., Bolton, P. A., Heikkala, Greene, M.M., May, P. J., 1986, Land-Use Planning for Earthquake Hazard Mitigation: A Handbook for Planners: Natural Hazards Research and Applications Information Center, Special Publication 14, 122p.

- Wood, H.O., 1916, California Earthquakes—A Synthetic Study of Recorded Shocks: *Bulletin of the Seismological Society of America*, Vol. 6, No. 2.
- Wood, H.O., 1933, Preliminary Report on the Long Beach earthquake of March 10, 1933: *Bulletin of the Seismological Society of America*, Vol. 23, No. 2, pp. 43-56.
- Woodward-Clyde Consultants, 1979, Report of the evaluation of maximum earthquake and site ground motion parameters associated with the offshore zone of deformation, San Onofre Nuclear Generation Station: Santa Ana, California, unpublished consulting report prepared for Southern California Edison, WCC Project No. 41101.
- Working Group on California Earthquake Probabilities (SCEC), 1995, Seismic hazards in Southern California: Probable earthquakes, 1994 to 2024: *Bulletin of the Seismological Society of America*, Vol. 85, No. 2, pp. 379-493.
- Wright, T.L., 1991, Structural geology and tectonic evolution of the Los Angeles basin, California; *in* Biddle, K. (editor), Active Margin Basins, American Association of Petroleum Geologists Memoir 52, pp. 35-134.
- Wyllie, D.C., and Norrish, N.I., 1996, Stabilization of rock slopes; *in* Turner, A.K., and Schuster, R.L. (editors), Landslides – investigation and mitigation: Transportation Research Board Special Publication 247, pp. 474-504.
- Yeats, R.S., and Verdugo, D., 2010, Subsurface Evidence for the Puente Hills and Compton-Los Alamitos Faults in South-Central Los Angeles: Southern California Earthquake Center 2010 Annual Report, Project No. 10066.
- Youd, T. L., 1978, Major cause of earthquake damage is ground failure: *Civil Engineering*, Vol. 48, No. 4, pp. 47-51.
- Youd, L. T., 1986, Geologic effects-liquefaction and associated ground failure: Proceedings of the 1986 Annual Conference Western Seismic Policy Council, pp. 8-30.
- Youd, T.L., Hansen, C.M., and Bartlett, S.F., 1999, Revised MLR Equations for Predicting Lateral Spread Displacement; *in* O’Rourke, Thomas D., Bardet, J.P., and Hamada, M., (editors), Proceedings of the Seventh U.S. – Japan Workshop on Earthquake Resistant Design of Lifeline Facilities and Countermeasures Against Soil Liquefaction: Multidisciplinary Center for Earthquake Engineering Research, SUNY, Buffalo, MCEER Report 99-0019, pp. 99-114.
- Youd, T.L., Idriss, I.M. Andrus, R.D. Arango, I., Castro, G., Christian, J.T., Dobry, R., Liam Finn, W.D.L., Harder, L.F., Jr., Hynes, M.E., Ishihara, K., Koester, J.P., Liao, S.S.C., Marcuson, W.F., III, Martin, G.R., Mitchell, J.K., Moriwaki, Y., Power, M.S., Robertson, P.K., Seed, R.B., Stokoe, K.H., II, 2001, Liquefaction resistance of soils: Summary Report from the 1996 NCEER and 1998 NCEER/NSF Workshops on Evaluation of Liquefaction Resistance of Soils: *ASCE Journal of Geotechnical and Geoenvironmental Engineering*, Vol. 127, No. 10, pp. 817-833.
- Youd, T. L., and Keefer, D. K., 1981, Earthquake-induced ground failures; *in* Hays, W. W., (editor), Facing Geologic and Hydrologic Hazards: U. S. Geologic Survey Professional Paper 1240-B, pp. 23-31.

- Youd, T.L., and Perkins, D.M., 1978, Mapping liquefaction-induced ground failure potential: Proceedings of the American Society of Civil Engineers, Journal of the Geotechnical Engineering Division, Vol. 104, No. GT4, pp. 433-446.
- Zappe, D.P., 1997, Statement of the Riverside County Flood Control and Water Conservation District Regarding Impacts of the Endangered Species Act on Flood Control Activities; Witness Testimony made at the Resources Committee of the House of Representatives on April 10, 1997. The text of his statement is available from <http://resourcescommittee.house.gov/105cong/fullcomm/apr10.97/zappe.htm>
- Zervas, Chris, to be published, Sea Level Variations of the United States, 1854-1999: Technical Report, National Oceanic and Atmospheric Administration (as referenced in Knuuti, 2002).
- Zhu, Y., and Newell, R.E., 1998, A proposed algorithm for moisture fluxes from atmospheric rivers: Monthly Weather Review, Vol. 126, No. 3, pp. 725–735, doi:10.1175/1520-0493(1998)126<0725:APAFMF>2.0.CO;2.
- Ziony, J.I., and Yerkes, R.F., 1985, Evaluating earthquake and surface-faulting potential; *in* Ziony, J.I. (editor), Evaluating Earthquake Hazards in the Los Angeles Region – An Earth-Science Perspective: U.S Geological Survey Professional Paper 1360, pp. 33-91.

Helpful Websites:

General

<http://www.consrv.ca.gov/cgs/>
California Geological Survey

<http://www.cpuc.ca.gov>
California Public Utilities Commission

<http://www.fire.ca.gov>
California Department of Forestry & Fire Protection

<http://www.oes.ca.gov>
California Office of Emergency Services

<http://www.fire.ca.gov>
California Department of Forestry & Fire Protection

<http://www.bsc.ca.gov>
Site of the California Building Standards Commission. Provides information regarding the status of the building codes being considered for future approval in California.

<http://www.gps.caltech.edu>
California Institute of Technology, GPS Division

<http://www.oes.ca.gov>
California Office of Emergency Services

<http://www.seismic.ca.gov>
California Seismic Safety Commission

<http://www.sce.com>
Southern California Edison

<http://www.data.scec.org>
Southern California Earthquake Center

<http://www.nifc.gov>
National Interagency Fire Center

<http://www.census.gov>
U.S. Census Bureau

<http://www.eqe.com>
Risk Management - ABS Consulting

<http://www.fema.gov>
FEMA

<http://www.fema.gov/hazus>
FEMA's HAZUS website

<http://www.usgs.gov>
U.S. Geological Survey

Geologic Hazards in General

<http://geohazards.cr.usgs.gov/>
USGS Hazard Team website. Hazard information on commonly recognized hazards such as earthquakes, landslides, and volcanoes. Contains maps and slide shows.

<http://www.usgs.gov/themes/hazard.html>
A webpage by the USGS on hazards such as hurricanes, floods, wildland fire, wildlife disease, coastal storms and tsunamis, and earthquakes. Also has information on their Hazard Reduction Program.

<http://vulcan.wr.usgs.gov/Glossary/Sediment/framework.html>
A webpage by the USGS on sedimentation and transport processes, with examples from the Mount St. Helens explosion.

<http://www.consrv.ca.gov/cgs/index.htm>
Homepage for the California Geologic Survey (formerly the Division of Mines and Geology). Information on their publications (geologic reports and maps), programs (seismic hazard mapping, Alquist-Priolo Earthquake Fault Study Zone maps); and other

brochures (asbestos, natural hazard disclosure). For California Geological Survey Notes – informational brochures covering a variety of subjects refer to http://www.consrv.ca.gov/cgs/information/publications/cgs_notes/index.htm

www.oes.ca.gov/

California Governor's Office of Emergency Services website. Contains information on response plans regarding natural disasters (earthquakes), terrorist attacks, and electrical outages, and information on past emergencies.

Geologic Maps

<http://wrgis.wr.usgs.gov/wgmt/scamp/scamp.html>

Homepage for the Southern California Aerial Mapping Project (SCAMP), which is the USGS' program to update geologic maps of Southern California at a 1:100,000 scale and release these in a digital GIS format.

Seismic Hazards, Faults, and Earthquakes

<http://gmw.consrv.ca.gov/shmp/>

Shows the current list of seismic hazard maps available from the California Geologic Survey. These can be downloaded in Adobe Acrobat (pdf) format.

www.scecdc.scec.org

Southern California Earthquake data center (hosted by SCEC, USGS, and Caltech). Shows maps and data for recent earthquakes in Southern California and worldwide. Catalogs of historic earthquakes.

<http://www.consrv.ca.gov/cgs/rghm/quakes/index.htm>

List of California earthquakes (date, magnitude, latitude longitude, description of damage).

<http://geohazards.cr.usgs.gov/eq/html/canvmap.html>

Website at the USGS Earthquake Hazard's Program that lists seismic acceleration maps available for downloading.

www.seismic.ca.gov/

Homepage of the California Seismic Safety Commission. Contains information on California earthquake legislation, safety plans, and programs designed to reduce the hazards from earthquakes. Includes several publications of interest, including "The Homeowner's Guide to Earthquake Safety." Also contains a catalog of recent California earthquakes.

<http://neic.usgs.gov/>

Homepage of the National Earthquake Information Center. Maintains an extensive global seismic database on earthquake parameters. Its mission is to rapidly determine the location and size of all destructive earthquakes worldwide, and disseminate that information as quickly as possible to concerned national and international agencies, scientists, and the public in general.

<http://www.scsn.org/>

Site where Shakemaps for actual and scenario earthquakes can be obtained.

Flooding, Dam Inundation, and Erosion (Note: the information on some of these websites has been removed due to safety concerns; but may be posted again in the future in limited form).

<http://www.usace.army.mil/public.html#Regulatory>

US Army Corps of Engineers website regarding waterway regulations.

<http://www.fema.gov/fima/>

FEMA website about the National Flood Insurance Program.

<http://www.worldclimate.com/>

Precipitation rates at different rain stations in the world measured over time.

<http://waterdata.usgs.gov>

Stream gage measurements for rivers throughout the US.

<http://www.usatoday.com/weather/whhcalif.htm>

Article on historical storms that have impacted the southern California area

http://ceres.ca.gov/planning/nhd/dam_inundation.html

Coastal Flooding

<http://www.prh.noaa.gov/pr/ptwc/bulletins.htm>

Pacific Tsunami Warning Center National Weather Service

<http://www.usc.edu/dept/tsunamis/>

USC Tsunami Research Group

<http://www.pmel.noaa.gov/tsunami-hazard/>

The National Tsunami Hazard Mitigation Program

<http://hurricanes.noaa.gov>

The National Oceanic and Atmospheric Administration web page on hurricanes and other coastal processes.

Fire Hazards, Wildfires and Related Topics

<http://www.ocfa.org/>

Orange County Fire Authority's website.

<http://osfm.fire.ca.gov/FFLaws.html>

Site that pertains to California laws about fires and firefighters.

<http://www.fire.ca.gov/>

California Department of Forestry and Fire Protection's website.

<http://www.fire.ca.gov/FireEmergencyResponse/FirePlan/FirePlan.asp>

California Fire Plan

<http://www.fireplan.gov>

National Fire Plan

<http://nfpa.org/>

National Fire Protection Association website

<http://firewise.org/>

Site dedicated to providing information to homeowners about becoming firewise in the urban/wildland interface.

<http://www.fema.gov/>

Federal Emergency Management Agency website; includes general information on how to prepare for wildfire season, current fire events, etc.

<http://www.usfa.fema.gov/>

U.S. Fire Administration Website.

<http://www.iso.com>

Insurance Services Office Website.

Landslides and Debris Flows

<http://landslides.usgs.gov/index.html>

USGS Landslide webpage. Links to their publications, recent landslide events, and bibliographic databases.

<http://gmw.consrv.ca.gov/shmp/>

California Geologic Survey website on Seismic Hazard maps.

<http://vulcan.wr.usgs.gov/Glossary/Lahars/framework.html>

USGS Volcanic Observatory webpage, with links regarding mudflows, debris flows and lahars.

<http://www.fema.gov/hazards/landslides/landslif.shtm>

Federal Emergency Management Agency (FEMA) fact sheet webpage about landslides and mudflows.

Others

<http://www.oes.ca.gov/>

California Office of Emergency Services

<http://www.noaa.gov/>

National Oceanic and Atmospheric Administration website. Provides information on weather updates, hurricanes, tornadoes, and severe weather events, drought, etc.

<http://www.tornadoproject.com>

The Tornado Project website. List of tornadoes spawned by hurricanes and tropical storms. Last updated in 2000, but provides a good list of historical events.

<http://www.cpuc.ca.gov/puc/>

California Public Utilities Commission website. State entity that regulates privately owned electric, natural gas, telecommunications, water, railroad, rail transit, and passenger transportation.