

**CURRICULUM VITAE**  
**Lisa Grant Ludwig, Ph.D.**  
**(a.k.a. Lisa B. Grant)**

**Current position:**

Associate Professor, Program in Public Health, University of California, Irvine  
Associate Director, California Institute for Hazards Research, University of California MRP  
Associate Professor, WOS, Dept. Environmental Health, Science, & Policy ,  
School of Social Ecology, UC Irvine

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**Personal:** U.S. citizen, female, married

**Education:**

Ph.D. Geology and Geophysics, 1993

Caltech, Pasadena, CA.

Thesis Title: Characterization of Large Earthquakes on the San Andreas Fault in the Carrizo Plain: Implications for Fault Mechanics and Seismic Hazard

Thesis Advisor: Dr. Kerry E. Sieh, Member National Academy of Sciences

Academic Advisor: Dr. Leon T. Silver

M.S. Geology, 1990

Caltech, Pasadena, CA.

M.S. Environmental Engineering Science, 1989

Caltech, Pasadena, CA.

Advisor: Dr. Norman H. Brooks, Member National Academy of Engineering

B.S. with distinction, Environmental Earth Science, 1985

Stanford University , Palo Alto, CA.

**Previous Academic Appointments:**

Assistant Professor of Environmental Science and Geology  
Program Director for Environmental Science  
Chapman University, Orange, CA, 8/95 - 6/98

Graduate Research Assistant  
Caltech, Division of Geological and Planetary Sciences  
Pasadena, CA. 4/89 - 5/93  
Caltech, Keck Hydraulics Lab, Dept. of Environmental Engineering Science  
Pasadena, CA. 3/88 - 3/89

Graduate Teaching Assistant  
Caltech, Division of Geological and Planetary Sciences  
Pasadena, CA., 1991 and 1992

**Professional Positions:**

Senior Staff to Assistant Project Scientist  
Woodward-Clyde Consultants, GeoEngineering Group  
Santa Ana, CA 6/93 - 7/95 (part-time consulting 8/95 to 8/98)

Research Scientist  
California Research and Technology / Titan Systems  
Chatsworth, CA 1/85 - 7/87

**Other Appointments:**

Hydrologic Technician  
U.S. Geological Survey, Menlo Park, CA., 10/83 to 6/84 (part-time).

**Professional and Research Affiliations:**

Seismological Society of America (SSA)  
American Geophysical Union (AGU)  
Geological Society of America (GSA)  
Southern California Earthquake Center (SCEC)  
Earthquake Engineering Research Institute (EERI), affiliate member  
Consortium Universities for Research in Earthquake Engineering (CUREE)  
South Coast Geological Society

**Awards and Fellowships:**

NASA Certificate of Recognition with cash award "for the creative development of a technical innovation... QuakeSim" NASA Tech Brief NPO 41079, September 8, 2005  
UCI Faculty Career Development Award, 2002-2003  
Southern California Earthquake Center, Outstanding Outreach Certificate, 1999  
Chapman University Award for Excellence, 1997  
Chapman University Faculty Development Grants, 1996 & 1997  
F. Beach Leighton Fellowship, Caltech, 10/92 to 6/93

Earle Anthony Fellowship, Caltech, 10/89 to 6/90  
Caltech Special Institute Fellowship, 10/87 to 3/88  
Honorable Mention, National Defense Science and Engineering Graduate Fellowship Competition 1990  
Honorable Mention National Science Foundation Graduate Fellowship Competition 1987  
Graduated with Distinction, Stanford University, 1/85  
National Merit Scholar, 9/81 to 12/84

**Professional Service and Honors:**

Member, National Academy of Sciences U. S. National Committee for the International Union of Geodesy and Geophysics, 2003 to present  
Member, Board of Directors, Southern California Earthquake Center, 2002 to present  
Guest Editor, *Bulletin of the Seismological Society of America*, Special Issue on Paleoseismology of the San Andreas Fault System, published 2002  
Associate Editor, *Bulletin of the Seismological Society of America* , 1997 -2003  
Member, Local Organizing Committee, 2004 Annual Meeting Seismological Society of America  
Member, Selection Committee, Inaugural Richter Early Career Award, Seismological Society of America, 2005, 2006, 2007  
Special Union Session Convener: Synchronicity of Quaternary Events  
American Geophysical Union Fall Meeting, 2005  
Special Session Convener: Paleoseismology of the Planet  
Seismological Society of America Annual Meeting, 2001  
Panel Review Member for U.S. Geological Survey National Earthquake Hazard Reduction Program  
External Research funds , 1995, 1997, 1998, 2001, 2002, 2003

Ad hoc reviewer:

Geology (2005, 2006)  
Quaternary Research (2004)  
National Science Foundation proposals (1999, 2003, 2004, 2006)  
*Bulletin of the Seismological Society of America* (1995 – 1997, 2002, 2003, 2005)  
National Seismic Hazard Map, San Andreas fault parameters (2002)  
U.S. Geological Survey publication (1999)  
*Geophysical Research Letters* (1998)  
U.S. Geological Survey National Earthquake Hazard Reduction Program proposals, mail reviewer (1990-1994, 1996)  
*Journal of Geophysical Research* (1991)

**Extramural Funding:**

- [26] Collaborative research: Slip-per-event rupture history of the San Andreas fault in the Carrizo Plain: Was the 1857 earthquake characteristic, National Science Foundation, 7/01/07-6/30/09, \$270,116 (P.I.)
- [25] Age of precariously balanced rocks (PBRs) for validation of a petascale cyberfacility for physics-based seismic hazard analysis, 2/01/07-1/31/07/08, Southern California Earthquake Center, \$20,000 (Co- I.) award pending
- [24] Rupture history of the San Andreas fault in the Carrizo Plain prior to 1200 AD, U.S. Geological Survey, 4/1/07 - 3/31/08, \$77,218 (PI)

- [23] Numerical simulations for active tectonic processes: Increasing interoperability and performance,  
JPL (NASA), 10/06-9/09 , \$75,000 UCI (Co-I.)
- [22] Age of precarious rocks in southern California and implications for seismic hazard: A preliminary assessment. 2/01/06-1/31/07/06, Southern California Earthquake Center, \$10,000 (P.I.)
- [21] A long chronology of earthquakes on the San Andreas fault at the Bidart Fan in the Carrizo Plain, 2/01/06-1/31/07/06, Southern California Earthquake Center, \$15,000 (P.I.)
- [20] Collaborative research: Multi-cycle rupture history of the San Andreas fault in the Carrizo Plain, California, National Science Foundation, 8/01/04-7/31/07, \$249,000 (P.I.)
- [19] Collaborative research: Paleoseismic constraints on earthquake simulation models of southern California, Southern California Earthquake Center (USGS), 2/01/04-1/31/06, \$10,000 (Co-P.I.)
- [18] Active deformation and earthquake potential of the southern Los Angeles Basin, U.S. Geological Survey, National Earthquake Hazard Reduction Program, 2/01/04-1/31/07, \$39,318 (P.I.)
- [17] Collaborative research: Rupture history of the San Andreas fault at Van Matre Ranch, Carrizo Plain, California, U.S. Geological Survey, 2/1/04 - 1/31/06, \$48,312 (PI)
- [16] Collaborative research: Paleoseismic constraints on earthquake simulation models of southern California, Southern California Earthquake Center (USGS), 2/01/03 - 1/31/04 \$5,000 (Co-P.I.)
- [15] Dating support for measuring late Quaternary uplift of the Santa Ana mountains, southeastern Los Angeles basin, California, Southern California Earthquake Center (USGS), 2/01/03 - 1/31/04 \$10,000 (P.I.)
- [14] Effective Risk Mitigation for SCEC Target Audiences (renewal), Southern California Earthquake Center (USGS), 2/01/03 - 1/31/04 \$12,000 (P.I.)
- [13] Active deformation and earthquake potential of the southern Los Angeles Basin, U.S. Geological Survey, National Earthquake Hazard Reduction Program, 2/01/03-1/31/06, \$30,000 (P.I.)
- [12] Numerical simulations for active tectonic processes: Increasing interoperability and performance,  
JPL (NASA), 5/02 – 1/05, \$2,400,000 total, \$137,300 UCI (Co-P.I.)
- [11] Effective Risk Mitigation for SCEC Target Audiences, Southern California Earthquake Center (USGS), 2/01/02 - 1/31/03 \$20,000 (P.I.)
- [10] New San Andreas Fault Paleoseismic Data for RELM's Fault Activity Database, Southern California Earthquake Center (USGS), 2/01/02 - 1/31/03 \$8,000 (P.I.)

- [9] Active deformation and earthquake potential of the southern Los Angeles Basin, U.S. Geological Survey, National Earthquake Hazard Reduction Program, 3/01-6/02, \$35,000 (P.I.)
- [8] Write-up San Joaquin Hills Final Story, Assist with Carrizo Plain Paper, Southern California Earthquake Center (NSF), 2/01 - 2/02, \$16,000 (P.I.)
- [7] Renewal of Neotectonics and Holocene Paleoseismology of the San Joaquin Hills, Orange County, California; and Historic and paleoseismic behavior of the south-central San Andreas Fault between Cholame and the Carrizo Plain, Southern California Earthquake Center (NSF), 3/00 - 2/02, \$29,000 (P.I.)
- [6] Renewal of Neotectonics and Holocene Paleoseismology of the San Joaquin Hills, Orange County, California; and Historic and paleoseismic behavior of the south-central San Andreas Fault between Cholame and the Carrizo Plain, Southern California Earthquake Center (NSF), 3/99 - 2/02, \$46,000 (P.I.)
- [5] Neotectonics and Holocene Paleoseismology of the San Joaquin Hills, Orange County, California, Southern California Earthquake Center (NSF), 7/98 - 2/02, \$55,386 (P.I.)
- [4] Historic and paleoseismic behavior of the south-central San Andreas fault between Cholame and the Carrizo Plain, Southern California Earthquake Center (NSF), 6/97 - 5/98, \$27,000 (Co-P.I.)
- [3] Continued Paleoseismic Investigation of the Newport-Inglewood Fault Zone, Southern California. Southern California Earthquake Center (NSF), 6/95- 5/98, \$24,000 (P.I.)
- [2] Workshop on Preparing a Digital Fault Map and Database for Southern California, completed, Southern California Earthquake Center (NSF), 2/95 - 12/95 \$18,000 (Co-P.I.)
- [1] Paleoseismic Investigation of the Newport-Inglewood Fault Zone, Southern California, Southern California Earthquake Center (NSF), 6/94 to mid. 1998, \$30,000 ( P.I.).

## **Publications**

### **Special Journal Issue:**

AA1. **Grant, L. B.** and W. R. Lettis (Editors). Paleoseismology of the San Andreas Fault System. *Bulletin Seismological Society of America*. Special Issue. Volume 92, No. 7, October 2002.

### **Publications in Peer Reviewed Journals:**

A1. Roddy, D., Schuster, S., Rosenblatt, M., **Grant, L.**, Hassig, P., and Kreyenhagen, K., Computer Simulations of Large Asteroid Impacts Into Oceanic and Continental Sites : Preliminary Results on Atmospheric, Cratering and Ejecta Dynamics, *International Journal of Impact Engineering*, v. 5, p.525-541, 1987.

- A2. **Grant, L. B.** and K. Sieh, Stratigraphic Evidence for 7 Meters of Dextral Slip on the San Andreas Fault During the Great 1857 Earthquake in the Carrizo Plain. *Bulletin Seismological Society of America*, v. 83, no. 3, p.619-635, 1993.
- A3. **Grant, L. B.** and A. Donnellan, 1855 and 1991 Surveys of the San Andreas Fault: Implications for Fault Mechanics, *Bulletin Seismological Society of America*, v. 84, no. 2, p.241-246, 1994.
- A4. **Grant, L. B.** and K. Sieh, Paleoseismic Evidence of Clustered Earthquakes on the San Andreas Fault in the Carrizo Plain, California, *Journal of Geophysical Research*, v. 99, no. B4, p.6819-6841, 1994.
- A5. **Grant, L. B.**, Uncharacteristic Earthquakes on the San Andreas Fault, *Science*, v. 272, p.826 - 827, 1996.
- A6. **Grant, L. B.**, J. T. Waggoner, C. von Stein and T. Rockwell, Paleoseismicity of the North Branch of the Newport-Inglewood Fault Zone in Huntington Beach, California, from Cone Penetrometer Test Data. *Bulletin Seismological Society of America*, v. 87, no. 2, p.277 - 293, 1997.
- A7a. **Grant, L. B.**, K. J. Mueller, E. M. Gath, H. Cheng, R. L. Edwards, R. Munro and G. L. Kennedy, Late Quaternary Uplift and Earthquake Potential of the San Joaquin Hills, southern Los Angeles Basin, California, *Geology*, v. 27, no. 11, p. 1031-1034, 1999.
- A7b. **Grant, L. B.**, K. L. Mueller, E. M. Gath and R. Munro, Late Quaternary uplift and earthquake potential of the San Joaquin Hills, southern Los Angeles basin, California – REPLY, *Geology*, v. 28, no. 4, p.384, 2000.
- A8. **Grant, L. B.** L. J. Ballenger, and E. E. Runnerstrom. Coastal uplift of the San Joaquin Hills, Southern Los Angeles basin, California, by a large earthquake since 1635 A.D. *Bulletin Seismological Society of America*, v. 92, no. 2, p.590-599, 2002.
- A9. Stone, E. M., **Grant, L. B.** and Arrowsmith, J R., Recent rupture history of the San Andreas fault, southeast of Cholame in the northern Carrizo Plain, California, *Bulletin Seismological Society of America*, v. 93, no. 3, p.983-997, 2002.
- A10. **Grant, L. B.**, and Rockwell, T. K., A Northward propagating earthquake sequence in coastal southern California? *Seismological Research Letters*, v. 73, no. 4, p.461-469, 2002.
- A11. Runnerstrom, E. E., **L. B. Grant**, J R. Arrowsmith, D. D. Rhodes, and E. M. Stone, Displacement across the Cholame segment of the San Andreas fault between 1855 and 1893 from cadastral surveys, *Bulletin Seismological Society of America*, v. 92, no. 7, 2659-2669, 2002.
- A12. Young, J. J., J R. Arrowsmith, L. Colini, **L. B. Grant**, and B. Gootee. 3-D excavation and measurement of recent rupture history along the Cholame segment of the San Andreas fault, *Bulletin Seismological Society of America*, v. 92, no. 7, 2670-2688, 2002.
- A13. **Grant, L. B.** and W. R. Lettis. Introduction to the Special Issue on Paleoseismology of the San Andreas Fault System, *Bulletin Seismological Society of America*, v. 92, no. 7, 2551-2554, 2002.

- A14. **Grant, L. B.** and M. M. Gould. Assimilation of paleoseismic data for earthquake simulation. *Pure and Applied Geophysics*, 161, no. 11/12, 2295-2306, 2004.
- A15. **Grant, L. B.** and P. M. Shearer, Activity of the offshore Newport-Inglewood Rose Canyon fault zone, coastal southern California, from relocated microseismicity. *Bulletin Seismological Society of America*, 94, 747-752, 2004.
- A16. Powell, C. L. II, **L. B. Grant**, and S. Conkling. Paleoecologic analysis and age of a late Pleistocene fossil assemblage from upper Newport Bay, Newport Beach, Orange County, California. *The Veliger*, v. 47, no. 3, 183-192, March 16, 2005.
- A17. **Grant, L. B.**, Gould, M. M., Donnellan, A., McLeod, D., Chen, A. Y., Sung, S., Pierce, M., Fox, G. C., and Rundle, P., A Web-service based universal approach to heterogeneous fault databases, *Computing in Science and Engineering*, July/Aug. 2005, p. 51- 57.
- A18. Rundle, J. B., Rundle, P. B., Donnellan, A., Turcotte, D. L., Scherbakov, R., Li P., Malamud, B. D., **Grant, L. B.**, Fox, G. C., McLeod, D., Yakolev, G., Parker, J., Klein, W. and K. F. Tiampo. A simulation-based approach to forecasting the next great San Francisco earthquake, *Proceedings of the National Academy of Sciences*, ([www.pnas.org/cgi/doi/10.1073/pnas.0507528102](http://www.pnas.org/cgi/doi/10.1073/pnas.0507528102)) 102:15363-15367 (2005)
- A19. Noriega, G. R., Arrowsmith, J R., **Grant, L. B.**, and J. J. Young, Stream channel offset and late Holocene slip rate of the San Andreas fault at the Van Matre Ranch site, Carrizo Plain, California, *Bulletin Seismological Society of America*, v. 96, no. 1, 33-47, 2006.
- A20. Rundle, J. B., P. B. Rundle, A. Donnellan, P. Li, W. Klein, G. Morein, D. L. Turcotte and **L Grant**. Stress transfer in earthquakes and forecasting: Inferences from numerical simulations. *Tectonophysics*, 413, 109-125, 2006.
- A21. Donnellan, A., Rundle, J., Fox, G., McLeod, D., **Grant, L.**, Tullis, T., Pierce, M., Parker, J., Lyzenga, G., Granat, R., and Glasscoe, M. QuakeSim and the Solid Earth Research Virtual Observatory. *Pure and Applied Geophysics*, 163, 2263-2279, 2006
- A22. Aktas, M., Aydin, G., Donnellan, A., Fox, G., Granat, R., **Grant, L.**, Lyzenga, G., McLeod, D., Pallickara, S., Parker, J., Pierce, M., Rundle, J., Sayar, A., and Tullis, T. iSERVO: Implementing the International Solid Earth Research Virtual Observatory by Integrating Computational Grid and Geographical Information Web Services, *Pure and Applied Geophysics*, 163, 2281-2296, 2006.
- A23. Van Aalsburg, J., **Grant, L. B.**, Yakolev, G., Rundle, P. B., Rundle, J. B., Turcotte, D. L., and Donnellan, A.. A feasibility study of data assimilation in numerical simulations of earthquake fault systems. *Physics of the Earth and Planetary Interiors* (2007), doi:10.1016/j.pepi.2007.04.020

### **In review or in press**

Donnellan, A., Parker, J., Norton, C., Lyzenga, G., Glasscoe, M., Fox, F., Pierce, M., Rundle, J., McLeod, D., **Grant, L.**, Brooks, W., and Tullis, T. (submitted Oct. 2006). QuakeSim: Enabling model interactions in solid earth science sensor webs. *IEEE 2007 Aerospace Conference*. 8 pp.

Akciz, S. O., **Grant, L. B.**, Arrowsmith, J R., An average recurrence interval of 144 years for repeated rupture of the San Andreas Fault in the Carrizo Plain, California, since A.D. 1280,

### **Manuscripts in preparation:**

- Frequent earthquakes on the San Andreas Fault at Carrizo Plain, California,
- Fluvial erosion rates and uplift of the Puente Hills, calibrated by strike-slip faulting
- Tectonic geomorphology and uplift of the Santa Ana Mountains in the southeastern Los Angeles basin, Orange County, California
- Tectonic geomorphology and earthquake potential of the southern Los Angeles basin, Orange County, California

### **Peer-Reviewed Book Chapter**

B1. **Grant, L. B.** Paleoseismology. Chapter 30 In “IASPEI International Handbook of Earthquake and Engineering Seismology” (W. H. Lee, H. Kanamori, and P.C. Jennings, Eds.), International Association of Seismology and Physics of the Earth’s Interior, v. 81A, p. 475-489, 2002.  
With accompanying images, glossary and expanded text on CD.

B2. **Grant, L.** Paleoseismology. In “Treatise on Geophysics” (G. Schubert, Ed.), Volume on Seismology (H. Kanamori), Elsevier. Accepted January 29, 2007.

### **Conference Proceedings Papers or Extended Abstracts, Peer-Reviewed**

C1. **Grant, L. B.** and Kerry Sieh, Irregular Recurrence Times and Increased Seismic Hazard From Earthquakes on the Carrizo Segment of the San Andreas Fault, Southern California, Proc. of the 35th Annual Meeting, Assoc. of Engineering Geologists, p. 567-568, 1992.

C2. **Grant, L. B.**, Paleoseismicity of the San Andreas Fault in the Carrizo Plain: Implications for Characteristic Earthquakes, Segmentation Models and Seismic Hazard, in Proceedings of the Workshop on Paleoseismology, U.S. Geological Survey Open File Report 94-568, p.71-73, 1994.

### **Book Reviews**

D1. **Grant, L. B.**, Review of “Living with Earthquakes in California,” published by Robert S. Yeats, Oregon State University Press, 2001. *EOS: Transaction American Geophysical Union*, v. 82, no. 49, p. 611, Dec. 4, 2001.

### **Articles in general readership magazines or newspapers**

E1. Grant, S. B. and **Grant, L. B.**, An All-Points Bulletin: Coast Must be Cleared, *Los Angeles Times*, Orange County Edition, B7, Sunday editorial, Sept. 12, 1999.

### Conference Abstracts

F1. Roddy, D., Schuster, S., Rosenblatt, M., **Grant, L.**, Hassig, P. and Kreyenhagen, K., Analytical Simulation of a 10 KM Diameter Asteroid Impact Into a Terrestrial Ocean: Part 1 Summary, *Lunar and Planetary Science XVII*, p. 720-721, 1986.

F2. **Grant, L. B.**, Schuster, S., and Roddy, D., J., Analytical Simulation of a 10 KM Diameter Asteroid Impact Into a Terrestrial Ocean: Part 3 - Cratering Mechanics, *Lunar and Planetary Science XVII*, p. 281-282, 1986.

F3. Silver, L., James, E. B. and **Grant, L.** Zeolitization Along the San Andreas Fault Zone, *EOS Trans. Am. Geophys. Union*, v. 71, no 43, p. 1652, Oct. 23, 1990.

F4. **Grant, L. B.** and K.E. Sieh, Stratigraphic Evidence That Offset From the 1857 Earthquake in the Carrizo Plain, CA., is Less Than Suggested by Geomorphology, *EOS Trans. Am. Geophys. Union*, v. 71, no. 43, p. 1452, Oct. 23, 1990.

F5. **Grant, L. B.** and K. E. Sieh, New Data on the Timing and Slip per Event of Earthquakes on the San Andreas Fault, Carrizo Plain, CA. *EOS Trans. Am. Geophys. Union*, v. 72, no. 44, p. 351, Oct. 29, 1991.

F6. **Grant, L. B.** and A. Donnellan, [INVITED] 1855 and 1991 Surveys of the San Andreas Fault: Implications for Fault Mechanics, *EOS Trans. Am. Geophys. Union*, v. 74, no. 16, p. 106, April 20, 1993.

F7. **Grant, L. B.** and K. Sieh. Paleoseismic Evidence of Clustered Earthquakes on the San Andreas Fault in the Carrizo Plain, CA., *EOS Trans. Am. Geophys. Union*, v. 74, no. 43, p. 427, Oct. 26, 1993.

F8. Sieh, K., **Grant, L. B.** and S. T. Freeman, Late Quaternary Slip Rate of the North Branch of the San Andreas Fault at City Creek, California, *GSA Abstracts with Programs, 1994 Cordilleran Section Meeting*, p. 91.

F9. **Grant, L. B.**, J. T. Waggoner and C. von Stein, Paleoseismicity of the North Branch of the Newport-Inglewood Fault in Huntington Beach, California, *EOS Trans. Am. Geophys. Union*, v. 76, no. 46, p. F362, 1995.

F10. **Grant, L. B.**, J. T. Waggoner, T. K. Rockwell and C. von Stein, Paleoseismicity of the North Branch of the Newport-Inglewood Fault Zone in Huntington Beach, California from Cone Penetrometer Test data, *Seism. Res. Ltr.*, v. 68, no. 2, p. 300, 1997.

F11. **Grant, L. B.**, E. Gath, R. Munro, and G. Roquemore, Neotectonics and Earthquake Potential of the San Joaquin Hills, Orange County, California, *Seism. Res. Ltr.*, v. 68, no. 2, p. 315, 1997.

- F12. Arrowsmith, R., **L. Grant** and D. Rhodes, Investigation of historic and paleoseismic behavior of the San Andreas Fault between Cholame and the Carrizo Plain, Abstracts, Ann. Meeting Southern California Earthquake Center, p. 53, 1997.
- F13. **Grant, L.**, E. Gath, R. Munro, K. Mueller, G. Kennedy and L Edwards, Uplift and earthquake potential of the San Joaquin Hills, Orange County, California, Abstracts, Ann. Meeting Southern California Earthquake Center, p. 63, 1997.
- F14. Mueller, K. J., **L. Grant** and E. Gath, Late Quaternary Growth of the San Joaquin Hills - A New Source of Blind Thrust Earthquakes in the Los Angeles Basin, Seism. Res. Ltrrs, v. 69, no. 2, p. 161-162, 1998.
- F15. **Grant, L. B.** and L. Ballenger, Holocene Paleoseismology of the San Joaquin Hills thrust, Orange County, California – Preliminary results. Abstracts, Ann. Meeting Southern California Earthquake Center, p. 58, 1998.
- F16. **Grant, L. B.**, K. Mueller, E. M. Gath, H. Cheng, L. Edwards, R. Munro and G. L. Kennedy, Evidence for an Active Blind Thrust Fault in the Southern Los Angeles Basin, Abstracts, Annual Meeting Southern California Earthquake Center, p. 58, 1998.
- F17. **Grant, L. B.**, J. R. Arrowsmith, E. M. Stone and D. D. Rhodes, Investigation of historic land surveys across the San Andreas Fault between Cholame and the Carrizo Plain – Preliminary Results, Abstracts, Ann. Meeting Southern California Earthquake Center, p. 57, 1998.
- F18. Stone, E. M., J. R. Arrowsmith, D. D. Rhodes and **L. Grant**, Fault Zone Geometry and Historic Displacement Along the Cholame Segment of the San Andreas Fault, Southern California, EOS Trans. Am. Geophys. Union, v. 79, no. 45, p. F612, 1998.
- F19. **Grant, L. B.** and L. J. Ballenger, Holocene Uplift and Paleoseismology of the San Joaquin Hills, Orange County, California, Seism. Res. Ltrrs, v. 70, no. 2, p. 266, 1999.
- F20. Stone, E. M., J. R. Arrowsmith, and **L. B. Grant**, Recent rupture history of the San Andreas fault, southeast of Cholame in the northern Carrizo Plain, California, EOS Trans. Am. Geophys. Union, p.F735, 1999.
- F21. Stone, E. M., J. R. Arrowsmith, and **L. B. Grant**, Recent rupture history of the San Andreas fault, southeast of Cholame in the northern Carrizo Plain, California. Abstracts, Annual Meeting Southern California Earthquake Center, p. 88, 1999.
- F22. **Grant, L. B.** and L. J. Ballenger, Paleoseismic Evidence of a Historic Coastal Earthquake and Uplift of the San Joaquin Hills, Southern California. Abstracts, Annual Meeting Southern California Earthquake Center, p. 62, 1999.
- F23. **Grant, L. B.** and L. J. Ballenger, Paleoseismic Evidence of a Historic Coastal Earthquake and Uplift of the San Joaquin Hills, Southern California, EOS Trans. Am. Geophys. Union, v. 80, p. F736, 1999.

- F24. **Grant, L. B.** [INVITED] Integration and Implications of Paleoseismic Data for GEM, EOS Trans. Am. Geophys. Union, v. 80, p. F923, 1999.
- F25. Stone, E. M., J. R. Arrowsmith, and **Grant, L. B.**, Possible Post-1857 surface rupture of the San Andreas fault southeast of Cholame in the northern Carrizo Plain, Seismological Research Letters, v. 71 no. 1, p.228-229, 2000.
- F26. **Grant, L.**, Neotectonics, Holocene uplift and earthquake potential of the San Joaquin Hills, southern Los Angeles Basin, California, Working in Concert: A Joint conference of Geoscientists and Petroleum Engineers, Abstr. with Programs, Amer. Assoc. Petrol. Geol., Long Beach, Calif. June 19-22, p.A19-A20, 2000.
- F27. Gath, E. M. and **Grant, L. B.**, Laguna Beach and the Evolution of Its Ocean Views: A 1.4 Ma Perspective, AEG NEWS, v. 43, no. 4, Assoc. Engineering Geologists, Annual Meeting Program with Abstracts, p.86, 2000.
- F28. Young, J. J., Colini, L., Arrowsmith, R., and **Grant, L. B.**, Recent surface ruptures along the Cholame segment of the San Andreas fault. Abstracts, Annual Meeting Southern California Earthquake Center, p. 94, 2000.
- F29. Raymond, D. E., and **Grant, L. B.**, Seismic hazard assessment of the San Joaquin Hills using GIS, Abstracts, Annual Meeting Southern California Earthquake Center, p. 83, 2000.
- F30. **Grant, L. B.**, and Ballenger, L. J., Characterization of the most recent earthquake and uplift of the San Joaquin Hills, southern Los Angeles Basin. Abstracts, Annual Meeting Southern California Earthquake Center, p. 55, 2000.
- F31. **Grant, L. B.**, Earthquake cycles and rupture patterns: Insights and models from paleoseismic data, in Proceedings of the 2<sup>nd</sup> ACES Workshop (Matsu'ura, M., K. Nakajima, and P. Mora, Eds.) Tokyo and Hakone Japan, Oct. 15-20, p.313-316, 2000.
- F32. Young, J. J. , Arrowsmith, J. R., Colini, L. and **Grant, L. B.**, Recent surface ruptures along the Cholame segment of the San Andreas fault, EOS Trans. Am. Geophys. Union, v. 81, no. 48, p. F925, 2000.
- F33. **Grant, L. B.**, Ballenger, L. J. and Runnerstrom, E. E., Evidence of a large earthquake and coastal uplift of the San Joaquin Hills, southern Los Angeles Basin, California, since A. D. 1635, Geological Society of America Cordilleran Section Meeting, Abstr. with Programs, v. 33, no. 3, p. A-42, Universal City, California, March 2001.
- F34. Runnerstrom, E. E., **Grant, L. B.**, Arrowsmith, J. R., Stone, E. M., and Rhodes, D. D., Preliminary measurement of earthquake displacement and post-1857 strain accumulation along the Cholame segment of the San Andreas fault, Seismological Research Letters, v. 72, no. 2, p.266, 2001.
- F35. Young, J., Colini, L., Arrowsmith, J. R. and **Grant, L. B.**, Recent ruptures along the Cholame segment of the San Andreas Fault, California, Seismological Research Letters, v. 72, no.2, p.266, 2001.

- F36. Adler, C. and **Grant, L. B.**, Paleoshoreline mapping and estimates of uplift along the coast of the San Joaquin Hills, Orange County, California. Proceedings and Abstracts, Southern California Earthquake Center Annual Meeting, Oxnard, California, p.61-62, 2001.
- F37. Yeats, R. S., J. F. Dolan, E. M. Gath, **L. Grant**, M. Legg, S. Lindvall, K. Mueller, M. Oskin, D. F. Ponti, C. M. Rubin, T. K. Rockwell, J. H. Shaw, J. A. Treiman, and C. Walls. Unsolved problems in the Los Angeles Metropolitan Area based on geology: Results of SCEC I. Proceedings and Abstracts, Southern California Earthquake Center Annual Meeting, Oxnard, California, p.120, 2001.
- F38. **Grant, L. B.** Paleo-PBO: A Fault Database for 4-D Plate Boundary Observation. EarthScope Workshop: Making and Breaking a Continent, Snowbird, Utah, Oct. 10-12, p.154-156, 2001.
- F39. **Grant, L. B.**, and T. K. Rockwell. Northward propagating earthquake sequence in coastal southern California. Seismological Research Letters, v. 73, no. 2, p.263, 2002.
- F40. Gath, E. M. and **Grant, L. B.**, Is the Elsinore fault responsible for the uplift of the Santa Ana Mountains, Orange County, California? GSA Abstracts with Programs, v. 34, no. 5, April, p. A-87, 2002.
- F41. **Grant, L. B.** and Gould, M. M. [Invited]. Paleoseismic and geologic data for earthquake simulation. Computational Science, Data Assimilation, and Information Technology for Understanding Earthquake Physics and Dynamics, 3<sup>rd</sup> ACES International Workshop, Maui, Hawaii, USA, p.30, 2002.
- F42. Gould, M., **Grant, L.**, Donnellan, A., and D. McLeod. The GEM Fault Database: A Preliminary report on design and approach. Proceedings and Abstracts, SCEC Annual Meeting, p.75-76, 2002.
- F43. Runnerstrom E. E. and **L. B. Grant**. Effective seismic risk communication to a SCEC target audience. Poster abstract, SCEC Annual Meeting, Oxnard, CA, 2002. (Omitted from proceedings.)
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- F48. Runnerstrom, E. E. and **L. B. Grant**. Seismic risk communication among hazard experts and local-level governments using Safety Elements. Pac. Sect. Abstracts with Programs, AAPG Combined Meeting, Long Beach, p. 87, 2003.
- F49. Gath, E., **L. Grant**, and L. Owen. Temporal controls on vertical motion rates for the Santa Ana Mountains and Puente Hills, Orange County, California, Proceedings and Abstracts, v. XIII, SCEC Annual Meeting, p.88, 2003.
- F50. Gould, M., **L. Grant**, A. Donnellan, D. McLeod, and A. Y. Chen. The QuakeSim fault database for California, Proceedings and Abstracts, v. XIII, SCEC Annual Meeting, p.90, 2003.
- F51. **Grant, L.** and P. Shearer. Activity of the offshore Newport-Inglewood Rose Canyon fault zone, coastal southern California, from relocated microseismicity, Proceedings and Abstracts, v. XIII, SCEC Annual Meeting, p.91, 2003.
- F52. Hsieh, T. J., **L. B. Grant**, F. Kuester and T. C. Hutchinson. Interactive 3D visualization of faults in southern California. Proceedings and Abstracts, v. XIII, SCEC Annual Meeting, p.100, 2003.
- F53. Runnerstrom, E., **L. Grant**, and K. Iriarte. Effective seismic risk communication for SCEC target audiences: Are Safety Elements too shaky? Proceedings and Abstracts, v. XIII, SCEC Annual Meeting, p.134, 2003.
- F54. Ward, S., T. Rockwell and **L. Grant**. Collaborative research: Paleoseismic constraints on earthquake simulation models of southern California, Proceedings and Abstracts, v. XIII, SCEC Annual Meeting, p.153-154, 2003.
- F55. Gath, E., **L. Grant** and E. Runnerstrom. Using strike-slip offsets for temporal control of the development of a Quaternary drainage network in southern California. Presented at the Annual Meeting of the Association of Engineering Geologists, Vail, Colorado, September 2003.
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- F57. Gould, M.M., **Grant, L. B.**, Donnellan, A., McLeod, D., & Chen, A. Y. (2003). The QuakeSim fault database for California. Geological Society of America Annual Meeting Abstracts with Programs, 35(6). [abstract]
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- F60. Donnellan, A., Parker, J., Lyzenga, G., Granat, R., Fox, G., Pierce, M., Rundle, J., McLeod, D., **Grant, L.**, and Tullis, T. The QuakeSim Project: Numerical Simulations for Active Tectonic Processes, NASA Earth Science Technology Conference, Palo Alto, CA, May 2004. [extended abstract]
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- F64. Fox, G., Pierce, M., Rundle, J., Donnellan, A., Parker, J., Granat, R., Lyzenga, G., McLeod, D., and **L. Grant** (2004). The International Solid Earth Research Virtual Observatory, *Eos Trans. AGU*, 85(47), Fall Meet. Suppl., Abstract SF31B-07.
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F72. **Grant, L. B.** (INVITED) A public health approach to solving the earthquake problem. 2006 GSA Annual Meeting, October22-25, Philadelphia, CA. Paper No. 4-7.

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F75. Van Aalsburg, J., **Grant, L.**, Holliday, J. and Rundle, J. B.. Assimilating data into Virtual California models by a method of data scoring, . 2006 AGU Fall meeting, December 11—15, San Francisco, CA. Abstract NG31A-1586..

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F77. **Grant, L. B.** (INVITED). A Public Health Perspective on the Earthquake Problem. SSA 2007 Annual Meeting, April 11-13. Kona, Hawaii.

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F79. Negrini, R., Rhodes, D. D., Stephenson, R., Noriega, G., **Grant, L.**, Baron, D. Wigand, P. E., and Rich, F., 2007. Evidence for a Long-Lived Pleistocene Lake, Carrizo Plain, California. 2007 GSA Denver Annual Meeting, October 28-31. Abstract 124945

### **Other Publications And Technical Reports**

G1. McGill, S. F. and **L. B. Grant**, Summary of Findings: Workshop on Preparing a Digital Fault and Fold Map and Database for Southern California, Final Technical Report submitted to Southern California Earthquake Center, August 29, 1995.

- G2. **Grant, L. B.**, Preliminary Summary of Findings: Workshop on Preparing a Digital Fault and Fold Map and Database for Southern California, in Addressing Seismic Hazards in Southern California: Establishing Dialogue Among Academia, The Insurance Industry, and Risk Assessment Professionals, Southern California Earthquake Center, Nov. 9, 1995, pp. 16-17.
- G3. Forrest, M., Rockwell, T., **Grant, L.** and E. Gath, The Newport-Inglewood and Whittier-Elsinore Fault Zones, Southern California Earthquake Center Shattered Crust Series, No. 1, July 1996.
- G4. SCEC Working Group C (Dolan, J. F., Gath, E. M., **Grant, L. B.**, Legg, M., Lindvall, S., Mueller, K., Oskin, M., Ponti, D. P., Rubin, C. M., Rockwell, T. K., Sieh, K., Shaw, J. H., Walls, C. and R. S. Yeats (compiler)). Active faults in the Los Angeles Metropolitan Region, SCEC Special Publication Series, No. 001, Southern California Earthquake Center, September 2001.
- G5. **Grant, L. B.** and Runnerstrom, E. E., Notes on proposed models for the San Joaquin Hills blind thrust. Report submitted to the California Division of Mines and Geology, Nov. 2, 2001. Contents of report published in:  
Cao, T., W. A. Bryant, B. Rowshandel, D. Branum and C. J. Wills, The Revised 2002 California Probabilistic Seismic Hazard Maps June 2003, State of California, Department of Conservation, California Geological Survey, Probabilistic Seismic Hazard Assessment (PSHA) Maps website <http://www.consrv.ca.gov/cgs/rghm/psha/index.htm>
- G6. Gath, E. M., Runnerstrom, E. E. and **L. B. Grant**. Tectonic geomorphology of the Santa Ana Mountains. U.S. Geological Survey National Earthquake Hazard Reduction Program, Final Technical Report, Award Number 01HQGR0117, 2002. Published online by the U.S. Geological Survey at [http://erp-web.er.usgs.gov/reports/abstract/2001/sc/final\\_report.pdf](http://erp-web.er.usgs.gov/reports/abstract/2001/sc/final_report.pdf)
- G7. Donnellan, A., G. Fox, J. Parker, M. Pierce, D. McLeod, J. Rundle, **L. Grant**, T. Tullis and R. Granat. Numerical simulations for active tectonic processes: Increasing interoperability and performance, 2002 Annual Report, January 3, 2003, 12pp, <http://www-aig.jpl.nasa.gov/public/dus/quakesim/milestones.html>
- G8. Donnellan, A., G. Fox, T. Tullis, J. Rundle, G. Lyzenga, J. Parker, M. Pierce, D. McLeod, **L. Grant**, and R. Granat. Numerical simulations for active tectonic processes: Increasing interoperability and performance, 2003 Annual Report, March 5, 2004, 27pp. Available at <http://www-aig.jpl.nasa.gov/public/dus/quakesim/milestones.html>
- G9. **Grant, L. B.** with E. Gath and E. Runnerstrom (2003). Active deformation and earthquake potential of the southern Los Angeles basin, Orange County, California, Annual Project Summary, U.S. Geological Survey External Grant Award No. 03HQGR0062. Published on the web: [http://erp-web.er.usgs.gov/reports/annsum/vol45/sc/sc\\_vol45.htm](http://erp-web.er.usgs.gov/reports/annsum/vol45/sc/sc_vol45.htm)
- G10. **Grant, L. B.** with E. Gath and E. Runnerstrom (2004). Active deformation and earthquake potential of the southern Los Angeles basin, Orange County, California, 2004 Annual Project Summary, U.S. Geological Survey External Grant Award No. 03HQGR0062. Published on the web: [http://erp-web.er.usgs.gov/reports/annsum/vol46/sc/sc\\_vol46.htm](http://erp-web.er.usgs.gov/reports/annsum/vol46/sc/sc_vol46.htm)

G11. **Grant, L. B.** with E. Gath and E. Runnerstrom (2004). Active deformation and earthquake potential of the southern Los Angeles basin, Orange County, California, 2004 Annual Project Summary, U.S. Geological Survey External Grant Award No. 04HQGR0078. Published on the web: [http://erp-web.er.usgs.gov/reports/annsum/vol46/sc/sc\\_vol46.htm](http://erp-web.er.usgs.gov/reports/annsum/vol46/sc/sc_vol46.htm)

G12. **Grant, L. B.** with J Ramon Arrowsmith (2004). Rupture history of the San Andreas fault at the Van Matre Ranch, Carrizo Plain, California: Collaborative Research with the University of California, Irvine and Arizona State University, 2004 Annual Project Summary, U.S. Geological Survey External Grant Award No. 04HQGR0080. Published on the web: [http://erp-web.er.usgs.gov/reports/annsum/vol46/sc/sc\\_vol46.htm](http://erp-web.er.usgs.gov/reports/annsum/vol46/sc/sc_vol46.htm)

G13. Donnellan, A., D. McLeod and **L. Grant.**(2004) QuakeTables Fault Database for Southern California, June 5, 2004 – JPL Task Order 10650, 47pp. Published on the web at [http://www-aig.jpl.nasa.gov/public/dus/quakesim/QuakeTables\\_Doc.pdf](http://www-aig.jpl.nasa.gov/public/dus/quakesim/QuakeTables_Doc.pdf)

G14. **Grant, L. B.** with J Ramon Arrowsmith (2006). Rupture history of the San Andreas fault at the Van Matre Ranch, Carrizo Plain, California: Collaborative Research with the University of California, Irvine and Arizona State University, Final Technical Report, U. S. Geological Survey, Department of the Interior Award Number 04HQGR0080.

G15. **Grant, L. B.**, Gath, E. M., Owen, L. A. and E. E. Runnerstrom (2006). Active deformation and earthquake potential of the southern Los Angeles basin, Orange County, California, Final Technical Report, U. S. Geological Survey, Department of the Interior Award Number 03HQGR0062.

### **Public Lectures, Presentations and Related Activities**

#### Earthquake Potential of the San Joaquin Hills Fault

- University Club, UC Irvine, January 17, 2001
- Dan Aldrich Memorial Lecture, Niguel Shores, May 23, 2001

#### Orange County Seismic Hazards

- South Orange County Association of Mayors.- February 10, 2000
- Orange County Emergency Management Agency – April 6, 2000
- Water Emergency Response Agency, Orange County – June 15, 2000
- St. Mark Presbyterian Church, Newport Beach, CA, Oct. 1997

#### Other General Education Presentations or media work, for Non-Scientists

- Earthquakes, faults and seismic hazard, Turtle Rock School, 6<sup>th</sup> grade Assembly Oct. 17, 2003
- Finding Faults: Today@UCI <http://www.uci.edu/> Feb. 2002
- UCIThink.Community Forum, Beckman Center, March 2001
- LA Underground series on KFWB produced by Jack Popejoy, broadcast 1995-1997.
- The Newport-Inglewood and Whittier-Elsinore Fault Zones, S.C.E.C. Knowledge Transfer Field Trip with T. Rockwell and E. Gath, July 1996.

### Selected media coverage about my research on earthquake potential of California faults

- San Andreas fault
  - April 1994 (Assoc. Press, Los Angeles Times)
  - Spring 1996 (BBC, Assoc. Press, Los Angeles Times)
  - November 2002 (see below)
- Newport-Inglewood fault
  - March 1997 (OC Register front page, Los Angeles Times)
- San Joaquin Hills fault
  - March 1999 (including Banner headline, front page Orange County Register, 3/11/99)
  - November, 1999
  - November, 2001 (see below)
  - March 2002 (including National Public Radio Weekend Edition, 3/30/02)

### Selected Articles about my research since October 1, 2001:

- Robbins, Gary, “Big fault may lie beneath O.C. hills,” Orange County Register, Local, November 2, 2001, p. 1.
- Haldane, David, “The Big One in L.A. Basin may have been an Orange County event”, Los Angeles Times, March 20, 2002, p. B3.
- McFarling, Usha Lee, “Studies see big quake as more likely”, Los Angeles Times (Los Angeles, Valley and Orange County Editions), Sunday November 17, 2002, p. B1.
- Bridges, Andrew, “Big One may be overdue for area”, Associated Press, Sunday November 17, 2002.
- Oskin, Becky, “Trying to predict the fault’s next move”, Pasadena Star-News, Sunday November 17, 2002, p. 1.
- Adler, Robert, “California poised for disaster”, New Scientist: The global science and technology weekly, 30 November, 2002, p. 4.
- Reich, Kenneth, “Wait for quake no reason to quiver”, Los Angeles Times, May 16, 2003, p. B5
- Reich, Kenneth, “Faults may give clues to next quake,” Los Angeles Times, Saturday May 31, 2003, p. B7.
- Bridges, Andrew, “ San Andreas earthquakes might get bigger”, Associated Press and Orange County Register, April 15, 2004.
- City News Service, “ OC Earthquake”, April 15, 2004.
- Reich, Kenneth, “Scientists intrigued by quake forecasts”, Los Angeles Times, April 18, 2004.
- Reich, Kenneth, “Hidden quake risks cited for O.C.”, Los Angeles Times, May 3, 2004.
- Becerra, Hector, “Science is left a bit rattled by the quake that didn’t come”, Los Angeles Times, September 8, 2004.

### Technical Lectures and Invited Presentations

“A Public Health Approach to Solving the Earthquake Problem”

Geological Society of America Annual Meeting, Pardee Keynote Symposium, October 22, 2006

“Earthquake Geology of the San Joaquin Hills”

Dept. Geological Sciences, California State University, Fullerton, 2003

“Recent rupture history of the Coastal Fault zone between Punta Banda and the Los Angeles basin”  
Institute for Geophysics and Planetary Physics (IGPP), Scripps Institute of Oceanography,  
UC San Diego, January 31, 2003

“Earthquakes, faults and seismic hazard”  
PEER Scholars Program, UC Irvine, September 14, 2002  
California Science Institute Project, UC Irvine, August 6, 2003.

“Latest San Andreas fault paleoseismic data”  
Southern California Earthquake Center Workshop on Regional Earthquake Likelihood Models  
(RELM), September 8, 2002.

“Paleoseismic and geologic data for earthquake simulation”  
International Workshop on Computational Science, Data Assimilation, and Information  
Technology for Understanding Earthquake Physics and Dynamics  
APEC Cooperation for Earthquake Simulation (ACES), Maui, Hawai'i, May 7, 2002

“Earthquake Potential of the San Joaquin Hills fault”  
Sigma Xi Scientific Society, Anaheim, March 19, 2002

“Segmentation models for the San Andreas and Garlock faults”  
Workshop on Building a Community Fault Model  
Southern California Earthquake Center / USC, February 2002

“Measurement and age constraints of Holocene uplift along the San Joaquin Hills coast”  
Southern California Earthquake Center Workshop on Active Faulting and Uncertainty in  
Earthquake Source Characterization in the California Continental Borderland, January 31, 2001

“Coastal uplift and evidence of a large earthquake in the San Joaquin Hills”  
California Division of Mines & Geology and U.S. Geological Survey: California Seismic Hazard  
Mapping Workshop, September 28, 2000

“Earthquake Potential of the San Joaquin Hills from Analysis of Late Quaternary Marine Terraces and  
Holocene Shorelines”  
South Coast Geological Society joint meeting with Association of Engineering Geologists,  
February 8, 2000.

“Late Quaternary to Recent Uplift and Earthquake Potential of the San Joaquin Hills, Orange County”  
Southern California Earthquake Center Science Seminar on “Los Angeles Metropolitan Area  
Faults”, September 20, 1999

“UCI on Shaky Ground: Seismic Hazards in Orange County”  
University of California, Irvine, Samueli School of Engineering, February 25, 2000  
University of California, Irvine, School of Social Ecology, April 1998

“Paleoseismic Investigation of the Newport-Inglewood Fault Zone Using CPT Data”

South Coast Geological Society, March 1998.  
U.S. Geological Survey, Menlo Park, CA, September 1996.

“Uncharacteristic Earthquakes on the San Andreas Fault”  
University of California, Berkeley, May 1997  
University of California, Irvine, June 1997

“Geomorphic and structural analysis of the San Joaquin Hills in Orange County, California”  
Field Trip with K. Mueller and E. Gath, Southern California Earthquake Center  
Annual Meeting, October 5, 1997

“Paleoseismology and the Future of Earthquakes Past”  
University of Southern California School of Earth Sciences, May 1996  
California State University at Fullerton, September 1996

"Uses of Phase II (Report) in Other Products, Reports, Publications, and the WWW", in  
Addressing Seismic Hazards in Southern California: Establishing Dialogue Among Academia,  
the Insurance Industry, and Risk Assessment Professionals  
Southern California Earthquake Center, November 1995.

“Implications of Recent Research on the San Andreas Fault”  
California Earthquake Prediction Evaluation Council, October 1995.

"Timing of Earthquakes on the San Andreas Fault"  
Association of Engineering Geologists, October 1995.

“Preliminary Summary of Findings: Workshop on Preparing a Digital Fault and Fold Map and Database  
for So. California”  
Southern California Earthquake Center Research Utilization Council, June 1995.

“Characterization of Large Earthquakes on the San Andreas Fault in the Carrizo Plain, CA”  
School of Earth Sciences, Stanford University, 1994  
Inland Geological Society, 1994.  
Hewitt Lecture Series, UC Riverside, 1993

“1855 and 1991 Surveys of the San Andreas Fault: Implications for Fault Mechanics”  
American Geophysical Union, Spring Meeting, 1993 (co-presenter)

### **Postdoctoral Scholar Supervised**

Sinan Akciz, 2005 (Ph.D. MIT 2004)

### **Graduate Students (School of Social Ecology)**

Miryha M. Gould, M.A. 2004 (chair of committee)

Kelly Pollack, M.A. 2004 (member of committee)

Eldon M. Gath (chair of committee, doctoral candidate)

Tectonic geomorphology of the southern Los Angeles basin  
Eric E. Runnerstrom (chair of committee, doctoral candidate)  
Seismic hazard, risk communication, and mitigation  
Gabriela Noriega (chair of committee, doctoral student)  
UCI Faculty Mentor Program Fellow, AY 2005-2006  
Sarah Becker (member of committee, doctoral candidate)  
Morgan Barrows (doctoral candidate, Acting Advisor, 6/06-12/06)

### **Undergraduate students and mentees**

Christopher Sykes, San Diego State Univ., S.C.E.C. minority undergrad. research intern, 1994  
Carmen von Stein, San Diego State Univ., SCEC undergraduate research intern, 1995  
Leslie Ballenger, Chapman University, 1998  
Daniel Raymond, UC Irvine, S.C.E.C. undergraduate research intern, 2000  
Camille Adler, UC Irvine, Summer Undergraduate Research Program (SURP), 2001  
Dome Hansaward, UC Irvine, spring 2002  
Amethyst Cruspero, UC Irvine, spring 2002-2003  
Courtney Kendrick, Darcy French, Aline der Alexanian and Eric Foley, UC Irvine, winter & spring 2003  
Kristen Iriarte, SCEC undergraduate research intern, College of William and Mary, summer 2003  
Maggie V. Ta, UC Irvine, summer - fall 2003, summer-fall 2004  
Emily Starke, SCEC undergraduate research intern, Univ. Tulsa, summer 2005  
Nicolas Rousseau, SCEC undergraduate research intern, Pasadena City College, summer 2006  
Lorena Medina, UCI undergraduate CAMP student, summer 2006  
Deborah Weiser, SCEC undergraduate research intern, Occidental College, summer 2007

### **Courses Taught:**

UC Irvine:     Natural Disasters  
                  Environmental Geology  
                  Environmental Hydrology  
                  Field Studies  
                  Seminar in Earthquake Geology and Seismic Hazard  
                  Seminar in Paleoseismology  
                  Seminar in Social Ecology (not primary instructor)

Chapman University:  
                  Physical Geology with lab  
                  Environmental Geology with lab  
                  Environmental Hydrology  
                  Introduction to Environmental Science I and II  
                  Environmental Seminar  
                  Environmental Science Careers  
                  Environmental Research  
                  Environmental Internship

### **University Service:**

UC Irvine

Campus

Committee on Courses AY 2002-2003

College of Health Sciences

Chair, Dean's Advisory Committee on Public Health FTE Planning, 2007

School of Social Ecology

Executive Committee, AY 2005-2006, 2003-2004

Geographic Information Systems Ad Hoc Committee, 9/98 - 12/98, AY 2000- 2001

Environmental Analysis and Design Planning and Curriculum Ad Hoc Committee, 2/99 – 8/99

Department of Environmental Health, Science & Policy

Graduate Advisor, AY 2005-2006 (maternity leave fall 2005), AY 2006-2007

Chair, Standing Committee on Curriculum and Teaching 9/00 to 2004

Chair, Standing Committee on Departmental Planning 9/99 to 6/2000

Ad Hoc Committee to Review Requirements for Social Ecology Ph.D. concentration  
in Environmental Analysis and Design, winter 1999

Ad Hoc Committee on Applied Ecology Undergraduate major and Environmental Analysis  
& Design Undergraduate major, 1999 - 2001.

Chapman University

University Standing Committee on Student Standards, 1996-1998