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## Representatives and Authors of the UCERF Study in Los Angeles

**Thomas H. Jordan** is the Director of the Southern California Earthquake Center (SCEC) and the W. M. Keck Professor of Earth Sciences at the University of Southern California, where SCEC is headquartered.

He is responsible for all aspects of SCEC's program, which currently involves over 600 scientists at more than 60 universities and research institutions. He is a member of the California Earthquake Prediction Evaluation Council and the Governing Council of the National Academy of Sciences. He is the author or co-author of approximately 170 scientific publications, including the NAS decadal report, *Living on an Active Earth: Perspectives on Earthquake Science*, and a popular textbook, *Understanding Earth* (5th edition).

He received his Ph.D. from Caltech in 1972 and taught at Princeton University and the Scripps Institution of Oceanography before joining the Massachusetts Institute of Technology as the Robert R. Shrock Professor in 1984. He served as the head of MIT's Department of Earth, Atmospheric and Planetary Sciences for the decade 1988-1998. In 2000, he moved from MIT to USC. He has been awarded the Macelwane and Lehmann Medals of the American Geophysical Union and the Woollard Award of the Geological Society of America. He has been elected to the American Academy of Arts and Sciences, the National Academy of Sciences, and the American Philosophical Society.

**Ned (Edward) Field** is the lead author of the new Uniform California Earthquake Rupture Forecast (WGCEP, 2007). He received his Ph.D. from Columbia University in 1994, and is presently a research geophysicist at the Pasadena office of the U.S. Geological Survey. He is trained in seismology with an expertise in seismic hazard analysis. In addition to leading the present study, Ned has led the development of OpenSHA — the state-of-the-art software for conducting seismic hazard assessments.

**Chris Wills** is a Supervising Engineering Geologist with the California Geological Survey (CGS) in Sacramento. He is responsible for projects that involve seismic hazard estimation, earthquake fault rupture, and geologic mapping.

CGS is dedicated to finding practical application for the latest geological research. As part of those efforts, Chris has contributed to Alquist-Priolo Earthquake Fault Zones and Seismic Hazard Zones maps, where development is regulated due to the earthquake hazards; preparation of landslide maps, evaluation of hazards following major earthquakes and landslides, review of geologic hazards for construction of new school and hospital facilities; and numerous outreach activities to geologic, engineering, and planning professionals and the general public regarding geologic hazards.

Chris received an M.S. degree in Geological Sciences from the University of Wisconsin-Madison in 1984, and a B.S. degree in Geological Sciences from USC in 1981. He is a member of the American Geophysical Union, the Geological Society of America, the Seismological Society of America, the Association of Engineering Geologists and the Earthquake Engineering Research Institute.



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**Karen Felzer** received her B.S. in Geophysics from Stanford University in 1998 and her Ph.D. in geophysics from Harvard University in 2003. She has done postdoctoral fellowships at UCLA and the U.S. Geological Survey and is currently working as a research scientist for the U.S. Geological Survey's Pasadena Office. Karen specializes in the interaction between earthquakes, aftershock triggering, and earthquake catalogs. Her work for the Working Group included comparison of the earthquake model with historical California seismicity and measurements of seismicity rate changes with time throughout the state.

**Ray J. Weldon II** is a Professor of Geological Sciences at the University of Oregon in Eugene, and specializes in the study of active faulting and recurrence of large earthquakes (especially the San Andreas fault) using geological tools. He has been a faculty member since 1987, teaching structural geology, neotectonics, and Quaternary geology. He received his Ph.D. in Geology in 1986 from the California Institute of Technology in Pasadena, his B.A. (cum laude) in Geology from Pomona College in 1977, and received a Presidential Young Investigator Award. He also has worked at JPL in Pasadena, the U.S. Geological Survey (USGS) in Menlo Park, and at Occidental College in Los Angeles.

He is currently on sabbatical at UCLA and serves on the executive committee of the Working Group on California Earthquake Probabilities (that will provide the new earthquake source model for California and the California cornerstone for the next iteration of the USGS's National Seismic Hazard Map). He has served on numerous NSF and USGS Peer Review Panels, and has advised government agencies in Thailand, Kyrgyzstan, and Panama on issues involving seismic hazard.



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## Representatives and Authors of the UCERF Study in Menlo Park

**Tom Parsons** is a research geophysicist with the U. S. Geological Survey in Menlo Park, California and serves as chief of the Coastal and Marine Catastrophic Hazards Project. His research focus is on numerical modeling of crustal deformation, earthquake interactions, and probabilistic forecasting of earthquakes and tsunamis. He received a B. S. degree in Applied Geophysics from UCLA in 1988, and a Ph.D. in Geophysics from Stanford University in 1992. Parsons is Editor-in-Chief of the journal *Tectonophysics*, and has served on three editorial boards for the journal *Geology*. He received the Shoemaker Communication award, and also a National Association of Government Communicators Gold Screen award in 2000. He is a fellow of the Geological Society of America, an Executive Committee member of the Working Group on California Earthquake Probabilities, and serves on the Southern California Earthquake Center (SCEC) planning committee. An active member of the American Geophysical Union, the Seismological Society of America, and the Geological Society of America, he is the author/co-author of more than 70 scientific publications.

**Ross Stein**, a geophysicist at the U.S. Geological Survey, conducts research on how earthquakes interact through the transfer of stress. Examples of such interaction include the progression of mainshocks along a fault, aftershocks, seismic quiescence, and earthquake clustering. He is interested in how one earthquake can promote subsequent shocks at some sites and inhibit them in others. This work is driven by an attempt to deepen the understanding of the physics of earthquakes, and a desire to develop a new way to make probabilistic hazard assessments. Working in places as far away as Turkey, Japan, and France, he receives funding for his work from *NASA*, *FEMA*, *SCEC*, *US AID*, *PG&E* and *Swiss Re*. Stein received his Ph.D. in Geology in 1980 from Stanford University, his Sc.B. Magna Cum Laude and with Honors, in Geology from Brown University in 1975, and served as a Post-Doctoral Fellow at Columbia University, Lamont Doherty Earth Observatory. Over the past several years, he has participated in documentary films, including 'Killer Quake' (NOVA, 1995), 'Great Quakes: Turkey' (Discovery Channel, 2001), 'Earthquake Storms' (BBC, 2003), and an IMAX film, 'Forces of Nature' (National Geographic), which was released in summer 2004.

**Tim Dawson** is an Engineering Geologist with the California Geological Survey (CGS) in Menlo Park. His research experience includes paleoseismic investigations on the Garlock, San Andreas, San Jacinto, and Hayward faults in California, the Denali fault in Alaska, and the North Anatolian fault in Turkey. He has also participated in post-earthquake investigations following the 1999 Izmit and Duzce earthquakes in Turkey, the 1999 Hector Mine earthquake in California, and the 2002 Denali fault earthquake in Alaska. He is currently in the Geologic Mapping Program at the CGS.



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**Tom Brocher**, a senior seismologist at the U.S. Geological Survey, is currently serving as the Coordinator for Earthquake Hazard Investigations in Northern California. After receiving degrees in Geology and Geophysics from the University of Michigan and Princeton University, he worked several years at the Hawaii Institute of Geophysics and Woods Hole Oceanographic Institution. In his over 20-year career at the USGS he has studied earthquake faults throughout the western United States, and recently developed a new seismic hazard model for the Seattle fault zone. His interest in the mitigation of seismic risk led to his participation in the multilingual translation of the popular earthquake preparedness pamphlet, *Putting Down Roots in the San Francisco Bay Area*. He is currently chair of the 1868 Hayward Earthquake Alliance, which seeks to increase public awareness of that earthquake and the hazards posed by the Hayward Fault. Tom was a member of the team which made computer animations of the ground shaking produced by the 1989 Loma Prieta and 1906 San Francisco earthquakes.

**David P. Schwartz** is an earthquake geologist and paleoseismologist with the Western Earthquake Hazards Team, at the U.S. Geological Survey (USGS) in Menlo Park, California. David specializes in the behavior of active faults and their associated seismic hazard. The San Francisco Bay Area is his principal focus but he is also involved in USGS fault hazard investigations throughout the U.S., including the Denali fault, Alaska. He served as the Northern California coordinator for the National Earthquake Hazards Reduction Program (1997-2003), has just completed a term as Chief of the San Francisco Bay Area Earthquake Hazards Project (1997-2007), and co-chaired the Working Group on California Earthquake Probabilities that issued the most recent (2003) Bay Area 30-year earthquake forecast.