

CURRICULUM VITAE

ROBERT REITHERMAN

*Executive Director, Consortium of Universities for Research in Earthquake Engineering
(CUREE)*

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Academic Background

Undergraduate degree: Harvard, Government, cum laude

Graduate degree: University of California at Berkeley, Master of Architecture

Employment

Executive Director, Consortium of Universities for Research in Earthquake Engineering, 1995 to date

Technical Editor, *SEAOC Blue Book: Seismic Design Recommendations* (ongoing series of articles published by the Structural Engineers Association of California), 2006 to date

Principal, The Reitherman Company, 1986-1995; provided earthquake-related and emergency planning consulting services to corporate clients such as Chevron, Syntex, IBM, and Applied Materials, and public sector entities such as Orange County, Los Angeles County, San Mateo County, State of California, and Federal agencies (Federal Emergency Management Agency, National Academy of Sciences)

Scientific Service, Inc., Redwood City, CA, consulting engineering firm; earthquake engineering researcher, 1981-1985

UC Berkeley, Architecture Department; visiting lecturer (instructor of Introduction to Structural Engineering), 1983

Center for Planning and Research, Palo Alto, CA, planning firm; hazards planner and researcher, 1980-1981

Building Systems Development, Inc., San Francisco, CA, architectural firm; architectural designer and research associate (1977-1980)

Community Design Center, Santa Rosa, CA, non-profit architectural organization; architectural intern (1975-1976)

Books and Monographs

Building Configuration And Seismic Design, co-author with Christopher Arnold (New York: John Wiley and Sons, 1982; translated editions in Italian, Spanish, and Russian).

Reducing The Risks Of Nonstructural Earthquake Damage: A Practical Guide : Southern California Earthquake Preparedness Project and California Seismic Safety Commission, 1983; second edition 1985 published also by Bay Area Regional Earthquake Preparedness Project and Federal Emergency Management Agency; 3rd edition, revised (co-author with Cynthia Perry) published by FEMA 1995.

Nonstructural Earthquake Hazards Mitigation For Hospitals, Federal Emergency Management Agency National Emergency Training Center, Emmitsburg, MD, 1986; revised edition 1989.

Nonstructural Earthquake Protection Manual For Schools, Idaho Department Of Education and Idaho Bureau Of Disaster Services, 1991.

Joseph Penzien: Connections, The EERI Oral History Series, interviewer with Stanley Scott. Oakland, CA: Earthquake Engineering Research Institute, 2004.

Robert Park and Thomas Paulay: Connections, The EERI Oral History Series, interviewer. Oakland, CA: Earthquake Engineering Research Institute, 2006, in press.

Papers and Articles

“Earthquake Insurance In California: Problems And Possibilities,” Center For Environmental Design Research, University of California, Berkeley, 1977.

“Equipment” chapter in *Seismic Design Of Police And Fire Stations*, co-author with Christopher Arnold, AIA Research Corporation, 1978.

“Notes On The Nonstructural Features Of The August 6, 1979 Coyote Lake Earthquake,” *Earthquake Engineering Research Institute Newsletter*, November, 1979.

“Insurance Implications Of Multihazard Reductions,” AIA Research Corporation, 1980.

“The Seismic Legend Of The Imperial Hotel,” *AIA Journal*, June 1980.

“Solar Vs. Seismic Design,” *Proceedings Of The Fifth National Passive Solar Conference*, Amherst, MA, 1980.

“Frank Lloyd Wright’s Imperial Hotel: A Seismic Re-evaluation,” *Proceedings Of The Seventh World Conference On Earthquake Engineering*, International Earthquake Engineering Association, Istanbul, 1980.

“Earthquake: What To Do--And Why,” *California Geology*, March 1982.

“Earthquake-Caused Hazardous Material Releases,” *Proceedings Of The 1982 Hazard Material Spill Conference, Milwaukee, WI*, 1982.

“Emergency Planning Fact Sheet: Earthquakes,” “Emergency Planning Fact Sheet: Floods,” “Emergency Planning Fact Sheet: Hurricanes,” “Emergency Planning Fact Sheet: Tornadoes,” “Emergency Planning Fact Sheet: Hazardous Materials,” and “Emergency Planning Fact Sheet: Fires,” Scientific Service, Inc., Redwood City, CA, 1982.

“Preliminary Review Of Earthquake Response Plans,” co-authored with Benjamin Wong, Damage/Engineering Services Committee Of The Governor’s Emergency Task Force On Earthquake Preparedness, 1982.

“Institutional Roles And The Prevention Of Nonstructural Earthquake Damage: Why Knowledge Doesn’t Work,” *Proceedings Of The Workshop On Nonstructural Issues Of Seismic Design And Construction*, Earthquake Engineering Research Institute, 1983.

“Nonstructural Aspects Of Seismic Design: The Role Of The Architect,” *Proceedings Of The Seminar On Earthquake Issues: Present Concerns And Future Roles For Architects* (Italian, abstract in English), Association Of Architects Of Florence And Livorno, Florence, 1983.

Reducing The Risks of Nonstructural Earthquake Damage: A Practical Guide. California Seismic Safety Commission, Sacramento, CA, 1983 (first edition). Second editions (reprints) by the Southern California Earthquake Preparedness Project, Bay Area Regional Earthquake Preparedness Project, and FEMA, 1985; current version 1994 published by Federal Emergency Management Agency and incorporating revisions by Eduardo Fiero, Cynthia Perry, and Sigmund Freeman.

“Protection Of Museum Contents From Earthquakes,” *J. Paul Getty Museum Symposium On Protection Of Art Objects From Damage By Earthquakes*, Santa Monica, CA, January 1984.

- “Performance Of Unreinforced Masonry Buildings,” co-authored with Gregor Cuzner, Gretchen Smith, and T. C. Zsutty, in *Coalinga, California Earthquake Of May 2, 1983*, Earthquake Engineering Research Institute, 1984.
- “Computer-Aided Earthquake Analysis,” *Proceedings Of The Eighth World Conference On Earthquake Engineering*, San Francisco, International Earthquake Engineering Association, 1984.
- “Natural Hazard Vulnerability Survey” co-authored with Gregor Cuzner and Robert Hubenette, in *National Survey Instructions (FEMA TR-84)* for the Federal Emergency Management Agency, 1984 and 1985.
- “Damage To Unreinforced Masonry Buildings At Stanford University In The 1906 Earthquake,” co-authored with Gretchen Smith, Scientific Service, Inc., Redwood City, CA, for the National Science Foundation, 1984.
- “Seismic Damage To Unreinforced Masonry Buildings,” Scientific Service, Inc., Redwood City, CA, for the National Science Foundation, 1984.
- “An Interview With Edward M. O’Connor: Retroactive Earthquake Regulations In Long Beach,” *Building Standards*, International Conference Of Building Officials, September-October, 1984.
- “Ten Principles Of Nonstructural Seismic Design,” *Designing For Earthquakes*, American Institute Of Architects, 1985.
- “Earthquake Engineering And Earthquake Architecture,” *Designing For Earthquakes*, American Institute Of Architects, 1985.
- “A Review Of Earthquake Damage Estimation Methods,” *Earthquake Engineering Research Institute Spectra*, Vol. 1, No. 4, August 1985.
- “Wind Analysis Procedures In The FEMA Multihazard Vulnerability Survey Method,” co-authored with Robert Hubenette, *Proceedings Of The Third National Wind Engineering Conference*, Lubbock, Texas, 1985.
- “Old Masonry Buildings In California Pose Danger,” *Earthquake Information Bulletin (now Earthquakes And Volcanoes)*, Vol. 17, No. 3, May-June 1985.
- “Performance Of Unreinforced Masonry Buildings In Mackay, Idaho,” in *The Borah Peak, Idaho Earthquake Of October 28, 1983*, Earthquake Engineering Research Institute, 1986.
- “Design Guidelines For The Hazard-Resistant Construction Of Telecommunications Facilities,” co-authored with Eric Elsesser, David Friedman, and T.C. Zsutty, Scientific Service, Inc., Redwood City, CA, for the California Office of Emergency Services, 1986.
- “Earthquake Preparedness Workbook,” co/authored with Dennis Church and J. B. Moore, Scientific Service, Inc., Redwood City, CA and The Roanoke Company, Menlo Park, CA, for the Town Of Los Gatos, CA, 1986.
- “Japanese Private Sector Earthquake Programs And Their Applicability In The United States,” 3 vols., co-author with Guna Selvaduray, Scientific Service, Inc., Redwood City, CA, for the National Science Foundation, 1986.
- “How To Prepare A Hospital For An Earthquake,” *Journal Of Emergency Medicine*, Vol. 4, pp. 119-131, 1986.
- “Earthquake Prediction Response Planning In California,” *Proceedings Of The Third U.S. National Conference On Earthquake Engineering*, EERI, 1986.
- “Recent Experience With The Implementation Of Nonstructural Hazard Reduction Programs,” *Proceedings Of The Third U.S. National Conference On Earthquake Engineering*, Earthquake Engineering Research Institute, 1986.

- “Local Government Planning For Post-Earthquake Structural Safety Inspections,” *Proceedings Of Workshop On Post-Earthquake Use Of Engineering Services*, California Specialized Training Institute, California Office Of Emergency Services, 1986.
- “Checklist Of Nonstructural Earthquake Hazards,” Bay Area Regional Earthquake Preparedness Project, Oakland, CA, California Office Of Emergency Services, 1986.
- “Rapid Earthquake Hazard Surveys,” *Proceedings Of The Conference On Earthquake Hazards Reduction In Essential Services Buildings*, Southern California Earthquake Preparedness Project, California Office of Emergency Services, September, 1986.
- “Emergency Planning For Earthquake Predictions,” in *Future Directions In Evaluating Earthquake Hazards Of Southern California*, U.S. Geological Survey Open-File Report 86-401, 1986.
- “A Guide To Establishing An Earthquake Protection Program For Local Government Communications Facilities,” San Mateo Operational Area Office Of Emergency Services, 1987, re-published by the Bay Area Regional Earthquake Preparedness Project, California Office Of Emergency Services, Oakland, CA, 1988.
- “Technical Guidelines For The Earthquake Protection Of Nonstructural Items In Local Government Communications Facilities,” co-authored with Steve Minor, San Mateo Area Office Of Emergency Services, 1987; re-published by the Bay Area Regional Earthquake Preparedness Project, California Office Of Emergency Services, Oakland, CA, 1988.
- “Architectural Aspects Of Seismic Design,” in *Proceedings Of The U.S.-Mexico Earthquake Symposium*, Southern California Earthquake Preparedness Project, California Office Of Emergency Services, Pasadena, CA and the FEMA, 1987.
- “Earthquake And High Tech,” *California CircuiTree*, November, 1987.
- “Whittier Earthquake Of October 1, 1987,” *CESA Communicator*, Vol. 2, No. 4, winter 1987-1988, California Emergency Services Association.
- “Earthquake Loss Estimation Methods,” in *Proceedings Of The Western States Seismic Policy Council Conference*, Idaho Bureau Of Disaster Services, Boise, ID, 1989.
- “Significant Revisions In Model Seismic Code,” *Architecture*, October, 1989.
- “Earthquake Vulnerabilities Of Shelving,” in *Proceedings Of The Conference On Earthquake Preparedness: What Can We Learn From Past Quakes?* Los Angeles Preservation Network, 1989.
- “Current Problems In The Implementation Of Nonstructural Earthquake Hazard Reduction Efforts,” co-author with John Masek, *Proceedings Of The Fourth U.S. National Earthquake Engineering Conference*, 1990.
- “Synthesis of Professional Opinion of Retrofits” chapter and various illustrations, *Seismic Retrofitting Alternatives for San Francisco’s Unreinforced Masonry Buildings: Estimates of Construction Cost and Seismic Damage*, Rutherford & Chekene Consulting Engineers, San Francisco, CA, for the San Francisco Department of City Planning, 1990.
- “A Study Of The Effectiveness Of The Alquist-Priolo Program,” co-authored with David J. Leeds, California Div. Of Mines And Geology Open-File Report 90-18, 1991.
- “The Effectiveness Of California’s Alquist-Priolo Fault Zonation Act,” *Proceedings Of The Fourth International Conference On Seismic Zonation*, Stanford University, 1991.
- “Current Efforts To Improve The Performance Of Nonstructural Systems Based On Experience From The Loma Prieta Earthquake,” in *Proceedings Of The 23rd Joint Meeting Of The U.S.-Japan Cooperative Program In Natural Resources, Wind and Seismic Effects*, National Institute Of Standards And Technology Special Publication 820, 1991.

- Damage to Unreinforced Masonry Buildings in the October 17, 1989 Loma Prieta Earthquake*, (contributing author), by Bret Lizundia et al., for the National Science Foundation. San Francisco, CA: Rutherford & Chekene Consulting Engineers, 1991.
- Recommended Guidelines For Seismic Strengthening Of Existing Buildings, Issues Identification And Resolution*, ed., Applied Technology Council, 1992 (FEMA 237).
- “Nonstructural Approaches Developed After The Loma Prieta Earthquake,” *Proceedings, Tenth World Conference On Earthquake Engineering*, (Madrid, July 1992), Rotterdam: A. A. Balkema Publishers, 1992.
- “The Effectiveness of Fault Zone Regulations in California,” *Spectra*, Vol. 8, No. 1, Feb. 1992.
- “Nonstructural Seismic Hazard Reduction,” *Improving Earthquake Mitigation, Report to Congress*, Federal Emergency Management Agency, 1993.
- “Nonstructural Earthquake Hazards and Nursing Homes,” “Nonstructural Earthquake Hazards and Schools,” “Nonstructural Earthquake Hazards and Child Care Facilities,” brochures, Memphis, TN, Central United States Earthquake Consortium, 1993.
- “A Summary of Unreinforced Masonry Building Damage Patterns in the Loma Prieta Earthquake and Implications for Loss Estimation Methodologies,” Bret Lizundia, Weimin Dong, William T. Holmes, and Robert Reitherman in *The Loma Prieta, California, Earthquake of October 17, 1989 – Building Structures*, US Geological Survey Professional Paper P 1552-C, 1998.
- “Assembling California” (book review), *Earthquake Spectra*, Vol. 9, No. 2, 1993.
- “Protection of Essential Communication Components From Earthquake Damage,” *Proc. 2nd US-Japan Conference on Corporate Earthquake Programs*, Tokyo, Nov. 1993.
- “Performance Quantification Of Nonstructural Components,” *Performance-Based Seismic Design*, UC Berkeley Earthquake Engineering Research Center, for FEMA, 1994.
- “Nonstructural Components,” chapter editor, in *Northridge Earthquake, January 17, 1994, Preliminary Reconnaissance Report*, Earthquake Eng. Research Institute, 1994.
- “Nonstructural Damage,” chapter co-author with Thomas Sabol, in *Northridge Earthquake of January 17, 1994 Reconnaissance Report*, Earthquake Engineering Research Institute, 1995.
- “Hospitals,” “Essential Services Buildings,” “Schools,” “Mobile Homes,” and “Nonstructural Elements” background papers in *A Compendium of Background Reports on the Northridge Earthquake*, California Seismic Safety Commission, 1995.
- “Post-Earthquake Damage Evaluation and Reconstruction,” *Proceedings of the Int’l. Conference on Natural Disaster Management*, Oct. 11-14, 1996, Mérida, Venezuela.
- “The Importance of Corporate Earthquake Programs,” *Proceedings of 3rd US-Japan Conf. on Corporate Earthquake Programs*, San Jose State University, Nov. 5-7, 1996.
- “Contributions of Earthquake Reconnaissance To Improved Understanding Of the Seismic Behavior of Nonstructural Components,” *Proceedings of the ASCE Structures Congress XV*, Portland, Oregon, 1997.
- “Estimation of Earthquake Losses to Buildings,” co-author with Charles Kircher et al., *Spectra*, vol. 13, no. 4, November, 1997.
- “The Need for Improvement in Post-Earthquake Investigations of the Performance of Nonstructural Components,” *Proceedings of Seminar on Seismic Design, Retrofit, and Performance of Nonstructural Components*, San Francisco, California, January 22-23, 1998, Applied Technology Council.
- “Research on Business Recovery After Earthquakes: Needs, Opportunities, and Potential Difficulties,” in *Year One Research Report: Social, Economic, and System Aspects of Earthquake Recovery and Reconstruction*, CUREe-Kajima Joint Research Program Phase III, California Universities for Research in Earthquake Engineering, 1997.

- “Nonstructural Issues That Must Be Resolved If Performance-Based Seismic Design Is To Be Achieved,” co-author with John Gillengerten, *Performance-Based Design Workshop*, Earthquake Engineering Research Institute, July 27-28, 1998, San Diego.
- “Prospecting for the Future: Searching For Trends That Would Change Structural Engineering,” *Proceedings of the 1998 Structural Engineers Association of California Convention*, October 8-10, 1998.
- “Overview of the Northridge Earthquake,” *Proceedings of the NEHRP Conference and Workshop on Research on the Northridge, California Earthquake of January 17, 1994*. Volume I, Overview and Workshop Proceedings. California Universities for Research in Earthquake Engineering, 1998.
- “Using Earthquake Loss Estimates,” US-Japan High-Level Forum on Earthquake Policy, Federal Emergency Management Agency, Seattle, Washington, October 20-22, 1998.
- “Development of Decision Support Tools To Aid the Earthquake Recovery of a Business,” *Proceedings of the Fourth International Conference on Corporate Earthquake Programs*, Shizuoka, Japan, November 11-13, 1998.
- “Book Review: Seismic Design Methodologies for the Next Generation of Codes,” *Earthquake Engineering and Structural Dynamics*, vol. 27, pp. 1559-1562, 1998.
- “Research on Techniques to Improve a Business’s Earthquake Recovery,” *Proceedings of the Sixth US-Japan Workshop on Urban Earthquake Hazard Reduction*, Earthquake Engineering Research Institute, 1999.
- “Application of Technical Information in Hospital Emergency Response and Recovery,” *Proceedings of the Workshop on Seismic Design and Retrofitting of Hospitals in Seismic Areas*, Florence, Italy, October 21-22, 1999, Universita G.D’Annunzio.
- “Individual Hospitals and Regional Medical Resources,” *Proc. of the 2nd International Workshop on Earthquakes and Megacities*, Manila, Philippines, November 30-December 2, 1999.
- “Business Recovery After Earthquakes,” *Proc. of the 2nd International Workshop on Earthquakes and Megacities*, Manila, Philippines, November 30-December 2, 1999.
- “The Earthquake Industry,” *Spectra*, vol. 15, no. 4, November, 1999, pp. 827-833.
- “Engineering Aspects of Surface Fault Rupture,” *Proceedings of the International Symposium and School on Active Faulting*, Hokudan, Japan, January 18-24, 2000.
- “Are Californians Adequately Protected From Earthquakes?” Public Lecture Papers, International Symposium and School on Active Faulting, Kobe, Japan, January 24, 2000.
- “Earthquake Protection for Businesses,” with Guna Selvaduray, Morio Ino, and Steven Vukazich, *Proceedings of the 12th World Conference on Earthquake Engineering*, Auckland, New Zealand, 2000.
- “Earthquake Engineering in the 20th Century,” (poster), 2000, California (now Consortium of) Universities for Research in Earthquake Engineering.
- “The CUREe-Caltech Woodframe Project,” *Structure*, winter 2000, National Council of Structural Engineers Associations.
- “Earthquakes and Other False Hypotheses,” *Journal of Irreproducible Results*, vol. 46, vol. 5-6, September-December, 2001.
- “Use of Experimental Facilities in NEES Collaboratory Research,” co-author with William Holmes, Bruce Kutter, Stephen Mahin, Thomas Prudhomme, Andrei Reinhorn, Bozidar Stojadinovic, Kenneth Stokoe, and Solomon Yim. *Proceedings of the Seventh National Earthquake Engineering Conference (7NCEE)*, Boston, MA, July, 21-25, 2002. Oakland, CA: EERI, 2002.

- “Network for Earthquake Engineering Simulation,” co-author with Paul Bleiweis, William Holmes, Jeremy Isenberg, and Robert Nigbor. *Proceedings of the 2002 Convention of the Structural Engineers Association of California*. Sacramento, CA: Structural Engineers Association of California.
- “The Development of the Network for Earthquake Engineering Simulation,” co-author with Stephen Mahin, Robert Nigbor, Cherri Pancake, and Sharon Wood. *Proceedings of the Structural Engineers World Congress, (SEWC)*, October 9-12, 2002, Yokohama, Japan.
- “Development of the Network for Earthquake Engineering Simulation,” *Proceedings of the Pacific Conference on Earthquake Engineering (PCEE)*, February 13-15, 2003, Christchurch, New Zealand. Christchurch, NZ: Department of Civil Engineering, University of Canterbury, 2003.
- Design Documentation of Woodframe Project Index Buildings*, co-author with Kelly Cobeen, illustrated by Doron Serban (CUREE Woodframe Report W-29). Richmond, CA: Consortium of Universities for Research in Earthquake Engineering (CUREE), 2003.
- “The CUREE-Caltech Woodframe Project,” International Symposium on Earthquake Engineering, Awaji Island, Japan, January 13-16, 2005.
- “Earthquakes in Human History: Book Review,” *EERI Spectra*, vol. 21, no. 4, November 2005.
- “Index Buildings in Earthquake Engineering Research,” *Proceedings of the 8th US National Earthquake Engineering Conference*, San Francisco, April 18-21, 2006.
- “Effects of Significant Earthquakes on the Development of Earthquake Engineering,” New Zealand Society for Earthquake Engineering Annual Conference, March 10-12, 2006, Napier, New Zealand (in press).
- “The Effects of the 1906 Earthquake in California on Research and Education,” *Earthquake Spectra*, vol. 22, T1, April, 2006, theme issue Commemorating the Centennial of the 1906 San Francisco Earthquake (in press).
- “Earthquakes That Have Initiated the Development of Earthquake Engineering,” *Bulletin of the New Zealand Society for Earthquake Engineering*, vol. 39, no. 3, September 2006.
- The CUREE Calendar* for 1995 through 2006, featuring historic earthquakes and captioned earthquake photos 1995-1997 and 1999; 1998 and 2000 editions featuring 12 essays on “Historic Developments in the Evolution of Earthquake Engineering” co-authored with George Housner and James Gere; 2001 edition featuring “Significant Earthquakes in the United States;” 2002 edition including essays on “Network for Earthquake Engineering Simulation;” 2003 edition including essays on “The Anatomy of Seismically Designed Structures;” 2004 edition “The Importance of the Development of Instruments in the History of Earthquake Engineering;” 2005 edition “The Expression of Seismic Design;” 2006 edition, (poster rather than illustrated essay format), “The Expression of Seismic Design.” Richmond, CA: Consortium of Universities for Research in Earthquake Engineering.

Audio-Visual

- “Reducing Nonstructural Earthquake Hazards: A Practical Guide For Schools,” videotape, producer, for the Bay Area Regional Earthquake Preparedness Project, 1986.
- “Signature Of An Earthquake: Whittier, 1987,” videotape, co-producer and co-director, The Reitherman Company, Half Moon Bay, CA, 1987.
- “Nonstructural Earthquake Hazards,” videotape, producer, Southern California Earthquake Preparedness Project (California Office of Emergency Services), 1988.

- “Does Multihazard Disaster Preparedness Really Work?” slide-tape, producer, Scientific Service, Inc., Redwood City, CA, FEMA, 1984.
- “Nonstructural Earthquake Damage,” slide-script, Southern California Earthquake Preparedness Project, California Office of Emergency Services, 1986.
- “Nonstructural Earthquake Hazards Mitigation For Hospitals,” slide-captions, Scientific Service, Inc., Redwood City, CA, FEMA, 1986.
- “Existing Hazardous Buildings,” slide-script, William Spangle and Associates, Portola Valley, CA, for the Bay Area Regional Earthquake Preparedness Project, 1986.
- “Earthquake Protection Of Equipment In Local Government Communications Facilities,” slide-captions, San Mateo Office Of Emergency Services, 1987.
- “Nonstructural Hazards,” slide set with captions, EERI, 1989; revised 1994.
- “Earthquakes and Hospitals” segment, “Earthquake Hazard Mitigation Program,” FEMA-EENET satellite TV broadcast, script-visuals-appearance, 1992.
- “What’s NEES?” multimedia program, 2002; director; graphics Darryl Wong; narration Jill Andrews. Richmond, CA: Consortium of Universities for Research in Earthquake Engineering.

Places Where Lectures Have Been Given

USA: Alaska, California, Colorado, Georgia, Hawaii, Idaho, Kentucky, Louisiana, Maryland, Massachusetts, Missouri, New York, Oregon, Pennsylvania, Tennessee, Utah, Virginia, Washington, Washington D.C., Wisconsin

Other countries: Canada, India, Italy, Japan, Mexico, New Zealand, Philippines, Spain, Venezuela

Teaching Experience

- Instructor with William Holmes and Robert Nason of “Seismic Design Fundamentals,” UC Berkeley Engineering Extension Division, 1981-1983.
- Course developer and instructor, FEMA “Hospitals and Earthquakes” course, and related California version for California Office of Emergency Services and California Hospital Council, 1985-1992
- Visiting Lecturer, UC Berkeley Architecture Department, 1983, “Introduction to Structural Engineering”
- Instructor, “Nonstructural Earthquake Hazards,” half-day courses, Bay Area Regional Earthquake Preparedness Project (BAREPP) and Southern California Earthquake Preparedness Project (SCEPP), 1985-1990.

Review Panels

- Member, Federal Emergency Management Agency Panel of Experts on Earthquake Hazard Mitigation, 1991.
- Member, Federal Emergency Management Agency Urban Wildland Fire Task Force, 1992.
- Member, Federal Emergency Management Agency Panel on the Assessment Of National Earthquake Hazards Reduction Program 1993.
- Member, National Institute of Building Sciences Earthquake Committee overseeing the development of the FEMA-funded HAZUS Loss Estimation Project, 1992-present.
- Member, EarthScope review panel, National Science Foundation, 2004.

Member, Advisory Committee, NEON (National Ecological Observatory Network), Institute for Biological Sciences and National Science Foundation, 2005-present.

Projects Directed as Principal Investigator

Funded by the National Science Foundation: Computer-Aided Earthquake Analysis and Planning for Businesses and Organizations; Seismic Performance of Unreinforced Masonry Buildings; Japanese Private Sector Earthquake Programs and Their Applicability in the United States (co-PI); Northridge Earthquake Research Conference and Workshop; NEES (Network for Earthquake Engineering Simulation) Consortium Development Project; Electronic Encyclopedia of Earthquakes (co-PI); Building A Network Between Civil Engineers and Science Museums.

Funded by FEMA and EERI: The 2005 FEMA-EERI Professional Fellowship, on the topic of "History of Earthquake Engineering From An International Perspective."

February 2006