

## Curriculum Vitae - MONICA D. KOHLER

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### APPOINTMENTS

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|---|--------------|
| Research Assistant Professor, Caltech                         | 2015-present |
| Senior Research Fellow, Caltech                               | 2011-2014    |
| Assistant Researcher, Dept. of Computer Sciences, UCLA        | 2007-2011    |
| Assistant Research Engineer, Dept. of Computer Sciences, UCLA | 2003-2007    |
| Assistant Researcher, Dept. of Earth and Space Sciences, UCLA | 1998-2003    |
| Postdoctoral Researcher, UCLA                                 | 1995-1998    |

### EDUCATION

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|--|------|
| Ph.D., Geophysics, California Institute of Technology                    | 1995 |
| A.B., Geological Sciences ( <i>magna cum laude</i> ), Harvard University | 1988 |

### PROFESSIONAL MEMBERSHIPS

|   |              |
|---|--------------|
| American Geophysical Union  | 1991-present |
| Earthquake Engineering Research Institute (EERI)                          | 2014-present |
| Consortium of Universities for Research in Earthquake Engineering (CUREE) | 2011-2016    |

### PROFESSIONAL SERVICE

|   |              |
|---|--------------|
| IRIS Global Seismic Network (GSN) Standing Committee                      | 2016-present |
| Seismological Society of America 2015 Annual Meeting Planning Committee   | 2014-present |
| IRIS Ocean Bottom Seismometer Instrument Pool (OBSIP) Oversight Committee | 2012-2016    |
| IRIS OBSIP Symposium Steering Committee                                   | 2013, 2015   |
| USGS Multi-Hazards Demonstration Project in Southern California           | 2007         |
| Chair, IRIS Data Management System Standing Committee                     | 2002         |
| Chair, SCEC Borderland Working Group                                      | 2002         |
| Caltech Task Force on Undergraduate Residence Life Initiatives            | 2001         |
| SCEC II Education and Outreach Planning Committee                         | 2001         |
| IRIS Data Management System Standing Committee                            | 1999-2001    |

### AWARDS AND GRANTS

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|--|---|
| JPL Research and Technology Development Fund                           | 2014-present  |
| NSF: EAR-PH, OCE-MG&G, OIA-CDI, Hazards-SEES                           | 1998-2000, 2010-present                               |
| Caltech THOR   | 2014-present  |
| Hewlett-Packard Labs Innovation Research Program                       | 2011-present  |
| SCEC   | 1996-2002, 2006-2007, 2009-2010, 2011-2012, 2014-2015 |
| U.S. Geological Survey NEHRP   | 1999-2001, 2003-2011, 2013-2014                       |
| NSF: Center for Embedded Networked Sensing at UCLA (project scientist) | 2002-2009   |

## **TEACHING EXPERIENCE**

Lecturer, CE 180 “Experimental Methods in Earthquake Engineering” (Caltech) 2009, 2011, 2013  
Lecturer, ME 96 “Mechanical Engineering Laboratory” (Caltech) 2012, 2013  
Lecturer, ESS 8 “Earthquakes” (UCLA) 1995, 2002

## **PEER REVIEWER**

Proposals 1998-present  
National Science Foundation (EAR Geophysics, Tectonophysics, Continental Dynamics, Ocean Sciences, and special programs)  
USGS NEHRP external grant panels  
SCEC internal grant program

Journals 1998-present  
*Earthquake Engineering and Structural Dynamics; Journal of Structural Engineering; IEEE Instrumentation and Measurement Magazine; IEEE Conference on Robotics and Automation; Journal of the American Acoustical Society; Geophysical Journal International; Bulletin of the Seismological Society of America; Geophysical Research Letters; Journal of Geophysical Research; Geology; AGU Monograph.*

## **EXAM COMMITTEE MEMBER FOR:**

Christopher Janover (Ph.D. Final Defense exam, Civil Engineering, Caltech) 2015  
Sampath Rathnayaka (Master’s Thesis exam, Dept. of Geological Sciences, CSU Northridge) 2014  
Ming Hei Cheng (Ph.D. Final Defense exam, Civil Engineering, Caltech) 2014  
Vanessa Heckman (Ph.D. Final Defense exam, Civil Engineering, Caltech) 2013  
Lennin Escobar (Master’s Thesis exam, Dept. of Geological Sciences, CSU Northridge) 2013  
Vanessa Heckman (Ph.D. Candidacy exam, Civil Engineering, Caltech) 2009  
S. Case Bradford (Ph.D. Final Defense exam, Civil Engineering, Caltech) 2006

## **SEISMIC NETWORK/EXPERIMENT MANAGEMENT**

**Co-leader**, lab and field testing of multi-tiered, portable, wireless, MEMS accelerometer network (ShakeNet) for instrumenting civil structures. 2007-2012  
**Chief Scientist**, R/V New Horizon cruise to recover 34 ocean bottom seismometers off the coast of southern California. 2011  
**Chief Scientist**, R/V Melville cruise to deploy 34 ocean bottom seismometers off the coast of southern California. 2010  
**Manager**, operations and maintenance of the 90-channel UCLA Factor building, borehole, and free-field seismic array. 2002-2008  
**Leader**, technical design, operations, data management, and field management of the Los Angeles Region Seismic Experiment II 83-seismometer array. 1998-1999  
**Leader**, technical design, operations, data management, and field management of the Los Angeles Basin Seismic Experiment 18-seismometer array. 1997

Postdoctoral Advisor: Paul M. Davis (UCLA)

Graduate Ph.D. Thesis Advisor: Toshiro Tanimoto (Caltech)

Undergraduate Senior Honors Thesis Advisor: Adam Dziewonski (Harvard University)

## **RESEARCH INTERESTS**

My research takes advantage of recent rapid technological advances in sensor development to develop new observational techniques for detecting failure and deformation, from inside high-rise buildings to hundreds of kilometers below Earth's surface. My work is driven by a vision of a future in which community-enabled sensing will make it possible to conduct robust, real-time monitoring of vibrations of the coupled ground-civil structure system over a city-wide area in order to detect damage and failure events. The goal is to model the 3D structure and dynamic behavior of these systems through analysis of vibration data recorded by dense networks deployed in them. Throughout our studies I am repeatedly reminded of how dense sensor deployments allow us to detect and measure new, often unanticipated, structural and dynamic behavior.

I wear two hats in my research position, one as an earthquake engineer and the other as an observational seismologist. As an earthquake engineer, my work is motivated by the recognition that continued commercial development of high-sensitivity, low-cost sensors is leading to a dramatic expansion in observational vibration monitoring eventually making it possible to image full, time-varying, seismic wavefields in buildings. I extend wave propagation and tomographic methods developed for seismological applications to the instrumented, built environment for detection and location of shaking-induced damage events such as steel beam connection fractures and brace-element connection failures. In earthquake engineering I am developing new techniques to detect damage in buildings using different types of wave propagation responses from vibration sources. I conduct numerical and observational experiments with earthquake, explosion, and ambient vibration waveform data from sensor deployments in existing buildings.

Projects include:

- Structural monitoring through community participation in the Community Seismic Network, involving members of the community who host small, inexpensive seismometers in order to achieve deployments of tens of thousands of sensors in seismically active regions.
- Simulation of building response to damage with small-scale scenarios imposed in finite-element models of existing buildings that also have sensors deployed on multiple floors recording vibration data.
- Development and testing of a high-frequency method of detecting a failure event in buildings that uses the properties of reciprocity and time-reversed reciprocal Greens functions.
- Application of time-domain waveform interferometric techniques for system identification of buildings using earthquake and ambient vibration recordings.
- Development of multi-tiered, portable, wireless accelerometer system for instrumenting large civil structures such as buildings, bridges or dams.

As a seismologist, I am constructing frameworks to describe the geophysical environments that lead to initiation and evolution of young continent-continent collision at transpressional plate boundaries. Observations are provided by the deployment of dense arrays of seismometers in the field and on the seafloor. In both cases, my studies provide new insights into the types of failure and deformation mechanisms that can occur within the brittle-plastic spectrum of these systems, particularly within transition regions.

Projects include:

- Crust and mantle lithosphere 3D seismic tomographic imaging beneath the Pacific-North America plate boundary in southern California using onshore and ocean bottom seismometer data. The goal is to relate plate boundary dynamics to lateral variations in San Andreas fault and other onshore and offshore fault system geometries, and to mantle flow processes.

- Lithospheric 3D seismic tomographic imaging below the Pacific-Australia plate boundary in South Island New Zealand. A related goal is to determine how upper mantle seismicity below the central Southern Alps is associated with uppermost mantle dynamics.
- Tohoku tsunami wave propagation imaging using pressure gauge array data recorded offshore southern California to characterize wave velocity and scattering behavior due to seafloor structure in the Pacific Ocean.

## PEER-REVIEWED JOURNAL/BOOK PUBLICATIONS

(pdfs available from [kohler.caltech.edu/publications/index.html](http://kohler.caltech.edu/publications/index.html))

- Ramsay, J., **M. D. Kohler**, P. M. Davis, X. Wang, W. Holt, D. S. Weeraratne, Anisotropy from SKS splitting across the Pacific-North America plate boundary offshore southern California, *Geophys. J. Int.*, doi: 10.1093/gji/ggw271, 2016.
- Kohler, M. D.**, A. Massari, T. H. Heaton, H. Kanamori, E. Hauksson, R. Guy, R. W. Clayton, J. Bunn, and K. M. Chandy, Downtown Los Angeles 52-story high-rise and free-field response to an oil refinery explosion, *Earthquake Spectra*, doi: <http://dx.doi.org/10.1193/062315EQS101M>, 2016.
- Bowden, D. C., **M. D. Kohler**, V. C. Tsai, and D. S. Weeraratne, Offshore Southern California lithospheric velocity structure from noise cross-correlation functions, *J. Geophys. Res.*, *121*, doi:10.1002/2016JB012919, 2016.
- Clayton, R. W., T. Heaton, **M. Kohler**, M. Chandy, R. Guy, and J. Bunn, Community Seismic Network: a dense array to sense earthquake strong motions, *Seis. Res. Lett.*, *86*, 1354-1363, doi: 10.1785/0220150094, 2015.
- Lin, F.-C., **M. D. Kohler**, P. Lynett, A. Ayca, and D. Weeraratne, The March 11, 2011 Tohoku tsunami wavefront mapping across offshore southern California, *J. Geophys. Res.*, *120*, 3350–3362, doi:10.1002/2014JB011524, 2015.
- Legg, M. R., **M. D. Kohler**, N. Shintaku, and D. S. Weeraratne, High-resolution mapping of two large-scale transpressional fault zones in the California Continental Borderland: Santa Cruz-Catalina Ridge and Ferrello faults, *J. Geophys. Res.*, *120*, 915–942. doi:10.1002/2014JF003322, 2015.
- Reeves, Z., V. Lekic, N. Schmerr, **M. D. Kohler**, and D. Weeraratne, Lithospheric structure across the continental borderland from receiver functions, *Geochemistry, Geophysics, Geosystems*, *15*, 246-266, doi: 10.1002/2014GC005617, 2015.
- Cheng, M. H., **M. D. Kohler**, and T. H. Heaton, Prediction of wave propagation in buildings using data from a single seismometer, *Bull. Seis. Soc. Am.*, *105*, *1*, 107–119, doi: 10.1785/0120140037, 2015.
- Faulkner, M., R. Clayton, T. Heaton, K. M. Chandy, **M. Kohler**, J. Bunn, R. Guy, A. Liu, M. Olson, M. H. Cheng, A. Krause, Community sense and response systems: your phone as quake detector, *Communications of the Association for Computing Machinery (CACM)*, *57*, 66-75, 2014.
- Lawrence, J. F., E. S. Cochran, A. Chung, A. Kaiser, C. M. Christensen, R. Allen, J. W. Baker, B. Fry, T. Heaton, D. Kilb, **M. D. Kohler**, and M. Taufer, Rapid earthquake characterization using MEMS accelerometers and volunteer hosts following the  $M_w$ 7.2 Darfield, New Zealand earthquake, *Bull. Seis. Soc. Am.*, *104*, 184-192, doi:10.1785/0120120196, 2014.
- Fuis, G. S., D. S. Scheirer, V. E. Langenheim, and **M. D. Kohler**, A new perspective on the geometry of the San Andreas fault in southern California and its relationship to lithospheric structure, *Bull. Seis. Soc. Am.* *102*, 236-251, doi:10.1785/0120110041, 2012.
- Clayton, R., T. Heaton, M. Chandy, A. Krause, **M. Kohler**, J. Bunn, R. Guy, M. Olson, M. Faulkner, M. H. Cheng, L. Strand, R. Chandy, D. Obenshain, A. Liu, and M. Aivazis, Community Seismic Network, *Annals of Geophysics*, *54*, *6*; doi: 10.4401/ag-5269, 2011.
- Prieto, G. A., J. F. Lawrence, A. I. Chung, **M. D. Kohler**, Predicting earthquake response of civil structures from ambient noise, *Bull. Seis. Soc. Am.*, *100*, 2322–2328, doi: 10.1785/0120090285, 2010.
- Kohler, M. D.**, T. H. Heaton, and S. C. Bradford, Propagating waves recorded in the steel, moment-frame Factor building during earthquakes, *Bull. Seis. Soc. Am.*, *97*, 1334-1345, doi: 10.1785/0120060148, 2007.
- Davey, F. J., D. Eberhart-Phillips, **M. D. Kohler**, S. Bannister, G. Caldwell, S. Henrys, M. Scherwath, T. Stern, and H. J. A. Van Avendonk, Geophysical structure of the Southern Alps orogen, South Island, New Zealand, in *A Continental Plate Boundary: Tectonics at South Island, New Zealand*, edited by D. Okaya, T. Stern, and F. Davey, American Geophysical Union Monograph, *175*, 47-73, doi: 10.1029/175GM04, 2007.

- Fuis, G. S., **M. D. Kohler**, M. Scherwath, U. ten Brink, H. J. A. Van Avendonk, and J. M. Murphy, A comparison between the transpressional plate boundaries of South Island, New Zealand, and Southern California, USA: the Alpine and San Andreas fault systems, in *A Continental Plate Boundary: Tectonics at South Island, New Zealand*, edited by D. Okaya, T. Stern, and F. Davey, American Geophysical Union Monograph, 175, 307-327, doi: 10.1029/175GM16, 2007.
- Husker, A. L., **M. D. Kohler**, and P. M. Davis, A basin-edge diffraction catastrophe identified in seismic amplitudes measured in the Los Angeles basin, *Bull. Seis. Soc. Am.*, 96, 147-164, 2006.
- Kohler, M. D.**, P. M. Davis, and E. Safak, Earthquake and ambient vibration monitoring of the steel frame UCLA Factor building, *Earthquake Spectra*, 21, 715-736, 2005.
- Kohler, M. D.**, H. Magistrale, and R. W. Clayton, Mantle heterogeneities and the SCEC reference three-dimensional seismic velocity model version 3, *Bull. Seis. Soc. Am.*, 93, 757-774, 2003.
- Fuis, G. S., R. W. Clayton, P. M. Davis, T. Ryberg, W. J. Lutter, D. A. Okaya, E. Hauksson, C. Prodehl, J. M. Murphy, M. L. Benthien, S. A. Baher, **M. D. Kohler**, K. Thygesen, G. Simila, and G. R. Keller, Fault systems of the 1971 San Fernando and 1994 Northridge earthquakes, southern California: Relocated aftershocks and seismic images from LARSE II, *Geology*, 31, 171-174, 2003.
- Kohler, M. D.** and D. Eberhart-Phillips, Intermediate-depth earthquakes in a region of continental convergence: South Island, New Zealand, *Bull. Seis. Soc. Am.*, 93, 85-93, 2003.
- Kohler, M. D.** and D. Eberhart-Phillips, Three-dimensional lithospheric structure below the New Zealand Southern Alps, *J. Geophys. Res.*, 107(B10), 2225, doi:10.1029/2001JB000182, 2002.
- Houseman, G. A., E. A. Neil, and **M. D. Kohler**, Lithospheric instability beneath the Transverse Ranges of California, *J. Geophys. Res.*, 105, 16237-16250, 2000.
- Kohler, M. D.**, Lithospheric deformation beneath the San Gabriel Mountains in the Southern California Transverse Ranges, *J. Geophys. Res.*, 104, 15025-15041, 1999.
- Kohler, M. D.**, Three-dimensional velocity structure of the outermost core from waveform inversion of body waves, *Phys. Earth Plan. Int.*, 101, 85-104, 1997.
- Kohler, M. D.** and P. M. Davis, Crustal thickness variations in Southern California from Los Angeles Region Seismic Experiment passive phase teleseismic travel times, *Bull. Seis. Soc. Am.*, 87, 1330-1344, 1997.
- Kohler, M. D.**, J. E. Vidale, and P. M. Davis, Complex scattering within D" observed on the very dense Los Angeles Region Seismic Experiment passive array, *Geophys. Res. Lett.*, 24, 1855-1858, 1997.
- Fuis, G. S., D. A. Okaya, R. W. Clayton, W. J. Lutter, T. Ryberg, T. M. Brocher, T. M. Henyey, M. L. Benthien, P. M. Davis, J. Mori, R. D. Catchings, U. S. ten Brink, **M. D. Kohler**, K. D. Klitgord, and R. G. Bohannon, Images of crust beneath Southern California will aid study of earthquakes and their effects, *Eos, Trans., Am. Geophys. Union* (article), 77, 173, 1996.
- Kohler, M. D.** and T. Tanimoto, One-layer global inversion for outermost core velocity, *Phys. Earth Plan. Int.*, 72, 173-184, 1992.
- Kohler, M. D.** and D. J. Stevenson, Modeling core fluid motions and the drift of magnetic field patterns at the CMB by use of topography obtained by seismic inversion, *Geophys. Res. Lett.*, 17, 1473-1476, 1990.

## **PEER-REVIEWED CONFERENCE PAPERS AND REPORTS**

(pdfs available from [kohler.caltech.edu/publications/index.html](http://kohler.caltech.edu/publications/index.html))

- Massari, A., **M. Kohler**, R. Clayton, R. Guy, T. Heaton, J. Bunn, K. M. Chandy, and D. Demetri, Dense building instrumentation application for city-wide structural health monitoring and resilience, *16<sup>th</sup> World Conference on Earthquake Engineering (16WCEE)*, Santiago, Chile, January 9-13, 2017.
- Shi, J., **M. D. Kohler**, J. N. Sutton, and J-P Ampuero, Mapping coherent, time-varying wavefronts from the 2011 Tohoku tsunami into enhanced, time-dependent warning messages, *16<sup>th</sup> World Conference on Earthquake Engineering (16WCEE)*, Santiago, Chile, January 9-13, 2017.

- Kohler, M. D.**, S. Hao, N. Mishra, R. Govindan, and R. Nigbor, ShakeNet—A portable wireless sensor network for instrumenting large civil structures: U.S. Geological Survey Open-File Report 2015-1134, 31 pp., <http://dx.doi.org/10.3133/ofr20151134>.
- Kohler, M. D.**, T. H. Heaton, M. H. Cheng, and P. Singh, Structural health monitoring through dense instrumentation by community participants: the Community Seismic Network and Quake-Catcher Network, *10<sup>th</sup> U.S. National Conference on Earthquake Engineering (NC10EE)*, Anchorage, Alaska, July 21-25, 2014.
- Kohler, M. D.**, T. H. Heaton, and M. H. Cheng, The Community Seismic Network and Quake-Catcher Network: enabling structural health monitoring through instrumentation by community participants, *Proceedings of the SPIE Smart Structures/Non-destructive Evaluation Conference*, San Diego, CA, March 10-14, 2013.
- Heckman, V., **M. Kohler**, and T. Heaton, A damage detection method for instrumented civil structures using prerecorded Green's functions and cross-correlation, *Proceedings of the 6th International Workshop on Advanced Smart Materials and Smart Structures Technology, ANCRiSST2011*, Dalian, China, July 25-26, 2011.
- Heckman, V.M., **M. D. Kohler**, and T. H. Heaton, A method to detect structural damage using high-frequency seismograms, *Proceedings of the 8<sup>th</sup> International Conference on Urban Earthquake Engineering (8CUEE)*, Tokyo, Japan, March 7-8, 2011.
- Heckman, V. M., **M. D. Kohler**, and T. H. Heaton, Detecting failure events in buildings: a numerical and experimental analysis, *Proceedings of the 9<sup>th</sup> U.S. National and 10<sup>th</sup> Canadian Conference on Earthquake Engineering (9USN/10CCEE): Reaching Beyond Borders*, Toronto, Canada, July 25-29, 2010.
- Kohler, M. D.**, T. H. Heaton, and V. Heckman, A time-reversed reciprocal method for detecting high-frequency events in civil structures with accelerometer arrays, *Proceedings of the 5<sup>th</sup> International Workshop on Advanced Smart Materials and Smart Structures Technology, ANCRiSST2009*, Boston, MA, July 30-31, 2009.
- Jones, L., R. Bernknopf, S. Cannon, D. A. Cox, L. Gaydos, J. Keeley, **M. Kohler**, H. Lee, D. Ponti, S. Ross, S. Schwarzbach, M. Shulters, A. W. Ward, and A. Wein, Increasing Resiliency to Natural Hazards—A Strategic Plan for the Multi-Hazards Demonstration Project in Southern California: *U.S. Geological Survey Open-File Report, 2007–1255*, 2007.
- Kohler, M. D.**, T. H. Heaton, R. Govindan, P. Davis, and D. Estrin, Using embedded wired and wireless seismic networks in the moment-resisting steel frame Factor building for damage identification, *Proceedings of the 4<sup>th</sup> China-Japan-U.S. Symposium on Structural Control and Monitoring*, Hangzhou, China, Oct. 16-17, 2006.
- Kohler, M. D.**, and B. C. Kerr, Data report for the 1998-1999 Los Angeles Region Seismic Experiment II Passive Array, *U.S. Geological Survey Open-File Report, 02-329*, 105 pp., 2002.
- Kohler, M. D.** and the SCEC Borderland Working Group, SCEC Borderland Working Group Science and Data Collection Objectives (white paper), 19 pp., 2002.
- Baher, S., P. Davis, G. Fuis, J. Rubinstein, **M. Kohler**, S. Persh, A-S. Provost, Earthquake data report for LARSE II – High Resolution, Santa Monica, California, *U.S. Geological Survey Open-File Report, 02-2002*, 2002.
- Kohler, M. D.**, B. C. Kerr, and P. M. Davis, The 1997 Los Angeles Basin Passive Seismic Experiment – a dense, urban seismic array to investigate basin lithospheric structures, *U.S. Geological Survey Open-File Report, 00-148*, 109 pp., 2000.
- Kohler, M. D.**, P. M. Davis, H. Liu, M. Benthien, S. Gao, G. S. Fuis, R. W. Clayton, D. Okaya, and J. Mori, Data Report for the 1993 Los Angeles Region Seismic Experiment (LARSE93), Southern California: a passive study from Seal Beach northeastward through the Mojave Desert, *U.S. Geological Survey Open-File Report, 96-85*, 82 pp., 1996.

## **NON-PEER-REVIEWED PUBLICATIONS**

(pdfs available from [kohler.caltech.edu/publications/index.html](http://kohler.caltech.edu/publications/index.html))

- “Community Seismic Network Detected Air Pulse from Refinery Explosion,” Caltech Press Release (on my Kohler et. al, 2016 Eq. Spectra paper), June 30, 2016. (<https://www.caltech.edu/news/community-seismic-network-detected-air-pulse-refinery-explosion-51197>)
- “Little-Known Quake, Tsunami Hazards Lurk Offshore of Southern California,” AGU Press Release (on my Legg et al., 2015 JGR paper), May 29, 2015.
- Kohler, M. D.**, and Science Party, ALBACORE OBS recovery cruise report, 35 pp., R/V New Horizon Cruise NH1111, September 7-16, 2011.
- Kohler, M. D.**, and Science Party, ALBACORE OBS deployment cruise report, 27 pp., R/V Melville Cruise MV1010, August 14-27, 2010.
- Kohler, M.**, and T. Heaton, The UCLA Factor building seismic array: monitoring structural state of health, *IRIS Newsletter*, August, 2007.
- Heney, T. L., G. S. Fuis, M. L. Benthien, T. R. Burdette, S. A. Christofferson, R. W. Clayton, E. E. Criley, P. M. Davis, J. W. Hendley, **M. D. Kohler**, W. J. Lutter, J. K. McRaney, J. M. Murphy, D. A. Okaya, T. Ryberg, G. W. Simila, and P. H. Stauffer, Understanding earthquake hazards in southern California - the "LARSE" project - working toward a safer future for Los Angeles, *USGS Fact Sheet*, 110-99, 1999.
- Kohler, M. D.**, Los Angeles Basin Passive Seismic Experiment: subsurface imaging in a densely populated urban setting, *SCEC Quarterly*, 4(2), 22-24, 1998.

## **NEWS MEDIA REFERENCES TO MY WORK**

- “Weighing the Risks of a Southern California Tsunami,” (story on my Legg et al., JGR, 2015 paper), CSMonitor.com, June 1, 2015.
- “Author: Seafloor Faults off Southern California Coasts Could be Bigger Threat than San Andreas,” (story on my Legg et al., JGR, 2015 paper), CBSLA.com, June 3, 2015.
- “Monica Kohler Of @Caltech Shares The Recent Community Seismic Network” (twitter video by A. Poulisse, science reporter, *Pasadena Star-News*), <http://www.tout.com/m/mnhayr?ref=twheegn>, January 7, 2014.
- “A Year After Sandy, Research Focuses on the Social Impact of Disasters” (article by A. Bidwell on my recently-funded NSF Hazard SEES tsunami project), *U.S. News*, (online news), October 30, 2013.
- “Caltech Building Is The Epicenter Of Seismological Research” (article by T. Kelly about my work with Caltech’s Millikan Library and the Community Seismic Network), *Pasadena Sun*, December 15, 2012.
- “Fault’s Twists May Shake Up Earthquake Forecasts” (article by D. Powell about my Fuis et al. 2012 BSSA paper – see publications above), *ScienceNews*, April 7, 2012.
- “San Andreas Fault May Look Like A Propeller, Scientists Find” (article by C. Gammon about my Fuis et al. 2012 BSSA paper – see publications above), *Our Amazing Planet*, February 2, 2012.
- “Researchers At Caltech Enlist Public To Help Them Measure Earthquakes Block-By-Block” (article including my work with Community Seismic Network by E. Gallegos) *Pasadena Star-News*, November 22, 2009.
- “State Called Unready For Big Quake” (article by S. Bernstein that references my earthquake engineering work), *Los Angeles Times*, April 21, 2006.
- “The Root Of The Matter” (commentary on my southern California seismic imaging research by M. R. Forrest), *Los Angeles Times Magazine*, p. 11, May 9, 1999.
- “Keeping An Eye On Faults In The Valley” (article on my experimental work by N. Trejos), *Los Angeles Times*, Metro Section, p. B2, January 26, 1999.



“Scientists Go Fishing For Faults: Experiment Aims To Shed More Light On Quake Potential” (an article on my experimental work by A. Bridges), *Pasadena Star News*, pp. A1,A7, October 12, 1998.