Jerry M. Harris

Education

1980 | Ph.D. Electrical Engineering California Institute of Technology

1974 | M.S. Electrical Engineering California Institute of Technology

1973 | B.S. Electrical Engineering University of Mississippi

Professional Experience

2010-present | Associate Dean, Office of Multicultural Affairs, School of Earth Sciences

2007 - 2009 | Associate Dean for Academic Affairs, School of Earth Sciences

2005 - 2010 | Director, Center for Computational Earth & Environmental Science, Stanford University

2000 - 2005 | Chair, Department of Geophysics Stanford University

1998 - Present | Cecil and Ida Green Professor of Geophysics, Stanford University

1995 - 1996 | Petrobras Visiting Professor Universidade Federal Da Bahia, Brasil

1988 - 1998 | Associate Professor, Geophysics Department, Stanford University

1984 - 1988 | Research Geophysicist, Standard Oil Production Company, Dallas, Texas

1980 - 1984 | Senior Research Specialist, Exxon Production Research Company, Houston, Texas

1974 - 1977 | Staff Engineer, Communications Satellite Corporation, Clarksburg, Maryland

Honors & Awards

2008 - Present | Cecil and Ida Green Professor of Geophysics

2002 - 2003 | Distinguished Lecturer, Society of Exploration Geophysicists and American Association of Petroleum Geologists

1998 - 2000 | University Fellow, Stanford

1995 - 1996 | Distinguished Lecturer, Society of Petroleum Engineers

1989 - 1994 | David and Lucille Packard Fellow

1978 - 1980 | Graduate Fellow, Hughes Aircraft Company

University Service

2012-2013 | Leland Scholars Advisory Board

2011 - 2013 | VPUE Selection Committee for SU STEM Fellows

2011 - pres | DARE Mentor

2010 - 2011 | Member University Advisory Board

2007 - 2010 | Member, VPGE DARE Committee

2007 - 2008 | Member, Undergraduate Advisory Council

2007 - 2008 | Member, Committee on Academic Computing and Information Systems

2007 - 2008 | Member, University Committee on Committees

2007 - 2008 | Chair, PhD Oral Examinations: Energy Resources Engineering and Geological and Environmental Sciences

2006 - 2008 | Member, University Faculty Senate

2005 | Chair, PhD Committee, Management Science and Engineering

2003 - 2005 | Chair, SES Committee of Computational Geosciences

2002 - 2004 | Chair, SES Diversity Committee

2000 - 2002 | Member, Committee on Academic Appraisal and Achievement

2000 - 2005 | Chair, Department of Geophysics

2000 - 2001 | Member, Search Committee in Petroleum Engineering

2000 - 2001 | Member, University Search Committee, Director OCR

1999 - Present | Member, Earth Sciences Council

1999 - 2000 | Chair, Ph.D. Oral Examination, Chemistry Dept.

1999 - 2002 | Instructor, Stanford Summer Engineering Academy

1998 - 1999 | Member, Award Review Committee, Stanford Office of Technology and Licensing

1998 - 2000 | Co-Chair, Department Admissions Committee

1998 - 2000 | Member, Faculty Search Committee in Petroleum Engineering

1998 - 1999 | Member, Faculty Search Committee in Geophysics

1998 - 2000 | Freshman Advisor

1997 - 1998 | Coordinator, Department Ph.D. qualification exams

1997 - 1998 | Partners for Academic Excellence, Black Community Services Center

1996 - 2000 | Associate Chair, Department of Geophysics

1988 - Present | Director, Stanford Wave Physics Lab

Professional Activities

2013 | Invited Speaker, AGU Meeting of the Americas, Cancun

2010 | Invited Speaker, NABGG, San Francisco

2011 | Invited Speaker, SIAM Conference on Mathematical and Computational Geosciences

2010 | Invited Speaker, AGU Meeting of the Americas, Iguassu Falls, Brazil

2006 - 2012 | Visiting Committee, Colorado School of Mines

2005 | Invited Speaker, SEG Development and Production Workshop on Seismic Attenuation, Austin, May 2005

2004 - 2006 | Member, DOE Merit Review Committee, NETL

2004 - 2005 | First Vice President, Society of Exploration Geophysicists†

2003 - 2007 | USNC/IUGG U.S. National Committee for Geodesy and Geophysics

2001 - 2003 | Member, National Research Council Committee on Staging Development of Nuclear Waste Repositories

1998 | Invited Speaker, SPE 1998 Archie Conference

1998 | Dept. of Energy Board on Carbon Sequestration

1995 - 2007 | Presidential nominee, MIT Visiting Committee for EAPS

Courses Taught

2013 (Spring) | GP 385S Lectures of Waves (Enrolled 8)

2012 (Spring) | GP 240 Borehole Seismic Profiling (Enrolled 19)

2012 (A, W, S) | GP 185/385S Wave Physics (Enrolled 9)

2011 (Spring) | GP 240 Borehole Seismic Profiling (Enrolled 19)

2011 (A,W,S) | GP 185/385S Wave Physics (Enrolled 12)

2010 (A,W,S) | GP 185/385S Wave Physics (Enrolled 12)

2009 (A,W,S) | GP 185/385S Wave Physics (Enrolled 11)

2008 (A,W,S) | GP 185/385S Wave Physics (Enrolled 9)

2007 (A,W,S) | GP 185/385S Wave Physics (Enrolled 9)

2007 (Winter) | GP 240 Crosswell Seismic Profiling [Enrolled 6]

2006 (A,W,S) | GP 185/385S Wave Physics (Enrolled 12)

2006 (Winter) | GP157 Intro to Computational Earth Sciences [Enrolled 19]

2005 | GEOPHYS 185S/385S Sesmic Tomography` [Enrolled 3]

2005 | GEOPHYS 160 Wave w/Beroza & Claerbout [Enrolled 6]

2004 | GP 120 Frontiers in Geophysics Research [Enrolled 7]

2004 | GP 385S Seismic Tomography [Enrolled 2]

2004 | GP 385S Seismic Tomography [Enrolled 2]

2003 | GP120 Frontiers in Geophysics [Enrolled 0]

2003 | GP190 Applied and Environmental Geophysics [Enrolled 8]

2002 | GP400 Research in Geophysics [Enrolled 17]

2002 | GP240 Borehole Geophysics [Enrolled 9]

2002 | GP385S Seismic Tomography [Enrolled 4]

2002 | GP120 Frontiers in Geophysics (with Nur) [Enrolled 9]

2002 | GP160 Waves (w Beroza and Claerbout) [Enrolled 5]

2002 | GP399 Teaching Experience in Geophysics [Enrolled 1]

2002 | GP255 Report on Energy Industry Trainng [Enrolled 1]

2001 | GP399 Teaching Experience [Enrolled 2]

2001 | GP190 Environmental and Applied Geophysics (w Fraser-Smith) [Enrolled 9]

2001 | GP399 Teaching Experience [Enrolled 1]

2001 | GP160 Waves-Waves Propagation (with Beroza, Claerbout) [Enrolled 10]

2001 | GP400 Research 11 2001 GP185 Seismic Tomography [Enrolled 1]

2001 | GP120 Frontiers of Geophysics [Enrolled 16]

2000 | GP120 Frontiers of Geophysical Research (with Nur) [Enrolled 12]

2000 | GP160 Waves-Waves Propagation (w/Claerbout, Beroza) [Enrolled 9]

2000 | GP255 Energy Industrial Training [Enrolled 1]

2000 | GP385 Seismic Tomography [Enrolled 4]

2000 | GP4400 Research [Enrolled 6]

1999 | GP120 Frontiers of Geophysics Research (with Nur) [Enrolled 13]

1999 | GP160 Waves-Waves Propagation (w/Claerbout, Beroza) [Enrolled 9]

1999 | GP190 Environmental and Applied Geophysics [Enrolled 12]

1999 | GP385 Seismic Tomography [Enrolled 3]

1999 | GP400 Research [Enrolled 5]

1998 | GP400 Research [Enrolled 9]

1998 | GP385 Seismic Tomography [Enrolled 6]

1998 | GP251 Fundamentals of Linear Wave Phenomena [Enrolled 19]

1998 | GP240 Borehole Seismic Tomography [Enrolled 12]

1998 | GP220 Frontiers of Geophysics Research (with Nur) [Enrolled 14]

Publications

2013* | Zhu, T. and Harris J. M., Iterative joint inversion of P-wave and S-wave crosswell traveltime data: 2013, *In preparation*

2013* | Zhu, T., Harris J. M., and Quan Y., Data processing and estimation of pore pressure from time-lapse velocity data in McElroy, West Texas: 2013, *In preparation*

2013* | Zhu, T., and Harris J. M., Delineating reservoir by boundary-preserving regularization

inversion: a case study: 2013, *To be submitted to Geophysics*

2013* | Zhu, Tieyuan, J. M. Harris, A constant-*Q* time-domain wave equation using the fractional Laplacian, Submitted for publication in *Geophysics.*

2013* | Zhu, Tieyuan, J. M. Carcione, and J. M. Harris, Approximating constant-*Q* seismic propagation in the time domain, In press, *Geophysical Prospecting.*

2012* | Zhang, X, Zhang, Z, Xu, T., Bai, Z., and Harris, J.M., Phase shift approximation for the post-critical seismic wave: J. of Geophysics and Engineering, 9(5), 482-493

2012* | Wang, S, J. Zhao,Z. Li Je, J. Harris, and Y. Quan, Differential Acoustic Resonance Spectroscopy for the acoustic measurement of small and irregular samples in the low frequency range, *J. of Geophysical Research*, Vol. 117, 13 pp.

2012* | Um, E.,D. Alumbaugh, J. Harris, and J. Chen, Numerical Modeling Analysis of Short-Offset Electric-Field Measurements with a Vertical Electric Dipole Source in Complex Offshore Environments, *Geophysics, Vol. 77, No. 5, (September-October), P. E329-E341*.

2012* | Um, E., J. Harris, and D. Alumbaugh, An Iterative Finite-Element Time-Domain Method for Simulating 3D Electromagnetic Diffusion in Earth, *Geophysical Journal International, Volume 190, issue 2 (August), p. 871-886.*

2012 * | Um, E., D. Alumbaugh, and J. Harris, A Lorenz-Gauge Finite-Element Formulation for Transient Controlled-Source Electromagnetic Modeling, Submitted to *JGR*.

2012 * | Arogunmati, A. and M. J., Harris, An effective crosswell traveltime estimation approach for quasi-continuous reservoir monitoring*, Geophysics **77**, 17-26*

2011 | S. Zarantonello, B. Smithson, Y. Quan, and J. Harris, Super resolution of time-lapse seismic images, presented at the SPIE Conference of Defense, Security & Sensing, Baltimore.

2011 | T. Zhu and J. Harris, Iterative joint inversion of P-wave and S-wave crosswell traveltime data, Extended Abstract submitted to SEG Annual Meeting.

2011 | A. Arogunmati and J. Harris, Reservoir monitoring with True4D surface seismic data, Extended Abstract submitted to SEG Annual Meeting.

2011 | Y. Quan, Zhu, T., Harris, J., Burnstad, R., and Zarantonello, S., Image integration with learned dictionaries and application to seismic monitoring, Extended Abstract submitted to SEG Annual Meeting

2010 * | Um E., J. Harris and D. Alumbaugh, 3-D time-domain simulation of electromagnetic diffusion phenomena: a finite-element electric-field approach, Geophysics, July/August, 2010

2010 | Arogunmati, A. and M. J., Harris, 2010, A data-estimation based approach for quasi-continuous reservoir monitoring using sparse surface seismic data: 72nd EAGE Conference & Exhibition, Extended Abstracts.

2010 * | Bouko Vogelaar, David Smeulders, and Jerry Harris. Exact Expression for the Effective Acoustics of Patchy Saturated Rocks, Geophysics, July/August, 2010.

2009 | Youli Quan and Jerry Harris. Stochastic Seismic Inversion using both Waveform Data and Its Application to Time-Lapse Monitoring. Published 2009 SEG Las Vegas Annual Meeting.

2009 | Um E., J. Harris and D. Alumbaugh, a finite element algorithm for 3-D transient electromagnetic modeling, 2009, SEG Expanded Abstract.

2009 | Arogunmati, A. and M. J., Harris, 2009, An approach for quasi-continuous time-lapse seismic monitoring with sparse data: 79th Annual Meeting and International Exposition, SEG,

Expanded Abstracts.

2009 | Bouko Vogelaar, David Smeulders, and Jerry Harris. Experimental evidence of the relation between the Biot-Gassmann modulus and the bulk modulus measured by DARS (Differential Acoustic Resonance Spectroscopy) of oil-saturated rocks, 2009, SEG International Exposition and Annual Meeting, 2189-2193

2008 | Santos, Eduardo T. F. and Jerry M. Harris, DynaSIRT: A Robust Dynamic Imaging Method Applied to CO2 Sequestration Monitoring, submittted to SEG Extended Abstracts 28 (2008).

2008 | Youli Quan and Jerry M. Harris. Stochastic Seismic Inversion using both Waveform and Traveltime Data and Its Application to Time-lapse Monitoring. SEG Expanded Abstracts 27, 1915. 2008 Differential Acoustic Resonance Spectroscopy (DARS) Measurements, 2008, Bouko Vogelaar, David Smeulders, and Jerry Harris, 70th EAGE Conference & Exhibition, I038.

2007 * | Santos, E.T.F., Bassrei, A., Harris, J., The generalized cross validation method for the selection of regularization parameter in geophysical diffraction tomography, J. Acoustical Society of America, July 2007.

2007 * | Hu, H., W. Guan, and J. M. Harris, Theoretical simulation of electroacoustic borehole logging in fluid-saturated porous formations, J. Acoustical Society of America, 122 (1), July, 135-145.

2007 * | Ajo-Franklin, J. B., J. T. Geller, and J. M Harris (2007), Ultrasonic properties of granular media saturated with DNAPL/water mixtures, Geophys. Res. Lett., 34, L07404, doi:10.1029/2006GL029200.

2007 | Santos, Eduardo T. F. and Harris, Jerry M., Time-lapse diffraction tomography for trigonal meshes with temporal data Integration applied to CO2 sequestration monitoring, SEG Extended Abstracts 26, 2959 (2007).

2007 | Santos, E.T.F. Bassrei, A, and J. Harris. The generalized cross validation method for the selection of regularization parameter in geophysical diffraction tomography, JASA, July, 2007.

2007 | Santos, E.T.F., Harris, J., Bassrei, A., Costa, J.C.,. Regularized diffraction tomography for trigonal meshes applied to reservoir monitoring. Congresso Internacional da Sociedade Brasileira de Geofísica. Rio de Janeiro : Sociedade Brasileira de Geofísica, 2007. v. único.

2006 | Chuntang Xu, Jerry M. Harris, and Youli Quan, Estimating flow properties of porous media with a model for dynamic diffusion, 76th Annual Internat. Mtg: Soc. of Expl. Geophys, 2006

2006 * | Ajo-Franklin, J.B., Urban, J.A., and Harris, J.M., Using resolution-constrained adaptive meshes for traveltime tomography, Journal of Seismic Exploration, 14: 371-392

2006 * | Ajo-Franklin, Jonathan B., Jil T. Geller, Jerry M. Harris, A survey of the geophysical properties of cholorinated DNAPLS, J. of Appl;ied Geophysics, Volume 59, Issue 3, July 2006, Pages 177-189.

2006 | Xu, Chuntang, Harris, Jerry M. and Youli Quan, Estimating flow properties of porous media with a model for dynamic diffusion, SEG Expanded Abstracts 25, 1831 (2006)

2005 * | Wu, C., Harris, J.M., Nihei, K.T., Nakagawa, S., 2-D finite-difference seismic modeling of an open fluid-filled fracture: comparison of thin-layer and linear-slip models, Geophysics, Vol. 70, T57-T72.

2005 | Harris, J.M., Youli Quan and Chuntang Xu, Differential Acoustic Resonance Spectroscopy: An experimental method for estimating acoustic attenuation in porous media,

SEG Expanded Abstracts 24, 1569 (2005).

2005 | Ajo-Franklin, Jonathan B., Urban, Jaime and Jerry M. Harris, Temporal integration of seismic traveltime tomography,SEG Expanded Abstracts 24, 2468 (2005).

2004 * | Wu, Chunling and J.M. Harris, An optimized variable-grid finite-difference method for seismic forward modeling, Journal of Seismic Exploration, 12, 343-353.

2004 * | Wu, C., Harris, J.M., 2004, Cross-well seismic modeling with inclusion of tube waves and tube-wave-related arrivals, Geophys. Res. Lett., Vol. 31, No. 11, L11606.

2004 * | Ajo-Franklin, J.T. Geller, and J.M. Harris, The dielectric properties of granular media saturated with DNAPL/water mixtures, Geophysical Research Letters, 31, 2004.

2004 * | Wu, C., Harris, J.M., An optimized variable-grid finite-difference method for seismic forward modeling, Journal of Seismic Exploration, Vol. 12, 343-353.

2004 | Wu, C., Harris, J.M., Daley, T.M., Majer, E.L., San Juan single-well seismic data analysis and modeling study, 74th Ann. Internat. Mtg., Soc. Expl. Geophys.

2004 | Wu, C., Harris, J.M., Daley, T.M., Majer, E.L., San Juan single-well seismic data analysis and modeling study,SEG Expanded Abstracts 23, 342 (2004).

2004 | Akintunde, Olusoga M., Harris, Jerry M. and Youli Quan. Cross-well seismic monitoring of Coal Bed Methane (CBM) production: A case study from the Powder River Basin of Wyoming, SEG Expanded Abstracts 23, 2307 (2004).

2004 * | Pride, S. R., J. G. Berryman, and J. M. Harris, Seismic attenuation due to waveinduced flow: Journal of Geophysical Research, 109, B01201.01–B01201.19.

2003 * | Day-lewis, F, J.M. Harris,and S. Gorelick, Time-lapse inversion of crosswell radar data, Geophysics, Vol. 67, no. 6, November-December; p. 1740-1752.

2003 * | Day-Lewis, J.W. Lane, J.M. Harris, and S.M. Gorelick, Time-lapse imaging of saline-tracer transport in fractured rock using difference-attenuation radar tomography, Water Resources Research, Vol. 39, No. 10, 1290

2003 * | Pride, S.R., J.M. Harris, D. Johnson, A. Mateeva, K. Nehei, R. Nowack, J. Rector, H. Spetzler, R. Wu, T. Yamamoto, J. Berryman, M. Fehler, Permeability dependence of seismic amplitudes, The Leading Edge of Geophysics, p. 518-525, June 2003

2003 * | Zhang, Z., G. Lin, J. Chen, J.M. Harris, and L. Han, Inversion for elliptically anisotropic velocity using VSP reflection traveltimes, Geophysical Prospecting, 2003, 51, 159-166

2003 | Ajo-Franklin, J.B., Geller, J.T., Majer, E.L., Peterson, J.E., Williams, K., Harris,J.M. Preliminary Characterization of a NAPL-Contaminated Site using Borehole Geophysical Techniques, 2003, Symp. App. Geop. Envi. Eng. Prob. (SAGEEP), EEGS

2003 | Wu, Chunling and Harris, Jerry M., Borehole seismic modeling with inclusion of tube waves and other tube-wave-related arrivals, SEG Expanded Abstracts 22, 2239 (2003).

2002 * | Day-Lewis, Harris, J.M. and Gorelick, S.M., Time-lapse inversion of crosswell radar data, Geophysics, Vol 67, No 6., p. 1740-1752

2002 | Harris, Jerry M., Technology is important, The Recorder, Canadian Society of Exploration Geophysicists, Vol 27, December, 2002, p. 12-18

2002 * | Mo, L.W. and Harris, J.M., Finite-difference calculation of direct-arrival traveltimes using the eikonal equation, Geophysics, Vol. 67, No. 4, p. 1270-1274

2002 | Wu, C., Harris, J.M. and and K. T. Nihei, 2D finite-difference seismic modeling for a single fluid-filled fracture: comparison of thin-layer and linear-slip models, SEG Expanded Abstracts 21, 1959 (2002).

2002 | Wu, C., Harris, J., and Franklin, J.B., Single-well seismic modeling in viscoelastic media using a variable-grid finite-difference method, 2001, 71 st Ann. Internat. Mtg: Soc. of Expl. Geophys. (SEG), pp. 1155-1158.

2001 * | Franklin, J. and J. M. Harris, A high-order fast marching scheme for the linearized eikonal equation, J. of Computational Acoustics, Vol. 9, No. 3, pp. 1095-1109

2001 | Wu, C., Harris, J.M. and J. Franklin, Single-well seismic modeling in viscoelastic media using a variable-grid finite-difference method, SEG Expanded Abstracts 20, 1155 (2001)

2000 * | Wawersik, W., J.W. Rudicki, P. Dove, J.M. Harris, J.M. Logan, L. Pyrak-Nolte, F.M. Orr, P.J. Ortoleva, F. Richter, N. Warpinski, J. Wilson, and T. Wong. Terrestrial sequestration of CO2: an assessment of research needs. Advances in Geophysics, v. 43, pp. 97-177.

2000 * | Hyndman, D., Harris, J.M. and S.M. Gorelick, Inferring the relation between seismic slowness and hydraulic conductivity in heterogeneous aquifers. Water Resources Research, v. 36, no. 8, pp. 2121-2132.

2000 | Daley, Thomas M., Majer, Ernest L, Gritto, Roland and Jerry M. Harris, Progress and issues in single well seismic imaging, SEG Expanded Abstracts 19, 1552 (2000).

1999 * | Zhang, Z., G. Wang, and J.M. Harris. Multi-component wavefield simulations in extensively dilatancy anisotropic media. Physics of the Earth and Planetary Interiors, v. 114, pp. 25-38.

1999 | Pal, Arpita, Phan, Vinh and Jerry M. Harris, A model study for the effects of flow on seismic signatures, SEG Expanded Abstracts 18, 1040 (1999)

1998 | deRoque, Fernando, Harris, Jerry M. and Marco A. Barsotelli Botelho, Amplitude vs. Angle — Influence of petrophysical parameters in porous media, SEG Expanded Abstracts 17, 898 (1998).

1998 | Wang, Guan Y., Harris, Jerry M., Magalhaes, Claudia G., Julander, Dale, and Mike Morea, Buena Vista Hills 3-D attenuation and velocity tomography, SEG Expanded Abstracts 17, 346 (1998).

1998 | Wu, Xianyun and Harris, erry M., Seismic wave modeling in Poroelastic media using the generalized relfection/transmission(R/T) coefficients method, SEG Expanded Abstracts 17, 1799 (1998).

1996 | Quan, Youli, Chen, Xiaofei and Jerry M. Harris, Elastic waves in complex radially symmetric media, SEG Expanded Abstracts 15, 1995 (1996).

1996 | Harris, Jerry M., Yin, Feng and Youli Quan, Enhanced oil recovery monitoring using P-wave attenuation, SEG Expanded Abstracts 15, 1882 (1996).

1996 | Harris, Jerry M., Langan, Robert T., Fasnacht, Timothy, Melton, Danny, Smith, Bracken Sinton, John, and Henry Tan, Experimental verification of seismic monitoring of CO2 injection in carbonate reservoirs,SEG Expanded Abstracts 15, 1870 (1996).

(Submitted) * | Wang, Shangxu, Y. Quan and J. Harris, DARS based acoustic properties measurements of small and irregular samples at low frequencies, submitted to the J. Acoustical Society of America.

1969 | Um, Evan, J. Harris and D. Alumbaugh. A finite element algorithm for 3D transient electromagnetic modeling, 2009. Submitted to International Association of Mathematical

Geology Annual meeting, August.

Advisee Degrees

2011 | Adeyemi Arogunmati, A Data-Estimation-Based Approach for Quasi-Continuous Seismic Reservoir Monitoring (British Petroleum)

2011 | Evan S. Um, Three-Dimensional Finite-Element Time-domain Modeling of the Marine Controlled Source Electromagnetics Method (Lawrence National Laboratory)

2008 | Tope Akinbehinje: Influence of Cleat Porosity and Water on Injectivity and Storage of CO2 in Coal of the PRB, M.S. (Schlumberger)

2007 | Chuntang Xu: Estimation of Effective Compressibility and Permeability of Porous Materials with Differential Acoustic Resonance Spectroscopy, Ph.D. (Schlumberger)

2005 | Chunling Wu: Numerical modeling in complex media, Ph.D. (Chevron)

2005 | Jonathan Ajo-Franklin: The evaluation of seismic and radar methods for the detection of DNAPLS, Ph.D. (LBNL)

2005 | Olusoga Martins Akintude: Seismic monitoring of CBM production, M.S. (WesternGeco, Schlumberger)

2003 | David Wynn: Subsurface Monitoring for Carbon Sequestration, M.S. (Newmont Mining)

2001 | Ricardo Castellani: Incorporation of Seismic Intermediate Scale Data for Improving Reservoir Modeling, Ph.D. (Petrobras, Brazil)

2001 | Erminia Mallia-Zarb: Simulation of seismic attenuation in porous media, M.S. (GeoTrace Corp., England)

2000 | Erminia Mallia-Zarb: Attenuation anisotropy in layered media, M.S. (Geoquest Corp., Houston, Texas)

2000 | Arpita Pal: Flow and time-lapse seismic modeling, M.S. (Geographic Information Technology, Inc., Denver, Colorado)

1998 | Nicholas Smalley: A new CDP coordinate system for the sorting, velocity analysis, and imaging of crosswell reflection data, Ph.D. (Lockheed Systems,Mountain View, California)

1998 | Le-Wei Mo: Migration of cross-well seismic and VSP data, Ph.D. (Fairfield Industries, Houston, Texas)

Advisee Publications

2004 | Coates, R.T., Wu, C., Eisner, L., 2004, Including tubewave effects in seismic wave simulations, 66th Mtg.: Eur. Assn. Geosci. Eng., 311.

2003 | Geller, J.T., Ajo-Franklin, J.B., and Majer, E.L. Effect of Immiscible Liquids on P-wave Transmission Through Natural Aquifer Samples, 2003, Symp. App. Geop. Envi. Eng. Prob. (SAGEEP), EEGS

2002 | Geller, J.T., Peterson, J.E., Williams, K.H., Ajo-Franklin, J.B., and Majer, E.L. First Field Test of NAPL Detection with High Resolution Borehole Seismic Imaging, 9th Biennial Intl. Conf. on Nuclear and Haz. Waste Management

2000 * | Cruz, J.C.R, Urban, J., Garabito, G., 2000, Numerical analysis of 2.5-D true-amplitude diffraction stack migration. Journal of Applied Geophysics, 45, 83-96

1997 | Franklin, J.B. Minimum traveltime calculations in anisotropic media using graph theory, 67 th Ann. Internat. Mtg: Soc. of Expl. Geophys (SEG), pp. 1517-1520

News & Media