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EDUCATION

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Dissertation: "*Physical Model Studies of Seismically Induced Deformations in Slopes*"
- M.Eng. University of California, Berkeley, Civil Engineering, 1996
Minors: Geology and Construction Management
Thesis: "*A Laboratory Study of the Effects of Fly Ash on the Geotechnical Properties of a Soft Clay*"
- M.S. University of California, Berkeley, Civil Engineering, 1996
- B.C.E. Villanova University, Civil Engineering, 1990

PROFESSIONAL POSITIONS

- Associate Professor of Civil and Environmental Engineering 2010 to current
University of Washington, Seattle, Washington
- Associate Professor of Civil, Architectural and Environmental Engineering 2006 to 2010
Drexel University, Philadelphia, Pennsylvania
- Assistant Professor of Civil, Architectural and Environmental Engineering 2000 to 2006
Drexel University, Philadelphia, Pennsylvania
- Project Manager 1999 to 2000
Golder Associates, Inc., Oakland, California
- Graduate Student Researcher/Graduate Student Instructor 1995 to 1999
University of California, Berkeley, California
- Associate Project Engineer 1990-1994
Weston Solutions, West Chester, Pennsylvania

VISITING APPOINTMENTS

- Visiting Science Fellow 2013
Institute of Geological and Nuclear Sciences, New Zealand
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Universidad Politècnica de Catalunya, Barcelona, Spain

AWARDS AND HONORS

Commendation, (as International Expert to *Port Hills Response Group*), New Zealand Society of Earthquake Engineering, 2014
Visiting Scientist Fellowship, Institute of Geological and Nuclear Sciences, New Zealand, 2013
Prakash Research Award, Shamsheer Prakash Foundation, 2011
Frontiers of Engineering selectee, National Academy of Engineers, 2011
Henry Roy Berg Endowed Professorship in Engineering, University of Washington, 2010 to 2015
Geotechnical Engineer of the Year, American Society of Civil Engineers, Philadelphia Section, 2007
John J. Gallen Memorial Award for Technical Advancements, Villanova University, 2005
National Science Foundation Faculty Early Career Development (CAREER) Award, 2002
Sigma Xi Scientific Research Society, 2002 to current
Outstanding Graduate Student Instructor Award, University of California, Berkeley, 1999
Jane Lewis Fellowship, University of California, Berkeley, 1994
College of Engineering Award for Meritorious Service, Villanova University, 1990
Chi Epsilon Civil Engineering Honor Society, 1989 to current

PROFESSIONAL LICENSURE

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PUBLICATIONS

Journals

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- Malasavage, N. and Wartman, J. (2008) "Spatial Analysis of Damage Distribution in the 2001 Southern Peru Earthquake," *Proc., Geotechnical Earthquake Engineering and Soil Dynamics IV*, Sacramento, Calif., May 18-22
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Seed, R., Bea, R., Athanasopoulos, A., Boutwell, G., Bray, Cheung, C., Collins, B., Cobos-Roa, D., Cohen-Waeber, L., Harder, L., Kayen, R., Moss, R., Pestana, J., Porter, J., Riemer, M., Rogers, J., Storesund, R., Vera-Grunauer, X., and Wartman, J. (2007) "Investigation of Levee Performance in Hurricane Katrina: The New Orleans Drainage Canals," *Embankments, Dams, and Slopes*, ASCE GSP 161, Part of *Proc., GeoDenver: New Peaks in Geotechnics*, Denver, February 18-21

Cleveland, L. and Wartman, J. (2006) "Principles and Application of Digital Photogrammetry for Geotechnical Engineering," *Proc., GeoShanghai International Conference*, Shanghai, China, June 6-8

Nasim, A. S. M. and Wartman, J. (2006) "Fully Coupled Modeling of Seismic Compression," *Proc., Fourth International FLAC Symposium*, Madrid, May 29-31

- Grubb, D. G., Carnivale, M. Wartman, J., and Gallagher, P. (2006) "Select Engineering Properties of Crushed Glass-Dredged Material (CG-DM) Blends," *Proc., ISSMGE: 5th International Congress on Environmental Geotechnics*, Cardiff, Wales, UK, June 26-30
- Cortez-Flores, A., Rodriguez-Marek, A., and Wartman, J. (2005). "Failure Mechanisms Observed in Highway Infrastructure During the 2001 Southern Peru Earthquake." *Proc., Second Pan-American Congress on Integrated Transportation*, Tarija, Bolivia (In Spanish)
- Wartman, J., Harmanos, D., and Ibanez, P. (2005) "Development of a Versatile Device for Measuring the Tensile Properties of Geosynthetics," in *Proc., 18th Geosynthetic Research Institute Conference*, Austin, Texas, January
- Wartman, J., Grubb, D. G., and Strenk, P. (2004) "Engineering Properties of Crushed Glass-Soil Blends," *Geotechnical Engineering for Transportation Projects: Proceedings of Geo-Trans 2004*, July 27-31.
- Wartman, J., Rodriguez-Marek, A., Keefer, D., Deaton, S., Repetto, P. and Macari, E. (2004) "Preliminary Geotechnical Engineering Observations of the Tecoman, Mexico Earthquake of January 21, 2003," *Proc. of Fifth Intl. Conf. on Case Histories in Geotechnical Engineering*, New York, April 13-17
- Rodriguez-Marek, A., Wartman, J., Repetto, P. and Williams, J. (2004) "Observations of Site Amplification and Liquefaction in the June 23, 2001, Southern Peru Earthquake," *Proc. of Fifth Intl. Conf. on Case Histories in Geotechnical Engineering*, New York, April 13-17
- Rodriguez-Marek, A. and Wartman, J. (2004) "Characteristics of Strong Ground Motion Recorded During the 2003 Tecoman, Mexico, Earthquake," *Proc., 11th Intl. Conf. on Soil Dyn. and Earthquake Engineering*, Berkeley, Calif., January 7-9
- Wartman, J. and Reimer, M. F., (2002) "The Use of Fly Ash to Alter the Geotechnical Properties of Artificial "Model" Clay," *Proc., International Conference on Physical Modeling in Geotechnics*, St. John's, Canada, July 10-12
- Wartman, J., Bray, J.D. and Seed, R. B. (2001) "Shaking Table Experiment of a Slope Subjected to Two Ground Motions," *Proc, Forth Intl. Conf. on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics*, San Diego, California, March 14-16
- Wartman, J., Vahdani, S., and Liang, H. S. (2001) "Seismic Soil Structure Interaction Analyses for an Office Building in Oakland, California," *Proc, Forth Intl. Conf. on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics*, San Diego, California, March 14-16
- Wartman, J., Seed, R. B., Bray, J. D., Riemer, M. F., and Rathje, E. M. (1999) "Laboratory Evaluation of the Newmark Method for Assessing Seismically-Induced Slope Deformations," *Proc., Second International Conference on Earthquake Geotechnical Engineering*, Lisbon, Portugal, June 21-25
- Wartman, J., Riemer, M. F., Bray, J. D., and Seed, R. B. (1998) "Newmark Analyses of a Shaking Table Slope Stability Experiment," *Proc., Geotechnical Earthquake Engineering and Soil Dynamics III*, Seattle, August 3-6
- Riemer, M. F., Gookin, W. B., Bray, J. D., and Wartman, J. (1998) "Using Reflected Shear Waves to Measure Small Strain Dynamic Properties," *Proc., Fifth Caltrans Seismic Research Workshop*, California Dept of Transportation, Sacramento, Calif., June 16-18

Wartman, J., Rathje, E. M., Bray, J. D., Riemer, M. F. and Seed, R. B. (1998) "Shaking Table-Based Evaluation of the Newmark Procedure for Estimating Seismically Induced Slope Deformations," *Proc., Fifth Caltrans Seismic Research Workshop*, California Dept of Transportation, Sacramento, Calif., June 16-18

Books

Wartman, J. and Malasavage, N. E. (2010) "Spatial Analysis for Identifying Urban Damage Patterns," Chapter in *Methods and Techniques in Urban Engineering*, I-Tech Publishing, ISBN 9789533070964

Porbaha, A., Shen, S.-L., Wartman, J. and Chai, J.-C., eds. (2006) *Ground Modification and Seismic Mitigation*, ASCE Press, Reston, Virginia, ISBN 0784408645

Aydilek, A. and Wartman, J., eds. (2005) *Recycled Material in Geotechnics*, ASCE Press, Reston, Virginia, ISBN 0784407568

Published Abstracts

Motley, M.R., Olsen, M.J., Massey, C., Wartman, J., and Barber, R.B. (2015) "Structural Resilient to Post-Earthquake Rockfall Impacts in Christchurch, New Zealand", Abstract 584 presented via poster at 2015 Structures Congress, Portland, OR, 23-25 Apr.

Pradel, D., Wartman, J. and Tiwari, B. (2015) "Seismic performance of levees in the Kanto Plains North of Tokyo during the 2011 Tohoku Earthquake," Abstract presented at 2015 Annual Association of State Dam Safety Officials, New Orleans, 13-18 September.

Gibson, M., Wartman, J., Keefer, D., Maclaughlin, M., Arnold, L., Applegate, K., Smith, S., Adams, S. (2013) 'Predicting Modes and Displacements of Seismic Rock Slope Failures,' Abstract NH14A-03 presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.

Applegate, K. N., Wartman, J., Keefer, D. K., MacLaughlin, M., Adams, S., Arnold, L., Gibson, M., Smith, S. (2013) 'NEESROCK: A Physical and Numerical Modeling Investigation of Seismically Induced Rock-Slope Failure,' Abstract NH23A-1529 presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.

Arnold, L., Applegate, K., Gibson, M., Wartman, J., Adams, S., Maclaughlin, M., Smith, S., Keefer, D. (2013) "Seismic response of rock slopes: Numerical investigations on the role of internal structure," Abstract NH23A-1527 presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.

Smith, S.E., S.L. Adams, M.M. MacLaughlin, K. Applegate, L. Arnold, M. Gibson, J. Wartman, and D. Keefer (2013). Interface Properties of Synthetic Rock Specimens: Experimental and Numerical Investigation. Poster presentation at the 47th U.S. Rock Mechanics Symposium, San Francisco, CA, Abstract 13-610.

Wartman, J., Dunham, L., Tiwari, B., and Pradel, D. (2013) "Regional Patterns of Landslides from Tohoku, Japan Earthquake (invited talk)", Abstract presented at 2013 SSA Annual Meeting, Salt Lake City, Utah, 17-19 April.

Wartman, J., Dunham, L., Tiwari, B., and Pradel, D. (2012) 'Landslides Triggered by the Great Tōhoku, Japan Earthquake,' Abstract NH13A-1585 presented at 2012 Fall Meeting, AGU, San Francisco, Calif., 3-7 Dec.

- Wartman, J. and Strenk, P. (2009) "Uncertainty in Earthquake-Induced Deformations: History of the Calabasas Landslide," The Next Generation of Research on Earthquake-induced Landslides: An International Conference in Commemoration of the 10th Anniversary of the Chi-Chi Earthquake, Taipei, Taiwan, September 21-24.
- Wartman, J. (2009) "Earthquake-Induced Rockfall Hazard Assessment," National Science Foundation Engineering Education Programs Awardees Conference, Reston, VA, February 2-3.
- Urias, D., Wartman, J., Gallagher, P., and Morrison, K. (2009) "Assessment of the Engineering Cities REU Program," National Science Foundation Engineering Education Programs Awardees Conference, Reston, VA, February 2-3.
- Wartman, J., Cox, B., Meneses, J., Moreno, V., Olcese, M., Rodriguez-Marek, A., and Sancio, R. (2008) "Landslides Triggered by the 15 August 2007 M8.0 Pisco, Peru Earthquake," *Geophysical Research Abstracts*, Vol. 10, European Geophysical Union General Assembly, Vienna, April 13-18
- Mavrouli, O., Wartman, J., and Corominas, J. (2008) "Assessment of Earthquake-Induced Rockfall Hazards," *Geophysical Research Abstracts*, Vol. 10, European Geophysical Union General Assembly, Vienna, April 13-18
- Wartman, J., Rodriguez-Marek, A., Macari, E. J., Deaton, S., Ramírez-Reynaga, M., Navarro Ochoa, C., Callen, S., Repetto, P., and Ovando Shelley, E. (2006) "Ground Failure in the January 2003 Tecoman, Mexico, Earthquake," *Seismological Research Letters*, 77(2), pp. 321-322, Annual meeting, Seismological Society of America, San Francisco, April 18-22
- Wartman, J., Bray, J. D., and Seed, R. B., (2001) "Inclined Plane Studies of Seismically Induced Displacements in Slopes," Extended Abstract with Presentation, *Proc., Tenth International Conference on Soil Dynamics and Earthquake Engineering*, Philadelphia
- Vahdani, S., Povone, M., Benson, S., Osmun, D., Ehasz, J. and Wartman, J., (2001) "Static and Dynamic Stability and Soil Liquefaction Analyses of the 200-Meter-High Rockfill San Roque Dam, Extended Abstract with Presentation, *Proc., Tenth International Conference on Soil Dynamics and Earthquake Engineering*, Philadelphia
- Rodriguez-Marek, A., Repetto, P., Wartman, J., Zegarra-Pellanne, J., (2001) "Preliminary Observations of The Geotechnical Aspects of the June 23, 2001 Southern Peru Earthquake," Extended Abstract with Presentation, *Proc., Tenth International Conference on Soil Dynamics and Earthquake Engineering*, Philadelphia
- Grubb, D. and Wartman, J., (2001) "Geotechnical Evaluation of Glass Cullet for Transportation Applications," *Proc. of Beneficial Use of Recycled Materials in Transportation Applications*, Washington, D.C., June 1

Major Reports and other Publications

- Leshchinsky, B., Olsen, M., Tanyu, B., and Wartman, J. (2015) "The Contour Connection Method Inventorying and Classifying Landslides using Bare Earth Lidar," *LIDAR*, Vol. 5., No. 1, pp. 1-3.
- Tiwari, B., Pradel, D., and Wartman, J., (2011) "Landslides Triggered by the Tohoku Earthquake: Preliminary Observations, *GeoStrata*, Vol. 10, p 28-32

Schwartz, H., Corley, W., Desormeaux, E., Edge, B., Edwards, C., and Wartman, J. (2009) ASCE Post-Disaster Assessment Manual, American Society of Civil Engineers.

Seed, R., Bea, R., Abdelmalak, R., Athanasopoulos, A., Boutwell, G., Bray, J., Briaud, J.-L., Cheung, C., Cohen-Waeber, J., Collins, B., Cobos-Roa, D., Farber, D., Hanenmann, M., Harder, L., Inkabi, K., Kammerer, A., Karadeniz, D., Kayen, R., Moss, R., Nicks, J., Nimala, S., Pestana, J., Porter, J., Rhee, K., Riemer, M., Roberts, K., Rogers, J., Storesund, Govindasamy, A., Vera-Grunauer, X., Wartman, J., Watkins, C., Wenk, E., Yim, S. (2006) *"Investigation of the Performance of the New Orleans Flood Protection Systems in Hurricane Katrina on August 29, 2005, Volume I: Main Text and Executive Summary, Final Report July 31, 2006,"* Independent Levee Investigation Team, Center for Information Technology Research in the Interests of Society (CITRIS), University of California, Berkeley

Seed, R., Nicholson, P., Dalrymple, R., Battjes, J., Bea, R., Boutwell, G., Bray, J., Collins, B., Harder, L., Headland, J., Inamine, M., Kayen, R., Kuhr, R., Pestana, J., Silva-Tulla, F., Storesund, R., Tanaka, S., Wartman, J., Wolff, T., Wooten, L., Zimmie, T. (2005) *"Preliminary Report on the Performance of the New Orleans Levee Systems in Hurricane Katrina on August 29, 2005,"* Report No. UCB/CITRIS – 05/01, Center for Information Technology Research in the Interests of Society (CITRIS), University of California, Berkeley

Wartman, J., Seed, R. B., and Bray J.D. (2001) *"Physical Model Studies of Seismically Induced Deformations in Slopes,"* Geo-Engineering Report No. UCB/GT/01-01, Department of Civil and Environmental Engineering, University of California, Berkeley

Wartman, J., Seed, R. B., and Bray J.D., (2001) *"Physical Model Studies of Seismically Induced Deformations in Slopes: Experimental Data,"* Geo-Engineering Report No. UCB/GT/01-02, Department of Civil and Environmental Engineering, University of California, Berkeley

Travasarou, T., Bray, J., Wartman, J., Seed, R. and Riemer, M. (2001) *"Evaluation of Seismic Slope Displacement Procedures through Back-Analysis of Physical Models Tests,"* Geo-Engineering Report No. UCB/GT/01-04, Department of Civil and Environmental Engineering, University of California, Berkeley

INVITED LECTURES, PANEL DISCUSSIONS, and CONFERENCE PRESENTATIONS

Invited Lectures

Geotechnical Extreme Event Reconnaissance Association, Workshop, April 2015

ASCE Seattle Section Geotechnical Group, Annual Seminar, May 2015

Lebanese American University, USAID Project Workshop, March 2015

Association of Engineering Geologists, Professional Landslide Forum, Keynote, February 2015

National Academy of Sciences, Special Workshop, Washington, D.C., Keynote, January 2015

Vancouver Geotechnical Society, Vancouver, Canada, Monthly Meeting, February 2015

New Zealand Geotechnical Society, Christchurch, Seminar, December 2013

New Zealand Geotechnical Society, Auckland, Seminar, December 2013

Institute of Geological and Nuclear Sciences, New Zealand, Research Seminar, December 2013

California Institute of Technology, Jet Propulsion Laboratories, Earth Science Group Seminar, March 2012

University of California, Los Angeles, Civil and Environmental Engineering Seminar, March 2012

Assoc. of Engineering Geologists and Geo-Institute, Los Angeles Section, Monthly Meeting, March 2012
Oregon State University, Civil Engineering Seminar, November 2011
Gunma University (Japan), Civil Engineering Seminar, April 2011
Shannon and Wilson Professional Seminar, April 2011
Seattle Chapter of the Geo-Institute, Monthly Meeting, January 2011
Tufts University, Civil and Environmental Engineering Seminar, October 2010
Delaware Valley Geo-Institute Seminar, April 2010
Geotechnical Extreme Event Reconnaissance (GEER) Association Workshop, May 2009
Drexel University, Homeland Security, Philadelphia Student Chapter Seminar, January 2009
Columbia University, Civil Engineering and Engineering Mechanics Seminar, October 2008
Rensselaer Polytechnic Institute, NEES Centrifuge Research and Training Workshop, September 2008
Imperial College London, Geotechnics Seminar, June 2008
Universitat Politècnica de Catalunya, Civil Engineering Seminar, May 2008
Universitat Politècnica de Catalunya, Landslide Research Group Seminar, November 2007
Centre for Post-Graduate Training and Research in Earthquake Eng. (ROSE School), Seminar, May 2008
ETH Zurich, Engineering Geology Seminar, April 2008
Drexel University, Order of the Engineer Induction Ceremony, Lecture, May 2007
Delaware Valley Geo-Institute, Annual Student Meeting, Lecture, February 2007
University of Pennsylvania, Environmental Science Seminar, March 2007
Drexel University, Great Works Symposium, Lecture, May 2006
American Society of Highway Engineers, Earthquake Engineering Short Course, April 2006
American Society of Highway Engineers, Dinner Meeting, Lecture, April 2006
Clemson University, Civil Engineering Seminar, April 2006
Virginia Polytechnic Institute, Civil and Environmental Engineering Seminar, April 2006
University of Pennsylvania, Environmental Science Seminar, February 2006
American Water Resources Association, Philadelphia Section, Seminar, November 2005
Valley Geo-Institute and ASCE Philadelphia Section, Special Presentation, November 2005
Villanova University, Civil and Environmental Engineering Seminar, October 2005
University of Pennsylvania, Environmental Science Seminar, February 2005
University of Delaware, Dept. of Civil and Environmental Engineering Seminar, April 2003
Delaware Valley Geo-Institute, Monthly Meeting, Lecture, September 2003
Drexel University, Graduate Student Association, Seminar, May 2003
Columbia University, Civil Eng. and Engineering Mechanics Seminar, November 2002
University of Pennsylvania, Earth and Environmental Science Seminar, February 2002
National Science Foundation Workshop on Use of Physical Modeling for Eng. Education, 2002
URS Corporation, Plymouth Meeting, Pennsylvania, Seminar, November 2001

Delaware Valley Geo-Institute, Monthly Meeting, Lecture, October 2001

Delaware Valley Port Authority, Seminar, December 2001

Berkeley Geotechnical Society, Research Seminar, May 1999

Association of Engineering Geologists, San Francisco Section, Monthly Meeting, Lecture, March 1999

Conference Presentations

The 7th International Conference on Urban Earthquake Engineering and 5th International Conference on Earthquake Engineering, *"Were Topographic Effects Responsible for Building Collapses in the 2001 Southern Peru Earthquake?"*, Tokyo, 2010, (Invited Talk)

The Next Generation of Research on Earthquake-Induced Landslides: An International Conference in Commemoration of the 10th Anniversary of the Chi-Chi Earthquake, *"Uncertainty in Earthquake-Induced Deformations: History of the Calabasas Landslide,"* Taipei, 2009 (Invited Talk)

European Geophysical Union, Annual Meeting, *"Landslides triggered by the 5 August 2007 M_w 8.0 Pisco, Peru earthquake,"* Vienna, 2008

Woman Engineers: Bridging the Past, Present, and Future, Society of Women Engineering Conference, *"Engineering for the Community,"* Philadelphia, 2006

Transportation Research Board, 85th Annual Meeting, *"Levee System Performance in Hurricane Katrina,"* Washington, D.C., 2006

Transportation Research Board, 84th Annual Meeting, *"Performance and Analysis of Mechanically Stabilized Earth (MSE) Walls in the Tecomán, Mexico Earthquake,"* Washington, D.C., 2006

GeoFrontiers/18th Geosynthetic Research Institute Conference *"Development of a Versatile Device for Measuring the Tensile Properties of Geosynthetics,"* Austin, Texas, 2005

Geotrans 2004, *"Engineering Properties of Crushed Glass-Soil Blends,"* Los Angeles, 2004

Eleventh International Conference on Soil Dyn. and Earthquake Engineering, *"Characteristics of Strong Ground Motion Recorded During the 2003 Tecomán, Mexico, Earthquake,"* Berkeley, Calif., 2004

International Conference on Physical Modeling in Geotechnics, *"The Use of Fly Ash to Alter the Geotechnical Properties of Artificial "Model" Clay,"* St. John's, Canada, 2002

Tenth International Conference on Soil Dynamics and Earthquake Engineering, *"Inclined Plane Studies of Seismically Induced Displacements in Slopes,"* Philadelphia, 2001

Tenth International Conference on Soil Dynamics and Earthquake Engineering, *"Geotechnical Aspects of the June 23, 2001 Southern Peru Earthquake: Preliminary Observations,"* Philadelphia, 2001

Geotechnical Earthquake Engineering and Soil Dynamics. *Newmark Analyses of a Shaking Table Slope Stability Experiment,"* Seattle, 1998

Fifth Caltrans Seismic Research Workshop, California Dept of Transportation *"Shaking Table-Based Evaluation of the Newmark Procedure for Estimating Seismically Induced Slope Deformations,"* Sacramento, Calif., 1998

Panel Discussions

Transportation Research Board, 85th Annual Meeting, "*Katrina: Infrastructure Damage and Rehabilitation*,"
January 23, 2006
Drexel University, Pennoni Honors College Special Meeting "*The Politics of Disaster*," October 2005

PROFESSIONAL ACTIVITIES

Editor and Editorial Board Service

Editor, *Journal of Geotechnical and Geoenvironmental Engineering*, 2010-present
Member, Editorial Board, *Journal of Geotechnical and Geoenvironmental Engineering*, 2005-2010

Committee Service

Member, *ASCE Geo-Institute International Activities Council*, 2013-present
Chair, Technical Program, *Geocongress 2013*, 2011-2013
Member, NEES Education, Outreach, and Training subcommittee, 2011-present
Member, ASCE Task Committee on Engineering Review Procedures, 2008-2009
Member, *International Advisory Committee*, *GeoShanghai 2010*, 2008-2010
Member, *Scientific Committee*, First International FLAC/DEM symposium on Numerical Modeling, 2008
Chair, *ASCE Geo-Institute Committee on Embankments, Dams and Slopes*, 2007-2011
Member, *ASCE Inter-Institute Committee on Levees*, 2007-present
Member, *Site Operations Comm.*, George E. Brown Network for Earthquake Eng. Simulation, 2007-2009
Member, *Advisory Committee*, Civil and Environmental Eng. Dept., Villanova University, 2007-2010
Member, *Technical Committee*, *GeoShanghai International Conference*, 2005-2006
Member, *Managing Board*, ASCE Delaware Valley Geo-Institute, 2001-2004
Member, *ASCE Geo-Institute Committee on Embankments, Dams and Slopes*, 2002-2006
Member, *ASCE Geo-Institute Committee on Earthquake Engineering and Soil Dynamics*, 2004-2011
Member, *Research Committee*, U.S. University Council of Geotechnical Engineering, 2004-2006
Member, *Scientific Committee*, 11th Intl. Conf. on Soil Dyn. and Earthquake Engineering, 2004
Member, *NEHRU Graduate Fellowship Committee*, Earthquake Engineering Research Institute, 2003

Organization and Chairmanship of Professional Meetings

Member, Student Activities Committee, *Geotechnical Earthquake Engineering and Soil Dynamics IV*, 2008
Co-organizer and Co-Moderator, *Sessions of the Geotechnical Aspects of Hurricane Katrina*, Geo-Denver
Conference, 2007
Organizer, Moderator and Presenter, *Workshop on the Application of Advanced Technologies for Post-
Earthquake Geotechnical Engineering Reconnaissance*, Geo-Congress, Atlanta, 2006
Organizer and Chair, *Sessions on the Mitigation of Seismically Induced Ground Failure*, *GeoShanghai
International Conference*, Shanghai, 2006

- Chair, *Session on Dynamic Characterization and Modeling of Soils*, 11th Intl. Conf. on Soil Dyn. and Earthquake Engineering, Berkeley, 2004
- Official Discussor, *Session on Recent Seismic Events*, 5th Intl. Conf. on Case Histories in Geotechnical Engineering, New York, 2004
- Co-Organizer and Co-Chair, *Session on Beneficial Reuse of Recycled Materials in Transportation and Geotechnical Applications*, ASCE National Conference, Baltimore, 2004
- Co-Organizer and Summary Presenter, *Session on Recycled Materials in Transportation Geotechnics*, Geo-Trans, 2004
- Co-Organizer and Moderator, *Symposium to Honor the Research Achievements of Robert Koerner*, Philadelphia, 2004
- Member, Local Organizing Committee, *10th Intl. Conf. on Soil Dyn. and Earthquake Engineering*, Philadelphia, 2002
- Chair, *Session on Soil-Structure Interaction*, *10th Intl. Conf. on Soil Dyn. and Earthquake Engineering*, Philadelphia, 2002
- Moderator, *Session on Environmental Geotechnique*, 4th Intl. Conf. on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics, San Diego, 2001

Invited Participation in Workshops

- Cyberinfrastructure Summer Institute for Geoscientists, San Diego, 2009
- Geotechnical Extreme Event Reconnaissance, Richmond, California, 2009
- Workshop on Project "Big Risk," Barcelona, Spain, 2009
- NEES Centrifuge Research and Training Workshop, Troy, New York, 2008
- Reforming Civil and Environmental Education, Istanbul, 2007
- NEES Centrifuge Research and Training Workshop, Davis, California, 2004
- National Science Foundation CAREER Awardees Workshop, Arlington, Virginia, 2004
- National Science Foundation Workshop on Use of Physical Modeling for Eng. Edu., St. Johns, Canada, 2002
- Workshop on Seismic Response of Reinforced Soil Structures, New York, 2002
- Geo-Institute/ISSMGE International Research Workshop, Istanbul, 2001
- Army Research office Centrifuge Modeling Workshop, Vicksburg, Mississippi, 2001

Professional Reviews

Journals

- *Journal of Geotechnical and Geoenvironmental Engineering*
- *Engineering Geology*
- *Geotechnique*
- *Canadian Geotechnical Journal*
- *Soil Dynamics and Earthquake Engineering*
- *Earthquake Spectra*

- *Geotechnical Testing Journal*
- *GeoRisk*
- *Geosynthetics International*
- *Journal of Environmental Engineering*
- *Journal of Materials in Civil Engineering*
- *Journal of Professional Issues in Engineering Education and Practice*

Conferences

- GeoFlorida-2010, 2009
- International Foundation Congress and Equipment Expo, 2009
- 11th Multidisciplinary Conf. on Sinkholes and the Eng. and Env. Impacts, 2008
- First International FLAC/DEM symposium on Numerical Modeling, 2008
- Geotechnical Engineering and Soil Dynamics, 2008
- GeoShanghai International Conference, 2006
- ASCE Geo-Institute Geo-Frontiers Conference, 2005
- ASCE Geo-Institute Geo-Trans Conference, 2004
- 11th Intl. Conf. on Soil Dyn. and Earthquake Engineering, 2004
- International Conf. on Physical Modeling in Geotechnics, 2002
- 10th Intl. Conf. on Soil Dyn. and Earthquake Engineering, 2002

Books

- Wiley Publishing
- American Geophysical Union

Proposals

- National Science Foundation
- United States Geologic Survey
- Qatar National Research Fund

GRANTS AWARDED

As Principal Investigator

A platform for proactive, risk-based slope asset management (Phase II), Pacific Northwest Transportation Consortium, \$82,000, 2013-2014 (collaborative research with separate contracts to Oregon State Univ. and the Univ. of Alaska, total project award: \$250,000)

Regional-Scale Statistical Modeling of the Northridge Earthquake Landslide Database, United States Geological Survey, PI: J. Wartman, \$165,205, 2010-2012

NEESR-CR: Seismically Induced Rock-Slope Failure: Mechanisms and Prediction, National Science Foundation, PI: J. Wartman with co-PI Mary MacLaughlin, \$934,112, 2010-2012

Collaborative Research: The M8.0 Pisco Peru Earthquake - A Benchmark Ground Failure Event for Remote Sensing and Data Archiving, National Science Foundation, \$119,297, 2009-2010

IREE: Research and Educational Collaboration with the Polytechnic University of Catalonia, National Science Foundation, \$52,000, 2007-2008

Tarrtown Bridge Scrap Tire Embankment, APEX Environmental, Inc., Pennsylvania Dept. of Transportation Partnership, \$87,581, 2003-2005

Collaborative Research: Investigation of Site Effects, Seismic Compression, and Liquefaction in the June 23, 2001 Southern Peru Earthquake, National Science Foundation, \$131,474, 2002-2005

Development of a Multiaxial Geosynthetics and Fibrous Material Test Device, National Science Foundation, PI: J. Wartman with co-PIs F. Ko, Y. G. Hsuan, R. M. Koerner, \$202,731, 2002- 2005

CAREER: Physical Modeling for Geotechnical Engineering Research and Education, National Science Foundation, \$375,000, 2002-2007

Laboratory Evaluation of REU Site: Engineering Cities, National Science Foundation, PI: J. Wartman with co-PI P. Gallagher, \$394,905, 2006-2008

Evaluation of Analytical Procedures for Estimating Seismically Induced Permanent Deformations in Slopes, United States Geological Survey, \$64,276, 2006-2007

Tire Derived Aggregate: Hybrid Experimental/Computational Simulations, Pennsylvania Dept. of Transportation, \$61,148, 2006-2007

Evaluation of Analytical Procedures for Estimating Seismically Induced Permanent Deformations in Slopes, United States Geological Survey, \$64,090, 2004-2005

Development of Innovative Construction Materials, APEX Environmental, Inc./Army Corps of Engineers Partnership, PI: J. Wartman with co-PI P. Gallagher, \$71,205, 2003-2006

Geotechnical Earthquake Engineering Reconnaissance of the January 21, 2003, Colima, Mexico Earthquake, National Science Foundation, PI: J. Wartman with co-PI A. Rodriguez-Marek (Washington State Univ.), \$29,850, 2003-2004

Modeling and Analyses of the Select Engineering-Related Properties of Glass Cullet, Pennsylvania Dept. of Transportation with matching funds from D. M. Stoltzfus Co. and Todd Heller Recycling Co., \$8,700, 2001

As Co-Principal or Senior Investigator

Hazards SEES Type 2: Magnitude 9 Earthquake Scenarios – Probabilistic Modeling, Warnings, Response and Resilience in the Pacific Northwest, National Science Foundation, PI: John Vidale and others with senior investigator J. Wartman, \$3 million, 2013-2017.

A Platform for Proactive Risk-based Slope Asset Management, Pacific Northwest Transportation Consortium, PI: Pedro Arduino with co-PI J. Wartman, \$58,500, 2013-2014 (collaborative research with separate contracts to Oregon State Univ. and the Univ. of Alaska, total project award: \$200,000)

NEESR-CR: Topographic Effects in Strong Ground Motion - From Physical and Numerical Modeling to Design, PI: A. Rodriguez-Marek, with Co- and Senior Investigators D. Assimaki, B. Cox, M. Pando and J. Wartman, \$1,200,000, 2009-2011

MRI: Acquisition of a High Resolution X-ray Tomography Unit, National Science Foundation, PI: Antonios Zavalangos with co-PIs Joseph Wartman, Haviva M. Goldman, Surya R. Kalidindi, Wei Sun, \$349,267, 2005-2006

Geotechnical Earthquake Engineering Reconnaissance of the June 23, 2001 Arequipa Earthquake, National Science Foundation, PI: A. Rodriguez-Marek (Washington State Univ.) with co-PIs Joseph Wartman and P. Repetto (URS Corp.), \$29,671, 2001-2002

Equipment and Software Grants (As Principal Investigator)

Google Earth Pro Licensing, Google, \$12,000 (Software), 2007

GIS for Civil Engineering Education at Drexel University, International Federation of Surveyors and ESRI, Inc., \$211,120 (Software and GIS library), 2003

INTERVIEWS PUBLISHED OR RECORDED IN THE POPULAR PRESS

"*City Adrift: New Orleans Before & After Katrina*," Louisiana State University Press, 2007

"Texas City's levees contain faults cited in New Orleans," *Houston Chronicle*, July 23, 2006

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"Tilt!" *Discover Magazine*, July 2005

"Latin America's tallest 'sails' through Mexico quake," *Engineering News Record*, February 3, 2003

PROFESSIONAL MEMBERSHIPS AND AFFILIATIONS

American Society of Civil Engineers (ASCE), Geo-Institute (GI)

Earthquake Engineering Research Institute (EERI)

American Geophysical Union (AGU)

Seismological Society of America (SSA)

Geological Society of America (GSA)