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Career Objectives

- Reduce the seismic vulnerability of the built environment through hazard and risk assessment, design, mitigation, and seismic retrofitting.
- Provide rapid construction solutions for infrastructure and transportation needs.
- Inspire students to obtain excellence in leadership.

Education

- Ph.D., Civil Engineering, Brigham Young University, May 1992
- B.S., Geology, Brigham Young University, December 1983

Dissertation

“Empirical Analysis of Horizontal Ground Displacement Generated by Liquefaction-Induced Lateral Spread,” Brigham Young University, August 1991.

Professional Positions and Appointments

- Associate Chair, Civil and Environmental Engineering Asia Campus, Incheon South Korea, 2018 to present.
 - Associate Professor, Civil and Environmental Engineering, University of Utah, 2007 to present.
 - Assistant Professor, Civil and Environmental Engineering, University of Utah, 2000 to 2007.
 - Adjunct Assistant Professor, Department of Civil and Environmental Engineering, Brigham Young University, 2001 to 2008.
 - Research Project Manager, Research Division, Utah Department of Transportation (UDOT), Salt Lake City, Utah, 1998 to 2000.
 - Project Engineer, Woodward-Clyde Consultants, Salt Lake City, Utah, 1996 to 1998.
 - Senior Engineer, Westinghouse Savannah River Company, Aiken, South Carolina, 1991 to 1996.
 - Research Assistant, Brigham Young University, Provo, Utah, 1988 to 1991.
 - Pre-construction Materials Engineer, UDOT, Salt Lake City, Utah, 1987 to 1988.
 - Construction/Survey Technician, UDOT, Orem, Utah, 1984 to 1987.
 - Retort Engineer, Geokinetics In Situ Oil Development, Vernal, Utah, 1984-1985.
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University Service Positions

- U of U Senate Advisory Committee on Budget and Planning, 2016 – present.
- U of U CVEEN ABET Coordinator for Construction Engineering Program, 2020 - present
- U of U CVEEN Co-Chair of Undergraduate committee, 2020-present.
- U of U CVEEN member of Construction Engineering Committee, 2019-present
- U of U COE ABET committee, 2013 – present.
- U of U CVEEN ABET Coordinator, 2013 – 2019..
- U of U CVEEN Chair of Undergraduate committee, 2013 – 2019.
- U of U CVEEN Research Committee member, 2011 to present.
- U of U COE Physics Committee, 2012 - present
- U of U CVEEN Graduate Committee member, 2011 to 2012.
- U of U COE Math Committee, 2011 to 2012.
- U of U CVEEN Undergraduate Committee member, 2003 to 2011.
- U of U CVEEN Vice-Chair Undergraduate Committee, 2003 to 2011.
- U of U CVEEN Major Status Advisor, 2003 to 2011.
- U of U Undergraduate Council, member, 2005 to 2006.
- U of U CVEEN Graduate Committee, member, 2005 to 2007.
- ASCE Rocky Mountain Regional Conference Pre-design Host, 2005.
- U of U CVEEN Major Status Advisor, 2003 to present.
- U of U CVEEN Department Safety Officer, 2001 to 2006.

Community and Professional Service

- National Earthquake Hazards Reduction Program, Utah Liquefaction Advisory Group (chair) (2003 – present).
 - Next Generation Liquefaction Database, Pacific Earthquake Engineering Research (PEER) (member) (2013-present)
 - Gas and Liquid Fuels Subcommittee, Civil Infrastructure and Lifeline System Committee, American Society of Civil Engineers, 2015-current, (member).
 - Advanced National Seismic System, Advisory Committee for Urban Strong-Motion Monitoring in Utah (chair) (current).
 - National Lightweight Fill Conference, 2020-2021, (member).
 - Technical Committee, 6th European Geosynthetics Conference, 2016, Istanbul, Turkey, 2014-2016, (member)
 - Participating Member, Workshop on State of Art and Practice in Earthquake Induced Soil Liquefaction Assessment,” National Research Council of the National Academies (2014).
 - EERI Utah Chapter, 2012-2013, (Director)
 - Organizing Committee, EERI Utah Chapter, 2012 (member).
 - Committee on Pre and Post-Disaster Mitigation, ASCE Council on Disaster Reduction and Management, 2009 to 2011 (chair).
 - ASCE CDRM Reconnaissance Team Investigation of L’Aquila, Italy Earthquake, 2009, (Team Leader)
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- Earthquake Engineering Research Institute/Western States Seismic Policy Committee Annual Meeting Planning Committee, 2009 (member).
 - Advanced National Seismic System, Intermountain West Regional Advisory Council (alternate)
 - Steering Committee, EPS 2011 (member).
 - National Council of Examiners for Engineering and Surveying, 2001 to 2008 (member).
 - Transportation Research Board Committee on Soils and Rock Instrumentation (AFS20), 2002 to 2008 (member).
 - Disaster Resistant University Project, University of Utah, 2007 to 2009 (member).
 - Organizing Committee for Earthquake Engineering Research Institute National Conference, 2008 (member).
 - State of Utah Review Panel of Proposed Private Fuel Storage Facility, Skull Valley, Utah, 2000 to 2003 (member).
 - Next Generation Liquefaction Triggering Database, Pacific Earthquake Engineering Research (PEER), 2014 to current, member
 - Gas and Liquid Fuels Subcommittee, Civil Infrastructure and Lifeline System Committee, ASCE, 2015-current, (member).
 - Organizing Committee EPS 2018, Istanbul, Turkey, 2014-2017, (member).
 - Technical Committee, 6th European Geosynthetics Conference, 2016, Istanbul, Turkey, 2014-2016, (member)
 - Participating Member, Workshop on State of Art and Practice in Earthquake Induced Soil Liquefaction Assessment," National Research Council of the National Academies (2014).
 - EERI Utah Chapter, 2012-2013, Director
 - National Earthquake Hazards Reduction Program, Utah Liquefaction Advisory Group (chair) (2003 – present).
 - EPS 2011 Steering Committee.
 - Organizing Committee, EERI Utah Chapter, 2012 (member).
 - Committee on Pre and Post-Disaster Mitigation, ASCE Council on Disaster Reduction and Management, 2009 to 2011 (chair).
 - Led ASCE CDRM Reconnaissance Team Investigation of L'Aquila, Italy Earthquake, 2009.
 - Advanced National Seismic System, Advisory Committee for Urban Strong-Motion Monitoring in Utah (chair) (current).
 - Earthquake Engineering Research Institute/Western States Seismic Policy Committee Annual Meeting Planning Committee, 2009 (member).
 - Advanced National Seismic System, Intermountain West Regional Advisory Council (alternate)
 - National Council of Examiners for Engineering and Surveying, 2001 to 2008 (member).
 - Transportation Research Board Committee on Soils and Rock Instrumentation (AFS20), 2002 to 2008 (member).
 - Disaster Resistant University Project, University of Utah, 2007 to 2009 (member).
 - Organizing Committee for Earthquake Engineering Research Institute National Conference, 2008 (member).
 - Utah SHAKEMAP/HAZUS Working Group (member) 2006.
 - Panelist, National Science Foundation, Geoseismic Panel, Feb. 21st and 22nd, 2006.
 - State of Utah Review Panel of Proposed Private Fuel Storage Facility, Skull Valley, Utah, 2000 to
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2003 (member).

- Member of Unreinforced Masonry Buildings Ad Hoc Subcommittee of the Utah Seismic Safety Commission, 2005 to present.
- Panel member, Accelerated Construction Technology Transfer Workshop for I-15 Reconstruction, Ogden, Utah, Sponsored by FHWA, February 15th – 17th, 2005.
- Reviewer, U.S. Civilian Research and Development Foundation (CRDF), 2003.
- Program Chair, 3rd International Conference of EPS Geofam 2001
- Expert Witness for the State of Utah in litigation and hearings before the U.S. Nuclear Regulatory Commission Atomic Safety and Licensing Board for the License Application of the Private Fuel Storage Facility, Skull Valley Utah, 1999 to 2002.
- Panel member for the State of Utah reviewing the license application to the U.S. Nuclear Regulatory Commission for the Private Fuel Storage Facility, Skull Valley Utah, 1999 to 2002.
- Member of Organizing Committee for ASCE sponsored symposium on Geologic Hazards in Utah, Salt Lake City, Utah, April 12th and 13th, 2001.
- Value Engineering Team, University Interchange, 1300 S. Orem, sponsored by UDOT and FHWA, 2000.
- Member of FEMA Project Impact and Salt Lake City Seismic Earthquake Hazard Ordinance Committee, 2000.
- Pre-bid Design-Build Committee Member, Spanish Fork Canyon Landslide Remediation, sponsored by UDOT 2000.
- Member of Organizing Committee, 34th Annual Symposium on Engineering Geology and Geotechnical Engineering, Logan, Utah, April 1999.
- Member of Organizing Committee, Environmental Geotechnology, ASCE, Salt Lake City, Utah, March 1997.
- Member of Municipal Landfill Site Selection Committee, Columbia County, Georgia, 1993.

Memberships in Professional Societies

- Pacific Earthquake Engineering Research (PEER) Next Generation Liquefaction Project (NGL)
- Earthquake Engineering Research Institute (EERI)
- Geo-Engineering Earthquake Reconnaissance (GEER)
- Network for Earthquake Engineering Simulation (NEES)
- American Society of Civil Engineers (ASCE)
- American Society for Engineering Education (ASEE)
- Consortium of Universities for Research in Earthquake Engineering (CUREE)

Awards/Recognitions

- Dean's Recognition, placed among top instructors, College of Engineering, Fall 2010, Fall 2007, Fall 2005, Spring 2001.
 - ASCE Outstanding Civil Engineering Achievement (OCEA) Award 2015 Finalist – The Colton Crossing Flyover, Colton California, light-weight cellular concrete and seismic design team member.
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- Rebuilding America's Infrastructure Magazine 2012 – Best of America's Infrastructure – Cost Saving Approaches, Geofoam Embankments, UTA TRAX line, geofoam design team member.
- American Council of Engineering Companies, Utah – 2011 – Engineering Excellence Grand Award – I-15 Widening 500 North to I-215 – Beck Street Structure – Seismic Design, design team member.
- American Public Works Association 2010 – National Project of the Year (\$25 million to \$75 million), SR 519 / I-90 to SR 99, geofoam design team member.
- ASCE 2010 Local Outstanding Civil Engineering Achievement Awards - Geotechnical Category – Outstanding Award SR 519 / I-90 to SR 99 Intermodal Access I/C Improvements Phase 2 Design-Build Project – *Seattle Washington*, geofoam design team member.
- Certificate of Appreciation from the Earthquake Engineering Research Institute/Western States Seismic Policy Committee Annual Meeting Planning Committee, Fall 2009.
- ACEC Arizona 2006 Grand Award, Rockfall Containment and Safety, SR 264 at 2nd Mesa, geofoam design team member.
- National Earthquake Award of Excellence, "Development and Implementation of Seismic Design Policy," Team Award to Metropolitan Water Conservancy District Salt Lake and Sandy, Utah, 2004 (team member).
- ASCE 2002 Outstanding Civil Engineering Achievement (OCEA) Award, Wasatch Constructors I-15 Reconstruction Design-Build Team (team member).
- Excellence in Research, Utah Department of Transportation, 1999, 2000.
- Finalist for outstanding paper, ASCE Journal Geotechnical Engineering, 1995.
- Vice President's Award, Westinghouse Engineering, and Construction Services Division, 1995.
- Total Quality Achievement Award, Environmental Restoration Department, Westinghouse Savannah River Company, 1992, 1993.
- BYU Scientific Research Society (Sigma-Chi) Recipient, Outstanding Ph.D. Dissertation, 1992.
- BYU Civil Engineering Departmental Scholar, 1988-1990.
- Alvin Barrett Scholar (BYU Geology Department) 1982-1983.
- BYU Presidential Scholar (University Scholarship) 1978-1979, 1981-1982.

Other Affiliations and Activities

- Reviewer, Geosynthetics International, Journal of the International Geosynthetics Society (IGS)
 - Reviewer, Soil Dynamics and Earthquake Engineering
 - Reviewer, Earthquake Spectra, Journal of Earthquake Engineering Research Institute
 - Reviewer, Journal of Mechanical Engineering Science
 - Reviewer, Geotextiles and Geomembranes, Journal of the International Geosynthetics Society
 - Reviewer, ASCE Journal of Geotechnical and Geoenvironmental Engineering.
 - Reviewer for the Journal of the Transportation Research Board.
 - Reviewer for Earthquake Spectra, Earthquake Engineering Research Institute.
 - Member of EERI Reconnaissance Team Investigation Wells Nevada, Earthquake, 2008.
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Training

- American Society of Civil Engineers Excellence in Engineering Education (ExCEED) Workshop.
- OSHA 1910.120 Health and Safety Training for Hazardous Waste Operations and Emergency Response.
- Department of Energy, Radiation Worker Training, Westinghouse Savannah River Company.
- U.S. Department of Labor Mine Safety and Health Administration (MSHA) Underground Mining Training.

Registrations

- Professional Engineer, Utah - 1996 to present.

Journal and Conference Proceeding Publications

- Sharifi-Mood, M., Gillins, D. T., Olsen, M. J., Franke, K. W. and Bartlett, S. F., "A Geotechnical Database for Utah (GeoDU) Enabling Quantification of Geotechnical Properties of Surficial Geologic Units for Geohazards Assessments" Earthquake Spectra, 2020.
 - Dangol, S. Ibarra L. F., Bartlett S. F., Pantelides, C. P., 2018, 'Soil Effects on the Response of Free-Standing Dry Storage Casks," 16th European Conference on Earthquake Engineering, June 18th -21st, 2018.
 - Sharifi-Mood, M., Gillins, D. T., Franke, K. W., Harpert, J. N., Bartlett, S.F. and Olsen, M. J., 2018, "Probabilistic Liquefaction-Induced Lateral Spread Hazard Mapping and its Applications to Utah County, Utah," Engineering Geology, 237(2018)76-91.
 - Aabøe, R, Bartlett, S. F., Duškov, M., Frydenlund, T. E., Mandal, J. N., Negussey, D., Özer, T. A., Hideki, T., Vaslestad, J., 2018, "Geofoam Blocks in Civil Engineering Applications," 5th International Conference on the Use of Geofoam Blocks in Construction Applications, Kyrenia, Northern Cyprus, May 9th – 11th, 2018.
 - Bartlett, S. F., Amini, Z., 2018, "Design and evaluation of seismic stability of free-standing EPS embankment for transportation systems," 2018, 5th International Conference on the Use of Geofoam Blocks in Construction Applications, Kyrenia, Northern Cyprus, May 9th – 11th, 2018.
 - Vaslestad, J., Bartlett, S. F., Aabøe, R, Burkart, H., Ahmed, T., Arellano, D. A., 2018, "Bridge Foundations Supported by EPS Geofoam Embankments on Soft Soil", 5th International Conference on the Use of Geofoam Blocks in Construction Applications, Kyrenia, Northern Cyprus, May 9th – 11th, 2018.
 - Haghighi, N., Fayyaz S. K., Liu, X. C. and Bartlett, S. F., 2017, "Identifying Network-Wide Critical Transportation Links Under Disaster Disruptions: A Multi-Scenario and Probability-Based Simulation Approach, 96th Transportation Research Board Annual Meeting, Washington, D.C., January 2017, 21 p.
 - Farnsworth, C. B., Bartlett, S. F., and Lawton E. C., 2016 "Development of a Multiflow In Situ Permeameter," ASCE Geo-Chicago 2016, August 14th-18th, 2016, Chicago, Illinois, ASCE GSP 272, pp. 487-496.
 - Bartlett, S. F., 2015, "Protection of Pipelines from Permanent Ground Deformation Using EPS
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Geofoam,” Basin and Range Province Seismic Hazard Summit III, Salt Lake City, Utah, Jan. 12-17, 2015, 21 p.

- Bartlett, S. F., Lingwall, B. A., and Vaslestad, J. “Methods of Protecting Buried Pipeline and Culverts Using EPS Geofoam in Transportation Infrastructure,” 2015, *Geotextiles and Geomembranes*, Volume 42, Issue 5, October 2015, pp. 450-461.
 - Farnsworth, C. B., Ozer, T. A, Bartlett, S. F., Lawton E. C., 2014, “Comparison of Methodologies for Establishing Horizontal Drainage Design Properties in Soft Cohesive Soils,” *Transportation Research Record*, 2511:1-8, July 2015.
 - Bartlett, S. F., Farnsworth, C. B. and Lingwall, B. A., 2014, “Construction and Long-Term Settlement Performance Monitoring of MSE Walls Constructed With and Without Soil Improvement,” *Conference Proceedings of Transportation Research Board Annual Meetings, January 11th to 15th, 2015, Washington, D.C.*, 15 p.
 - Lingwall, B. N. and Bartlett, S. F., “Full-scale Testing of An EPS Geofoam Cover System to Protect Pipelines at Locations of Lateral Soil Displacement, 2014, ASCE Pipelines Conference, Portland Oregon, August 3rd – 6th, 2014, 11 p.
 - Özer T. A., Akay O., Fox G. A., Bartlett, S. F. and Arellano D. A., 2014, “A New Method for Remediation of Sandy Slopes Susceptible to Seepage Flow using EPS-Block Geofoam, *Geotextiles and Geomembranes*, 42, (2014) 166-180.
 - Bartlett, S., Arellano, D., Vaslestad, J., Aaboe, R. and Ahmed T., 2014, “Bridge Foundations Supported by EPS Geofoam on Soft Soil,” 10th International Conference on Geosynthetics, Berlin, Germany, September 21 – 25, 2014, 9 p.
 - Bartlett, S. F., “Liquefaction-Induced Ground Failures in Southern Alaska Along the Alaskan Railroad and Highway during the 1964 Alaskan Earthquake,” 2014, 10th U.S. National Conference on Earthquake Engineering (10NCEE), Anchorage, Alaska, July 21-25th, 2014.
 - Bartlett, S. F. and Lingwall, B. N, 2014, “Protection of Lifelines and Buried Structures Using EPS Geofoam,” *GeoShanghai*, International Conference sponsored by Tongji University, ASCE Geo-Institute and Transportation Research Board, Shanghai, China, May 26th-28th, 2014, ASCE Geotechnical Special Publication, No. GSP 238, 10 p.
 - Farnsworth, C. B., Bartlett, S. F. and Lawton, E. C., 2014, “Using a Rowe Cell to Establish Horizontal Drainage Properties of Soft Soils, *Geo-Congress*, Atlanta, Georgia, Feb. 23-26th, 2014.
 - Gillins, D. T., and Bartlett, S. F. “Multilinear Regression Equations for Predicting Lateral Spread Displacements from Soil Type and CPT Data,” 2013, *J. Geotech. Geoenviron. Eng.* Dec. 2013, 11 p.
 - Akay, O., Ozer A. T., Fox G. A., Bartlett S. F. and Arellano, D., 2013, “Behavior of Sandy Slopes Remediated by EPS-Block Geofoam Under Seepage Flow,” *Geotextiles and Geomembranes* 37 (2013) pp. 81-98.
 - Lingwall, B. N. and Bartlett, S. F., 2013, “Settlement of Structures Adjacent to Large Embankment Construction – A Case History in Settlement Estimates,” *ASCE GeoCongress*, 2013.
 - Lingwall, B. N. and Bartlett, S. F., 2013, “An Innovative Use of Expanded Polystyrene Insulated Concrete Forms (ICF) for Geohazards Reduction, *Geosynthetics*, 2013.
 - Farnsworth, C. F., Bartlett, S. F. and Lawton E. C., 2013, “Estimation of the Time-Rate of Settlement for Multi-Layered Clays Undergoing Radial Drainage,” *Transportation Research Record: Journal of the Transportation Research Board*, No. 2363, Transportation Research Board of the National Academies, Washington, D.C., 2013, pp. 3–11.
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- Ozer, A. T., Lawton, E. C., and Bartlett, S. F., 2012, "New Method to Determine Proper Strain Rate for Constant Rate of Strain Consolidation Tests." *Canadian Geotechnical Journal*, Vol. 49, No. 1, January, pp. 18-26.
 - Ozer, A. T., Bartlett, S. F., and Lawton, E. C., 2012, "CPTU and DMT for Estimating Soil Unit Weight of Lake Bonneville Clay." 4th International Conference on Geotechnical and Geophysical Site Characterization, Porto de Galinhas, Brazil, Sept. 28-21.
 - Anderson, J. A., and Bartlett, S. F., 2012, "Development of Seismic Design Approach for Freestanding Freight Railroad Embankment Comprised of Lightweight Cellular Concrete," State of the Art and Practice in Geotechnical Engineering, GeoCongress 2012, Oakland, California, March 25-29, 2012.
 - Bartlett, S. F., Negussey, D., Farnsworth, C. B., and Stuedlein, A., 2011, "Construction and Long-Term Performance of Transportation Infrastructure Constructed Using EPS Geofoam on Soft Soil Sites in Salt Lake Valley, Utah," EPS 2011 Geofoam Blocks in Construction Applications, Oslo Norway.
 - Bartlett, S. F., Trandafir, A. C., Lawton E. C. and Lingwall, B. N., 2011, "Applications of EPS Geofoam in Design and Construction of Earthquake Resilient Infrastructure," EPS 2011 Geofoam Blocks in Construction Applications, Oslo Norway.
 - Trandafir, A. C., Bartlett, S. F. and Erickson, B. A., 2011, "Dynamic Properties of EPS Geofoam from Cyclic Uniaxial Tests with Initial Deviator Stress," EPS 2011 Geofoam Blocks in Construction Applications, Oslo Norway.
 - Trandafir, A. C., Erickson, B. A., Moyles J. F. and Bartlett S.F., 2011, "Confining Stress Effects on the Stress-strain Response of EPS Geofoam in Cyclic Triaxial Tests," ASCE Geo-Frontiers, Mar. 13-16, 2011, Dallas, Texas.
 - Trandafir, A. C., Bartlett S. F. and Lingwall, B. N., 2010, "Behavior of EPS geofoam in stress-controlled cyclic uniaxial tests," *Geotextiles and Geomembranes*, 28 (2010) pp.514–524.
 - Newman, M. P., Bartlett S. F., Lawton, E. C., 2010, "Numerical Modeling of Geofoam Embankments," *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, February 2010, pp. 290-298.
 - Ozer, A. T., Bartlett, S. F., and Lawton, E. C., 2010, "DMT Testing for Consolidation Properties of the Lake Bonneville Deposits", 2nd *International Symposium on Cone Penetration Testing, Huntington Beach, California, USA*, May 9-11, 2010, Volume 3: Technical Papers: Applications, pp. 49-56.
 - Trandafir, A. C. and Bartlett S. F., 2010, "Seismic Performance of Double Geofoam Buffer Systems," 5th International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics, San Diego, California, May 24th to 29th, 2010.
 - Bartlett, S. F. and Lawton E. C., 2008, "Evaluating the Seismic Stability and Performance of Freestanding Geofoam Embankment," 6th National Seismic Conference on Bridges and Highways, Charleston, S.C., July 27th – 30th 2008, 17 p.
 - Kim, H. C., Zhou, X. and Bartlett, S. F., 2008, "Dynamic Traveller Response Modeling for Seismic Risk Analysis of Transportation Systems, 6th National Seismic Conference on Bridges and Highways, Charleston, S.C., July 27th – 30th 2008.
 - Farnsworth C. F., Bartlett S. F., Negussey, D. and Stuedlein A. 2008, "Construction and Post-Construction Settlement Performance of Innovative Embankment Systems, I-15 Reconstruction Project, Salt Lake City, Utah," *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE (Vol. 134 pp. 289-301, March 2008).
 - Burian S., Romero, P., Bartlett S. F., 2007, "Improving Communication and Leadership Skills Using Department-Consistent Laboratory Team Experience," *American Society of Engineering Education*
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National Conference, June 24-27, Honolulu Hawaii.

- Olsen, M. J., Bartlett, S. F. and Solomon, B. J., 2007, "Lateral Spread Hazard Mapping of the Northern Salt Lake Valley, Utah, for M7.0 Scenario Earthquake," *Earthquake Spectra*, Vol. 23, Number 1, pp. 95-113.
 - Ozer, T., Bartlett, S. F. and Lawton, E., 2006, "DMT Testing for Consolidation Properties of the Lake Bonneville Clay, 2nd International Conference on the Flat Dilatometer, Washington, D.C., April 2 – 5, 2006.
 - Bartlett, S. F., 2005, "Lightweight Solution," *Infrastructure Technology*, Spring 2005, pp. 36-40 (Chinese and English).
 - Farnsworth, C. and Bartlett, S. F., 2005, "Long-Term Instrumentation Program to Monitor Various Geo-Technologies Used on the I-15 Reconstruction Project, Salt Lake City, Utah," *Transportation Research Board 84th Annual Meetings*, Washington D. C., January 9th to 13th, 2005.
 - Bartlett, S. F., and Farnsworth, C., 2002, "Performance of Lime Cement Stabilized Soils for the I-15 Reconstruction Project, Salt Lake City, Utah," *Transportation Research Record No. 1808*, Paper No. 02-3314, pp. 58-66.
 - Youd, T. L., Hansen, C. M., Bartlett S. F., 2002, "Revised Multilinear Regression Equations for Prediction of Lateral Spread Displacement," *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, December 2002, pp. 1007-1017.
 - Saye, S. R., Esrig, M. I., Williams, J. L., Pilz J., Bartlett S.F., "Lime Cement Columns for the Reconstruction of Interstate 15 in Salt Lake City, Utah." *ASCE Geo-Odessey*, Blacksburg, Virginia, June 10th to 13th, 2001, 16 p.
 - Bartlett S. F., Farnsworth, C., Negussey, D., and Stuedlein, A. W., 2001, "Instrumentation and Long-Term Monitoring of Geofam Embankments, I-15 Reconstruction Project, Salt Lake City, Utah," *EPS Geofam 2001*, 3rd International Conference, Dec. 10th to 12th, 2001, Salt Lake City, Utah, 23 p.
 - Negussey, D., Stuedlein, A. W., Bartlett, S. F., Farnsworth, C., "Performance of Geofam Embankment at 100 South, I-15 Reconstruction Project, Salt Lake City, Utah," *EPS Geofam 2001*, 3rd International Conference, Dec. 10th to 12th, 2001, Salt Lake City, Utah, 22 p.
 - Bartlett, S. F., Monley, G., Soderborg, A., Palmer, A., 2001, "Instrumentation and Construction Performance Monitoring for the I-15 Reconstruction Project, Salt Lake City, Utah," *Transportation Research Record No. 1772*, Paper No. 01-3394, pp. 40-47.
 - Bartlett, S. F., Negussey, D. and Kimble, M., 2000, "Design of Geofam Embankments for the I-15 Reconstruction," *Conference on Application and Design of Expanded Polystyrene*, Sponsored by Taiwan Area National Expressway Engineering Bureau and China Engineering Consultants, Inc., March 3rd, 2000, Taipei, Taiwan, 20 p. (in Chinese).
 - Bartlett, S. F., Negussey, D., Kimball, M., 2000, "Design and Use of Geofam on the I-15 Reconstruction Project," *Conference Proceedings of Transportation Research Board Annual Meetings*, January 9th to 13th, 2000, Washington, D.C., 20 p.
 - Bartlett, S. F., 1999, "Research Initiatives for Monitoring Long Term Performance of I-15 Embankments, Salt Lake City, Utah," *34th Annual Symposium on Engineering Geology and Geotechnical Engineering*, Logan, Utah, May 28th to 30th, 1999, pp. 54-57.
 - Simon, D. B., Shlemon, R. J., and Bartlett, S.F., 1999, "Holocene Ground Failure in Downtown Salt Lake City, Utah," *Geological Society of America, Cordilleran Section*, Vol. 31, Number 6, Berkeley,
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California, May 1999, p. A95.

- Youd, T.L., Hansen, C.M., and Bartlett, S.F., 1999, Revised MLR Equations for Predicting Lateral Spread Displacement, Proceedings, 7th U.S.- Japan Workshop on Earthquake Resistant Design of Lifeline Facilities and Countermeasures Against Liquefaction, Seattle, Washington, Multidisciplinary Center for Earthquake Engineering Research Technical Report MCEER-99-0019, p. 99-114.
- Bartlett, S. F., and Youd, T. L. 1995, "Empirical Prediction of Liquefaction-Induced Lateral Spread," Journal of Geotechnical and Environmental Engineering, ASCE, April 1995, pp. 316 – 329.
- Bartlett, S. F., and Youd, T. L., 1993, "Prediction of Liquefaction-Induced Ground Displacement near Bridges," Proceedings from the U.S. National Earthquake Conference, Memphis, Tennessee, May 2nd to 5th, 1993, p. 575-584.
- Bartlett, S. F., McMullin, S. R., and Serrato, M., 1993, "State of the Art Design: A Closure System for the Largest Hazardous Waste Landfill at the Savannah River Site," Proceedings of Waste Management '93 Symposium, Volume 2, Technology and Programs for Radioactive Waste Management and Environmental Restoration, Tucson, Arizona, February 28th to March 4th, 1993, p. 1729-1735.
- Bartlett, S.F. and Youd, T.L., 1992, Empirical Prediction of Lateral Spread Displacement: Proceedings, 4th US-Japan Workshop on Earthquake Resistant Design Lifeline Facilities and Countermeasures for Soil Liquefaction, Honolulu, Hawaii, May 1992, NCEER-92-0019, v. 2, p. 351-366.
- Youd, T.L., and Bartlett, S.F., 1990, Case Histories of Lateral Spreads from the 1964 Alaska Earthquake: Proceedings, 3rd Japan - U.S. Workshop on Earthquake Resistant Design of Lifeline Facilities and Countermeasures for Soil Liquefaction, National Center for Earthquake Engineering Research, Buffalo, New York, p. 175-190.
- Youd, T.L., and Bartlett, S.F., 1988, U.S. Case Histories of Liquefaction-Induced Ground Displacement," National Center for Earthquake Engineering Research in Proceedings of First U.S.-Japan Workshop on Liquefaction, Large Ground Deformation and Their Effects on Lifeline Facilities, p. 22-31.

Monographs and Other Publication

- Editors, Arellano, D. Ozer, A. T., Bartlett, S.F. Vaslestad, J., 2018, "5th International Conference on Geofom Blocks in Construction Applications," Proceedings of EPS 2018, Published by Springer, <https://www.springer.com/la/book/9783319789804>
- Stark, T. D., Bartlett, S. F. and Arellano, D., 2012, "Expanded Polystyrene (EPS) Geofom Applications and Technical Data, The EPS Industry Alliance, 1298 Cronson Blvd., Suite 201, Crofton, MD 21114, p. 36a
Bartlett, S.F., Lingwall, B. N., Trandafir, A. C. and Lawton E. C, 2012, "Protection of Steel Pipelines from Permanent Ground Deformation Using EPS Geofom," in Increasing the Seismic Resilience of Natural Gas Systems - Select Topics of Interest, ASCE Technical Council and Lifelines and Earthquake Engineering, p.

Databases

- Bartlett, SF, Sharifi Mood, M, Gillins, DT, et al. (2018) Geotechnical Database for Utah (GeoDU). DesignSafe-CI. DOI: [10.17603/DS2ST19](https://doi.org/10.17603/DS2ST19).

Patents and Disclosures

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- INTERNATIONAL APPLICATION, International Publication Number WO2017024286A1, World Intellectual Property Organization, "Light-weight bridge support systems and methods of use," February 9th, 2017.
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- “Liquefaction Evaluations and Mapping,” Korean Institute of Civil Engineering and Building Technology, August 7th, 2019.
- “Reduction of Seismic Vulnerability,” Korean Society of Geotechnical Engineers, Seoul, South Korea, May 31st, 2019.
- “Design and Evaluation of Seismic Stability of Free-standing Embankments for Transportation Systems,” EPS 2018, Kyrenia, Northern Cyprus, May 9th, 2018.
- “Bridge Foundations Supported by EPS Geofoam Embankments on Soft Soils,” EPS 2018, Kyrenia, Northern Cyprus, May 9th, 2018.
- “Construction and Performance of EPS Geofoam for Transportation Projects” (invited speaker), Central Road Research Institute, New Delhi, India, Oct. 15th, 2015
- “Geofoam Basic Concepts and Applications,” Ministry of Road Transport and Highways, (invited speaker), New Delhi, India, Oct. 16th, 2015.
- “Construction and Performance of EPS for Transportation Projects: I-15 Interstate and UTA Light-Rail and Commuter Rail Case Histories,” (keynote address) 1st Geofoam Conference in Latin America, Mexico City, Mexico, February, 24th 2015.
- “EPS-block Geofoam in Civil Engineering Applications,” (keynote address), Conference on Geosynthetic Uses and Applications, Bogazici University, Istanbul Turkey, May 29th, 2014.
- “Protection of Pipelines and Buried Structures Using EPS Geofoam,” (Invited Session Theme Lecturer), GeoShanghai 2014, Shanghai, China, May 25th to 27th, 2014.
- “Dynamic Properties of EPS Geofoam from Cyclic Uniaxial Tests with Initial Deviator Stress,” EPS 2011, Oslo, Norway, June 5th to 8th, 2011.
- “Applications of EPS Geofoam in Design and Construction of Earthquake Resilient Infrastructure,” EPS 2011, Oslo, Norway, June 5th to 8th, 2011.
- “Construction and Long-Term Performance of Transportation Infrastructure Constructed Using EPS Geofoam on Soft Soil Sites in Salt Lake Valley, Utah,” EPS 2011, Oslo, Norway, June 5th to 8th, 2011.
- “Instrumentation and Long-Term Monitoring of Geofoam Embankments, I-15 Reconstruction Project, Salt Lake City, Utah,” EPS Geofoam 2001, 3rd International Conference, Salt Lake City, Utah, December 10th to 12th, 2001.
- “Design of Geofoam Embankment for the I-15 Reconstruction,” (invited speaker), Conference on Application and Design of Expanded Polystyrene, Sponsored by Taiwan Area National Expressway Engineering Bureau and China Engineering Consultants, Inc., Taipei, Taiwan, March 3rd, 2000.

Presentations at National / Regional Conferences

- “Design and Construction Alternatives for the Songdo Bypass Highway,” Presentation to the Korean Ministry of Land Infrastructure and Transport, June 5th, 2020.
 - “Seismic Considerations and Design Methodology for Light-weight Cellular Concrete Embankments and Backfill,” 49th Annual Southeastern Transportation and Geotechnical Engineering Conference (STGEC), Louisville, Kentucky, October 8, 2018.
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- “Long-Term Settlement Performance Monitoring, I-15 Reconstruction Project, Salt Lake City, UT, ASCE GeoOmaha, February 9th, 2018.
 - “Seismic Considerations and Design Methodology for Light-weight Cellular Concrete Embankments and Backfill,” Keynote Speaker, Webinar hosted by Aerix Industries, Dec. 6th, 2017.
 - “Guidelines for Geofoam Applications in Slope Stability Projects,” Transportation Research Board Webinar, Invited Presenter, July 27th, 2017.
 - “Applications of Expanded Polystyrene Geofoam for Transportation Infrastructure, Overview of Functions Applications, Design Considerations and Guidelines,” Invited Speaker, Transportation Research Board Workshop 178, January 8th, 2017.
 - “PEER – Development of Next Generation Liquefaction (NGL) Database for Liquefaction-Induced Lateral Spread,” (invited speaker), Pacific Earthquake Engineering Research (PEER) Workshop, Berkeley, California, Feb. 5th, 2016.
 - “EPS Geofoam Construction and Performance in Rail, Bridge and Pavement Systems,” (invited speaker), ACH Foam National Meetings, Atlanta, Georgia, March 18th, 2015.
 - “Protection of Pipelines from Permanent Ground Deformation Using EPS Geofoam,” (invited speaker), Basin and Range Province Seismic Hazard Summit III, Salt Lake City, Utah, Jan. 12-17, 2015.
 - “Lateral Spread Database Quality and Needs,” (invited speaker) Workshop on the Development of the Next Generation Liquefaction Database, Pacific Earthquake Engineering Research (PEER) Workshop, Berkeley, California, March 17th, 2014.
 - “Simplified Methods for Estimating Settlement and Lateral Spreading,” (invited speaker) Workshop on the State of Art and Practice in Earthquake Induced Soil Liquefaction Assessment,” National Research Council of the National Academies, Phoenix Arizona, March 10-11th, 2014.
 - “EPS Geofoam in Civil Engineering Applications,” ACH Foam Technologies National Mtgs., Denver Colorado, Feb. 14th and 15th, 2012.
 - “Liquefaction Hazard Mapping of the Salt Lake Valley, Utah,” 61st Annual Meetings of the Geological Society of America, Orem, Utah, May 11-13, 2009.
 - “Introducing Risk-Based Performance Standards in Earthquake Hazard Ordinances,” Earthquake Engineering Research Institute National Meetings, Salt Lake City, Utah, February 11-14, 2009.
 - “Evaluating the Seismic Stability and Performance of Freestanding Geofoam Embankment,” 6th National Seismic Conference on Bridges and Highways, Charleston, S.C., July 27th–30th 2008.
“Geofoam Construction, Long-Term Performance, and Innovative Uses,” ACH Foam Technologies National Mtgs., Kansas City, Mo., February 8, 2008.
 - “I-15 Test Bed Projects Overview,” I-15 National Testbed Technology Transfer Symposium, Salt Lake City Utah, Sept. 17-18, 2003.
 - “Performance of Lime Cement Stabilized Soil for the I-15 Reconstruction Project,” I-15 National Testbed Technology Transfer Symposium, Salt Lake City Utah, Sept. 17-18, 2003.
 - “Site-Specific Response Analyses and Design Spectra for Soft Soil Sites,” I-15 National Testbed Technology Transfer Symposium, Salt Lake City Utah, Sept. 17-18, 2003.
 - “Long-Term Monitoring of Geofoam Embankments, I-15 Reconstruction,” I-15 National Testbed Technology Transfer Symposium, Salt Lake City Utah, Sept. 17-18, 2003.
 - “Embankment Performance Studies, Overview,” I-15 National Testbed Technology Transfer Symposium, Salt Lake City, Utah, Sept. 17-18, 2003.
 - Consolidation Properties from Field and In-situ Testing,” I-15 National Testbed Technology Transfer
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- “Design, Construction, and Monitoring of Geofam Embankments,” North American Geotechnical Society, Past President’s Seminar, Syracuse, New York, May 15th, 2002.
- “Instrumentation and Construction Performance Monitoring for the I-15 Reconstruction Project, Salt Lake City, Utah,” Transportation Research Board Annual Meetings, Washington, D.C., January 7th to 11th, 2001.
- “Design and Use of Geofam on the I-15 Reconstruction Project,” Transportation Research Board Annual Meetings, Washington, D.C., January 9th to 13th, 2000.
- “Issues Related to the Seismic Design of I-15 Reconstruction Project - A Geotechnical Perspective,” Association of Engineering Geologist 42nd Annual Meetings, Salt Lake City, Utah, September 28th, 1999.
- “Geofam Design, Construction, and Research on the I-15 Corridor Reconstruction Project,” Annual Meeting of the Society of the Plastics Industry, Inc., New Orleans, Louisiana, April 23rd to 24th, 1998.
- “Prediction of Liquefaction-Induced Ground Displacement Near Bridges,” U.S. National Earthquake Conference, Memphis, Tennessee, May 2nd to 5th, 1993.
- “State of the Art Design: A Closure System for the Largest Hazardous Waste Landfill at the Savannah River Site,” Waste Management '93 Symposium, Tucson, Arizona, February 28th to March 3rd, 1993.
- “Case Studies of Liquefaction-Induced Ground Failures,” Address to the Symposium on Earthquake-Induced Landslides, Joint Meetings of the Cordilleran and Rocky Sections, Geological Society of America, Spokane Washington, May 8th to 11th, 1989.

Other Miscellaneous Presentations

- “Probabilistic Liquefaction Triggering and Lateral Spread Hazard Maps for Davis, Weber and Salt Lake Counties,” Presented to the Utah Department of Transportation, Salt Lake City, Utah, June 24th, 2020.
 - “Innovative Materials for Civil Engineering and Architectural Applications,” United Nations-Habitat Meeting, October 29th, 2019, Songdo, Incheon, South Korea,
 - “Geofam in Civil Engineering Applications,” Seoul National University, College of Agricultural and Life Sciences, Department of Landscape Architecture and Rural Systems Engineering, Mar. 18th, 2019.
 - “Liquefaction-Induced Ground Displacement Hazard Maps for Salt Lake County, Utah, Salt Lake County Planning Division, September 29th, 2016.
 - “B.S. Construction Engineering Program, Civil and Environmental Engineering at the University of Utah,” presentation made to the Utah Board of Regents of Higher Education, July 15th, 2016.
 - “Design and Construction of Surcharged Embankment,” Utah Department of Transportation, July 7th, 2016.
 - Use of EPS Geofam in Transportation Systems, presentation made to Walkers CML, Colombo, Sri Lanka, May 9, 2016.
 - “Use of EPS Geofam in Civil Engineering Applications,” presentation made to Korea Agency for Saemangeum Development and Investment, Gusan City, South Korea, May 3, 2016.
 - “EPS Geofam Lightweight Backfill and Landscaping Applications,” presentation made to Tishman Speyer, Bangalore, India, Oct. 14, 2015.
 - “Construction and Performance of EPS Geofam for Transportation Projects,” EPS Specialty Conference, Mumbai, India, Oct. 13, 2015.
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- “Geofoam Research Consortium, EPS Geofoam Development, and Marketing Strategies,” Board of Directors, Supreme Petrochemical LTD, Mumbai, India, Oct. 12, 2015.
 - “Geofoam Research and Geomembrane Applications,” Current Advancements and Trends in Containment Technology, Seminar sponsored by Fabricated Geomembrane Technology, Salt Lake City, Utah, September 16th, 2015.
 - “Implementation of Risk-Based Liquefaction Maps in Hazard Ordinances and Risk-Based Decision Making,” Update to the Utah Department of Public Safety, Salt Lake City, Utah, February 19th, 2015.
 - “Liquefaction Hazards – From Mapping to Implementation,” Utah Liquefaction Advisory Group Meetings, Salt Lake City, Utah, February 9th, 2015.
 - “Mapping of Liquefaction Hazard for Salt Lake and Weber Counties,” Utah Geological Association (UGS), Salt Lake City, Utah, December 8th, 2014.
 - “Instrumentation Plan of EPS Geofoam, UTA Frontrunner and Trax Systems,” Utah Transit Authority, Salt Lake City, Utah, October 1, 2014.
 - “Use of EPS Geofoam in Transportation Systems,” Invited Lecturer, Civil Engineering Applications of EPS, Ankara, Turkey, June 7th, 2014.
 - “Use of EPS Geofoam in Civil Engineering Applications, Invited Lecturer, Istanbul, Turkey, June 3rd, 2014.
 - “EPS-Lightweight Backfill and Landscaping Applications,” Disney Shanghai Project Team, Shanghai, China, May 23, 2014.
 - “Mapping of Lateral Spread Displacement Hazard, Weber County, Utah, Earthquake Engineering Research Institute (EERI) Liquefaction Short Course, Salt Lake City, Utah, April 9th, 2014.
 - “Bridges Supported on EPS Geofoam,” Norwegian Public Road Administration, Oslo, Norway, Sept. 24, 2013.
 - “Use of EPS Geofoam in Seismic Applications,” Association of Environmental and Engineering Geologists (AEG), Intermountain Section, Salt Lake City, Utah, May 9th, 2013.
 - “EPS Design for Seismic Applications,” Kleinfelder Technical Seminar, Salt Lake City, April 18th, 2013.
 - “Progress Report of the Utah Liquefaction Advisory Group,” Utah Liquefaction Advisory Group Meetings, Salt Lake City, Utah, February 4, 2013.
 - “EPS Geofoam in Civil Engineering Applications,” Broadway Foam, Shanghai, China, Sept. 3rd, 2012.
 - “Liquefaction Hazard for Salt Lake Valley,” Technical Presentation to Utah Seismic Safety Commission, October 25th, 2012.
 - “Fabricated Geomembranes for EPS Geofoam Applications,” Fabricated Geomembrane Institute (FGI) short course, Salt Lake City, Utah on May 21st, 2012.
 - “Slope Protection Plan for the SM Highland’s Properties,” Tagatay, Philippines, March 22, 2011.
 - “Understanding Earthquake Hazards and Their Effects,” Half-Moon Seminar, Seismic Design, Salt Lake City, Utah, Mar. 9, 2011.
 - “Progress Report of the Utah Liquefaction Advisory Group for FY 2009,” Utah Liquefaction Advisory Group Meetings, Salt Lake City, Utah, February 13, 2010.
 - Report to ASCE Council on Disaster Risk Management, 2009 L’Aquila Italy, Earthquake, August 14, 2009.
 - “Seismic Design of Geofoam Embankment,” AusPhil Construction, North Luzon Elevated Expressway, Luzon, Philippines, March 2009.
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- "Use of EPS Geofoam to Minimize Consolidation Settlement for Reclaimed Land," Philcoi and Pagcor Projects, Manila, Philippines, March 2009.
 - "Progress Report of the Utah Liquefaction Advisory Group for FY 2008," Utah Liquefaction Advisory Group Meetings, Salt Lake City, Utah, February 11, 2009.
 - "Evaluation of the Seismic Vulnerability of the Transportation System in Salt Lake Valley," Utah Seismic Safety Commission, Salt Lake City, Utah, January 8th, 2009.
 - "Challenges of Embankments on Soft Soils," Utah Department of Transportation Engineering Conference, Salt Lake City, Utah, November 6th, 2008.
 - "Performance and Seismic Design of Geofoam Embankments," (invited speaker), American Society of Civil Engineers, St. Louis Section, May 8th, 2008.
 - "Progress Report of Utah Liquefaction Advisory Group for FY 2007," Utah Liquefaction Advisory Group Meetings, Salt Lake City Utah, Feb. 14, 2008.
 - "Pipeline Protection from Normal Faults Using EPS Geofoam," Utah Seismic Safety Commission, Salt Lake City, Utah, Oct. 26, 2007.
 - "Soil-Geofoam-Pipeline Interaction and Modeling," Presented to Questar Gas Corporation, Salt Lake City, Utah, Sept. 14, 2007.
 - "Comparison of Equivalent Linear and Non-linear 1D Ground Response Analyses," Utah Department of Transportation, October 25, 2007.
 - Progress Report of Utah Liquefaction Advisory Group for FY 2006," Utah Liquefaction Advisory Group Meetings, Salt Lake City Utah, Feb. 28, 2007.
 - Progress Report of Liquefaction Advisory Group for FY 2005," Utah Liquefaction Advisory Group Meetings, Salt Lake City Utah, Feb. 22, 2006.
 - "Lateral Spreading Hazard Mapping of Northern Salt Lake County for a Magnitude 7.0 Scenario Earthquake," Utah Liquefaction Advisory Group, Feb. 22, 2006.
 - "Seismic Lateral Earth Pressures for Buried Structures," Structural Engineers Association of Utah, Salt Lake City, October 20, 2005.
 - "Liquefaction and Lateral Spread Susceptibility of Lake Bonneville Deposits, Northern Salt Lake Valley, Utah," Utah Liquefaction Advisory Group, Salt Lake City, Utah, March 4, 2005.
 - "Progress Report of Liquefaction Advisory Group for FY 2004," Utah Liquefaction Advisory Group Meetings, Salt Lake City Utah, March 4, 2005.
 - "Construction and Post-Construction Performance of Foundation Treatments and Embankments for the I-15 Reconstruction Project," Invited Speaker Presentation to the Seattle Section of the American Society of Engineers, April 3, 2004.
 - "Developing Response Spectra for Site Class E Soils," Earthquake Hazards in Utah: Improving Our Understanding, 2004 Earthquake Conference, Salt Lake City, Utah, Feb. 26, 2004.
 - "Progress Report of Liquefaction Advisory Group for FY 2003," Earthquake Hazards in Utah: Improving Our Understanding, 2004 Earthquake Conference, Salt Lake City, Utah, Feb. 26, 2004.
 - "Ground Response Analyses and Design Spectra for UDOT Bridges on Soft Soil," Workshop sponsored by the Utah Department of Transportation, Salt Lake City, Utah, Jan. 8, 2004.
 - "UDOT Guidance for Developing Design Response Spectra for Soft Soils," Geologic Hazards in Utah, Sponsored by AEG and ASCE, Salt Lake City, Utah, April 12th to 13th, 2001.
 - "Instrumentation and Research of Geofoam Embankments for the I-15 Reconstruction," Huntsman Chemical Geofoam Seminar, Salt Lake City, Utah, May 16th, 2000.
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- “Assessment of the Hazard Potential for the East Side of I-80,” Conference on the Seismic Retrofit of Utah’s Highway Bridges, sponsored by the Utah Department of Transportation, Salt Lake City, Utah, January 20th to 22nd, 1999.

Summary of Research and Funding

- Development of Next Generation Liquefaction (NGL) Database for Liquefaction-Induced Lateral Spread, FHWA Pooled Fund Study, Contract Amendment 1, \$29,645.07, 2019.
 - Mitigation of Differential Settlement at Highway Bridge Approaches, Mountain Plains Consortium (MPC), \$40,000, 2018.
 - Probabilistic Liquefaction Triggering and Lateral Spread Hazard Maps for Davis, Weber and Salt Lake Counties, Utah Department of Transportation, \$8,011, 2018.
 - Mitigation of Differential Settlement at Highway Bridge Approaches, Utah Department of Transportation, \$104,368, 2018.
 - Probabilistic Liquefaction Triggering and Lateral Spread Hazard Maps for Davis, Weber and Salt Lake Counties, United States Geological Survey, National Earthquake Hazards Reduction Program, Intermountain West, \$45,159, 2017.
 - Development of Next Generation Liquefaction (NGL) Database for Liquefaction-Induced Lateral Spread, Mountain Plains Consortium (MPC), \$51,682, 2017.
 - Development of Next Generation Liquefaction (NGL) Database for Liquefaction-Induced Lateral Spread, FHWA Pooled Fund Study, Utah Department of Transportation Lead State and Contracting Party, \$110,355, 2016.
 - Evaluation of Seismic Ground Response and Soil-Structure Interaction for High-Level Spent Fuel Casks on Concrete Pads, as part of Seismic Performance of Dry Casks Storage for Long-Term Exposure Sponsored by Department of Energy, INL, \$873,320 (total), \$23,056 Dr. Bartlett’ part, 2013-2016.
 - Evaluation of Geofoam for Support of Freight Rail Tracks and Deflection and Vibration Monitoring of EPS Embankments for Light-Rail and Heavy Rail Applications, National Center for Freight and Infrastructure Research and Education (CFIRE) in collaboration with the U. of Memphis, \$40,352 (Dr. Bartlett’s part), \$90,278 (total), 2013.
 - Highway Structures Supported on Expanded Polystyrene (EPS) Embankment without Deep Foundations, Mountain Plains Consortium (MPC) and Norwegian Public Roads Administration (NPRA), \$25,053 (Dr. Bartlett’s part), \$57,133 (total), 2013.
 - Implementation of Risk-Based Liquefaction Maps in Hazard Ordinances and Risk-Based Decision Making and Traffic Modeling of Liquefaction-Induced Damage to Transportation System in Salt Lake Valley, Utah, Federal Emergency Management Administration (FEMA) and the Utah Department of Public Safety, \$65,717 (Dr. Bartlett’s part), \$95,588 (total), 2013.
 - Surcharge Design and Evaluations to Reduce Secondary Consolidation Settlement of Embankments, Utah Department of Transportation and Mountain-Plains Consortium, \$66,000, 2012.
 - Lateral Spread Ground Failure Maps for Weber County, Utah, United States Geological Survey, National Earthquake Hazards Reduction Program, Intermountain West, \$33,507, 2012.
 - Use of Adhesive for EPS Geofoam Block, Insulfoam Corp., \$6000, 2012.
 - Lateral Spread Hazard Evaluations for Weber County, Utah, Principal Investigator, \$25,000, Weber Basin Water Conservancy District, 2010.
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- Geotechnical Analysis and Design of Foundations for Transmission Line Structures at Three Locations, Co-PI with Dr. Evert C. Lawton, PacifiCorp, \$288,546, Dr. Bartlett's part (\$95,220) 2010.
 - EPS Geofoam for Protection of Buried Pipelines, Geosynthetic Institute, \$10,000 fellowship grant to graduate student Bret Lingwall, 2010.
 - High Strength Concrete Coating (Gigacrete) for EPS Embankments, \$6,000 grant, Oracle Construction, Manila Philippines, Principal Investigator, 2009.
 - Improved Stability and Consolidation Assessment of Embankments, \$100,000, Utah Department of Transportation, Co-PI with Dr. Evert Lawton, Dr. Bartlett part (\$50,000), 2008-2009.
 - Development of an EPS (Expanded Polystyrene) Geofoam Cover System for High-Pressure Gaslines subjected to Vertical Offset during Normal Faulting, Principal Investigator, \$77,040, Questar Gas Corporation, Salt Lake City Utah, 2008.
 - Bechtel Technical Grant, EPS Geofoam Trench and Cover System for High-Pressure Gas lines subjected to Horizontal Offset during Strike-Slip Faulting, Principal Investigator, \$39,995, 2008.
 - Seismic Performance of a High-Pressure Gas line crossing a Normal Fault, Principal Investigator, \$2,500 grant, Questar Gas, Salt Lake City, Utah, 2007.
 - Probabilistic Liquefaction Potential and Liquefaction-Induced Ground Failure Maps for the Urban Wasatch Front: Phase IV, United States Geological Survey, National Hazards Reduction Program, Principal Investigator, \$56,441, 2007.
 - Assessment and Prioritization of UDOT Transportation Lifelines and Identification of Critical Bridges," Utah Department of Transportation and Mountain-Plains Consortium, Co-PI with Dr. Peter Martin, funding \$100,000 (Dr. Bartlett's part, \$60,000) 2006 – 2007.
 - Development of Strong Ground Motion Array for the Legacy Highway, Co-PI with Dr. Marvin Halling, Utah State University, funded by the Utah Department of Transportation, \$31,396 (Dr. Bartlett's part), 2006-2007.
 - University of Utah Seismic Mitigation Plan - Assessment of the Seismic Vulnerability of the University of Utah Buildings, Sponsored by Federal Emergency Management Agency and the Utah Department of Homeland Security, Co-PI with Drs. L.D. Reaveley and Ryan Smith, 2006-2008, Co-PI, \$43,409 (Dr. Bartlett's part), 2006 – 2007.
 - Probabilistic Liquefaction Potential and Liquefaction-Induced Ground Failure Maps for the Urban Wasatch Front: Phase III, United States Geological Survey, National Hazards Reduction Program, Principal Investigator, \$64,609, 2006.
 - Evaluation of Construction and Long-Term Performance of Innovative Foundation Treatments Used on the I-15 Reconstruction Project, Federal Highways Administration (FHWA) and Utah Department of Transportation (UDOT), Phase II, Principal Investigator, \$146,606, 2005-2010.
 - Probabilistic Liquefaction and Potential Liquefaction-Induced Ground Failure Maps for the Wasatch Front: Phase II, United States Geological Survey, National Hazards Reduction Program, Principal Investigator, \$19,868, 2005.
 - Cosmic Ray Observatory, Delta Utah, Array Reconnaissance, University of Utah Vice President Office of Research, \$8,500 (Dr. Bartlett's part), 2004.
 - Tooele Army Depot Noise Compliance Monitoring, United States Department of Defense, Department of the Army, Tooele Army Depot, Tooele, Utah, Principal Investigator, \$14,610, 2004.
 - Development of Probabilistic Liquefaction Susceptibility and Lateral Spread Displacement Maps from National Strong Ground Motion Maps, Phase I, United States Geological Survey, National Earthquake
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Hazards Reduction Program, Principal Investigator, Co-PI with Dr. Loren Anderson (USU) and Barry Solomon (UGS), \$40,845 (Dr. Bartlett's part), 2004.

- Soil Mechanics Laboratory Testing Equipment, University College of Engineering Base Engineering Equipment Fund (BEEF), funded \$30,150 (CVEEN amount), 2003.
- Estimation of Consolidation and Drainage Properties of Soft Soils from In Situ and Laboratory Methods, Federal Highways Administration (FHWA) and the Utah Department of Transportation (UDOT), Co-PI with Dr. Evert Lawton, \$112,576 (Dr. Bartlett's part), 2003.
- Estimation of Consolidation and Drainage Properties of Soft Soils from In Situ and Laboratory Methods, Federal Highways Administration (FHWA) and the Utah Department of Transportation (UDOT), Co-PI with Dr. Evert Lawton, \$31,955 (Dr. Bartlett's part), 2002.
- Evaluation of Construction and Long-Term Performance of Innovative Foundation Treatments Used on the I-15 Reconstruction Project, Federal Highways Administration (FHWA) and Utah Department of Transportation (UDOT), Principal Investigator, \$132,000, 2002.
- Development of Design Response Spectra for Soft Soil Sites from Probabilistic Based Bedrock Spectra, Utah Department of Transportation, Principal Investigator, \$43,269, 2001. Evaluation of Construction and Long-Term Performance of Innovative Foundation Treatments Used on the I-15 Reconstruction Project, Federal Highways Administration (FHWA) and Utah Department of Transportation (UDOT), Phase I, Principal Investigator with Utah Department of Transportation, \$130,000 1999-2000.
- Deformation and Modeling of MSE Wall Behavior, I-15 National Testbed Program, Sponsored by the Federal Highways Administration and the Utah Department of Transportation, Co-Principal Investigator with Utah Department of Transportation in conjunction with Drs. Loren Anderson and James Bay, Utah State University and Utah Department of Transportation, 1999-2000.
- Evaluation of Properties and Long-Term Performance of Geofoam Fills, I-15 National Testbed Program, Sponsored by the Federal Highways Administration and the Utah Department of Transportation, Co-Principal Investigator with the Utah Department of Transportation in conjunction with Dr. Dawit Negussey, Syracuse University, 1998-2000.
- Evaluation of Geopiers and Pile Foundation to Lateral and Uplift Loads, Research Project Manager, Utah Department of Transportation, 1998-2000.
- Design, Application, and Use of Carbon-Fiber Composites in Bridge Repair and Seismic Retrofitting, Research Project Manager, Utah Department of Transportation, 1998-2000. Use of Forced Vibration Testing to Assess Bridge Damage, Research Project Manager, Utah Department of Transportation, 1998.
- Wick Drain Performance, Research Project Manager, Utah Department Transportation 1998-1999.
- Geostatistical Assessment of In-Situ and Engineering Properties at H-Tank Farm, U.S. Department of Energy, Savannah River Site, Co-Principal Investigator with S. Rouhani, Georgia Tech., Westinghouse Savannah River Company, 1994 - 1995.

Courses Taught

- CVEEN 1000 Introduction to Civil and Environmental Engineering (Developed Course)
 - CVEEN 1400 Computer Aided Drawing and Drafting (Developed Course)
 - CVEEN 2000 Civil and Environmental Engineering Seminar
 - CVEEN 2140 Strength of Materials
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- CVEEN 2410 Geomatics
- CVEEN 3310 Geotechnical Engineering I
- CVEEN 4910 Professional Practice and Design
- CVEEN 5305 Introduction to Foundations Engineering
- CVEEN 6330 Soil Dynamics (Developed Course)
- CVEEN 6340 Field and Laboratory Testing of Soils (Developed Course)
- CVEEN 6920 Numerical Methods in Geotechnical Engineering (Developed Course)
- CVEEN 7920 Applied Continuum Mechanics to Geosystems (Developed Course)
- CVEEN 7330 Geotechnical Earthquake Engineering (Developed Course)

Short Courses (Developed)

- “Evaluation of Secondary Consolidation Settlement Associated with Embankment Construction for Fast-Paced Transportation Projects in Utah,” Utah Department of Transportation, January 22nd, 2019.
- “Lightweight Fill Design – Geotechnical Short Course,” American Society of Civil Engineers, Nebraska Section, Omaha, Nebraska, February, 8th, 2018.
- “Bridge-Support Workshop on Lightweight Fill” held in conjunction with Norwegian Public Roads Administration and the Utah Department of Transportation, Salt Lake City, Utah, October 11th and 12th, 2016,
- “Understanding Earthquake Hazards and Their Effects,” Half-Moon Seminar, Seismic Design, Salt Lake City, Utah, Mar. 9, 2011.
- “Development of Site-Specific Response Spectra,” IBC Strong Motion Short Course, sponsored by the Utah Section of the American Society of Civil Engineering, Salt Lake City, Utah April 18, 2003.

Graduate Students Supervised

- Massoud Hosseinali, (current Ph.D. student)
 - Mark Goodsell (current Ph.D. student)
 - Nadereh Adham (2019)
 - Swastik Pokhrel (2019) Fugro, Houston, Texas
 - Hamid Sarmadi (2018) (Dunn and Associates, Salt Lake City)
 - Dr. Ramesh Neupane (2015) (Terracon, West Virginia)
 - Dr. Zahra Amini (2013) (Geosyntec, Los Angeles, California)
 - Prof. Daniel Gillins (2012) (Oregon State University, now NOAA)
 - Dr. Xianhong (John) Meng (Metro Testing Ltd. Group, Vancouver, Canada) (2012)
 - Prof. Bret Lingwall (2011) (Assistant Professor, South Dakota School of Mines)
 - Prof. Clifton Farnsworth (2008) (Assistant Professor, Brigham Young University)
 - Prof. Michael Olsen (2005) (M.S. degree advisor, Associate Professor, Oregon State University)
 - Prof. A. Tolga Ozer (2004) (Assistant Professor, Okan University, Istanbul, Turkey) (co-advisor)
 - Zachary Gibbs, M.S., (2015) (Gerhart-Cole)
 - Shun Li, M.S. (2014) (IGES)
 - Matthew Moriarty, M.S. (2014) (Kleinfelder)
 - Zachary McClellan, M.S. (co-advisor) (2013) (Ferrovia Argoman)
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- Daniel Hinckley, M.S. (UDOT) (2010)
- Bart Leeflang, M.S., (2009) (U.S. Bureau of Reclamation, Provo, Utah)
- Robert Snow, M.S., (2008) (URS Corporation, Salt Lake City, Utah)
- Samra Bukva, M.S., (2008) (FLSmidth)
- Michelle Flint Cline, M.S. (2006) (Parson Brinkerhoff, Salt Lake City, Utah)
- Marie Perry Newman, M.S., (2006) (unaffiliated)
- Griffen Erickson, M.S. (2006) (Electrical Consultants Inc., Salt Lake City, Utah)
- Patrick Alcorn, M.S. (2004) (affiliation unknown)
- Amy Poloni (2002) (unknown affiliation)

Media Exposure

- Interview, Asia New Communication TV, Republic of Korea, Apr. 2019
<http://www.anews.com/detail.php?number=1672862&thread=03r02>
 - “University of Utah Engineering students study traffic in Little Cottonwood Canyon, make suggestions for future,” Fox 13 News, <http://fox13now.com/2018/04/22/university-of-utah-engineering-students-study-traffic-in-little-cottonwood-canyon-make-suggestions-for-the-future/>
 - “New study proposes mass transit and toll to alleviate congestion in Little Cottonwood Canyon,” Channel 4 News, <http://www.good4utah.com/news/local-news/new-study-proposes-mass-transit-and-toll-to-alleviate-congestion-in-little-cottonwood-canyon/1129190835>
 - “Study recommends toll for Little Cottonwood Canyon’s traffic troubles,”
<https://www.ksl.com/?sid=46301090&nid=148&title=study-recommends-toll-for-little-cottonwood-canyons-traffic-troubles>
 - “Little Cottonwood Canyon, “Students may have solutions for congestion, April 20, 2018, Salt Lake Tribune,” <https://www.sltrib.com/news/environment/2018/04/19/university-of-utah-students-offer-plan-to-solve-gridlock-in-little-cottonwood-canyon-without-adding-pavement/>
 - “Put in Toll for Little Cottonwood Canyon Road,” Deseret News, Tuesday, April 17, 2018,
<https://www.deseretnews.com/article/900015976/study-recommends-toll-for-little-cottonwood-canyons-traffic-troubles.html>
 - Big Cottonwood Canyon Improvements (2017)
<http://www.sltrib.com/news/5195044-155/university-of-utah-students-say-charging>
<http://www.deseretnews.com/article/print/865678343/U-engineering-study-recommends-variable-toll-for-Big-Cottonwood-Canyon.html>
 - ASCE OCEA Project Finalist (2015), Announced in Civil Engineering Blog and New Network,
http://blogs.asce.org/ocea-project-finalists-the-colton-crossing-flyover/?_ga=1.86117272.1685517799.1430844099
http://blogs.asce.org/ocea-project-finalists-the-colton-crossing-flyover/?_ga=1.86117272.1685517799.1430844099
 - Municipal Sewer and Water (2014), Protecting your pipes,
http://www.mswmag.com/editorial/2014/07/protecting_your_pipes
 - Colton Crossing: Relieving the Oldest Bottleneck in U.S. History, HDR (2015),
<https://www.youtube.com/watch?v=JulD4jZTv9Y>
 - Colton Crossing Flyover, American Society of Civil Engineers (ASCE) (2015),
<https://www.youtube.com/watch?v=1ItEdTsDnmo>
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- OCEA Project Finalist – Colton Crossing Flyover, ASCE News (2014), <http://news.asce.org/ocea-project-finalist-colton-crossing-flyover/>
- ASCE Civil Engineering Magazine (2013), “Ingenious Infill, <http://ascelibrary.org/doi/abs/10.1061/ciegag.0000455>
- EPS-Pipeline research quoted in North American Oil and Gas Pipelines (2013), <http://www.achfoam.com/Media-Coverage-2011.aspx>
- CE News (9/2013), Protecting pipelines from effects of earthquakes, http://www.cenews.com/print-magazinearticle-protecting_pipelines_from_eff-9437.html
- Department of Geology and Mineral Industries regarding earthquake and liquefaction hazard study completed for port and energy facilities in Portland, Oregon, <http://nwnewsnetwork.org/post/extended-fuel-shortages-predicted-quake-risk-study>
- EPS Geofoam for Utah Transit Authority TRAX West Valley Line, KSL TV (2010) <https://www.youtube.com/watch?v=oPBFZuV8qHM>
- Lightweight Embankment Fill Beneath TRAX West Valley Line, KSL TV (2010) <https://www.youtube.com/watch?v=Z9kXjTZekmc>
- I-15 Reconstruction Opal Award (2002), http://geofoam.syr.edu/GRC_News.asp
- Largest Geofoam Project in the World: I-15 Salt Lake City, Produced for the EPS Industry by Huntsman Corporation
- “Towards More Disaster Resistant Communities,” Shaky Wasatch KCPW Public Radio, Science and Technology Series, Mar. 2, 2006

Consulting Experience

- Consultant to Oracle Construction, 5600 W. Geofoam Embankment, Salt Lake, City Utah. 2020.
 - Consultant to AECOM, Gordie How International Bridge Project, I-75 Interchange, Michigan, 2019-2020.
 - Consultant to Auercon, Geofoam Cover System for Liquid Gas Pipeline, Lynnwood Ridge, South Africa, 2020.
 - Technical Advisory Panel Member for Port of San Francisco, Mission Rock Development Project, Light-weight Cellular Concrete Design Review, San Francisco, California, 2019.
 - Consultant to Stantec, Seismic Evaluations of George Lucas Museum of Narrative Arts, Los Angeles, California, 2018 to 2019.
 - Consultant to Stantec, Seismic Stability Evaluations for Design Study Report, Geofoam Cover System for WMU32 Closure, Tesoro Martinez Refinery, Martinez, California, 2019-2020.
 - Consultant to AECOM, Engineering Design and Construction Services, New Water Reclamation Facility, Salt Lake County, Utah, 2018 to 2019.
 - Consultant to Covintec, Design of bridge approach replacement and reconstruction with EPS Geofoam, Lerma, Mexico, 2017.
 - Consultant to Maltani Global Korea Limited, Evaluation of EPS geofoam use for Steel Building Erection Facility, Gusan City, South Korea, 2016.
 - Consultant to AFM Corporation, Simplified Vertical Stress Calculations in Geofoam Roadway Systems, Minnesota, U.S., 2015.
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- Consultant to Oracle Construction, P-8 Aircraft Stress Distribution Calculations for Airport Taxiway Constructed Atop EPS Geofoam, Maryland, U.S., 2015
 - Consultant to Supreme Petrochem Ltd., Mumbai, India, Calculation for the use of EPS-block under airport runway, 2015.
 - Consultant to Oracle Construction, Seismic Calculations for EPS geofoam used for the rooftop of the residential complex, 625 W. 57th St. NY, NY, 2015.
 - Consultant to Oracle Construction, EPS Stress Calculations, Paseo Del Norte Interchange, 2014.
 - Consultant to Mega Packaging, Design of EPS roadway widening project, Santa Rosa, Philippines, 2014.
 - Consultant to Oracle Construction and FFKR Architects, 3D Stress Distribution Calculations for Truck Loadings, Provo, LDS Temple, Provo, Utah, 2014.
 - Consultant to Oracle Construction, U.S., 3D Stress Distribution Calculations for Truck and Tire loadings to EPS Geofoam Embankment, Truck On-Ramp, Ohio, 2014.
 - Consultant to Insulation Factory Ltd. Industrial City, EPS Cover System, and Design, Phase #3 Road No. 311, Jeddah, Kingdom of Saudi Arabia, 2014.
 - Consultant to Oracle Construction, U.S., EPS Stress Distribution Calculations for Bridge Approach, Route 49, New Jersey, 2014.
 - Consultant to ACH Foam, Evaluation of EPS Cover System to protect the subsiding pipeline, Brian Head Ski Resort, Cedar City, Utah, 2013.
 - Consultant to Oracle Construction, U.S., 3D Stress Distribution Calculations for Truck and Tire loadings to EPS Geofoam Embankment, I-15 Brigham City, Utah, Interchange, 2013.
 - Consultant to Oracle Construction, U.S., Repair of EPS Block Wall, Quantico, Virginia, 2013.
 - Consultant to Macro Industrial, Design of EPS, Avida Cenetra Project, Manila, Philippines, 2013.
 - Consultant to Broadway Industrial Group Limited, Singapore, EPS Geofoam Application for Soft Ground Site, Disney Shanghai, China, 2012.
 - Consultant to Résonance Ingénieurs-Conseils, Carouge, Switzerland, Liquefaction and Lateral Spread Evaluation of an Industrial Complex Lonza, Visp, Switzerland, 2012.
 - Consultant to Oracle Construction, U.S., EPS Geofoam Ramp for Sufco Mine Car, Salina, Utah, 2012.
 - Consultant to Oracle Construction, Philippines, Consolidation and EPS Settlement Calculations for El Nido Airport Expansion, El Nido Philippines, 2012.
 - Consultant to Oracle Construction, U.S., EPS Geofoam Stress Distribution Analysis for Airport Bridge Approach Fill, Gary, Indiana, 2012.
 - Consultant to Oracle Construction, U.S., Settlement and Earth Pressure Analysis of EPS/MSE Wall System for Mitchell Ave., Ohio, 2012.
 - Consultant to Oracle Construction, Philippines, EPS Geofoam Placement at Capistrano Pump Station, Capistrano Road, Taguig, Philippines, 2012.
 - Consultant to Oracle Construction, Philippines, Use of EPS Geofoam to Remediate Roadway Damage, South Luzon Expressway, Philippines, 2012.
 - Consultant to Oracle Construction, Philippines, Design of EPS Geofoam Access and Perimeter Roads for Manila Sanitary Landfill, Manila Philippines, 2012.
 - Consultant to Tikalsky Engineering, Concrete Block Wall Investigations, Saint George, Utah, Oct. 2011.
 - Consultant to Gerhart-Cole, Ferron Dam Remediation, Ferron, Utah, Oct. 2011.
 - Consultant to Advanced Engineering Solutions, EPS Geofoam Design for Utah Transit Authority, West
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Valley Line, Salt Lake City, Utah, June 2011.

- Consultant to Advanced Engineering Solutions, Settlement Evaluations, Fairlane Green Mall, Allen Park Michigan, Target Superstore, Detroit Michigan, May 2011.
 - Consultant to HDR, Seismic Design of Cellular Concrete Embankment for the Colton, Ca. Crossing, 2010-2011.
 - Consultant to Oregon Dept of Geology and Mineral Industries, Portland, Oregon, 2010.
 - Consultant to Oracle Construction, Geofoam Design for AWH Spine Road, Philippines, 2010.
 - Consultant to Oracle Construction, Geofoam Design for Santa Rosa Road access to SM Mall, Philippines, 2010.
 - Consultant to Oracle Construction USA and Scarsella Brothers Inc., Geofoam Approach Fill, Topaz Bridge, Idaho, 2010.
 - Consultant to HDR, St. Louis BPS-Tucker Boulevard Phase 2, Geofoam Embankment Design, St. Louis Missouri, 2009.
 - Consultant to Oracle Construction Philippines, Tagatay Highlands Development, Geofoam Stabilization of Landslides at Woodridge Development, Luzon, Philippines, 2009.
 - Consultant to Oracle Construction Philippines, Philkoi Development, Geofoam Roadway Evaluations, Manila Bay Philippines, 2009
 - Consultant to Oracle Construction Philippines, Pagcor Development, Geofoam Landscaping, and Seismic Evaluations, Manila Bay, Philippines, 2009.
 - Consultant to Oracle Construction Philippines, North Luzon Elevated Expressway Geofoam Evaluations and Seismic Stability, Manila, Philippines, 2009.
 - Consultant to Timpanogos Constructors, Seismic and Liquefaction Evaluations, I-15 Core Project, Utah Co., Utah, 2009.
 - Consultant to Kiewit, SR519 Project, Geofoam Design and Construction, Seattle, Washington, 2009.
 - Consultant to Parson/Kiewit, Beck Street Project, Seismic and Liquefaction Evaluations, Salt Lake City, Utah, 2008-2009.
 - Consultant to URS Corporation, Seismic Evaluations for LDS Church Temples in Utah, 2008-2009.
 - Consultant to URS Corporation, Development of Site-specific Response Spectra, I-80 Reconstruction, State Street to 1300 East, Salt Lake City, Utah, 2007.
 - Consultant to Draper City, Development of Geohazard Ordinance, 2007.
 - Consultant to Questar Gas, Seismic design of high-pressure gas line at Wasatch Fault crossing, Salt Lake City, Utah, 2007.
 - Consultant to Walker and Monitz, Evaluation of Pavement Failure at Hershey Distribution Center, Salt Lake City, Utah, 2006.
 - Design Development and Review of Geofoam Slope for SR 264 at Second Mesa for Advanced Engineering Solutions, Second Mesa, Arizona, 2006.
 - Design Review of Geofoam Remediation of an MSE wall failure for Advanced Engineering Solutions, Mescalero, New Mexico, 2005.
 - Conceptual Design, Altinova, Turkey Naval Facility, review and modeling of ground improvement to mitigate liquefaction and seismic ground deformation for Geopier International Corporation, 2005.
 - Consultant to Simon-Bymaster Inc., assessment and foundation underpinning of LDS Church, Stockton, Utah, 2005.
 - Consultant to Applied Engineering Solutions, Instrumentation of geofoam embankment over the
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municipal waste landfill, Target Store, Detroit Michigan, 2004.

- Utah Division of Water Quality, Review of Site Requirements for Septic Tanks and Drain Fields, November 2004.
 - Expert Witness, H-K Contractors versus North Davis Sewer District, Davis Co., Utah, 2004.
 - Senior Consultant, Central Weber Sewer, and Water Improvement District, Weber Co., Utah, Review of Ground Response Analysis Performed by Terracon Consultants Inc., 2003.
 - Design Review, Arizona Department of Transportation, Geofoam Landslide Stabilization, State Route 264 at Second Mesa, October 2003.
 - Expert Witness for the State of Utah in litigation and hearings before the U.S. Nuclear Regulatory Commission Atomic Safety and Licensing Board for the License Application of the Private Fuel Storage Facility, Skull Valley Utah, 1999 to 2002.
 - Reviewer, Metropolitan Water District of Salt Lake and Sandy, Utah, Review of Seismic Design Policy, 2003
 - Geotechnical Designer, I-15 Reconstruction Design-Build Team, Geotechnical Design Engineer, Woodward Clyde Consultants, 1997 - 1998.
 - Designer, Kennecott Utah Copper Tailing Impoundment Modernization Project, Geotechnical Design Engineer, Woodward-Clyde Consultants, 1997.
 - Consultant, Salt Lake City Airport, Reliability Analysis of Control Two Foundation Excavation Failure, Woodward-Clyde Consultants, 1997.
 - Designer, Wasatch County Water Efficiency Project, Geological and Geotechnical Investigations, Woodward-Clyde Consultants, 1997-1998.
 - Designer, Bear River Pipeline Alignment Study, Geological and Geotechnical Investigations for the Salt Lake Water Conservancy District, Woodward-Clyde Consultants, 1997.
 - Investigator, Delta, and Gunnison Bend Dam Seismic Stability Investigations for the State of Utah, Dam Safety Program, Woodward-Clyde Consultants, 1997.
 - Designer, Seismic Retrofit of Salt Lake City Waste Water Treatment Plant Effluent Pump Building, Geotechnical Design Engineer, Woodward-Clyde Consultants, 1996.
 - Investigator, Cainville Dam, Wayne County Utah, Geological and Geotechnical Investigations of Proposed Reservoir and Dam Site, Woodward-Clyde Consultants, 1996.
 - Investigator, Hurricane Bridge Foundation Investigation, Geological and Foundation Investigations for the Utah Department of Transportation, Woodward-Clyde Consultants, 1996.
 - Designer, ITP/H-Area Tank Farm Geotechnical Investigations and Seismic Qualification, Department of Energy, Savannah River Site, Principal Investigator for Westinghouse Savannah River Company, 1993-1995.
 - Designer, CERCLA and RCRA Hazardous Waste Landfill Investigations and Closure Design, Department of Energy, Savannah River Site, Project Manager, Westinghouse Savannah River Company, 1991-1992.
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