

Curriculum Vitae

LYNN F. FENSTERMAKER

Associate Research Professor, Ecological Remote Sensing
Division of Earth and Ecosystem Sciences, Desert Research Institute
Nevada System of Higher Education
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EDUCATION

Ph.D.	2003	Biology, University of Nevada, Las Vegas
M.S.	1986	Agronomy, Pennsylvania State University
B.S.	1981	Environmental Resource Management, Pennsylvania State University

EXPERIENCE

2006 – Present	<i>Associate Research Professor</i>
2004 – 2006	<i>Assistant Research Professor</i>
1990 - 2004	<i>Ecological Remote Sensing Scientist</i> Desert Research Institute, Division of Earth and Ecosystem Sciences, Nevada System of Higher Education, Las Vegas, Nevada
1989 - 1990	<i>Soil and Remote Sensing Scientist</i> Environmental Research Center, University of Nevada, Las Vegas.
1987 - 1989	<i>Assistant to the Director</i> Environmental Research Center, University of Nevada, Las Vegas.
1984 - 1987	<i>Scientist</i> Lockheed Engineering and Mgmt Services Co., Inc., Las Vegas, Nevada.
1979 - 1984	<i>Laboratory/Field Technician</i> Agronomy Department, the Pennsylvania State University.
1981 - 1983	<i>Research/Teaching Assistantship; Assistant Coach, Soil Judging Team</i> Agronomy Department, the Pennsylvania State University.

PROFESSIONAL INTERESTS

Dr. Fenstermaker has experience in assessing, mapping, and monitoring the effect of environmental stressors on vegetation at small and large scales using multispectral, hyperspectral and SAR remotely sensed data from ground to satellite based platforms including UAS (unmanned aircraft systems). Recent research has focused on the use of remote sensing to estimate evapotranspiration for riparian and phreatophytic zones, fine scale examination of crop stressors, and wildfire impact on Great Basin and Mojave Desert vegetation. Dr. Fenstermaker has management and supervisory experience as the Director of the NV Space Grant Consortium, NV NASA EPSCoR and two statewide research programs addressing the effects of climate change: Nevada Desert FACE Facility (NDFF) and the Mojave Global Change Facility (MGCF). She is the past Director of the Nevada Climate-ecohydrological Assessment Network (NevCAN). She has experience as a Co-PI and NV Program Manager for a NSF EPSCOR Track 2 project developing a virtual watershed platform. She is also serving as the Deputy Director of the DRI Division of Earth and Ecosystem Sciences and DRI's UAS Liaison. She serves on two national boards (National Space Grant Foundation and NASA EPSCoR Caucus) and a state board that governs the Nevada

Institute for Autonomous Systems. Additional experience includes the use of remotely sensed data to map land use/land cover, monitor environmental status and trends, and the development of quality assurance/quality control procedures for spatial data. Dr. Fenstermaker has experience in soil characterization and basic soil science from work conducted at the Pennsylvania State University Soil Characterization Laboratory and as a participant with and Assistant Coach of the Penn State Soil Judging Team (1978-1984). Dr. Fenstermaker has taught classes at the University of Nevada, Las Vegas and participated in community and K-12 mentoring programs to inform students about ecological and remote sensing research as well as the rewards of a career in science.

TEACHING EXPERIENCE

2014-present	Guest lecturer on GIS, Remote Sensing and NASA programs for several UNLV classes
2008-present	Teach lab on field spectroscopy measurements for UNLV Water Mgmt Course
2000	Remote Sensing Ecology Course, University of Nevada, Las Vegas (Spring semester)
1999	Plant Physiology Laboratory, University of Nevada, Las Vegas (Fall semester)
1981-83	Assistant Coach, Pennsylvania State University Soil Judging Team

ADVANCED TRAINING

National Science Foundation Supercommunicator Workshop, Las Vegas NV, February 4-5, 2016.

NV Institute for Autonomous Systems UAS Observer Training and Certification: Hawthorne NV, December 11, 2015.

Unmanned Aircraft Systems (UAS) Workshop – Embry Riddle Aeronautical University, Las Vegas, NV, February 27-28, 2014.

UCAR Advanced Study Program Colloquium on Terrestrial Biosphere and Atmosphere Interactions held at NCAR, Boulder, CO, July 15-26, 1996.

Imaging Spectrometer Data Analysis Techniques, by the Program for Industrial Excellence in Remote Sensing (PIERS) at the University of Colorado, Boulder, June 7-11, 1993.

GPS for the U.S. EPA, Course 355, Navtech Seminars Inc., November 18-22, 1991.

Analysis of AVHRR Data Workshop, ASPRS, Denver, Colorado, March, 1990.

The Working Woman's Stress Management Seminar, CareerTrack, Las Vegas, NV, February 16, 1990

The Quality Advantage, Organizational Dynamics, Inc., Las Vegas, NV, 1989

Ecological Quality Assurance Workshop, Las Vegas, NV, February 8-10, 1989

Programming dBase III Plus, Clark County Community College, Las Vegas, NV June 24, 1988

Effective People Skills, Floyd Winsett, Las Vegas, NV, October 27, 1987

Seven Basic Habits of Highly Effective People, Dr. Stephen Covey, Las Vegas, NV, September 17, 1986

Learning Through Discussion, The National Management Association, Las Vegas, NV, 1986

Administrative Skills for the Manager, National Management Association, Las Vegas, NV, May 1986

ARC/INFO, NETWORK, GRID/GRID TOPO GIS training course provided by the Environmental Systems Research Institute at Las Vegas, Nevada. May and January, 1986

Interpersonal Relationships, The National Management Association, Las Vegas, NV, 1985

Communication Skills, The National Management Association, Las Vegas, NV, October, 1985

Hydrologic Info Systems Workshop, EROS Data Center, Sioux Falls, SD, October, 1985.

MEMBERSHIPS

American Society of Photogrammetry and Remote Sensing
American Society of Agronomy
Ecological Society of America
Association of Unmanned Vehicle Systems International (AUVSI) (Past member)
Organization for Biological Field Stations (Past member)

SERVICE

Boards

Member and Deputy Treasurer of the National Space Grant Foundation Board of Directors
Member of the NASA EPSCoR Caucus, Nominating Committee
Member of the NV Institute for Autonomous Systems Governing Board (the NV FAA UAS Test Site)

Advisement and Mentoring

Graduate student advisement:

UNLV: member of two PhD (2005-2007 and 2016-present) and three MS graduate student committees (2010-present); primary remote sensing mentor for one PhD and one MS student; providing undergraduate research opportunities in remote sensing; and NASA Graduate Student Internship Advisor (2013-2014); overseeing all data processing

Mentoring:

Presenter at DRI's "May the Science be With You" STEM event, May 4, 2016
Presenter at Las Vegas Science and Technology Expo, College of Southern NV, April 24, 2015
Capstone Press: consultant for two middle school books about deserts
Expanding Your Horizons in Mathematics & Science Conference (Grades 6-12): speaker at 4 events
NSHE Mentoring and Modeling Program for K-12: speaker
Odyssey of the Mind, Las Vegas NV: judge for two years
Tutor: provide science and math tutoring to neighbors

Professional Review

Manuscript reviewer for: International Journal of Remote Sensing; Astrobiology; Remote Sensing of Environment; Biogeosciences; Ecohydrology; Sensors; Photogrammetric & Engineering of Remote Sensing; Global Biogeochemical Cycles; Western North American Naturalist; Environmental Management; and Book reviews of: Climate Smart; a chapter on the Mojave Desert for Ecosystems of California; and A Natural History of the Mojave Desert book outline for University of Arizona Press.

Proposal reviewer for: American Association for the Advancement of Science (AAAS); National Science Foundation; U.S. Army Office of Research; NSF EPSCoR; Nevada Space Grant; and American Chemical Society's Petroleum Research Fund.

Public Outreach

Featured in several UAS and climate news interviews (print, radio and TV). Radio interviews for Discovery Canada and Swiss Public Radio. An example of a print interview is a feature in Desert Companion article "Generation Drone";

<http://www.desertcompanion.com/article.cfm?ArticleID=865>

TV interview examples include:

<http://www.8newsnow.com/story/24717873/i-team-drone-usage-raises-legal-questions-about-privacy>

<http://www.mynews3.com/mediacenter/local.aspx?videoID=4981361>

AWARDS AND HONORS

2002	DRI Sabbatical Leave award
1997	George C. and Jane B. Maxey Award (\$1000)
1994	Fellowship, Southwest Region of Soroptimist International (\$1000)
1980-1981	Coaly Society; Pennsylvania State University Agriculture Honorary Society
1979-1981	Member of two 5 th place teams at two National Intercollegiate Soil Judging contests, member of two 1 st place teams and received two 2 nd high individual awards at two Northeast Regional Soil Judging contests
1976	Cooperative Extension Service, Montour County 4-H College Scholarship

RESEARCH GRANTS and CONTRACTS

2016-2020	Team member: Modeling Linkages among Soil-Terrain-Atmosphere Processes Critical for Military Operations. U.S. Army Corps of Engineers, Cold Regions Research and Engineering Laboratory (\$3,675,158)
2016-2017	Principal Investigator: Development of Unmanned Aircraft System (UAS) for Agricultural Applications. NV Governor's Office of Economic Development (\$152,238)
2015-2018	Principal Investigator: NV NASA EPSCoR Research Infrastructure Development (\$375,000)
2015-2018	Principal Investigator: NV NASA Space Grant Consortium Grant (\$1,030,000)
2015-2018	Administrative PI: Advanced Transport Technologies for NASA Thermal Management/Control Systems. NASA EPSCoR (\$750,000 Federal)
2015-2016	Administrative PI: Advanced Computer Vision, Robotics and Visualization Algorithms for Improving Planetary Exploration and Understanding. NASA EPSCoR (\$750,000 Federal)
2015-2016	Administrative PI: Advanced Electroactive Polymer Sensors and Actuators for Aerospace Robotics Applications. NASA EPSCoR (\$750,000 Federal)
2014-2017	Administrative PI: Building Capacity in Interdisciplinary Snow Sciences for a Changing World. NASA EPSCoR (\$750,000 Federal)
2013-2016	Co-Investigator, Project Manager and Watershed Science team member: The Western Consortium for Watershed Analysis, Visualization, and Exploration (WC-WAVE). NSF EPSCoR (\$2,000,000)
2013-2014	Principal Investigator: NASA RID Workshop. NASA EPSCoR (\$15,357)
2013-2014	Principal Investigator: NevCAN to IBM PureSystem Pilot. DRI VPR (\$77,428)
2012-2014	Principal Investigator: Development of a Standard Approach for Terrestrial Ecosystem Assessment and Monitoring. BP International (\$93,324)
2012-2014	Co-Investigator: Strategies for Climate Change Adaptation at the Dryden Flight Research Center and within the Mojave Desert. NASA (\$347,179)
2012-2014	Principal Investigator: NDFF Data Management and Participation in Data Synthesis. DOE via subcontract from ORNL (\$63,165)
2012-2013	Principal Investigator: DFRC Climate Adaptation Workshop. NASA (\$32,249)
2010-2012	Principal Investigator: Updated Estimation of Annual Phreatophytic Evapotranspiration for White River, Spring and Snake Valleys. Southern Nevada Water Authority (\$95,000)
2010-2012	Principal Investigator: Assessing the Envelope of Interannual Variation in Vegetation Response to Climate in Spring Valley, NV. NSF EPSCoR (\$25,000)

2010-2011	Co-Investigator: IPA-New Technologies for Rapid Ecological Assessment. Desert Research Institute (\$14,797)
2009-2014	Co-Investigator: Desert Terminal Lakes – Water Resources Evaluation Program. DOI Bureau of Reclamation (\$3,300,000)
2009-2011	Co-Investigator: Soil Moisture Determination for Ecosystem, Precipitation and Hydrological Modeling. NV System of Higher Education (\$33,776)
2009-2010	Co-Investigator: IPA – Relating Moisture Content and Reflectance Spectra of Biological Soil Crust to Carbon Flux. Desert Research Institute (\$16,137)
2009-2010	Principal Investigator: Hot Spring Microbial Spectra. DRI (\$9910)
2008-2013	Component Lead (2010-13): Nevada Infrastructure for Climate Change Science, Education and Outreach. NSF EPSCoR (\$15,000,000)
2007-2009	Principal Investigator: Accuracy Assessment of Basin ET Estimates. Southern Nevada Water Authority (\$80,000)
2006-2007	Co-Principal Investigator: Global Change and Ecosystem H ₂ O & CO ₂ fluxes in the Mojave and Negev Deserts. International Arid Lands Consortium. (\$100,000)
2005-2006	Co-Principle Investigator: Effects of Changing Water and Nitrogen Inputs on a Mojave Desert Ecosystem. DOE-PER (\$312,102)
2004-2008	Subcontract Principle Investigator: Estimating Basin Evapotranspiration for Spring Valley and White River Valley, Nevada: Remote Sensing Component; Southern Nevada Water Authority (\$139,200)
2001-2007	Co-Principal Investigator: Responses of a Mojave Desert Ecosystem to Simulated Global Change; DOE-PER (\$728,724)
2000-2011	Co-Principal Investigator: Biotic Processes Regulating the Carbon Balance of Desert Ecosystems, DOE-TCP I and II (\$2,250,000; 2,532,230; \$804,551)
2000-2004	Subcontract Principal Investigator: Long-term Comparative Study of Golf Courses Irrigated with Re-use versus Municipal Water: Remote Sensing Component; Toro Corporation and Las Vegas Valley Water Authority (\$64,000)
1998	Co-Principal Investigator: Detecting Change in Arid Vegetation Cover Using Hyperspectral Data; DOE and State of NV (\$160,000)
1998	Principal Investigator: Effect of Dust on Plant Spectra; DOE, (\$17,000)
1998-2001	Co-Principal Investigator: Constructing a Long-Term Ecological Research Program at the NTS; NSF (\$500,000)
1995-2000	Program Manager: Remote Sensing Research; U.S. Govt (\$3,557,115)
1996-1997	Principal Investigator: Estimation of Evapotranspiration; SNWA (\$30,000)
1996-1997	Principal Investigator: Background FACE Spectra; DRI (\$13,326)

PUBLICATIONS

Books/Book Chapters

The Mojave Desert: Ecosystem Processes and Sustainability (2009) R.H. Webb, L.F. Fenstermaker, J.S. Heaton, D.L. Hughson, E.V. McDonald and D.M. Miller (editors), University of Nevada Press, Reno NV.

Smith, S.D., T.N. Charlet, L.F. Fenstermaker and B.A. Newingham. (2009) Effects of Global Change on Mojave Desert Ecosystems, 41 pp in R.H. Webb, L.F. Fenstermaker, J.S. Heaton, D.L. Hughson, E.V. McDonald and D.M. Miller (editors), The Mojave Desert: Ecosystem Processes and Sustainability, University of Nevada Press, Reno NV.

Webb, R.H. L.F. Fenstermaker, J.S. Heaton, D.L. Hughson, E.V. McDonald and D.M. Miller (2009) The Mojave Desert: Ecosystem Processes and Sustainability Revisited, 8 pp. pp in R.H. Webb, L.F. Fenstermaker, J.S. Heaton, D.L. Hughson, E.V. McDonald and D.M. Miller (editors), The Mojave Desert: Ecosystem Processes and Sustainability, University of Nevada Press, Reno NV.

Fenstermaker, L.F. (2003) Estimation of Evapotranspiration at Different Scales Using Traditional and Remote Sensing Techniques. PhD Dissertation, University of Nevada Las Vegas, Las Vegas, NV.

Fenstermaker, L.F., T.N. Charlet, T.E. Huxman, J.S. Coleman, R.S. Nowak and S.D. Smith, (2002) Global Climate Change Research in the Nevada Desert. Pages 97-106 in DA Charlet (*editor*). Nevada Environmental Issues, Kendall/Hunt Publishing Company, Dubuque, IA.

Fenstermaker, L.K., editor, (1994) Remote Sensing Thematic Accuracy Assessment: A Compendium. American Society for Photogrammetry and Remote Sensing, Bethesda, MD, ISBN 1-57083-002-9, 413p.

Fenstermaker, L.K., editor (1988) Remote Sensing Applications for Acid Deposition. A Proceedings prepared for the U.S. Environmental Protection Agency's Environmental Monitoring Systems Laboratory, Las Vegas, Nevada under cooperative agreement no. CR814002-01, published by the University of Nevada, Las Vegas, 180 p.

Chlorinated Dioxins and Related Compounds (1987) McNelis D.N., C.H. Nauman, L.K. Fenstermaker, S. Safe, R.E. Clement, J. Campana, R. Kahn, M. Fingerhut, P. desRosiers, E.J. Sampson, R.K. Mitchum, C. Rappe, D.G. Barnes, F. Hileman and L.H. Keith (guest editors), Chemosphere 18, Nos 1-6, 1339 p.

Fenstermaker, L.K., (1986) Diurnal Reflectance and Emittance Characteristics of a Desert Surface. MS Thesis, The Pennsylvania State University, State College, PA.

Invited Papers (peer reviewed)

Fenstermaker, L.F., R.L. Jasoni, J.A. Arnone III, and D.A. Devitt (2012) Impact of pixel versus footprint approaches on empirically derived ET estimates from Landsat TM, pp 202-205, in CMU Neale and MH Cosh (editors) IAHS/AISH Remote Sensing and Hydrology, Proceedings of a Symposium organized by the International Commission on Remote Sensing of IAHS, Jackson Hole, WY, 27-30 September, 2010, IAHS Publ 352.

Fenstermaker, L.K. and J.R. Miller (1994) Identification of Fluvially-Redistributed Mill Tailings Using High Spectral Resolution Aircraft Data. Photogrammetric Engineering and Remote Sensing, 60(8):989-995.

Journal Papers (peer reviewed)

Devitt, D.A., B. Bird, B. Lyles, L. Fenstermaker, R. Jasoni, S. Strachan, J. Arnone, F. Biondi, S. Mensing and L. Saito (*Ready for submission*) Mountain valley eco-hydrologic connectivity in the Great Basin, NV. Anticipated submission to Water Resources Research.

Apodaca, L. D. Devitt and L. Fenstermaker (In Review) Assessing growth response to climate in a Great Basin Big Sagebrush (*Artemisia tridentata*) plant community. Dendrochronologia.

Young, M.H., L. Fenstermaker and J. Belnap (2017) Monitoring water content dynamics of biological soil crusts. Journal of Arid Environments; currently available online at:
<http://www.sciencedirect.com/science/article/pii/S0140196317300484>

- Chen, C., L. Fenstermaker, H. Stephen and S. Ahmad (2015) "Distributed Hydrological Modeling for a Snow Dominant Watershed Using a Precipitation and Runoff Modeling System." World Environmental and Water Resources Congress 2015, 10.1061/9780784479162.248, 2527-2536.
- Evans, R.D., A. Koyama, D.L. Sonderegger, T.N. Charlet, B.A. Newingham, L.F. Fenstermaker, B. Harlow, V.L. Jin, K. Ogle, S.D. Smith and R.S. Nowak (2014) Greater ecosystem carbon in the Mojave Desert after 10 years exposure to elevated CO₂. *Nature Climate Change*, DOI: 10.1038/NCLIMATE2184.
- Mensing, S., S. Strachan, J. Arnone, L. Fenstermaker, F. Biondi, D. Devitt, B. Johnson, B. Bird and E. Fritzinger (2013) A network for observing Great Basin climate change. *Eos, Transactions American Geophysical Union*, 94(11):105-106.
- McGwire, K., M. Weltz, J. Finzel, C. Morris, L. Fenstermaker and D. McGraw (2013) Multiscale assessment of green leaf cover in a semi-arid rangeland with a small unmanned aerial vehicle. *International Journal of Remote Sensing* 34:1615-1632.
- Devitt D., L.F. Fenstermaker, M.H. Young, B. Conrad, B.M. Bird and M. Baghzouz (2011) Evapotranspiration of mixed shrub communities in phreatophytic zones of the Great Basin. *Ecohydrology*. DOI: 10.1002/eco.169.
- Baghzouz M., D.A. Devitt, L.F. Fenstermaker and M.H. Young (2010) Monitoring vegetation phenological cycles in two different semi-arid environmental settings using a ground based NDVI system: A potential approach to improve satellite data interpretation. *Remote Sensing*, 2:990-1013, doi:10.3390/rs2040990.
- Wohlfahrt, G., A. Haslwanter, L. Hörtnagl, R.L. Jasoni, L.F. Fenstermaker, J.A. Arnone III and A. Hammerle, (2009) On the consequences of the energy imbalance for calculating surface conductance to water vapour. *Agricultural and Forest Meteorology* 149:1556-1559.
- Young, M.H., T.G. Caldwell, D.G. Meadows and L.F. Fenstermaker, (2009) Variability of soil physical and hydraulic properties at the Mojave Global Change Facility, Nevada: implications for water budget and evapotranspiration. *Journal of Arid Environments*, doi:10.1016/j.jaridenv.2009.01.015
- Wohlfahrt, G., L.F. Fenstermaker and J.A. Arnone III. (2008) Large annual net ecosystem CO₂ uptake of a Mojave Desert ecosystem. *Global Change Biology*, 14:1475-1487.
- Devitt, D.A., R.L. Morris, M. Baghzouz, M. Lockett, L.K. Fenstermaker (2005) Water quality changes in golf course irrigation ponds transitioning to reuse. *Hort Science*, 40(7): 2151-2156.
- Devitt, D.A., R.L. Morris, L.F. Fenstermaker, M. Baghzouz and D.S. Neuman (2005) Foliar Damage and Flower Production of Landscape Plants Sprinkle Irrigated with Reuse Water. *Hort Science*, 40(6):1871-1878.
- Devitt, D.A., R.L. Morris, and L.F. Fenstermaker. (2005) Foliar Damage, Spectral Reflectance and Tissue Ion Concentrations of Trees Sprinkle Irrigated with Waters of Similar Salinity but Different Chemical Composition. *Hort Science*, 40(3):819-826.
- Smith S.D., T.E. Huxman, S.F. Zitzer, T.N. Charlet, D.C. Housman, J.C. Coleman, L.K. Fenstermaker, J.R. Seemann, and R.S. Nowak (2000) Elevated CO₂ increases productivity and invasive species success in an arid ecosystem. *Nature* 408: 79-82.
- McGwire, K., T. Minor and L. Fenstermaker (2000) Hyperspectral Mixture Modeling for Quantifying Sparse Vegetation Cover in Arid Environments. *Remote Sensing of Environment*, 72(3):360-374.

Devitt, D.A., A. Sala, S.D. Smith, J.A. Cleverly, L.K. Shaulis, and R. Hammett (1998) Bowen Ratio Estimates of evapotranspiration for *Tamarix ramosissima* stands on the Virgin River in southern Nevada. *Water Resources Research*, 34(9):2407-2414.

Fenstermaker-Shaulis, L.K., A. Leskys, and D.A. Devitt (1997) Utilization of remotely sensed data to map and evaluate turfgrass stress associated with drought. *Journal of Turfgrass Management*, 2(1):65-81.

Hibbard, K.A. and L.K. Shaulis (1997) UCAR colloquium on advances in ecosystem-atmosphere interactions. *Bulletin of the Ecological Society of America* 78:164-165.

Lunetta, R.S., R.G. Congalton, L.K. Fenstermaker, J.R. Jensen, K.C. McGwire, and L.R. Tinney (1991) Remote Sensing and Geographic Information System Data Integration: Error Sources and Research Issues. *Photogrammetric Engineering and Remote Sensing*, Vol. 57, No. 6, pp. 677-687.

Proceedings

Shaulis, L.K., D.A. Devitt, and S.D. Smith (1997) Estimation of *Tamarix* Evapotranspiration Using Remotely Sensed Data. *Agronomy Abstracts*, Annual Meeting of American Society of Agronomy, Crop Science Society of America, and the Soil Science Society of America. October 26-31, Anaheim, CA, p. 257.

Fenstermaker, L.K. (1992) Identification of Mill Tailings within the Carson River Superfund Site. *Proceedings, International Symposium Spectral Sensing Research*, Nov 15-20, Maui, HI, 2:997-1007.

Fenstermaker, L.K. (1991) Proposed Approach for National to Global Scale Error Assessments. *Proceedings, GIS/LIS '91*, Atlanta, GA, Vol. 1, pp. 293-299.

Fenstermaker, LK (1991) Thoughts On" Remote Sensing and Geographic Information System Data Integration: Error Sources and Issues. In *The integration of remote sensing and geographic information systems: Proceedings of a special session held at the Baltimore 1991 ACSM-ASPRS Annual Convention* (Vol. 12, p. 97). ASPRS Pub.

Fenstermaker, L.K. (1990) Delineation of Mine Tailings in Southeastern Kansas. *Proceedings, 1990 ACSM-ASPRS Annual Convention*, Denver, Colorado. Vol. 4 pp. 121-125.

Broten, M.D., L. Fenstermaker and J.M. Shafer (1987) An Automated GIS for Ground Water Contamination Investigation," In *Proceedings of the NWWA Conference on Solving Ground Water Problems with Models*, National Water Well Association, Dublin, OH.

Foresman, T.W. and L.K. Fenstermaker (1986) Spatial Data Research for Hazardous Waste Sites. *Proceedings of National Conference on Hazardous Wastes and Hazardous Materials*, Atlanta GA.

Selected Conferences

Devitt, D.A., B. Bird, L. Fenstermaker, R. Jasoni, S. Strachan, J. Arnone, F. Biondi, S. Mensing and L. Saito. (2016) Mountain valley eco-hydrologic connectivity in the Great Basin, NV. *AGU Fall Mtg.*

Strachan, S., S. Mensing, D. Devitt, L. Fenstermaker, B. Lyles, and G. McCurdy (2016) Observing hydroclimatic variability during the 2012-2015 drought using a Great Basin mountain transect: elevation matters! *AGU Fall Meeting*.

Chen, C., L. Fenstermaker, H. Stephen and S. Ahmad (2015) Distributed hydrological modeling for snow dominant watershed using Precipitation and Runoff Modeling System, *ASCE World Environmental & Water Resources Congress*, Austin, TX, May 17-21.

- Fenstermaker, L.F., K.C. McGwire, E.M. Wilcox, J. Tilley, A.C. Watts, J.L. Baker and J.L. Huntington (2014) UAS Environmental Research, Invited presentation, Nevada Governors Conference on Small Business: Las Vegas, NV, September 19, 2014.
- Luus, K., A. Walker, M. de Kauwe, B. Hungate, J.P. Megonigal, M. Lu, L. Fenstermaker, R. Nowak, J. Morgan, B. Medlyn, R. Norby and S. Zaehle (2014) Responses of desert, semi-arid grassland, and shrub-oak ecosystems to elevated CO₂. European Geophysical Union, General Assembly, Vienna Austria, April 27 – May 2.
- Mejia, J. F., V.R. Etyemezian, L.F. Fenstermaker, J.J. Miller and G. Nikolich (2014) Climate Change Impacts at NASA ARMSTRONG (Dryden) flight research Center, NASA CASI/ROSES 4th Annual Climate Adaptation Workshop: Palmdale, CA, January 23, 2014.
- Tilley, J.S. and L.F. Fenstermaker (2014) UAV Research and Development at DRI, Invited talk, Northern NV Regional UAS Economic Development Meeting: Reno, NV, February 28, 2014.
- Etyemezian, V.R., R. Shillito, J.J. Miller, D.S. Shafer, M.E. Cablk, S.A. Campbell, K. Chief, L.F. Fenstermaker, W.J. Forsee, W.J. Meyer, S.A. Mizell and G. Nikolich (2013) Post-fire erosion at a Pinyon-Juniper and a Blackbrush Community: 3+ Years of Data, Great Basin consortium 2nd Annual Conference January 14-16, 2013: Boise, Idaho
- Fenstermaker, L.F. (2013) DRI UAS Expertise and Related Interests. Titans of Industry, June 26-27, 2013, Las Vegas, NV.
- Fenstermaker, L., S. Strachan, F. Biondi, D. Simeral, G. McCurdy, B. Bird, B. Lyles, J. Arnone, D. Devitt and L. Saito (2013) NevCAN: Measuring Climate and Environmental Response in the Great Basin. Great Basin Consortium Conference, January 14-16, 2013, Boise, ID
- Kruse, K.E., L. Saito, L. Fenstermaker, D. Devitt, S. Strachan, C. Morris and M. Weltz (2013) Using runoff collectors to understand surface runoff characteristics in remote Nevada catchments. American Geophysical Union Fall Meeting, December 1, 2013, San Francisco, CA.
- Apodaca, L., D. Devitt and L. Fenstermaker (2012) Assessing Interannual Variation in Vegetation Response to Climate in Spring Valley, NV. Nevada Water Resources Association, March 5-8, Las Vegas, NV.
- Evans, R.D., A. Koyama, D. Sonderegger, T.N. Charlet, B. Newingham, L.F. Fenstermaker, K. Ogle, S.D. Smith and R.S. Nowak (2012) Whole-ecosystem exposure to elevated CO₂ increases total ecosystem C in the Mojave Desert. US DOE Terrestrial Ecosystem Sciences PI Meeting, Washington DC
- Fenstermaker, L.F., S. Strachan, G. McCurdy, B. Bird, D. Devitt, F. Biondi, J. Arnone, L. Saito, R. Jasoni, B. Johnson and B. Lyles (2012) NevCAN: Monitoring Climate Variability and Change along Two Elevation Gradients. CUAHSI Third Biennial Colloquium on Water Science and Engineering, July 16-18, 2012, Boulder CO.
- Evans, R.D., A. Koyama, D. Sonderegger, D. Charlet, B.A. Newingham, L. Fenstermaker, K. Ogle, S.D. Smith and R. Nowak (2011) Whole-ecosystem exposure to elevated carbon dioxide increases total ecosystem carbon and nitrogen in the Mojave Desert. American Geophysical Union, Fall Meeting 2011, Abstract #B31H-0404.
- Fenstermaker, L.F., D.A. Devitt, L.S. Saito, J.A. Arnone III, F. Biondi, B.R. Riddle, M.J. Walker, R.L. Jasoni, S. Strachan, B. Bird, G. McCurdy and B. Lyles (2011) Monitoring climate variability and change along

two elevation gradients in the Mojave and Great Basin Deserts. 96th Ecological Society of America (ESA) Meeting, August 7-12, 2011 Austin TX.

Koonce, J.E., M.H. Young, D.A. Devitt, Z. Yu, A. Wagner and L. Fenstermaker (2011) Soil Water and Thermal Gradients in the Vadose Zone: Assessing Evapotranspiration, Recharge Rates and Shifts in Phreatophytic Water Source. In AGU Fall Meeting Abstracts (Vol. 1, p. 1024).

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