

## SCOTT R. ABELLA

Associate Research Professor

Department of Environmental and Occupational Health

University of Nevada Las Vegas

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### EDUCATION

8/2002-5/2005

**Northern Arizona University, School of Forestry**, Flagstaff, Arizona

*Ph.D. – Forest Science, Restoration Ecology emphasis*

Cumulative GPA: 4.00/4.00 *With Distinction*

**Dissertation:** Environmental and vegetational gradients on an Arizona ponderosa pine landscape: implications for ecological restoration.

8/2000-5/2002

**Clemson University, Department of Forest Resources**, Clemson, South Carolina

*M.S. – Forest Resources, Experimental Statistics minor*

Cumulative GPA: 4.00/4.00 *Summa cum laude*

**Thesis:** Multifactor classification of forest landscape ecosystems of Jocassee Gorges, southern Appalachian Mountains, South Carolina.

8/1997-5/2000

**Grand Valley State University, Department of Biology**, Allendale, Michigan

*B.S. – Natural Resources Management, Chemistry minor*

Cumulative GPA: 4.00/4.00 *Summa cum laude*

**Thesis:** Eastern white pine regeneration and management in Oak Openings Preserve, northwest Ohio.

### RESEARCH FOCUS

Applied ecological research informing conservation and management, in the areas of desert ecology, forest ecology, ecological restoration and revegetation, plant ecology, and fire ecology, focused on community and landscape scales

### POSITIONS

11/2010-present

**University of Nevada Las Vegas**, Las Vegas, Nevada

*Associate Research Professor*

- Coordinating diverse research team of staff and graduate and undergraduate students on a variety of externally funded applied ecology research initiatives in desert and forest ecosystems in three southwestern USA states; Responsible for writing funding proposals, reports, and peer-reviewed manuscripts, and managing budgets and advising undergraduate and graduate students; Conducting outreach activities through the media, production of newsletters, and working with resource managers; Taught courses in ecology, land use management, and restoration ecology

4/2006-11/2010

**University of Nevada Las Vegas**, Las Vegas, Nevada

*Assistant Research Professor/Program Manager*

- Coordinated team of research staff (B.S., M.S.), seasonal botanists, and graduate and undergraduate students on a variety of externally funded applied ecology research initiatives spanning desert and forest ecosystems; Wrote research funding proposals, reports, and peer-reviewed manuscripts; Managed budgets and hiring staff; Advised graduate students; Taught > 10 different undergraduate-graduate courses (appointments included jointly with the Public Lands Institute and the School of Life Sciences and with the Department of Environmental Studies incorporated into the School of Environmental and Public Affairs)

- 8/2006-present **School of Forestry, Northern Arizona University**, Flagstaff, Arizona  
*Adjunct Faculty*
- Collaborating with NAU researchers on research in frequent-fire western forests
- 5/2005-4/2006 **Ecological Restoration Institute, Northern Arizona University**, Flagstaff, Arizona  
*Research Specialist, Sr.*
- Performed field experiments for ponderosa pine forest and Sonoran Desert restoration; Synthesized literature for status-of-knowledge reviews for transferring research results to practitioners; Wrote outreach publications and peer-reviewed manuscripts; Worked with practitioners in field experiments and ecological restoration workshops; Organized a writing workshop (~25 participants) for conservation and restoration of western old-growth frequent-fire forests funded by the National Commission on Science for Sustainable Forestry
- 8/2002-5/2005 **Ecological Restoration Institute, Northern Arizona University**, Flagstaff, Arizona  
*Graduate Research Assistant*
- Developed a multifactor ecosystem classification for a northern Arizona ponderosa pine landscape; Initiated field experiments testing soil, grazing, and seed bank influences on understory plant communities in ponderosa pine forests; Tested fire-related cues for germinating seeds and seed banks of ponderosa pine understory communities
- 9/2004 **Metroparks of the Toledo Area, Natural Resources Department**, Toledo, Ohio  
*Funded Project*
- Monitored experimental plots tracking succession after restoration thinning to reestablish native oak savanna and wet prairie vegetation in northern Ohio pine plantations
- 5/2002-8/2002 **Metroparks of the Toledo Area, Natural Resources Department**, Toledo, Ohio  
*Natural Resources Intern*
- Habitat selection and planning for a \$23 million public land acquisition program passed by county voters in 2002; Monitored oak savanna and wet prairie restoration projects initiated in 1998 funded by the U.S. EPA Great Lakes Project Office; Monitored rare plant populations; Established experiment measuring succession for restoring pine plantations to native vegetation while reducing exotic species
- 8/2000-5/2002 **Clemson University, Department of Forest Resources**, Clemson, South Carolina  
*Graduate Research Assistant*
- Developed a multifactor ecosystem classification for a 13,000-ha southern Appalachian landscape recently acquired by the South Carolina Department of Natural Resources
- 3/2001-9/2001 **U.S. Forest Service, Sumter National Forest**, Columbia, South Carolina  
*Funded Project*
- Surveyed for old-growth forests in a 1600-ha addition to the Sumter National Forest
- 2/2000-8/2000 **Herald Newspapers**, Toledo, Ohio  
*Staff Writer*
- Wrote environment articles related to northwest Ohio ecology
- 5/2000-8/2000 **Metroparks of the Toledo Area, Naturalist Department**, Toledo, Ohio  
*Naturalist Intern*
- Completed fieldwork for several projects including a deer browsing study, habitat analysis for reintroduction of federally endangered Karner blue butterflies, rare plant inventories, oak savanna restoration research; Organized and led public education programs
- 9/1999-4/2000 **Michigan Technological University, School of Forestry**, Houghton, Michigan  
*Research Assistant*
- Collected field data for an experiment testing effects of nitrogen additions in northern hardwood forests along a pollution-climate gradient in the Great Lakes region

- 5/1999-8/1999      **Hull & Associates, Inc., Environmental Consulting**, Toledo, Ohio  
*Environmental Technician*  
 • Sampled ground water and monitored water quality for contaminant source and transport studies; Analyzed data and developed reports
- 8/1998-12/1998      **Grand Valley State University, Computer Science Department**, Allendale, Michigan  
*Assistant Laboratory Instructor*  
 • Assistant instructor for a Visual Basic programming course
- 5/1998-8/1998      **Sylvania Recreation Corporation**, Sylvania, Ohio  
*Landscaping Technician*
- 5/1997-8/1997  
 5/1996-8/1996      • Operated heavy equipment to maintain grounds at a recreational park; announcer for baseball and softball games and coordinated teams of announcers

## PEER-REVIEWED U.S. GOVERNMENT PUBLICATIONS

8. Abella, S.R., C.W. Denton, D.G. Brewer, W.A. Robbie, R.W. Steinke, and W.W. Covington. 2011. Using a terrestrial ecosystem survey to estimate historical density of ponderosa pine trees. Research Note RMRS-RN-45. U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station, Fort Collins, CO. 9 pp.
7. Abella, S.R. 2009. Tree canopy types constrain plant distributions in ponderosa pine-Gambel oak forests, northern Arizona. Research Note RMRS-RN-39. U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station, Fort Collins, CO. 7 pp.
6. Abella, S.R. 2008. Managing Gambel oak in southwestern ponderosa pine forests: the status of our knowledge. General Technical Report RMRS-GTR-218. U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station, Fort Collins, CO. 27 pp.
5. Abella, S.R. 2008. Gambel oak growth forms: management opportunities for increasing ecosystem diversity. Research Note RMRS-RN-37. U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station, Fort Collins, CO. 6 pp.
4. Abella, S.R., and P.Z. Fulé. 2008. Changes in Gambel oak densities in southwestern ponderosa pine forests since Euro-American settlement. Research Note RMRS-RN-36. U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station, Fort Collins, CO. 6 pp.
3. Abella, S.R., and J.D. Springer. 2008. Estimating soil seed bank characteristics in ponderosa pine forests using vegetation and forest-floor data. Research Note RMRS-RN-35. U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station, Fort Collins, CO. 8 pp.
2. Abella, S.R. 2008. Plant recruitment in a northern Arizona ponderosa pine forest: testing seed- and leaf litter-limitation hypotheses. Pp. 119-127 in Olberding, S.D., and M.M. Moore (tech. coords.). Fort Valley Experimental Forest - a century of research 1908-2008. Proceedings RMRS-P-53CD. U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station, Fort Collins, CO. 402 pp.
1. Abella, S.R., and P.Z. Fulé. 2008. Burning southwestern ponderosa pine-oak forests: fire effects on Gambel oak. Research Note RMRS-RN-34. U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station, Fort Collins, CO. 6 pp.

## BOOK CHAPTERS/PARTS OF LARGER WORKS

7. Abella, S.R. Restoration of desert ecosystems. Nature Knowledge (upcoming).
6. Abella, S.R. Great Basin montane forests. Biomes and ecosystems (upcoming).
5. Abella, S.R., and E.C. Engel. Riparian vegetation. Lake Mead science synthesis. USGS Circular. (upcoming).
4. Engel, E.C., and S.R. Abella. Littoral vegetation. Lake Mead science synthesis. USGS Circular. (upcoming).
3. Springer, J.D., S.R. Abella, and T.R. DeKoker. 2011. A survey of monitoring and management activities for

- conserving rare plants in national parks and protected areas, Arizona and Nevada, USA. Pp. 307-317 in Daniels, J.A. (ed.). *Advances in environmental research*, volume 8. Nova Science Publishers, Inc., Hauppauge, NY.
2. Abella, S.R. 2010. Exotic species. Pp. 1048-1050 in Warf, B. (ed.). *Encyclopedia of geography*, volume 2. SAGE Publications, Thousand Oaks, CA.
  1. Abella, S.R., and A.C. Newton. 2009. A systematic review of species performance and treatment effectiveness for revegetation in the Mojave Desert, USA. Pp. 45-74 in Fernandez-Bernal, A., and M.A. De La Rosa (eds.). *Arid environments and wind erosion*. Nova Science Publishers, Inc., Hauppauge, NY. 394 pp.

## JOURNAL ARTICLES

50. Abella, S.R., E.C. Engel, J.D. Springer, and W.W. Covington. 2012. Relationships of exotic plant communities with native vegetation, environmental factors, disturbance, and landscape ecosystems of *Pinus ponderosa* forests, USA. *Forest Ecology and Management* (in press).
49. Abella, S.R., T.M. Embrey, S.M. Schmid, and K.A. Pregaman. 2012. Biophysical correlates with the distribution of the invasive annual red brome (*Bromus rubens*) on a Mojave Desert landscape. *Invasive Plant Science and Management* (in press).
48. Abella, S.R., D.J. Craig, S.D. Smith, and A.C. Newton. 2012. Identifying native vegetation for reducing exotic species during the restoration of desert ecosystems. *Restoration Ecology* (in press).
47. Abella, S.R., J.C. Hurja, D.J. Merkler, C.W. Denton, and D.G. Brewer. 2011. Overstory-understory relationships along forest type and environmental gradients in the Spring Mountains of southern Nevada, USA. *Folia Geobotanica* (in press).
46. Suazo, A.A., J.E. Spencer, E.C. Engel, and S.R. Abella. 2011. Responses of native and non-native Mojave Desert winter annuals to soil disturbance and water additions. *Biological Invasions* (in press).
45. Abella, S.R., K.A. Pregaman, T.M. Embrey, S.M. Schmid, A.C. Newton, and D.J. Merkler. 2012. A hierarchical analysis of vegetation on a Mojave Desert landscape, USA. *Journal of Arid Environments* 78:135-143.
44. Abella, S.R. 2011. How well do U.S. Forest Service terrestrial ecosystem surveys correspond with measured vegetation properties? *Silva Fennica* 45:611-632.
43. Engel, E.C., and S.R. Abella. 2011. Vegetation recovery in a desert landscape after wildfires: influences of community type, time since fire and contingency effects. *Journal of Applied Ecology* 48:1401-1410.
42. Abella, S.R., A.C. Lee, and A.A. Suazo. 2011. Effects of burial depth and substrate on the emergence of *Bromus rubens* and *Brassica tournefortii*. *Bulletin of the Southern California Academy of Sciences* 110:17-24.
41. Abella, S.R., D.J. Craig, L.P. Chiquoine, K.A. Pregaman, S.M. Schmid, and T.M. Embrey. 2011. Relationships of native desert plants with red brome (*Bromus rubens*): toward identifying invasion-reducing species. *Invasive Plant Science and Management* 4:115-124.
40. Abella, S.R. 2010. Thinning pine plantations to reestablish Oak Openings species in northwestern Ohio. *Environmental Management* 46:391-403.
39. Abella, S.R. 2010. Disturbance and plant succession in the Mojave and Sonoran Deserts of the American Southwest. *International Journal of Environmental Research and Public Health* 7:1248-1284.
38. Craig, D.J., J.E. Craig, S.R. Abella, and C.H. Vanier. 2010. Factors affecting exotic annual plant cover and richness along roadsides in the eastern Mojave Desert, USA. *Journal of Arid Environments* 74:702-707.
37. Abella, S.R., E.C. Engel, C.L. Lund, and J.E. Spencer. 2009. Early post-fire plant establishment on a Mojave Desert burn. *Madroño* 56:137-148.
36. Abella, S.R., and C.W. Denton. 2009. Spatial variation in reference conditions: historical tree density and pattern on a *Pinus ponderosa* landscape. *Canadian Journal of Forest Research* 39:2391-2403.

35. Abella, S.R., and J.D. Springer. 2009. Planting trials in northern Arizona ponderosa pine forests. *Ecological Restoration* 27:290-299.
34. Abella, S.R. 2009. Post-fire plant recovery in the Mojave and Sonoran Deserts of western North America. *Journal of Arid Environments* 73:699-707.
33. Abella, S.R. 2009. Smoke-cued emergence in plant species of ponderosa pine forests: contrasting greenhouse and field results. *Fire Ecology* 5:22-37.
32. Abella, S.R., J.L. Gunn, M.L. Daniels, J.D. Springer, and S.E. Nyoka. 2009. Using a diverse seed mix to establish native plants on a Sonoran Desert burn. *Native Plants Journal* 10:21-31.
31. Abella, S.R., J.E. Spencer, J. Hoines, and C. Nazarchyk. 2009. Assessing an exotic plant surveying program in the Mojave Desert, Clark County, Nevada, USA. *Environmental Monitoring and Assessment* 151:221-230.
30. Abella, S.R. 2008. A unique old-growth ponderosa pine forest in northern Arizona. *Journal of the Arizona-Nevada Academy of Science* 40:1-11.
29. Craig, J.E., and S.R. Abella. 2008. Vegetation of grassy remnants in the Las Vegas Valley, southern Nevada. *Desert Plants* 24:16-23.
28. Abella, S.R. 2008. A systematic review of wild burro grazing effects on Mojave Desert vegetation, USA. *Environmental Management* 41:809-819.
27. Abella, S.R., and J.D. Springer. 2008. Canopy-tree influences along a soil parent material gradient in *Pinus ponderosa-Quercus gambelii* forests, northern Arizona. *Journal of the Torrey Botanical Society* 135:26-36.
26. Abella, S.R., A.C. Newton, and D.N. Bangle. 2007. Plant succession in the eastern Mojave Desert: an example from Lake Mead National Recreation Area, southern Nevada. *Crossosoma* 33:45-55.
25. Abella, S.R., W.W. Covington, P.Z. Fulé, L.B. Lentile, A.J. Sánchez Meador, and P. Morgan. 2007. Past, present, and future old growth in frequent-fire conifer forests of the western United States. *Ecology and Society* 12(2):16. [online] URL: <http://www.ecologyandsociety.org/vol12/iss2/art16/>. 16 pp.
24. Abella, S.R., J.D. Springer, and W.W. Covington. 2007. Seed banks of an Arizona *Pinus ponderosa* landscape: responses to environmental gradients and fire cues. *Canadian Journal of Forest Research* 37:552-567.
23. Laughlin, D.C., and S.R. Abella. 2007. Abiotic and biotic factors explain independent gradients of plant community composition in ponderosa pine forests. *Ecological Modelling* 205:231-240.
22. Abella, S.R., and W.W. Covington. 2007. Forest-floor treatments in Arizona ponderosa pine restoration ecosystems: no short-term effects on plant communities. *Western North American Naturalist* 67:120-132.
21. Abella, S.R., and B.W. Zimmer. 2007. Estimating organic carbon from loss-on-ignition in northern Arizona forest soils. *Soil Science Society of America Journal* 71:545-550.
20. MacDonald, N.W., B.T. Scull, and S.R. Abella. 2007. Mid-spring burning reduces spotted knapweed and increases native grasses during a Michigan experimental grassland establishment. *Restoration Ecology* 15:118-128.
19. Laughlin, D.C., S.R. Abella, W.W. Covington, and J.B. Grace. 2007. Species richness and soil properties in *Pinus ponderosa* forests: a structural equation modeling analysis. *Journal of Vegetation Science* 18:231-242.
18. Abella, S.R., J.F. Jaeger, and T.A. Schetter. 2007. Public land acquisition and ecological restoration: an example from northwest Ohio's Oak Openings region. *Natural Areas Journal* 27:92-97.
17. Abella, S.R., P.Z. Fulé, and W.W. Covington. 2006. Diameter caps for thinning southwestern ponderosa pine forests: viewpoints, effects, and tradeoffs. *Journal of Forestry* 104:407-414.
16. Abella, S.R., and W.W. Covington. 2006. Forest ecosystems of an Arizona *Pinus ponderosa* landscape: multifactor classification and implications for ecological restoration. *Journal of Biogeography* 33:1368-1383.
15. Abella, S.R., and W.W. Covington. 2006. Vegetation-environment relationships and ecological

- species groups of an Arizona *Pinus ponderosa* landscape. *Plant Ecology* 185:255-268.
14. Abella, S.R. 2006. Effects of smoke and fire-related cues on *Penstemon barbatus* seeds. *American Midland Naturalist* 155:404-410.
  13. Abella, S.R., J.F. Jaeger, and L.G. Brewer. 2004. Fifteen years of plant community dynamics during a northwest Ohio oak savanna restoration. *Michigan Botanist* 43:117-127.
  12. Abella, S.R., L.R. Gering, and V.B. Shelburne. 2004. Slope correction of plot dimensions for vegetation sampling in mountainous terrain. *Natural Areas Journal* 24:348-350.
  11. Abella, S.R., and V.B. Shelburne. 2004. Ecological species groups of South Carolina's Jocassee Gorges, southern Appalachian Mountains. *Journal of the Torrey Botanical Society* 131:220-231.
  10. Abella, S.R., and W.W. Covington. 2004. Monitoring an Arizona ponderosa pine restoration: sampling efficiency and multivariate analysis of understory vegetation. *Restoration Ecology* 12:359-367.
  9. Abella, S.R., and J.F. Jaeger. 2004. Ecology of eastern prickly pear cactus (*Opuntia humifusa*) in Oak Openings Preserve, northwestern Ohio. *Michigan Botanist* 43:1-11.
  8. Abella, S.R. 2004. Tree thinning and prescribed burning effects on ground flora in Arizona ponderosa pine forests: a review. *Journal of the Arizona-Nevada Academy of Science* 36:68-76.
  7. Abella, S.R. 2003. Quantifying ecosystem geomorphology of the southern Appalachian Mountains. *Physical Geography* 24:488-501.
  6. Abella, S.R., V.B. Shelburne, and N.W. MacDonald. 2003. Multifactor classification of forest landscape ecosystems of Jocassee Gorges, southern Appalachian Mountains, South Carolina. *Canadian Journal of Forest Research* 33:1933-1946.
  5. Abella, S.R., and V.B. Shelburne. 2003. Eastern white pine establishment in the oak landscape of the Ellicott Rock Wilderness, southern Appalachian Mountains. *Castanea* 68:201-210.
  4. Abella, S.R., and N.W. MacDonald. 2002. Spatial and temporal patterns of eastern white pine regeneration in a northwestern Ohio oak stand. *Michigan Botanist* 41:115-123.
  3. Abella, S.R., J.F. Jaeger, D.H. Gehring, R.G. Jacksy, K.S. Menard, and K.A. High. 2001. Restoring historic plant communities in the Oak Openings region of northwest Ohio. *Ecological Restoration* 19:155-160.
  2. Abella, S.R. 2001. Effectiveness of different management strategies for controlling spotted knapweed in remnant and restored prairies. *Ecological Restoration* 19:117-118.
  1. Abella, S.R., and N.W. MacDonald. 2000. Intense burns may reduce spotted knapweed germination. *Ecological Restoration* 18:203-205.

## OUTREACH/POPULAR PUBLICATIONS

32. Abella, S. 2011. Benefits of publications available to resource managers and stakeholders. *Mojave Applied Ecology Notes* 4(3):9-10.
31. Engel, E.C., and S.R. Abella. 2011. Vegetation recovery in a desert landscape after wildfires: influences of community type, time since fire and contingency effects: article available online - early view in the *Journal of Applied Ecology*. *Mojave Applied Ecology Notes* 4(3):1, 3.
30. Abella, S., C. Denton, D. Brewer, W. Robbie, R. Steinke, and W.W. Covington. 2011. Using a terrestrial ecosystem survey to estimate the historical density of ponderosa pine trees. *Mojave Applied Ecology Notes* 4(2):3-4.
29. Abella, S. 2011. Article in press on overstory-understory changes in the Spring Mountains of southern Nevada. *Mojave Applied Ecology Notes* 4(2):1, 9-12.
28. Abella, S. 2011. Red brome distribution in the eastern Mojave Desert. *Mojave Applied Ecology Notes* 4(1):3-4.
27. Abella, S. 2010. Native species interactions with red brome: suggestions for burn-area revegetation. *Mojave Applied Ecology Notes* 3(4):1.
26. Engel, C., and S. Abella. 2010. Trying to beat the brome: understanding establishment thresholds and

- choosing competitive native species at Parashant National Monument. *Mojave Applied Ecology Notes* 3(4):3,7.
25. Abella, S. 2010. Undergraduate and graduate programs in environmental science at UNLV. *Mojave Applied Ecology Notes* 3(4):4.
  24. Abella, S. 2010. Renewable energy projects in southwestern deserts – update on our involvement. *Mojave Applied Ecology Notes* 3(2):5-7.
  23. Engel, E.C., and S.R. Abella. 2010. Evaluating efficacy of restoration techniques, Keys View Road reconstruction, Joshua Tree National Park, California, U.S.A. *Mojave Applied Ecology Notes* 3(2):3-4.
  22. Abella, S. 2010. Survey of resource managers completed on monitoring and management actions for rare plants in Arizona and Nevada. *Mojave Applied Ecology Notes* 3(2):1-2.
  21. Abella, S.R., C.W. Denton, D.G. Brewer, W.A. Robbie, R.W. Steinke, and W.W. Covington. 2010. Using a terrestrial ecosystem survey to estimate the historical density of ponderosa pine trees in northern Arizona. Fact sheet, Ecological Restoration Institute, Flagstaff, AZ. 4 pp.
  20. Abella, S. 2009. Progress in strategic research areas. *Mojave Applied Ecology Notes* 2(4):1-2.
  19. Abella, S., and C. Engel. 2009. Heat and smoke effects on red brome soil seed banks. *Mojave Applied Ecology Notes* 2(3):3,5.
  18. Abella, S. 2009. Synthesis completed of post-fire recovery of native perennials in the Mojave, Sonoran Deserts. *Mojave Applied Ecology Notes* 2(2):5.
  17. Springer, J., and S. Abella. 2009. Using a diverse seed mix to establish native plants on a Sonoran Desert burn. *The Plant Press* 33(1):16-17. Arizona Native Plant Society, Tucson, AZ.
  16. Abella, S. 2009. ENV 492 undergraduate research symposium. *Mojave Applied Ecology Notes* 2(1):2.
  15. Abella, S. 2008. Fire history and forest structural change in the Spring Mountains. *Mojave Applied Ecology Notes* 1(4):2.
  14. Craig, J., and S. Abella. 2008. Opportunities for new collaborative projects. *Mojave Applied Ecology Notes* 1(4):1.
  13. Abella, S. 2008. New book chapter reviewing Mojave Desert revegetation practices is forthcoming. *Mojave Applied Ecology Notes* 1(3):4.
  12. Abella, S. 2008. We're moving into UNLV's new Science and Engineering Building. *Mojave Applied Ecology Notes* 1(2):2.
  11. Engel, C., and S. Abella. 2008. Plant community response to fire: a chronosequence study. *Mojave Applied Ecology Notes* 1(1):3.
  10. Abella, S.R. 2007. Propagation protocol for vegetative production of container *Sphaeralcea ambigua* Gray plants (1 gallon container). In: Native Plant Network. URL: <http://www.nativeplantnetwork.org> University of Idaho, College of Natural Resources, Forest Research Nursery, Moscow, ID.
  9. Abella, S. 2005. Smoke-cued germination in forest understory plants. *Restoration News*, Fall 2005. 3 pp. Newsletter of the Ecological Restoration Institute, Flagstaff, AZ.
  8. Abella, S. 2004. Researching soil and vegetation gradients in northern Arizona ponderosa pine forests. *Restoration News*, Winter 2004. 2 pp. Newsletter of the Ecological Restoration Institute, Flagstaff, AZ.
  7. Abella, S. 2003. Ecosystem modeling in Jocassee Gorges will help with future management. *Jocassee Journal* 4(1):7. South Carolina Department of Natural Resources, Columbia, SC.
  6. Abella, S.R., and V.B. Shelburne. 2002. Jocassee Gorges ecosystem classification project continues. *Jocassee Journal* 3(2):1. South Carolina Department of Natural Resources, Columbia, SC.
  5. Abella, S. 2000. Jocassee ecosystem diversity to be researched. *Jocassee Journal* 1(2):7. South Carolina Department of Natural Resources, Columbia, SC.
  4. Abella, S. 2000. Nature's datebook: seasonal highlights to search for in your metroparks. *Green Scene Quarterly Newsletter* Summer 2000:13. Metroparks of the Toledo Area, Toledo, OH.
  3. Abella, S. 2000. Harroun Park: hidden gem of Sylvania. *Sylvania Herald* 90(27):1. Herald Newspapers, Sylvania, OH.

2. Abella, S. 2000. Residents landscape with native plants. *Sylvania Herald* 90(12):3. Herald Newspapers, Sylvania, OH.
1. Abella, S. 2000. Metroparks restore habitat with prescribed fire. *Sylvania Herald* 90(9):2. Herald Newspapers, Sylvania, OH.

## PRESENTATIONS

- Engel, E.C., and S. Abella. Relationships of exotic species with native vegetation, environmental factors, disturbance, and ecosystem classifications of ponderosa pine forests. Oral presentation at the Eleventh Biennial Conference for Research on the Colorado Plateau, Flagstaff, AZ. 26 October 2011.
- Abella, S.R. Identifying native species for use in successful restoration projects. Oral presentation (invited) at the Eleventh Biennial Conference for Research on the Colorado Plateau, Flagstaff, AZ. 26 October 2011.
- Chiquoine, L., M.A. Bowker, L. Stark, and S. Abella. Biological soil crust rehabilitation on disturbed gypsiferous soils. Oral presentation (invited) at the Eleventh Biennial Conference for Research on the Colorado Plateau, Flagstaff, AZ. 25 October 2011.
- Abella, S.R. Restoring Mojave Desert ecosystems: status of knowledge and future directions. Oral presentation (invited) at the 2011 Clark County Multiple Species Habitat Conservation Plan symposium, Las Vegas, NV. 17 August 2011.
- Abella, S.R. Ecological restoration in a changing desert climate. Oral presentation (invited) at the Desert Managers Group restoration meeting, Barstow, CA. 13 July 2011.
- Abella, S.R. Desert restoration: status of knowledge and future directions. Oral presentation (invited keynote) at the Desert Managers Group restoration meeting, Barstow, CA. 13 July 2011.
- Abella, S.R., R.J. Guida, S.D. Smith, C.L. Roberts, H. Stephen, W.J. Smith, Z. Liu, and J.S. Holland. The prognosis for plant community habitat alterations in changing desert climates. Oral presentation (invited) at the Devils Hole workshop, Pahrump, NV. 4 May 2011.
- Abella, S.R., D.J. Craig, E.C. Engel, A.C. Newton, and S.D. Smith. Revegetating burned arid lands. Oral presentation (invited) at the Southern Nevada Restoration Team meeting, Las Vegas, NV. 20 April 2011.
- Guida, R.J., H. Stephen, C.L. Roberts, S.R. Abella, W.J. Smith, J.S. Holland, and Z. Liu. Vegetation and climate change in the Newberry Mountains, southern Nevada: Maxent and GIS modeling for policy decision support. Oral presentation at the Association of American Geographers annual meeting, Seattle, WA. 14 April 2011.
- Guida, R.J., H. Stephen, C.L. Roberts, S.R. Abella, W.J. Smith, J.S. Holland, and Z. Liu. Vegetation change in the Newberry Mountains, southern Nevada: Maxent modeling for policy decision support. Poster presentation at the 3rd Annual Tri-State Western Consortium Meeting, National Science Foundation Experimental Program to Stimulate Competitive Research (EPSCoR), Albuquerque, NM. 7 April 2011.
- Abella, S.R. Identifying native species for use in successful revegetation projects in the desert Southwest. Oral presentation (invited) at the Intermountain Native Plant Summit VI, Boise, ID. 30 March 2011.
- Suazo, A.A., D.J. Craig, and S.R. Abella. Seed removal patterns in burned and unburned Mojave Desert habitats: implications for revegetating desert tortoise habitat. Oral presentation at the 36<sup>th</sup> Annual Meeting and Symposium of the Desert Tortoise Council, Las Vegas, NV. 19 February 2011.
- Engel, E.C., and S.R. Abella. Vegetation recovery on a desert landscape after wildfires: variation among community types, time since fire, and contingency effects. Oral presentation at the 36<sup>th</sup> Annual Meeting and Symposium of the Desert Tortoise Council, Las Vegas, NV. 19 February 2011.
- Van Linn, P.F., K.E. Nussear, T.C. Esque, L.A. DeFalco, and S.R. Abella. Estimating wildfire potential in Gold Butte, Nevada, using remote sensing and field survey techniques. Oral presentation at the 36<sup>th</sup> Annual Meeting and Symposium of the Desert Tortoise Council, Las Vegas, NV. 19 February 2011.
- DeCorte, A.S., and S.R. Abella. Relationships of exotic plant invasions with biological soil crust, desert pavement, and soil carbon in the eastern Mojave Desert. Oral presentation at the 36<sup>th</sup> Annual Meeting

- and Symposium of the Desert Tortoise Council, Las Vegas, NV. 19 February 2011.
- Abella, S.R., D.J. Craig, S.D. Smith, and A.C. Newton. Factors influencing exotic grass establishment in the Mojave Desert and potential for reducing plant community invasibility. Oral presentation (invited) at the 36<sup>th</sup> Annual Meeting and Symposium of the Desert Tortoise Council, Las Vegas, NV. 19 February 2011. (*Awarded Robert C. Stebbins research award*).
- Abella, S.R. Overview of restoration ecology. Guest lecture for ENV 220 [Ecological Principles] class, University of Nevada Las Vegas, Las Vegas, NV. 16 November 2010.
- Abella, S.R. Accommodating climate change in defining objectives for ecological restoration: practical examples from southwestern arid lands. Oral presentation (invited) at the Conference on Natural Resource Needs Related to Climate Change in the Great Basin and Mojave Desert: Research, Adaptation, Mitigation, Las Vegas, NV. 21 April 2010. Video (#12) available from: <http://www.wr.usgs.gov/workshops/ccw2010/index.html>
- Roberts, C.L., S.R. Abella, and J.S. Holland. 29 years of vegetation community change across environmental gradients in a Mojave Desert mountain range. Poster presentation at the Conference on Natural Resource Needs Related to Climate Change in the Great Basin and Mojave Desert: Research, Adaptation, Mitigation, Las Vegas, NV. 20 April 2010.
- Suazo, A.A., J.E. Spencer, E.C. Engel, and S.R. Abella. Responses of native and non-native Mojave Desert winter annuals to soil disturbance and water additions. Poster presentation at the Conference on Natural Resource Needs Related to Climate Change in the Great Basin and Mojave Desert: Research, Adaptation, Mitigation, Las Vegas, NV. 20 April 2010.
- Guida, R.J., H. Stephen, C.L. Roberts, S.R. Abella, W.J. Smith, and J.S. Holland. Vegetation change in the Newberry Mountains, southern Nevada: Maxent and GIS modeling for policy decision support. Oral presentation at the Association of American Geographers annual meeting, Washington, D.C. 17 April 2010.
- McPherson, S.L., D.J. Craig, and S.R. Abella. Assessing invasive plant species as threats in Mojave Desert parks. Poster presentation at the Greenspun College of Urban Affairs Graduate Research Symposium, University of Nevada Las Vegas, Las Vegas, NV. 15 April 2010.
- Roberts, C.L., S.R. Abella, and J.S. Holland. Long-term vegetation change across environmental gradients on a Mojave Desert mountain landscape. Poster presentation at the Greenspun College of Urban Affairs Graduate Research Symposium, University of Nevada Las Vegas, Las Vegas, NV. 15 April 2010.
- Guida, R.J., H. Stephen, C.L. Roberts, S.R. Abella, W.J. Smith, and J.S. Holland. Vegetation change in the Newberry Mountains, southern Nevada. Poster presentation at the 2nd Annual Tri-State Western Consortium Meeting, National Science Foundation Experimental Program to Stimulate Competitive Research (EPSCoR), Incline Village, NV. 7 April 2010. (*Winner of best poster of conference award*).
- Abella, S.R. Conserving forests of southern Nevada in a changing climate: reconstructing forest history along moisture and elevational gradients. Oral presentation (invited) at the 2nd Annual Tri-State Western Consortium Meeting, National Science Foundation Experimental Program to Stimulate Competitive Research (EPSCoR), Incline Village, NV. 7 April 2010.
- Abella, S.R. Unique perspectives on biodiversity valuation and their policy implications. Guest lecture for ENV 703 [Environment Law and Policy Seminar] class, University of Nevada Las Vegas, Las Vegas, NV. 15 March 2010.
- Abella, S.R. Fire and climate change in American Southwest arid lands. Guest lecture for GS-0401 fire management specialist education program, University of Nevada Las Vegas, Las Vegas, NV. 8 December 2009.
- Abella, S.R., and D.C. Craig. Identifying candidate native species for revegetating desert wildfires. Poster presentation at the 4<sup>th</sup> International Fire Ecology and Management Congress: Fire as a Global Process, Savannah, GA. 1 December 2009.
- Abella, S.R. Overview of the applied ecology program at UNLV. Guest lecture for ENV 701 [Graduate

- Seminar] class, University of Nevada Las Vegas, Las Vegas, NV. 23 November 2009.
- Abella, S.R., and C.W. Denton. Variation in reference conditions among terrestrial ecosystem survey units on a northern Arizona landscape. Oral presentation at the Tenth Biennial Conference for Research on the Colorado Plateau, Flagstaff, AZ. 6 October 2009.
- Abella, S.R. Managing Gambel oak in ponderosa pine forests: the status of knowledge. Poster presentation at the Tenth Biennial Conference for Research on the Colorado Plateau, Flagstaff, AZ. 6 October 2009.
- Suazo, A.A., D.J. Craig, and S.R. Abella. Seed removal by granivorous ants and rodents in burned and unburned Mojave Desert habitats. Poster presentation at the 94<sup>th</sup> annual meeting of the Ecological Society of America, Albuquerque, NM. 6 August 2009.
- Engel, E.C., and S.R. Abella. Plant community recovery along a fire chronosequence in the Mojave Desert of southern Nevada. Poster presentation at the 94<sup>th</sup> annual meeting of the Ecological Society of America, Albuquerque, NM. 4 August 2009.
- Roberts, C.L., S.R. Abella, J.S. Holland, and J. LaValley. 29 years of vegetation community change across environmental gradients in a Mojave Desert mountain range. Poster presentation at the 94<sup>th</sup> annual meeting of the Ecological Society of America, Albuquerque, NM. 4 August 2009.
- Abella, S.R., T.A. Schetter, J.F. Jaeger, and T.L. Walters. Restoring oak savanna, woodland, and wet prairie in the northwestern Ohio Oak Openings region. Poster presentation at the 2009 Midwest Oak Savanna and Woodland Conference, Sylvania, OH. 30 July 2009.
- Abella, S.R. Reestablishing Oak Openings species on pine plantation sites in northwestern Ohio. Oral presentation at the 2009 Midwest Oak Savanna and Woodland Conference, Sylvania, OH. 30 July 2009.
- Abella, S.R., E.C. Engel, D.J. Craig, and A.A. Suazo. Post-fire plant recovery and restoration: a systematic review and Clark County chronosequence. Oral presentation (invited) at the 10<sup>th</sup> annual meeting of the Eastern Nevada Landscape Coalition, Fire rehab in the 21<sup>st</sup> century: the Southern Nevada Complex, anomaly or the new status quo? Ely, NV. 13 June 2009.
- Abella, S.R., E.C. Engel, D.J. Craig, and A.A. Suazo. Update on completed and ongoing fire projects by UNLV. Oral presentation (invited) to resource managers of the Mojave Desert Initiative, Interagency Office, Las Vegas, NV. 7 May 2009.
- Engel, E.C., S.R. Abella, and D.J. Craig. Seeding effectiveness and natural regeneration of Mojave Desert plant communities. Oral presentation (invited) at the Nevada Native Plant Society monthly meeting, Henderson, NV. 4 May 2009.
- Abella, S.R. Fire and climate change in American Southwest arid lands. Oral presentation (invited) at the Environmental Biology Seminar Series, University of Nevada Las Vegas, Las Vegas, NV. 23 April 2009.
- Abella, S.R. Overview of restoration ecology, with examples from arid lands and the tropics. Guest lecture for ENV 205 [Environment and Development] class, University of Nevada Las Vegas, Las Vegas, NV. 1 April 2009.
- Smith, S.D., and S.R. Abella. Potential effects of climate change on ecosystem restoration in arid lands. Oral presentation (invited) at the 2009 annual meeting of the Association of American Geographers, Las Vegas, NV. 24 March 2009.
- Craig, D.J., J.E. Craig, and S.R. Abella. Road corridor surveys alone may not reliably detect extent of exotic annual plant distributions. Poster presentation at the 2009 George Wright Society Biennial Conference on Parks, Protected Areas, and Cultural Sites, Portland, OR. 3 March 2009.
- Roberts, C.L., S.R. Abella, and J.S. Holland. Three decades of vegetation change in the Newberry Mountains of the eastern Mojave Desert. Poster presentation at the 2009 George Wright Society Biennial Conference on Parks, Protected Areas, and Cultural Sites, Portland, OR. 3 March 2009.
- Abella, S.R., and A.C. Newton. A systematic review of species performance and treatment effectiveness for revegetation in the Mojave Desert. Poster presentation at the 2009 George Wright Society Biennial Conference on Parks, Protected Areas, and Cultural Sites, Portland, OR. 3 March 2009.
- Abella, S.R. A systematic review of wild burro grazing effects on Mojave Desert vegetation, USA. Poster

- presentation at the 2009 George Wright Society Biennial Conference on Parks, Protected Areas, and Cultural Sites, Portland, OR. 3 March 2009.
- Abella, S.R., E.C. Engel, D.J. Craig, S.D. Smith, C.L. Lund, A.C. Newton, and J.L. Gunn. Post-fire plant recovery and restoration in the Mojave and Sonoran Deserts of western North America. Oral presentation (invited) at the Desert Tortoise Council symposium, Mesquite, NV. 21 February 2009.
- Abella, S.R. Fire regimes and forest structural changes as an ecological basis for resource protection in the Spring Mountains. Oral presentation (invited) at the Interagency Fuels Modeling Workshop, Las Vegas, NV. 9 February 2009.
- Abella, S.R., J.L. Gunn, M.L. Daniels, J.D. Springer, and S.E. Nyoka. Using a diverse seed mix to establish native plants on a Sonoran Desert burn. Poster presentation at the Wildfires and Invasive Plants in American Deserts conference, Reno, NV. 9 December 2008.
- Abella, S.R., E.C. Engel, C.L. Lund, and J.E. Spencer. Early post-fire succession on a heavily visited Mojave Desert burn: Red Rock Canyon near Las Vegas, Nevada. Poster presentation at the Wildfires and Invasive Plants in American Deserts conference, Reno, NV. 9 December 2008.
- Abella, S.R. Post-fire plant recovery in the Mojave and Sonoran Deserts of western North America. Poster presentation at the Wildfires and Invasive Plants in American Deserts conference, Reno, NV. 9 December 2008.
- Bangle, D.N., and S.R. Abella. Management techniques for the control of Sahara mustard (*Brassica tournefortii*) in the Mojave Desert. Poster presentation at the Wildfires and Invasive Plants in American Deserts conference, Reno, NV. 9 December 2008.
- Craig, D.J., J.E. Craig, and S.R. Abella. Implications for management prioritization of exotic annual weed monitoring near roadsides in the eastern Mojave Desert, USA. Poster presentation at the Wildfires and Invasive Plants in American Deserts conference, Reno, NV. 9 December 2008.
- Engel, E.C., S.R. Abella, and C.L. Lund. Seeding effectiveness for eight Mojave Desert perennial species after a 2005 wildfire. Poster presentation at the Wildfires and Invasive Plants in American Deserts conference, Reno, NV. 9 December 2008.
- Engel, E.C., and S.R. Abella. Vegetation reestablishment of Mojave Desert plant communities after 2005-2006 wildland fires. Poster presentation at the Wildfires and Invasive Plants in American Deserts conference, Reno, NV. 9 December 2008.
- Suazo, A.A., D.J. Craig, and S.R. Abella. Seed removal by granivores in burned Mojave Desert habitat: implications for revegetation. Poster presentation at the Wildfires and Invasive Plants in American Deserts conference, Reno, NV. 9 December 2008.
- Abella, S.R., and M.N. Rees. Vegetation monitoring and analysis at Lake Mead National Recreation Area. Oral presentation at the Great Basin Cooperative Ecosystem Studies Unit annual meeting, Reno, NV. 8 December 2008.
- Engel, E.C., S.R. Abella, and C.L. Lund. Seeding effectiveness and natural regeneration of Mojave Desert plant communities after 2005 wildland fires. Oral presentation at the 35th Natural Areas Association conference, Nashville, TN. 15 October 2008.
- Craig, D.J., J.E. Craig, and S.R. Abella. Exotic annual plant invasions and their relationships to roads and native perennial species in the Mojave Desert, southwestern USA. Poster presentation at the 35th Natural Areas Association conference, Nashville, TN. 15 October 2008.
- Bangle, D.N., and S.R. Abella. Management techniques for the control of Sahara mustard (*Brassica tournefortii*) in the Mojave Desert. Poster presentation at the 35th Natural Areas Association conference, Nashville, TN. 15 October 2008.
- Suazo, A.A., J.E. Spencer, and S.R. Abella. Responses of Sahara mustard (*Brassica tournefortii*) to water addition and soil disturbance manipulations. Poster presentation at the 35th Natural Areas Association conference, Nashville, TN. 15 October 2008.
- Abella, S.R. Plant recruitment in a northern Arizona ponderosa pine forest: testing seed- and leaf litter-

- limitation hypotheses. Poster presentation at the Fort Valley Centennial conference, U.S. Forest Service, Flagstaff, AZ. 8 August 2008. (*Winner of best poster of conference award*).
- Suazo, A.A., J.E. Spencer, and S.R. Abella. Response of Sahara mustard (*Brassica tournefortii*) to soil disturbance and water addition in the eastern Mojave Desert. Poster presentation at the Ecological Society of America 93rd annual meeting, Milwaukee, WI. 6 August 2008.
- Craig, J., S. Abella, J. Spencer, and A. Sprunger. The invasibility of riparian and upland areas surrounding springs at Desert National Wildlife Refuge. Oral presentation at the Lower Colorado River Basin riparian revegetation workshop, Southern Nevada Water Authority and Las Vegas Wash Coordination Committee, Las Vegas Springs Preserve, Las Vegas, NV. 7 May 2008.
- Engel, C., J.R. Jaeger, and S. Abella. Vegetation responses to attempted habitat restoration for the relict leopard frog: study design and preliminary results. Oral presentation at the Lower Colorado River Basin riparian revegetation workshop, Southern Nevada Water Authority and Las Vegas Wash Coordination Committee, Las Vegas Springs Preserve, Las Vegas, NV. 7 May 2008.
- Abella, S.R. An overview of the vegetation research program: knowledge services for land management. Oral presentation at the Public Lands Institute open house, University of Nevada Las Vegas, Las Vegas, NV. 25 April 2008.
- Abella, S.R., and E.C. Engel. A regional chronosequence of fire succession and network of long-term monitoring plots. Oral presentation (invited) to resource managers of the Mojave Desert Initiative, Interagency Office, Las Vegas, NV. 26 March 2008.
- Abella, S.R., C.W. Denton, and T. Swetnam. Assessing reference conditions and developing fuel/management treatments. Presentation for U.S. Forest Service and Fish and Wildlife Service resource managers, Interagency Office, Las Vegas, NV. 6 March 2008.
- Abella, S.R. Smoke-cued emergence in plant species of a ponderosa pine forest: contrasting greenhouse and field results. Oral presentation at the Fire in the Southwest: integrating fire into management of changing ecosystems, Association for Fire Ecology conference, Tucson, AZ. 30 January 2008.
- Abella, S.R., and A.C. Newton. A systematic review of species selection and treatment effectiveness for revegetation in the Mojave Desert, USA. Oral presentation at the Ninth Biennial Conference of Research on the Colorado Plateau, Flagstaff, AZ. 31 October 2007.
- Gunn, J., and S.R. Abella. Species selection and the outcome of a 28-species revegetation seeding on a Sonoran Desert burn. Oral presentation at the Ninth Biennial Conference of Research on the Colorado Plateau, Flagstaff, AZ. 31 October 2007.
- Engel, E.C., and S.R. Abella. Factors influencing exotic species richness and abundance within ponderosa pine forests near Flagstaff, Arizona. Poster presentation at the Ninth Biennial Conference of Research on the Colorado Plateau, Flagstaff, AZ. 30 October 2007.
- Schetter, T.A., J.F. Jaeger, S.R. Abella, and K.V. Root. An assessment of the conservation status of Ohio's Oak Openings region using remotely sensed data. Presented at the Natural Areas Association Conference, Cleveland, OH. September 2007.
- Laughlin, D.C., and S.R. Abella. Explaining gradients in plant community composition with a general multivariate model. Ecological Society of America/Society for Ecological Restoration joint conference, Statistical Ecology: Applications section. San Jose, CA. 7 August 2007. (*D.C. Laughlin winner of the E.C. Pielou student award in statistical ecology for this presentation*).
- Abella, S.R. A systematic review of burro grazing effects on Mojave Desert vegetation. Oral presentation (invited) at the Ecology and Management of Native and Non-Native Equids Symposium, Society for Range Management 60th annual meeting, Reno, NV. 15 February 2007.
- Abella, S.R. Three regional examples of threats to native biodiversity and potential remedies. Invited Lecture for BIO 470 [Conservation Biology] class, Grand Valley State University, Allendale, MI. 19 October 2006.
- Abella, S.R. Lessons learned: reflections from the field of a 2000 NRM alumnus. Invited presentation to

NRM 150 [Introduction to Natural Resources] class, Grand Valley State University, Allendale, MI. 19 October 2006.

- Abella, S.R. Lessons learned: reflections from the field of a 2000 NRM alumnus. Biology Department seminar series, Grand Valley State University, Allendale, MI. 19 October 2006.
- MacDonald, N.W., B.T. Scull, and S.R. Abella. Mid-spring burning reduces spotted knapweed and increases native grasses on a degraded, knapweed-infested site. Oral presentation at the Michigan Academy of Science meetings, Auburn Hills, MI. 3 March 2006.
- Abella, S.R. Environmental and vegetational gradients on an Arizona ponderosa pine landscape: implications for ecological restoration. Department of Biological Sciences Seminar Series, University of Nevada Las Vegas, Las Vegas, NV. 10 February 2006.
- Abella, S.R. Ecological indicators and monitoring sustainability. FOR 381 [Forest Ecosystem Management] lecture. School of Forestry, Northern Arizona University, Flagstaff, AZ. 25 April 2005.
- Abella, S.R. Environmental and vegetational gradients on an Arizona ponderosa pine landscape: implications for ecological restoration. School of Forestry Seminar Series, Northern Arizona University, Flagstaff, AZ. 7 April 2005.
- Abella, S.R. Multifactor classification of forest landscape ecosystems and applications for ecosystem restoration. BIO 460 [Terrestrial Ecosystem Ecology] lecture. Department of Biology, Grand Valley State University, Allendale, MI. 16 September 2004.
- Abella, S.R. Oak savanna restoration in northern Ohio's Oak Openings region. Ecological Restoration Institute monthly seminar, Northern Arizona University, Flagstaff, AZ. 10 March 2003.
- Abella, S.R. Restoring oak ecosystems in northwest Ohio's Oak Openings region. School of Forestry Seminar Series, Northern Arizona University, Flagstaff, AZ. 16 October 2002.
- Abella, S.R. Multifactor classification of forest landscape ecosystems of Jocassee Gorges, southern Appalachian Mountains, South Carolina. Department of Forest Resources Seminar Series, Clemson University, Clemson, SC. 28 March 2002.
- Abella, S.R., and V.B. Shelburne. Landscape classification of forest ecosystems of Jocassee Gorges, southern Appalachian Mountains, South Carolina. Presented to the South Carolina Department of Natural Resources, Columbia, SC. 7 February 2002.
- Abella, S.R., and V.B. Shelburne. Forest ecosystem classification of Jocassee Gorges. Presented to the South Carolina Department of Natural Resources, Jocassee Gorges, SC. 30 October 2001.
- Abella, S.R. Restoration ecology. Department of Forest Resources Seminar Series, Clemson University, Clemson, SC. 26 April 2001.
- Abella, S.R. Nitrogen addition effects in Michigan northern hardwood forests. Student Scholarship Day, Science and Mathematics Division, Grand Valley State University, Allendale, MI. 12 April 2000.
- Abella, S.R. Eastern white pine regeneration and management in Oak Openings Preserve, northwest Ohio. Student Scholarship Day, Science and Mathematics Division, Grand Valley State University, Allendale, MI. 12 April 2000.

## RESEARCH FUNDING

Total: PI: \$3,674,457 (n = 18) co-PI: \$479,177 (n = 1) combined: \$4,153,634 (n = 19)

19. Abella, S.R., and T. Embrey. 2010. Range expansion for *Eriogonum jonesii*. Section 6 funding for research on threatened and endangered Arizona plants, U.S. Fish and Wildlife Service. \$17,698. (2011).
18. Abella, S.R. (A.C. Newton). 2010. Assessment and restoration of mesquite and acacia woodlands within Lake Mead National Recreation Area. Cooperative agreement, National Park Service, Lake Mead National Recreation Area, Boulder City, NV. \$170,898. (2010-2012).
17. Abella, S.R. (with A.A. Suazo and A.C. Newton). 2010. Investigation of non-native species invasion into

- rare plant habitat within Lake Mead National Recreation Area. Cooperative agreement, National Park Service, Lake Mead National Recreation Area, Boulder City, NV. \$94,799. (2010-2013).
16. Abella, S.R. (with E.C. Engel and A.C. Newton). 2010. Investigation of plant colonization and succession in the Lake Mead shoreline drawdown zone. Cooperative agreement, National Park Service, Lake Mead National Recreation Area, Boulder City, NV. \$120,111. (2010-2013).
  15. Abella, S.R. (with K. Harcksen). 2010. Identifying suitable species for native plant material development for desert revegetation projects. Cooperative agreement, Bureau of Land Management, Parashant National Monument, St. George, UT. \$160,000. (2010-2012).
  14. Abella, S.R. (with D. Backer). 2010. Developing restoration techniques for Arizona uplands of the Sonoran Desert following buffelgrass treatment. Cooperative agreement, National Park Service, Saguaro National Park, Tucson, AZ. \$94,999. (2010-2011).
  13. Abella, S.R. (with L.A. DeFalco and E.C. Engel). 2010. Monitoring seeding effectiveness for augmenting native species establishment on the Goodsprings and Bonnie Springs Fires, Red Rock Canyon National Conservation Area, southern Nevada. Cooperative agreement, U.S. Geological Survey, Las Vegas, NV. \$75,000. (2010-2013).
  12. Thompson, D.B., S.R. Abella, H. Stephen, F. Nasoz, A.J. Smiecinski, H.S. Page, P.M. Jacoby-Garrett, and R. Paulson. 2010. Spring Mountains butterfly life history and autecology studies. U.S. Forest Service, Spring Mountains National Recreation Area, Las Vegas, NV. \$479,177. (2010-2013).
  11. Abella, S.R. (with A.C. Newton). 2010. Gypsum soil restoration and revegetation in Lake Mead National Recreation Area: treatments, monitoring, and management activities. Cooperative agreement, National Park Service, Lake Mead National Recreation Area, Boulder City, NV. \$256,970. (2010-2012).
  10. Abella, S.R. (with K. Prentice). 2009. Science support for Tule Desert fuel breaks and greenstrips project. Cooperative agreement, Bureau of Land Management, Ely District Office, Ely, Nevada. \$45,000. (2009-2013).
  9. Abella, S.R. (with A. Chung-MacCoubrey and J.E. Taylor). 2009. Collection of classification and accuracy assessment field data in support of vegetation mapping at four Mojave Desert Network parks. Cooperative agreement, National Park Service, Mojave Desert Inventory and Monitoring Network, Boulder City, NV. \$564,018. (2009-2012).
  8. Abella, S.R. 2009. (with W.W. Covington). Using U.S. Forest Service terrestrial ecosystem surveys in landscape-scale forest management and assessing information needs for Spring Mountains forest restoration. Ecological Restoration Institute, Northern Arizona University, Flagstaff, AZ. \$48,400. (2009-2010).
  7. Abella, S.R. (with A. Chung-MacCoubrey). 2008. Developing an invasive/exotic plant monitoring protocol and assessment for the Mojave Network. Cooperative agreement, National Park Service, Mojave Inventory and Monitoring Network, Boulder City, NV. \$146,434. (2008-2012).
  6. Abella, S.R. (with A.L. Miller). 2008. Evaluating efficacy of restoration techniques, Key's View Road reconstruction, Joshua Tree National Park. Cooperative agreement, National Park Service, Joshua Tree National Park, Twentynine Palms, CA. \$24,001. (2008-2010).
  5. Abella, S.R., S.D. Smith, A.C. Newton, C.L. Lund, and T.S. Cook. 2007. Revegetating burned arid lands: identifying successful native species using trait and competition analysis. Joint Fire Science Program. \$179,069. (2007-2010).
  4. Abella, S.R. (with C.L. Lund). 2007. Post-fire monitoring in the Red Rock Canyon area. Cooperative agreement, Bureau of Land Management, Las Vegas Field Office, Las Vegas, NV. \$110,150. (2007-2011).
  3. Abella, S.R., and M.N. Rees. 2006. Vegetation monitoring and analysis at Lake Mead National Recreation Area. Cooperative agreement, National Park Service, Lake Mead National Recreation Area, Boulder City, NV. \$1,670,640. (2006-2009).
  2. Abella, S.R., and J. Gunn. 2005. Monitoring seeding success for burn restoration at Cave Creek Regional Park, Arizona. Maricopa County Parks and Recreation Department, Phoenix, AZ, and the Ecological Restoration Institute, Flagstaff, AZ. \$2,600. (2005-2007).

1. Abella, S.R., and J.F. Jaeger. 2004. Remeasuring pine plantation restoration plots in Oak Openings Preserve, northwest Ohio. Metropolitan Park District of the Toledo Area, Toledo, OH. \$1,500. (2004).

## **MEDIA APPEARANCES HIGHLIGHTING RESEARCH**

2011. Interview for article "Sure, blame the invasive grass species," published in the weekly newspaper Las Vegas CityLife, July 21. Perspective provided on the fire problem created by exotic annual grasses such as red brome in southwestern USA deserts ([http://www.lasvegascitylife.com/articles/2011/07/21/news/local\\_news/iq\\_45917141.txt](http://www.lasvegascitylife.com/articles/2011/07/21/news/local_news/iq_45917141.txt)).
2011. Interview for article "Voice in the wilderness: UNLV researcher says the West's next big fire could strike Mountain Charleston," published in the weekly newspaper Las Vegas CityLife, July 7-13. Perspective provided on fire in western forests during the summer 2011 fire season burning millions of acres in the Southwest ([http://www.lasvegascitylife.com/articles/2011/07/07/news/local\\_news/iq\\_45589354.txt](http://www.lasvegascitylife.com/articles/2011/07/07/news/local_news/iq_45589354.txt)).
2011. Interview for news coverage of fire ecology and management in the Spring Mountains (southern Nevada). Perspective provided on changes in forest fuels, the prognosis for future severe fire, and the need for forest thinning and restoration, and included students with the University of Nevada Las Vegas. Coverage aired on the 5:00, 6:00, and 11:00 p.m. news, Channel 8 Las Vegas, 13 June 2011, and also was written as a news release (<http://www.8newsnow.com/story/14900025/fire>)
2011. Coverage of climate change discussion panel I served on in article titled "Four things I learned at the climate change talk," published in Las Vegas City Life, 12 May 2011. ([http://www.lasvegascitylife.com/articles/2011/05/12/news/local\\_news/iq\\_44217514.txt](http://www.lasvegascitylife.com/articles/2011/05/12/news/local_news/iq_44217514.txt)).
2011. Research featured in article titled "UNLV study: Southwest desert ecosystems can take decades to recover from wildfires," published in UNLV Innovation, the research magazine of the University of Nevada, Las Vegas, spring 2011. Discusses literature review on the time required for desert recovery from wildfires and other disturbances in the Mojave and Sonoran Deserts (<http://research.unlv.edu/innovation/issues/2011/innovation-2011.pdf>).
2010. Interview for article titled "Fire damage," published in UNLV Magazine, fall 2010, p. 13. Discusses recovery after wildfires in the Mojave and Sonoran Deserts ([http://issuu.com/university.of.nevada.las.vegas/docs/unlv\\_magazine\\_fall\\_2010/15](http://issuu.com/university.of.nevada.las.vegas/docs/unlv_magazine_fall_2010/15)).
2010. Coverage of science recommendations of an invited panel I am serving on, the Independent scientific advisory panel for the California Desert Renewable Energy Conservation Plan, in an article titled "Scientists: desert energy projects should tread lightly," in the Press-Enterprise newspaper, 14 September 2010. [http://www.pe.com/localnews/stories/PE\\_News\\_Local\\_D\\_tortoise14.2ad1291.html](http://www.pe.com/localnews/stories/PE_News_Local_D_tortoise14.2ad1291.html)
2010. Coverage of science recommendations of an invited panel I am serving on, the Independent scientific advisory panel for the California Desert Renewable Energy Conservation Plan, in an article titled "Coming to your desert - the desert industrial zone," in the voiceofsandiego.org, 30 August 2010. [http://www.voiceofsandiego.org/peoplespost/howl/article\\_3f64a22c-b3f3-11df-979e-001871e39ea8.html](http://www.voiceofsandiego.org/peoplespost/howl/article_3f64a22c-b3f3-11df-979e-001871e39ea8.html)
2010. Coverage of science recommendations of an invited panel I am serving on, the Independent scientific advisory panel for the California Desert Renewable Energy Conservation Plan, in an article titled "Science report advocates using 'disturbed' land for solar plants," published in the Solar Home & Business Journal, 16 August 2010. <http://sunpluggers.com/news/science-report-advocates-using-disturbed-land-for-solar-plants-0840>
2010. Interview for article titled "Sometimes forests need fire," published in the Las Vegas Review-Journal, 18 August 2010. Perspective provided on forest changes and fire management in the Spring Mountains of southern Nevada. <http://www.lvrj.com/news/sometimes-forests-need-fire-100963954.html>
2010. Interview for article titled "Rising from the ashes: more efforts needed to rehabilitate post-wildfire

- ecosystems," published in Vegas Seven, 15 July 2010, page 37. Perspective provided on the recovery of native desert and forest ecosystems following wildfire.  
(<http://www.weeklyseven.com/news/2010/july/15/rising-ashes>)
2010. Interview for news coverage of the Cathedral Fire in the Spring Mountains (southern Nevada). Perspective provided on changes in forest fuels, the prognosis for future severe fire, and the need for forest thinning and restoration. Coverage aired on the 6:00 p.m. news, Channel 8 Las Vegas, 2 July 2010, and also was written as a news release  
(<http://www.mynews3.com/story.php?id=21769&n=5035>)
2010. Interview for news coverage of the Cathedral Fire in the Spring Mountains (southern Nevada). Perspective provided on changes in forest fuels, the prognosis for future severe fire, and the need for forest thinning and restoration. Coverage aired on the 4:30 p.m. news, Channel 3 Las Vegas, 2 July 2010.
2010. Summary of desert disturbance and succession publication (Abella 2010) summarized as a news release titled "UNLV study: Southwest desert ecosystems can take decades to recover from wildfires," by the Office of Public Affairs, University of Nevada Las Vegas, 1 July 2010.  
(<http://cms.unlv.edu/newscenter/releases.dot?newsid=124069>)
2010. Interview for article titled "Climate change creating boom of allergy-causing plants," published in the Las Vegas Sun, 13 May 2010. Perspective provided on the growth of plants in a changing climate.  
(<http://www.lasvegassun.com/news/2010/may/13/attack-allergies/>)
2010. Coverage of an invited panel I am serving on, the Independent scientific advisory panel for the California Desert Renewable Energy Conservation Plan, in an article titled "Sand and fury: siting solar power plants on desert lands," published in the Solar Home & Business Journal, 26 April 2010.  
<http://sunpluggers.com/stories/sand-and-fury-siting-solar-power-on-desert-lands-0461>
2010. Interview for article titled "Desert discovery," published in UNLV Magazine, spring 2010, pp. 12-15. Discusses graduate student project I am mentoring on re-measuring vegetation on a plot network established in 1979 in the Newberry Mountains in Lake Mead National Recreation Area in southern Nevada ([http://issuu.com/university.of.nevada.las.vegas/docs/unlv\\_magazine\\_-\\_spring\\_2010/15](http://issuu.com/university.of.nevada.las.vegas/docs/unlv_magazine_-_spring_2010/15)).
2010. Interview for article titled "Bombs away: as long as it's to seed park," published in the Las Vegas Sun, 13 March 2010. Perspective provided on the effectiveness of seeding and revegetation in the desert.  
(<http://m.lasvegassun.com/news/2010/mar/13/bombs-away-long-its-seed-park/>)
2010. Interview for article titled "Windfall needed to wipe out invasive species," published in the Las Vegas Sun, 11 March 2010. Perspective provided on exotic species management.  
(<http://www.lasvegassun.com/news/2010/mar/11/windfall-needed-wipe-out-invasive-species/>)
2010. Interview for article titled "What's next for Yucca? Restoration," published in the Las Vegas Sun, 7 February 2010. Perspective provided on restoration of soils and vegetation related to the closure of the Yucca Mountain hazardous waste site. (<http://www.lasvegassun.com/news/2010/feb/07/whats-next-yucca-restoration/>)
2009. Interview for article titled "What old pines seem to like may kill them," published in the Las Vegas Sun, 25 November 2009. Perspective provided on bristlecone pine ecology and species shifts in the Spring Mountains of southern Nevada. (<http://www.lasvegassun.com/news/2009/nov/25/what-old-pines-seem-may-kill-them/>)
2009. Interview for article titled "'Greedy' trees still leave room for the little plants," published in New Scientist, 6 July 2009. Perspective provided on the ecology of tree-understory interactions.
2009. Interview for article titled: "Life in the Desert, published in the Agnes Scott magazine," spring 2009
2008. Interview for article titled: "Misty's legacy: managing invasive and non-native species in the National Park system is already tough, but what happens when some of the biggest culprits are actually visitors' favorites?" Published in National Parks Magazine, fall 2008.  
(<http://www.npca.org/magazine/2008/fall/mistys-legacy.html>)

2007. Recognition for Daniel Laughlin's (lead presenter; Abella co-presenter) winning of the 2007 Ecological Society of America's E.C. Pielou Student Award in Statistical Ecology for the presentation titled "Explaining gradients in plant community composition with a general multivariate model" at the 2007 joint conference of the Ecological Society of America and the Society for Ecological Restoration. Inside NAU 4(34): September 6, 2007.  
([http://www4.nau.edu/insidenau/bumps/2007/9\\_6\\_07/spotlight.htm#6](http://www4.nau.edu/insidenau/bumps/2007/9_6_07/spotlight.htm#6))
2007. UNLV researchers to study restoration of native vegetation after wildfires: research will help land managers control post-fire invasion of exotic species. University of Nevada Las Vegas news release, 25 June 2007: <http://publicaffairs.unlv.edu/news-MediaCenter.html?id=477>. Article discusses awarding of a \$179,000 Joint Fire Science grant.
2007. Fighting off invaders: class project helps restore scorched land. In UNLV magazine, summer issue. Article discusses class field trips for a restoration ecology course I taught.
2005. Interview and sampling footage of a Sonoran Desert restoration project I worked on. In Maricopa magazine. News program produced by Maricopa County, Phoenix, AZ.
2003. Interview and sampling footage of an ecosystem classification project I performed. In Research in the Jocassee Gorges. Educational video produced by the South Carolina Department of Natural Resources, Columbia, SC.

## TEACHING

University of Nevada Las Vegas (major classes in bold):

- ENV 795 (Thesis) – regularly taught each semester for graduate students  
 BIO 492 (Undergraduate Research) – fall 2011 – 1 student  
 ENV 793 (Graduate Independent Study) – summer 2011 – 4 students  
 ENV 495 (Internship, with our research lab) – summer 2011 – 4 students  
 ENV 493 (Undergraduate Independent Study) – summer 2011 – 4 students  
 ENV 492 (Undergraduate Research) – summer 2011 – 7 students  
**ENV 220 (Ecological Principles) – spring 2011 – 40 students**  
**ENV 430 (Land Use Management) – spring 2011 – 29 students**  
**ENV 794 (Special Topics: Restoration Ecology) – spring 2011 – 21 students**  
 ENV 793 (Graduate Independent Study) – spring 2011 – 2 students  
 ENV 495 (Internship, with our research lab) – spring 2011 – 4 students  
 ENV 493 (Undergraduate Independent Study) – spring 2011 – 1 student  
 ENV 492 (Undergraduate Research) – spring 2011 – 1 student  
 ENV 793 (Graduate Independent Study) – fall 2010 – 2 students  
 ENV 495 (Internship, with our research lab) – fall 2010 – 3 students  
 ENV 492 (Undergraduate Research) – fall 2010 – 2 students  
 ENV 493 (Undergraduate Independent Study) – summer 2010 – 1 student  
 ENV 793 (Graduate Independent Study) – spring 2010 – 1 student  
 ENV 493 (Undergraduate Independent Study) – spring 2010 – 5 students  
 ENV 495 (Internship) – fall 2009 – 1 student  
**ENV 220 (Ecological Principles) – fall 2009 – 30 students**  
 ENV 793 (Graduate Independent Study) – spring 2009 – 3 students  
**ENV 492 (Undergraduate Research; with research symposium) – spring 2009 – 11 students**  
**ENV 101 (Introduction to Environmental Science) – spring 2009 – 279 students in multiple sections**  
 BIO 492 (Undergraduate Research) – fall 2008 – 1 student  
**BIO 420x/730 (Restoration Ecology) – spring 2008 – 14 students**

## BIO 420x/730 (Restoration Ecology) – new course created and taught spring 2007– 36 students

### GRADUATE STUDENT ADVISING

University of Nevada Las Vegas:

M.S. students (Environmental Science) and thesis titles:

Swallow, Erin. M.S. Environmental Science. (in progress)

Jurand, Ben. M.S. Environmental Science. (in progress)

Chiquoine, Lindsay P. M.S. Environmental Science. (in progress)

Roberts, Chris L. M.S. Environmental Science. (in progress)

Van Linn, Peter F. M.S. Environmental Science. (2011) Estimating wildfire potential on a Mojave Desert landscape using remote sensing and field sampling.

DeCorte, Adria S. M.S. Environmental Science. (2011) Relationships of exotic plant invasions with biological soil crusts, desert pavement, and soil carbon in the eastern Mojave Desert.

### GRADUATE STUDENT COMMITTEES

University of Nevada Las Vegas:

Skuse, Russell J. M.S. Water Resource Management. (current) Thesis: Thermophysical characteristics of surface materials for mapping the spatial distribution of soil moisture in the Mojave Desert using multi-scene ASTER TIR remote sensing observations. (Scott Nowicki and Thomas Piechota, Committee Co-Chairs).

Gatti, Josephine. PhD. Public Administration. (current) Dissertation: Network decisions: the parks trails and natural areas subgroup of the Southern Nevada Public Lands Management Act. (Chris Stream, Committee Chair).

Guida, Ross J. M.S. Environmental Science. (2011) Thesis: Climate and vegetation change in the Newberry Mountains, southern Clark County, Nevada. (Bill Smith, Committee Chair).

Joyce, Jeffrey D. M.S. Environmental Science. (2009) Professional paper: Deconstructing and overcoming the social conflicts inherent in large carnivore management. (Tim Farnham, Committee Chair).

### PROFESSIONAL SERVICE

2012

- Reviewer for Southern Nevada Agency Partnership science strategy
- Editorial Board *Forest Ecology and Management*

2011

- Invited panelist on desert restoration and management, 2011 Clark County Multiple Species Habitat Conservation Plan symposium, Las Vegas, NV
- Invited to provide perspective on conservation and resource management planning for new national conservation areas in southern Utah, with the Bureau of Land Management and The Nature Conservancy, July 23-25, Bureau of Land Management District Office, St. George, UT
- Invited panelist (6 members) of a climate change panel discussion open to the public titled “A Local Look at Global Climate Change: Climate Change in Nevada through Time and Implications for a Future Las Vegas” held on 4 May at the Las Vegas Springs Preserve, Las Vegas, NV

- Session chair for session 7, Recovery and restoration of Mojave Desert lands after disturbance, at the 36<sup>th</sup> Annual Meeting and Symposium of the Desert Tortoise Council, Las Vegas, NV
- Reviewer for *Forest Ecology and Management*, *Environmental Management* (2 manuscripts), *Journal of Arid Environments* (4 manuscripts), *Fire Ecology*, *Plant Ecology* (2 manuscripts), *Western North American Naturalist*, *Biological Invasions*, *Restoration Ecology*, *Rangeland Ecology and Management*, *Acta Oecologica*, *Invasive Plant Science and Management*
- Editorial Board *Forest Ecology and Management*

#### 2010

- Reviewer for *Restoration Ecology*, *Journal of Arid Environments*, *International Journal of Wildland Fire*, *Forest Ecology and Management* (4 manuscripts), *Ecological Research*, *Western North American Naturalist* (2 manuscripts), *Plant Species Biology*, *International Journal of Tropical Biology and Conservation*,
- Search committee for Assistant Professor of Energy Policy (UNLV)
- Committee on the creation of the graduate certificate in Solar and Renewable Energy (UNLV)
- Reviewed revegetation and restoration plan, Chuckwalla Valley solar energy projects
- Independent scientific advisory panel, California Desert Renewable Energy Conservation Plan – panel produced a comprehensive report on recommendations for desert conservation to the extent possible
- Editorial Board *Forest Ecology and Management*

#### 2009

- Editorial Board *Forest Ecology and Management*
- Proposal reviewer for Department of Defense, Strategic Environmental Research and Development
- Proposal reviewer for the National Science Foundation
- Reviewer for *Biological Conservation*, *Environmental Management*, *American Journal of Botany*, *Restoration Ecology*, *Ecological Restoration*, U.S. Forest Service Rocky Mountain Research Station proceedings paper, *Journal of the Arizona-Nevada Academy of Science*, *Journal of Arid Environments*, *Turkish Journal of Botany*, *Catena*, *Plant Biology*, *Forest Ecology and Management*, *Polish Journal of Environmental Studies*
- Session chair, Riparian and Shoreline Resources, Lake Mead Science Symposium
- *Nature* reader's review panel

#### 2008

- Reviewer for *Environmental Management*, *Forest Ecology and Management* (2 manuscripts), *Plant Ecology*, *Restoration Ecology* (2 manuscripts), *Madroño*, and *Journal of Biogeography*
- Search committee chair, UNLV Research Assistant for Mojave Network project
- Search committee member, UNLV Research Assistant for National Park Service federal highways project

#### 2007

- Search committee chair, UNLV vegetation Research Assistant for Joint Fire Science project
- Reviewer for *Forest Ecology and Management*
- Reviewer for Bureau of Land Management, Environmental Assessment (EA-AZ-130-2007-0014) for upper Langs Run watershed integrated vegetation management/watershed enhancement
- Search committee chair, UNLV vegetation Research Assistant for National Park Service programs
- Invited by the University of Leuven (Belgium) to serve on a review panel for internal funding proposals

#### 2006

- Search committee member, UNLV Administrative Assistant for the Public Lands Institute
- Invited scientist for southern Nevada research prioritization workshop
- Search committee member, UNLV wildlife Research Assistant for National Park Service programs

- Search committee chair, 2 UNLV vegetation Research Assistants for National Park Service programs
- Reviewer for *Forest Ecology and Management* (2 manuscripts), *Soil Science Society of America Journal*, *Diversity and Distributions*, *Journal of Geophysical Research – Biogeosciences*, and *Southwestern Naturalist*
- Writing workshop organizer, western old-growth frequent-fire forests, ~25 participants
- Planning panel for applied conference on managing frequent-fire forests, 300+ participants

2004

- Reviewer for *Restoration Ecology*

2002

- Reviewer for *Ohio Journal of Science*

## **OTHER QUALIFICATIONS/PROFESSIONAL DEVELOPMENT**

- Resource Advisory Council, Mojave-Southern Great Basin, Department of the Interior (2011-2014)
- Red card fire qualified (2004-2008)
- Conflict management, University of Nevada Las Vegas workshop (2008)
- Teaching & learning styles, University of Nevada Las Vegas workshop (2007)
- Diversity training, University of Nevada Las Vegas training class (2007)
- Publish & flourish, University of Nevada Las Vegas workshop (2007)
- Time management for faculty, University of Nevada Las Vegas workshop (2006)
- Living in the past: exploring letters and diaries, University of Nevada Las Vegas training class (2006)
- Making meetings meaningful, Northern Arizona University training class (2006)
- OSHA general industry and construction safety training (2000)
- OSHA hazardous waste operations and emergency response training (1998-1999)

## **PROFESSIONAL HONORS**

- Awarded Robert C. Stebbins research award by the Desert Tortoise Council for career achievements (2011)
- Co-author on presentation awarded best graduate student poster at the Annual Tri-State Western Consortium Meeting, National Science Foundation Experimental Program to Stimulate Competitive Research (EPSCoR) (2010)
- Invited as Distinguished Alumnus-in-Residence to Grand Valley State University (2006)
- Awarded \$5,000 Millhaven Fellowship at Clemson University (2001)
- Named outstanding graduate of the Natural Resources Management Program, Grand Valley State University (2000)
- Grand Valley State University's selected representative out of ~1,000 graduating seniors in the Phi Kappa Phi National Fellowship Competition (2000)
- Recipient of 8 competitive scholarships during B.S./M.S. degrees (1999-2001)

## **PAST/CURRENT MEMBERSHIPS**

- Ecological Society of America
- California Botanical Society
- California Native Plant Society
- Association for Fire Ecology
- Society for Ecological Restoration
- Society for Range Management

- Natural Areas Association
- Southern California Botanists
- Michigan Botanical Club
- Phi Kappa Phi Honor Society
- Soil and Water Conservation Society
- Society of American Foresters