

Cindy Salo

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Career Summary

Cindy Salo, Ph.D., is a plant ecologist who writes about science, natural resources, and agriculture for general and technical audiences. Her writing for general audiences has appeared in *Edible Idaho*, *Rangelands*, and *Intermountain Farm & Ranch*. She has written web-based publications for the Great Plains Fire Science Exchange and Boise State University. In her 20 years as a researcher, Cindy investigated plant interactions in the Intermountain West, the Sonoran Desert, Senegal, and Mexico. She conducted research at the University of Arizona and the U.S. Geological Survey. Cindy Salo currently owns Sage Ecosystem Science Corp., where she provides sound research and clear writing.

- Develops, researches, and writes news and feature stories about science, natural resources, and agriculture for general and technical audiences.
- Translates research results and scientific terms into clear and compelling prose.
- Edits, formats, and prepares U.S. government reports and other documents for publication.
- Reviews scientific literature and compiles complete and concise summaries.

Professional Experience

[Sage Ecosystem Science Corp.](#) - Boise, ID

Jan. 2007–Present

Scientist, Science Writer, and President

- Provides sound research and clear writing about science, ecology, natural resources, and agriculture for general and technical audiences.
- Clients include offices of the Great Plains Fire Science Exchange, City of Meridian Idaho, Sound Science LLC, The Nature Conservancy, U.S. Geological Survey, and University of Idaho.

[Saguaro Juniper Conservation Ranch](#) - Cascabel, AZ

Dec. 2012–Present

Social Media Wrangler

- Maintains Facebook page for conservation ranch that cares for land and cattle and sells grass-fed beef.

[Sweetwater Center](#) - Cascabel, AZ

Jan. 2013–Present

Vice Chair and Webster for Nonprofit Organization

- Develops education and research projects that explore connections between conservation and agriculture on the middle San Pedro River in southeast Arizona.
- Develops ideas, writes text, obtains images, and maintains website.

[Saguaro Juniper Conservation Ranch](#) - Cascabel, AZ

June 1992–Present

Social Media Wrangler

Share the responsibilities and joys of owning and caring for land and cattle in and around Hot Springs Canyon, a major tributary of the middle San Pedro River in southeast Arizona. We work with community conservation groups and government agencies to care for our land and produce grass-fed beef.

Division of Research and Economic Development

Mar. 2011–Aug. 2012

Boise State University - Boise, ID**Science and Research Writing Intern**

- Identified, developed, researched, and wrote stories about research findings at Boise State University for their research office website. Audience was the interested public.
- Took accompanying photos or located and secured permission to use others' photos.

Rangelands Magazine

Mar. 2011–July 2012

Society for Range Management - Wheat Ridge, CO**Columnist**

- Identified, developed, researched, and wrote column for award-winning professional journal. Wrote about new technologies for monitoring vegetation and soils, land management issues, innovative farms and ranches, and research on sagebrush hybrids. Audience included ranchers, academics, land managers, and researchers.
- Took accompanying photos or located and secured permission to use others' photos.
- While I was writing my column, Rangelands won a gold EXCEL award for General Journal Excellence from Association Media & Publishing (AM&P), a professional organization of association publishers.

Sound Science LLC - Boise, ID and New York, NY

May 2008–July 2011

Associate Scientist

- Wrote series of white papers on natural resource management issues for the U.S. Army Sustainable Range Program. These trained federal ecologists to manage U.S. Army training lands.
- As team member, developed online libraries and decision support tool to help U.S. Army ecologists monitoring effectively and make sound management decisions.
- Described biological thresholds for sustainable and realistic training conditions on U.S. Army training bases.

USGS Forest & Rangeland Ecosystem Science Center

Jan. 2003–Jan. 2007

Snake River Field Station - Boise, ID**Research Ecologist**

- Established research program focused on restoration of sagebrush steppe. Initiated, designed, and carried out work in ID, OR, NV, and WY.
- Identified biological thresholds for recovery of native vegetation after wildfire, determined effects of land treatments on habitat for Greater Sage-Grouse, and evaluated

the use of land treatments to thin dense, single-aged stands of big sagebrush in order to increase understory species for wildlife.

- Hired and supervised field crews; collaborated with other researchers and land managers.
- Analysed data, prepared reports, and presented results and management implications at agency, professional, and public meetings.

Institut des Sciences de l'Environnement

Mar. 2002–Dec. 2002

Université Cheikh Anta Diop - Dakar, Senegal, West Africa

Research Ecologist

- Conducted research on a Fulbright Fellowship.
- Documented the spread of introduced *Prosopis juliflora* and native *Acacia nilotica* var. *adansonia* in the Saloum region of Senegal.
- Collaborated with researchers at a University in Dakar, designed the study, located research site, and carried out field research, all in Wolof, the local language.

School of Renewable Natural Resources

Aug. 1998–Mar. 2002

University of Arizona - Tucson, AZ

Graduate Research Associate

- Investigated the effects of soil nitrogen level manipulations on interactions among red brome (*Bromus madritensis* subsp. *rubens*), a Mediterranean annual grass, and native annual species in the Sonoran Desert.
- Traced the introduction and spread of red brome in western North America.

School of Renewable Natural Resources

Jan. 1999–Dec. 2000

University of Arizona - Tucson, AZ

Graduate Teaching Associate

- Helped teach Rangeland Inventory and Monitoring and for Range and Forest Management course; both were graduate and upper division under graduate courses.
- Evaluated and coached data interpretation and technical writing skills.
- Prepared, presented, and coordinated lecture and laboratory session and field trips throughout Arizona.

School of Renewable Natural Resources

Jan. 2000–May 2000

University of Arizona - Tucson, AZ

Jan. 1999–May 1999

Graduate Teaching Associate

- Helped teach Range and Forest Management course, a graduate and upper division under graduate course.
- Prepared, presented, and coordinated lecture and laboratory session and field trips throughout Arizona.

Soil, Water & Environmental Science Department

Oct. 1992– Aug. 1997

University of Arizona - Tucson, AZ

Senior Research Specialist

- Developed guidelines and strategies for revegetating saline flue gas desulfurization (FGD) sludge disposal sites.
- Designed laboratory, greenhouse, and field studies, analyzed data, published results in peer-reviewed journals, and presented to funding agency and at professional meetings.
- Researched and wrote literature review and final project report, both published by Electric Power Research Institute (EPRI).

Education

Graduate Certificate in Technical Communications

Boise State University - Boise, ID

- 48-credit program
- Courses in writing, editing, and document production

Ph.D. in Renewable Natural Resources

University of Arizona - Tucson, AZ

- Emphasis in Plant Ecology
- Dissertation title: [Ecology and biogeography of red brome \(*Bromus madritnesis* subsp. *rubens*\) in the Sonoran Desert](#)

M.S. in Soil and Water Science

University of Arizona - Tucson, AZ

- Emphasis in Soil Microbiology
- Thesis title: [Competition between strains of rhizobia for nodulation of *Leucaena leucocephala*](#)

B.S. in Animal Science

University of Minnesota - St. Paul, MN

- Awarded with high distinction
- Additional work in Agronomy

Publications

For general audiences

[Flying Fish](#). *Edible Idaho*, Fall 2017, pp 18-20.

[Master of Steel: Bill Burke hones a centuries-old craft near Idaho City](#). *Edible Idaho*, Summer 2017, pp 26-28.

[Alderspring Ranch: Where new cowhands learn old tricks](#). *Edible Idaho*, Fall 2016, pp 14-19.

[Stars \(and Land Trust\) Align](#). *Edible Idaho*, Summer 2016, pp 18-23.

[The Vineyard is a-LIVE at Bitner](#). *Edible Idaho*, Spring 2016, pp 14-16.

- [Land Lines: Three Rangeland Essays](#). *Rangelands*, Dec. 2015, 37(6)233-236.
- [Ranchers to monitor grazing allotments](#). Intermountain Farm and Ranch section, *Idaho Falls Post Register*, June 19, 2015, p 3.
- [Red Walnuts: A Nutty Pleasure of a Different Color](#). *Edible Idaho*, Winter 2014, pp 22-23. Or read the entire issue [here](#).
- [Hoppin' Hops](#). *Edible Idaho South*, Fall 2014, pp 32-34.
- [Beet growers faced challenges in 2013](#). Intermountain Farm and Ranch section, *Idaho Falls Post Register*, Dec. 20, 2013, p 5.
- [Leadore rancher honored for stewardship work](#). Intermountain Farm and Ranch section, *Idaho Falls Post Register*, Oct. 4, 2013, p 4.
- [Sunnyside of Cheesemaking](#). *Edible Idaho South*, Fall 2013, pp 30-31.
- [Women in ag conference focuses on markets, finance](#). Intermountain Farm and Ranch section, *Idaho Falls Post Register*, March 8, 2013, p 6.
- Family and Apples. *Edible Idaho South online*, Jan. 16, 2013.
- [The Snake River Plain: I Live in a Smile](#). *Orion Magazine online The Place Where You Live*, June 13, 2012.
- Land Lines: Old and New Agrarians in Quivira. *Rangelands*, June 2012, 34(3)63-66.
- Student Research at BSU: [Sagebrush steppe focus of Andrew Austreng's research](#). Boise State University Division of Research and Economic Development website, Mar. 29, 2012.
- Land Lines: On Science, Art, and Ecotone. *Rangelands*, Feb. 2012, 34(1)44-45.
- Land Lines: Meat with a Story. *Rangelands*, Dec. 2011, 33(6)25-28.
- Land Lines: Big sagebrush: fine variations on a winning theme. *Rangelands*, Oct. 2011, 33(5)45-48.
- Research Spotlight: [Researchers find an unusual type of hybrid origin in a rare plant](#). Boise State University Division of Research and Economic Development website, Sept. 27, 2011.
- Land Lines: Waves of the Future: Radar LiDAR, and GRACE. *Rangelands*, Aug. 2011. 33(4)75-77.
- Land Lines: The Cheatgrass that Wasn't There. *Rangelands*, June 2011. 33(3)60-62.
- Research Spotlight: [Boise State researcher studies link between ants and rare plants](#). Boise State University Division of Research and Economic Development website, Apr. 26, 2011.
- Are any trees better than no trees? Mesquite from Central America is spreading in Senegal. In: *Ecology – A Science That Matters*, poster for secondary schools in West Africa, British Ecological Society, 2004.
- The grassland threat. *Arizona Daily Star Sunday* guest opinion, May 6, 2001.

Educational display

History of Sanitation. 2014. Installed at the City of Meridian, Idaho's [Wastewater Interpretive Center](#).

Fact sheet

[Planned burns in the Great Plains](#). Fact Sheet 2013-29, Great Plains Fire Science Exchange, December, 2013.

Refereed research publications

Salo, C. In review. Army cutworm outbreak produced cheatgrass “die-offs” and defoliated shrubs in southwest Idaho, 2014. *Journal of Arid Environments*.

Ganguli, A.C., D.M. Engle, P.M. Mayer, and **L.F. Salo**. 2016. [Influence of resource availability on *Juniperus virginiana* expansion in a forest-prairie ecotone](#). *Ecosphere* 7(8):e01433. 10.1002/ecs2.1433.

Washington-Allen, R.A., D.D. Briske, H.H. Shugart, and **L.F. Salo**. 2010. [Catastrophic thresholds, perspectives, definitions, and applications: An introduction](#). *Ecology and Society* 15(3):38.

Salo, L.F. 2005. Red brome (*Bromus rubens* subsp. *madritensis*) in North America: possible modes for early introductions, subsequent spread. *Biological Invasions* 7:165 - 180.

Salo, L.F., G.R. McPherson, and D.G. Williams. 2005. [Sonoran Desert winter annuals affected by density of red brome and soil nitrogen](#). *The American Midland Naturalist* 153:102-116.

Salo, L.F. 2004. Population dynamics of red brome (*Bromus madritensis* subsp. *rubens*): times for concern, opportunities for management. *Journal of Arid Environments* 57:291-296.

Salo, L.F., J.F. Artiola, and J.W. Goodrich-Mahoney. 1999. Revegetation of a saline flue gas desulfurization sludge pond. *Journal of Environmental Quality* 28:218-225.

Barlas, S.A., J.F. Artiola, **L.F. Salo**, and J.W. Goodrich-Mahoney. 1999. Sulfur transformations related to the revegetation of flue gas desulfurization sludge. *Communications in Soil Science and Plant Analysis* 30:1403-1416.

Salo, L.F., J.F. Artiola, and J.W. Goodrich-Mahoney. 1997. Selected species and amendments for revegetating saline flue gas desulfurization sludge: Greenhouse study. *Journal of Environmental Quality* 26:1176-1181.

Salo, L.F., J.F. Artiola, and J.W. Goodrich-Mahoney. 1996. Plants for revegetation of a saline flue gas desulfurization sludge pond. *Journal of Environmental Quality* 25:802-808.

Major research reports

Salo, Cindy. 2009. *Relationship between livestock trampling and slickspot peppergrass (*Lepidium papilliferum*) abundance*. Submitted to US Fish and Wildlife Service as part of comments on listing of slickspot peppergrass under the Endangered Species Act.

Salo, L.F. and J.F. Artiola. 1999. *Revegetation of a High-Volume Combustion By-Product and Low-Volume Utility Waste Disposal Area: A Southwestern Site*. EPRI TR-113939 Electric Power Research Institute, Palo Alto, CA.

Salo, L.F. and J.F. Artiola. 1994. *Revegetation of Flue Gas Desulfurization Sludge Pond Disposal Sites*. EPRI TR-103312. Electric Power Research Institute, Palo Alto, CA.

Other research publications

Salo, Cindy. 2010. [Owyhee Initiative Science Panel Minority Report](#). Report of the First Owyhee Initiative Science Panel to the University of Idaho.

- Rimbey, N., T. Hoffman, **Cindy Salo**. 2009. *Legal Issues Facing the Bureau of Land Management's Boise District: Exploring the Issues and Searching for Solutions*. Report to the BLM Boise District's Resource Advisory Committee. July, 2009.
- Washington-Allen, R.A. and **L.F. Salo**. 2007. Symposium Review: Icons and Upstarts and the Detection of Thresholds: Definitions, Perspectives, and Methods. *Ecological Society of America Bulletin* April, pp. 219-225.
- Salo, Cindy** and D.A. Pyke. 2003. Thresholds of cheatgrass dominance. pp. 27-28 In: 2003 *Intermountain Restoration Coordination Meeting*, Boise State University, Boise Idaho, March 31 & April 1, 2003. Unpublished Report, US Geological Survey.

Presentations

Invited presentations

- Johnson, B. and **Salo, Cindy**. 2009. How RTLA facilitates the preparation of RECs and the NEPA process. US Army Sustainable Range Program Workshop, July 6-10, Indianapolis, IN.
- Salo, Cindy** and B. Unnasch. 2009. *Lepidium papilliferum*: CCA+CDC=HIP... what can we learn from the data? Vth annual Intermountain Native Plant Summit, Mar. 23-25, Boise, ID.
- Salo, L.F.** and M.E. Rhodes. 2007. Sweet success? Sucrose application for wildfire rehab. Society for Range Management Annual Meeting, Feb. 9-16, Reno, NV.
- Salo, Cindy**. 2007. Anchoring the Sagebrush Sea: Readin', writin', and ranchers. Idaho Section Society for Range Management Annual Meeting and Symposium, Jan. 16-17, Boise, ID.
- Salo, L.F.** and S.E. Hanser. 2006. Introduction and spread of red brome in North America: the past, present... future. Ecology and Management of Red Brome Symposium, May 16-17, Mesa, AZ.
- Salo, Cindy**. 2006. Anchoring the Sagebrush Sea: to seed or not to seed? Intermountain Native Plant Summit, Mar. 27-29, Boise, ID.
- Salo, Cindy**. 2005. Rethinking Rangeland Sustainability: Rangeland states and transitions. On the Cutting Edge, a Symposium and Workshop of New Ideas and Tools for Rangeland Stewardship, Nov. 7-9, Boise, ID.
- Salo, Cindy** and D. Pyke. 2005. Restoration of damaged lands in the Intermountain West. US Geological Survey / Fish and Wildlife Service Coordination Meeting, May 18-19, Boise, ID.
- Salo, Cindy**. 2005. Anchoring the Sagebrush Sea: chaos at sea? Annual Idaho Rare Plant Conference, Feb. 15-16, Boise, ID.
- Salo, Cindy**. 2005. Nurturing the Mother Continent: natural resources in Senegal. Research Across Disciplines seminar, Dept. of Renewable Resources, University of Wyoming, Feb. 4, Laramie, WY.
- Salo, Cindy**. 2004. Thresholds of Cheatgrass Dominance. Department of Interior Science Seminar, USGS Water Resources, April 17, Boise, ID.

Other presentations

- Salo, Cindy**. 2009. Management implications of invasive species in shrub steppe. Conservation Biology class guest lecture, Boise State University, Mar. 5, Boise, ID.

- Salo, Cindy.** 2007. Forces of Nature: What causes range ecosystems to change or remain the same? Science on the Range Training for Teachers, Apr. 20-21, Challis, ID.
- Salo, Cindy.** 2007. Invasive species in shrub steppe. Conservation Biology class guest lecture, Boise State University, Mar. 1, Boise, ID.
- Salo, Cindy.** 2007. Are any trees better than no trees? Environmental issues in Senegal, West Africa. Environmental Science class guest lecture, Emmett High School, Mar. 2, Emmett, ID.
- Salo, Cindy.** 2007. Nurturing the Mother Continent: Old grasses, new trees. International Connections bag lunch, University Libraries, Boise State University, Jan. 18, Boise, ID.
- Washington-Allen, R.A. and **L.F. Salo**, organizers. 2006. Symposium: Icons and Upstarts and the Detection of Thresholds: Definitions, Perspectives, and Methods. Ecological Society of America Annual Meeting Aug. 6-11, Memphis, TN.
- Salo, Cindy.** 2006. Reaping local rangeland knowledge. University of Idaho field tour, April 22, Emmett, ID.
- Salo, Cindy.,** M.E. Rhodes, and D.A. Pyke 2006. Anchoring the sagebrush sea: to seed or not to seed? Northwest Scientific Association Annual Meeting, Mar. 6-8, Boise, ID.
- Salo, L.F.,** S.E. Hanser, R.S. Unnasch, and D.A. Pyke. 2006. Extreme makeover, habitat edition: Fuels management treatments and Greater Sage-Grouse (poster). Society for Range Management Annual Meeting, Feb. 12-17, Vancouver, B.C., Canada.
- Salo, L.F.,** M.E. Rhodes, and D.A. Pyke. 2005. Chaos on the Sagebrush Sea: catastrophe theory and rangeland vegetation change. Ecological Society of America Annual Meeting, Aug. 7-12, Montreal, Quebec, Canada.
- Salo, L.F.,** R.S. Unnasch, and D.A. Pyke. 2005. Anchoring the Sagebrush Sea: thresholds for recovery of Wyoming big sagebrush communities. Society for Range Management Annual Meeting, Feb. 5-11, Ft. Worth, TX.
- Salo, Cindy.** and D.A. Pyke. 2004. Thresholds of cheatgrass dominance: research update. Coordinated Intermountain Restoration/Integrated Restoration Strategies Research Update Meeting, Dec. 1-2, Reno, NV.
- Salo, L.F.,** D.A. Pyke, and M. Pellant. 2004. Anchoring the Sagebrush Sea: thresholds for recovery of Wyoming big sagebrush communities (poster). Ecological Society of America Annual Meeting, Aug. 1-6, Portland, OR.
- Salo, L.F.** and M. Zielinski. 2004. Cheatgrass dieoffs: of drought, cutworms, and bears? (poster). Society for Range Management Annual Meeting, Jan. 24-30, Salt Lake City, UT.
- Salo, L.F.,** G.R. McPherson, and D.G. Williams. 2004. Red brome and Sonoran Desert winter annuals affected by soil nitrogen level (poster). Intermountain Native Plant Summit, Jan. 28, Salt Lake City, UT.
- Tartowski, S., **L. Salo**, and J. Herrick. 2003. Manipulation of resource heterogeneity in restoration of arid grasslands and shrublands. Society for Ecological Restoration Annual International Conference, November 19-22, Austin, Texas.
- Salo, L.F.** 2003. Introduced (*Prosopis juliflora* and *Azadirachta indica*) and native (*Acacia nilotica* subsp. *adansonii*) trees spreading in Senegal, West Africa (poster). Ecological Society of America Annual Meeting, Aug. 3-9, Savannah, GA.
- Salo, L.F.,** G.R. McPherson, and D.G. Williams. 2002. Sonoran Desert winter annuals affected by density of red brome (*Bromus rubens*) and soil nitrogen (poster). Ecological Society of America Annual Meeting, Aug. 4-9, Tucson, AZ.

- Salo, L.F.**, G.R. McPherson, and D.G. Williams. 2000. Biogeography of red brome (*Bromus rubens*) in the Sonoran Desert (poster). Ecological Society of America Annual Meeting, Aug. 6-10, Snowbird, UT.
- Salo, L.F.**, G.R. McPherson, and D.G. Williams. 1999. Biogeography of red brome (*Bromus rubens*) in the Sonoran Desert (poster). Natural Areas National Conference, Oct. 13-16, Tucson, AZ.
- Salo, L.F.** and J.F. Artiola. 1996. Revegetation of a saline flue gas desulfurization sludge pond (poster). American Society of Agronomy National Meetings, Oct. 30-Nov. 8, Indianapolis, IN.
- Salo, L.F.** and J.F. Artiola. 1994. Evaluation of plants and amendments for revegetation of saline flue gas desulfurisation sludge (poster). American Society of Agronomy National Meetings, Nov. 13-18, Seattle, WA.
- Kopec, D.M., P.W. Brown, C.F. Mancino, D.C. Slack, and **L.F. Salo**. 1988. Desert turfgrass crop coefficients. American Society of Agronomy National Meetings, Nov. 27 - Dec. 2, Anaheim, CA.

Grants, Awards, and Fellowships

2006. Forest and Rangeland Ecosystem Science Center, **US Geological Survey STAR award**, for field crew safety.
- 2005-2007. **Science Support Partnership Grant**, US Geological Survey / US Fish and Wildlife Service. Thresholds of recovery: cheatgrass dominance in Wyoming big sage-brush communities after fire and fire surrogate treatments. With Rachelle Huddleston-Lorton, Hart Mountain National Antelope Refuge, Plush, OR.
2005. First place winner: Digital Division, 30th Annual **US Geological Survey National Photographic Competition**.
2002. **Percy Sladen Memorial Fund Field Research Grant**, Linnean Society of London, England. Spread of *Prosopis juliflora* in the Saloum Region of Senegal.
- 2001-2002. **Fulbright Fellowship** to Senegal, West Africa, US State Department. Spread of *Prosopis juliflora* in the Saloum Region of Senegal.
2000. **Springfield Travel Scholarship**, School of Renewable Natural Resources, University of Arizona. Biogeography of red brome (*Bromus rubens* L.) in the Sonoran Desert.
- 1999-2000. **Final Project Fund Award**, Graduate College, University of Arizona. Ecology and Biogeography of red brome (*Bromus rubens* L.) in the Sonoran Desert.
1999. **Student Travel Grant**, Institute for the Study of Planet Earth, University of Arizona. Biogeography of red brome (*Bromus rubens* L.) in the Sonoran Desert.
- 1997-1998. **Small Projects Grant**, Small Grants Program, Office of the Vice President for Research, University of Arizona. Phytoremediation Potential of *Astragalus amphioxys*, a Boron Accumulator.
- 1997-1998. **Graduate Registration Scholarship**, Arid Land Resource Sciences, University of Arizona.
- 1993-1994. (With Janick F. Artiola) Phase I: Research and Engineering, **Revegetation of RICRA Closed Land Disposal Units**, Hughes Missile, Tucson, AZ, with J. F. Artiola, University of Arizona.

1983. **Tinker Field Research Grant**, Tinker Foundation, Inc. Collection of rhizobia bacteria nodulating *Leucaena leucocephala* in Vera Cruz and Yucatan, Mexico.

Professional Service

2010-2012. Finance Co-chair of 2012 Annual Meeting, Society for Range Management.

2012. Student presentation judge, Society for Range Management Annual Meeting, Jan. 30-Feb. 3, Spokane, WA.

2007-2011. Treasurer, Idaho Section, Society for Range Management.

2011. Student presentation judge, Society for Range Management Annual Meeting, Feb. 7-11, Billings, MT.

2009. Panel member, US Dept. of Defense and US EPA Strategic Environmental Research and Development Program (SERDP).

2009. Student presentation judge, Society for Range Management Annual Meeting, Feb. 9-12, Albuquerque, NM.

2007. Served as ecological site description expert during breakout session, Ecological Site Descriptions as a Management Tool Workshop, Oct. 24, Park City, Utah.

2007. Student presentation judge, Society for Range Management Annual Meeting, Feb. 12-15, Reno, NV.

2006. Buell-Braun student presentation judge, Ecological Society of America Annual Meeting, Aug. 6-11, Memphis, TN.

2006. Panel member, US Dept. of Agriculture Cooperative State Research, Education and Extension Service (CSREES), National Research Initiative (NRI) Competitive Grants Program, Washington, DC.

2006. Student presentation judge, Society for Range Management Annual Meeting, Feb. 12-17, Vancouver, B.C., Canada.

2005. Strategies for Ecology Education, Development, and Sustainability (SEEDS) Mentor, Ecological Society of America Annual Meeting, Aug. 7-12, Montreal, Quebec, Canada.

2005. Reviewed Greater Sage-Grouse Conservation Assessment and Strategy for Oregon, prepared by the Oregon Department of Fish and Wildlife.

2005. Student presentation judge, Society for Range Management Annual Meeting, Feb. 5-11, Ft. Worth, TX.

2004. Reviewed red brome (*Bromus rubens*) profile for Global Invasive Species Database (GISD), produced by the Invasive Species Specialist Group of the IUCN.
<http://www.issg.org/database>.

2003. Buell-Braun student presentation judge, Ecological Society of America Annual Meeting, Aug. 3-9, Savanna, GA.

2003. AgroEcosystems Session Chair. Ecological Society of America Annual Meeting, Aug. 3-9, Savanna, GA.

Training Courses

2011. **Santa Fe Science Writing Workshop**, May 31-June 4, Santa Fe, NM.

2009. **NEPA Cumulative Impacts: Analysis and Documentation**, Oct. 20-21, Salmon, ID.
2009. **Applying the NEPA Process and Writing Effective NEPA Documents**, Aug. 11-4, Las Vegas, NV.
2007. **Resolving Land Use Disputes**, Lincoln Institute of Land Policy, Oct. 2-3, Salmon, ID.
2006. **Using the Vegetation Dynamics Development Tool (VDDT) to Simulate Vegetation Change on the Landscape**, L. Frid, Society for Range management Annual Meeting. Feb. 16, 2006, Vancouver, B.C., Canada.
2004. **Structural Equation Modeling**, J. Grace and S. Scheiner, Ecological Society of America Annual Meeting. Aug. 1, Portland, OR.
2004. **Eco-Informatics Training for Ecologists**, Long Term Ecological Research Network Office, University of New Mexico. Jan. 4-9, Sevilleta, NM.
2003. **Interpreting and Measuring Indicators of Rangeland Health**, D. Pyke, J. Herrick, P. Shaver, M. Pellant, BLM Interagency Training Course. June 24-27, Boise, ID.
2000. **Intermediate Wildland Fire Behavior**, Tucson, AZ.
2000. **Basic Wildland Firefighting**, Tucson, AZ.

Peer Review Service

American Journal of Botany
Environmental Management
Invasive Plant Science and Management
Journal of Applied Ecology
Journal of Arid Environments

Journal of Environmental Quality
Plant Ecology
Rangeland Ecology and Management
Restoration Ecology
Weed Technology