

R. Travis Belote

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EDUCATION

PhD, Biological Sciences, 2008 Virginia Tech

MS, Ecology and Evolutionary Biology, minor in Statistics, 2003 University of Tennessee

BA, Environmental Studies, minor in Biological Sciences, 2000 University of Tennessee

CURRENT POSITIONS

Lead Ecologist, The Wilderness Society. October 2009 – present

Affiliate Assistant Professor, Department of Ecology, Montana State University, Bozeman, MT.
December 2011 - present

Faculty Affiliate, Department of Ecosystem and Conservation Sciences, College of Forest and Conservation, University of Montana, Missoula, MT. October 2010 - present

PUBLICATIONS

Belote, R.T., C. Carroll, S. Martinuzzi, J. Michalak, J.W. Williams, M.A. Williamson, G.H. Aplet. 2018. Assessing agreement among alternative climate change projections to inform conservation recommendations. *Scientific Reports* 8: art 9441

Belote, R.T. 2018. Proposed release of Wilderness Study Areas in Montana (USA) would demote the conservation status of nationally-significant wildlands. *Land* 7(2): 69 (in special issue on protected areas and biodiversity)

Belote, R.T. 2018. Quantifying the range of variability in wilderness areas for use as a reference when evaluating wilderness candidates. *International Journal of Wilderness* XX: xxx-xxx

Belote, R.T. and G.H. Irwin. 2017. Quantifying the national significance of local areas for regional conservation planning: North Carolina's Mountain Treasures. *Land* 6(2): 35

LaManna, J.A., **R.T. Belote**, L.A. Burkle, C.P. Catano, and J.A. Myers. 2017. Negative density dependence mediates biodiversity-productivity relationships across scales. *Nature Ecology and Evolution* 1 (8): 1107.

Belote, R.T., M.S. Dietz, P.S. McKinley, A.A. Carlson, C. Carroll, D.L. Urban, T.J. Fullman, J.C. Leppi, and G.H. Aplet. 2017. Mapping conservation strategies under a changing climate. *BioScience* 67: 494-497.
10.1093/biosci/bix028

Belote, R.T., M.S. Dietz, C.N. Jenkins, P.S. McKinley, G.H. Irwin, T.J. Fullman, J.C. Leppi, and G.H. Aplet. 2017. Wild, connected, and diverse: building a more resilient system of protected areas. *Ecological Applications* 27: 1050-1056 10.1002/eap.1527

Urgenson, L.S., C.R. Nelson, R.D. Haugo, C.B. Halpern, J.D. Bakker, C.M. Ryan, A.E.M. Waltz, **R.T. Belote**, E. Alvarado. 2017. Social perspectives on the use of reference conditions in restoration of fire-adapted forest landscapes. *Restoration Ecology* 10.1111/rec.12640

- Belote, R.T.**, R.M. Cooper, and R.A. Daniels. 2017. Contemporary composition of land use, ecosystems, and conservation status along the Lewis and Clark National Historic Trail. *The Natural Areas Journal* 37: 17-29
- Schaedel, M.S., A.J. Larson, D.L.R. Affleck, **R.T. Belote**, J.M. Goodburn, D.K. Wright, and E. Kennedy Sutherland. 2017. Long-term precommercial thinning effects on *Larix occidentalis* (western larch) tree and stand characteristics. *Canadian Journal of Forest Research* 47: 861-874. 10.1139/cjfr-2017-0074
- Schaedel, M.S., A.J. Larson, D.L.R. Affleck, **R.T. Belote**, J.M. Goodburn, and D.S. Page-Dumroese. 2017. Early forest thinning changes aboveground carbon distribution among pools, but not total amount. *Forest Ecology and Management* 389: 187-198.
- Urgenson, L.S., C.M. Ryan, C.B. Halpern, J.D. Bakker, **R.T. Belote**, J.F. Franklin, R.D. Haugo, C.R. Nelson, and A.E.M. Waltz. 2016. Visions of restoration in fire-adapted forest landscapes: lessons from the Collaborative Forest Landscape Restoration Program. *Environmental Management* 59: 338-353.
- Belote, R.T.**, M.S. Dietz, B.H. McRae, D.M. Theobald, M.L. McClure, G.H. Irwin, P.S. McKinley, J.A. Gage, and G.H. Aplet. 2016. Identifying corridors among large protected areas in the United States. *PLoS ONE* 11: e0154223.
- Belote, R.T.** and G.H. Aplet. 2016. 80-year old roadless assessment provides important context for recent global evaluation. *Science* 354 (6318) eLetter.
- Belote, R.T.**, M.S. Dietz, and G.H. Aplet. 2015. Allocating untreated controls to assist climate adaptation strategies: a case study from the Flathead National Forest, Montana. *Northwest Science* 89: 239-254
- Belote, R.T.**, D.M. David-Chavez*, M.S. Dietz, and G.H. Aplet. Whitebark pine in wilderness under a changing climate. *Nutcracker Notes*: Winter 2015-2016
- M.S. Dietz, **Belote, R.T.**, D.M. David-Chavez*, and G.H. Aplet. A decision framework for managing whitebark pine in wilderness. *Nutcracker Notes*: Winter 2015-2016
- Aycrigg, J.L., J.L. Tricker, **R.T. Belote**, M.S. Dietz, L. Duarte, and G.H. Aplet. 2016. The next 50 years: opportunities for diversifying the ecological representation of the National Wilderness Preservation System within the contiguous United States. *Journal of Forestry* 114: 396-404.
- Burkle, L.A., J.A. Myers, and **R.T. Belote**. 2015. Wildfire disturbance and productivity as drivers of plant species diversity across spatial scales. *Ecosphere* 6:art202
- Davis, C.R., **R.T. Belote**, M. Williamson, B. Esch, and A.J. Larson. 2015. A rapid forest assessment method for multi-party, landscape monitoring. *Journal of Forestry* 114: 125-133
- Burkle, L.A., J.A. Myers, and **R.T. Belote**. 2015. The beta-diversity of species interactions: Untangling the drivers of geographic variation in plant-pollinator diversity and function across scales. *American Journal of Botany* 103: 118-128.
- Hessburg, P.F., D.J. Churchill, A.J. Larson, R.D. Haugo, T.A. Spies, N. A. Povak, **R.T. Belote**, P.A. Singleton, M. P. North, W.L. Gaines, R.E. Keane, S. L. Stephens, P. Morgan, G.H. Aplet, P.A. Bisson, B.E. Rieman, R.B. Salter, G.H. Reeves, C.A. Miller. 2015. Restoring fire-prone landscapes: seven core principles. *Landscape Ecology* 30: 1805-1835

- Belote, R.T.**, A.J. Larson, and M.S. Dietz. 2015. Tree survival scales to community-level effects following mixed-severity fire in a mixed-conifer forest. *Forest Ecology and Management* 353: 221-231.
- Dietz, M.S., **R.T. Belote**, G.H. Aplet, and J.L. Aycrigg. 2015. The world's largest wilderness preservation system after 50 years: how well are ecosystems represented? *Biological Conservation* 184: 431-438.
- Belote, R.T.** 2015. Contemporary patterns of burn severity heterogeneity from fires in the Northwestern U.S. In: Keane, Robert E.; Jolly, Matt; Parsons, Russell; Riley, Karin. 2015. Proceedings of the large wildland fires conference; May 19-23, 2014; Missoula, MT. Proc. RMRS-P-73. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 345 p.
- Burkle, L.A. and **R.T. Belote**. 2015. Soil mutualists, not nutrient enrichment, mediate priority effects on productivity, composition, and diversity. *Applied Vegetation Science* 18: 332-342.
- Belote, R.T.** and G.H. Aplet. 2014. Land protection and timber harvesting along productivity and diversity gradients in the Northern Rocky Mountains. *Ecosphere* 5(2):17. <http://dx.doi.org/10.1890/ES13-00266.1>
- Hopkins, T., A.J. Larson, and **R.T. Belote**. 2014. Contrasting effects of wildfire and ecological restoration in old-growth western larch forests. *Forest Science* 60: 1005-1013.
- Larson, A.J., **R.T. Belote**, M. Williamson, and G.H. Aplet. 2013. Making monitoring count: project design for active adaptive management. *Journal of Forestry* 111: 348-356.
- Bowker, M.A., M.E. Miller, **R.T. Belote**, and S.L. Garman. 2013. *Ecological thresholds as a basis for defining management triggers for National Park Service vital signs—Case studies for dryland ecosystems: U.S. Geological Survey Open-File Report 2013–1244.*
- Larson, A.J., **R.T. Belote**, C.A. Cansler, S.A. Parks, and M.S. Dietz. 2013. Latent resilience in ponderosa pine forests: effects of a resumed frequent fire. *Ecological Applications* 23: 1243–1249
- Copenheaver, C.A., **R.T. Belote**, J. Peterson, and L. Grinter. 2013. A dendroclimatic assessment of habitat specificity: Use of a functional trait to classify white oak. *Journal of the Torrey Botanical Society* 140:41-51
- Hutto, R.L. and **R.T. Belote**. 2013. Four types of questions that monitoring can address. *Forest Ecology and Management* 289: 183-189
- Belote, R.T.**, R.H. Jones, and T.F. Wieboldt. 2012. Compositional stability and diversity of vascular plant communities following logging disturbance in Appalachian forests. *Ecological Applications* 22: 502-516.
- Bowker, M.A., Miller, M.E., and **R.T. Belote**, 2012, Assessment of rangeland ecosystem conditions, Salt Creek watershed and Dugout Ranch, southeastern Utah: U.S. Geological Survey Open-File Report 2012-1061.
- Miller, M.E., **R.T. Belote**, M.A. Bowker, and S.L. Garman. 2011. Alternative states of a semiarid grassland ecosystem: implications for ecosystem services. *Ecosphere* 2(5):art55 doi:10.1890/ES11-00027.1
- Belote, R.T.**, S.P. Prisley, R.H. Jones, M. Fitzpatrick, and K. de Beurs. 2011. Forest productivity and tree diversity relationships depend on ecological context within mid-Atlantic and Appalachian forests. *Forest Ecology and Management* 261: 1315-1324.
- Belote, R.T.**, L.J. Makarick, M.J. Kearsley, and C.L. Lauver. 2010. Tamarisk removal in Grand Canyon National Park: Changing the native-exotic relationship as a restoration goal. *Ecological Restoration* 28: 449-459.

Souza, L., **R.T. Belote**, P. Kardol, J.F. Weltzin, and R.J. Norby. 2010. CO₂ enrichment accelerates successional development of an understory plant community. *Journal of Plant Ecology* 3: 33-39.

Belote, R.T., N.J. Sanders, and R.H. Jones. 2009. Disturbance alters local-regional richness relationships in Appalachian forests. *Ecology* 90: 2940-2947

Belote, R.T. and R.H. Jones. 2009. Tree leaf litter composition and nonnative earthworms influence plant invasion in experimental forest floor mesocosms. *Biological Invasions* 11: 1045-1052.

Belote, R.T., R.H. Jones, S.M. Hood, and B.W. Wender. 2008. Diversity-invasibility along a disturbance gradient in Appalachian forests. *Ecology* 89: 183-192

Weltzin, J.F., **R.T. Belote**, L.M. Thomas, J.K. Keller, C.E. Engel. 2007. Ensuring that “authors” write – the authors reply. *Frontiers in Ecology and the Environment* 5: 11

Belote, R.T. and J.F. Weltzin. 2006. Interactions between two co-dominant, invasive plants in a temperate deciduous forest. *Biological Invasions* 8: 1629-1641

Weltzin, J.F., **R.T. Belote**, L.M. Thomas, J.K. Keller, C.E. Engel. 2006. Authorship in ecology: attribution, accountability, and responsibility. *Frontiers in Ecology and the Environment* 4: 435-441

Belote, R.T., J.F. Weltzin, and R.J. Norby. 2004. Response of an understory plant community to elevated [CO₂] depends on differential responses of dominant invasive species and is mediated by soil water availability. *New Phytologist* 161: 827-835.

Sanders, N.J., **R.T. Belote**, and J.F. Weltzin. 2004. Multi-trophic effects of elevated atmospheric CO₂ on understory plant and arthropod communities. *Environmental Entomology* 33: 1609-1616.

Weltzin, J.F., **R.T. Belote**, N.J. Sanders. 2003. Biological invaders in a greenhouse world: will elevated CO₂ fuel plant invasions? *Frontiers in Ecology and the Environment* 1:146-153.

Authored essays written for general (non-technical) audience

Belote, T., G. Aplet, A. Carlson, and P. McKinley. 2014. Wilderness and conservation strategy in the Anthropocene. *The Pinchot Letter* (Spring 2014): pages 8-11.

Belote, T., G. Aplet. And P. McKinley. The conception of wild ideas: scientists confront conservation challenges of our times. *The Appalachian Voice* (February/March 2013): page 17. *Full essay published online:* <http://appvoices.org/2013/02/13/the-conception-of-wild-ideas-scientists-confront-conservation-challenges-of-our-times/>

Select Book Chapters, Technical Reports, and Theses

Belote, Travis. *Guest column: We stand united in gratitude for our shared public land heritage.* Bozeman Daily Chronicle November 29, 2014.

Tabor, G.M., A.A. Carlson, and **R.T. Belote**. 2016. Challenges and opportunities for large landscape-scale management in a shifting climate: the importance of nested adaptation responses across geospatial and temporal scales. *Forest Conservation in the Anthropocene*, V.A. Sample, R.P. Bixler, and C. Miller (editors), University Press of Colorado.

Belote, R.T., R. Mason, A.A. Carlson. 2014. *Landscape assessment of wildland values in Idaho's High Divide.* The Wilderness Society.

Bowker, M.A., M.E. Miller, S.L. Garman. and **T. Belote**. 2014. Applying threshold concepts to conservation management of dryland ecosystems: case studies on the Colorado Plateau. p. 101-130 in *Application of Threshold Concepts to Natural Resource Decision Making*. G.R. Guntenspergen (editor). Springer.

Belote, R.T. 2008. *Diversity, invasibility, and stability of Appalachian forests across an experimental disturbance gradient*. Dissertation. Virginia Tech, Blacksburg, VA.

Belote, R.T. 2003. *Effects of elevated CO₂ on a forest understory community dominated by two invasive plants*. Thesis. University of Tennessee, Knoxville, TN.

Coles, J., K. Decker, and **T. Belote**. 2005. Final Vegetation Classification for Canyonlands National Park. Report to National Park Service, Northern Colorado Plateau Network. Moab, UT.

Belote, Travis and Jim Von Loh. 2003. Preliminary Vegetation Classification Report for Hovenweep National Monument. Report to National Park Service, Northern Colorado Plateau Network. Moab, UT.

Research appearing in popular press

War on the wildest places: US bill may open pristine lands to development. Elliott Woods. *The Guardian*: <https://www.theguardian.com/environment/2018/feb/09/montana-wilderness-study-area-republican-bill-threat>

A Montana bill takes aim at wilderness study areas. Elliott Woods. *High Country News*: <https://www.hcn.org/articles/wilderness-daines-montana-bill-takes-aim-at-wilderness-study-areas>

National Oceanic and Atmospheric Administration (NOAA) – U.S. Climate Resilience Toolkit: <https://toolkit.climate.gov/case-studies/mapping-wildland-values-and-climate-change-vulnerability>

Wilburforce Foundation Stories: “Protecting Wildlands, Connecting Landscapes”: <http://www.wilburforce.org/story/protecting-wildlands-connecting-landscapes>

Data to the Rescue: Smart Ways of Doing Good. Nicole Wallace. *The Chronicle of Philanthropy*.

“[Notebook and Satellite](#)” in *Sensing Our Planet: NASA Earth Science Research Features 2009*

The Laurel of Asheville, December 2016: “Public support influences which lands are protected in our region” <http://thelaurelofasheville.com/outdoors/conservation/choosing-lands-protect/>

Published web logs (Blogs)

Fire in the Bob Marshall Wilderness (blog on The Wilderness Society website): <http://wilderness.org/blog/fire-montanas-bob-marshall-wilderness-our-ecologist-blogs-bob-part-1>

To intervene or not to intervene: this is a real question (blog on The EEB and Flow) <http://evol-eco.blogspot.com/2010/01/to-intervene-or-not-to-intervene-this.html>

PROFESSIONAL SERVICE

- Associate editor, [Biological Invasions](#) (2009 – 2018)
- Steering committee for [Ecology+](#) (NSF-funded project led by the Strategies for Ecology Education, Diversity and Sustainability program)
- Chair of the monitoring committee of the Southwestern Crown of the Continent Collaborative (Montana) – part of the federal Collaborative Forest Landscape Restoration Program (CFLRP); 2010-12
- Board of directors and curriculum committee, [Wild Rockies Field Institute](#) (University of Montana)

- Reviewer for the journals: *Acta Oecologica*, *American Journal of Botany*, *The American Midland Naturalist*, *Applied Vegetation Science*, *Biological Conservation*, *Biological Invasions*, *BMC Ecology*, *Climatic Change*, *Ecography*, *Ecological Applications*, *Ecological Informatics*, *Ecological Research*, *Ecology*, *Ecology and Evolution*, *Ecology Letters*, *Ecosphere*, *Fire Ecology*, *Forest Ecology and Management*, *Functional Ecology*, *Global Ecology and Biogeography*, *Journal of Applied Ecology*, *Journal of Ecology*, *Journal of Forestry*, *Journal of Mountain Science*, *Methods in Ecology and Evolution*, *Oikos*, *Plant and Soil*, *Plant Ecology*, *PLoS ONE*, *Restoration Ecology*, *Scandinavian Journal of Forest Research*, and *Sustainability*; 2 chapters for books edited by Inderjit; report for the USDA Forest Service; NSF proposal
- SEEDS mentor (Strategies for Ecology Education, Diversity, and Sustainability, 2007 & 2009)
- Served on committee for Ecology, Evolution, and Behavior seminar series (Virginia Tech 2007-08)
- Invited guest editor for special issue of [Diversity](#) – Open Access Journal

MEMBERSHIPS

- Ecological Society of America
- Society for Conservation Biology
- International Association for Landscape Ecology

PROFESSIONAL EXPERIENCE

- **Postdoctoral Ecologist**, U.S. Geological Survey, Southwest Biological Research Center, Flagstaff, AZ. September 2008 – October 2009
- **Graduate Research Assistant**, Virginia Tech, Department of Biological Sciences, Blacksburg, VA. August 2005 – October 2008
- **Ecologist**, Engineering-Environmental Management Inc., Littleton, CO. November 2003 – May 2004.
- **Biological Science Technician**, Crew Leader, Grand Teton National Park, WY. May 2003 – October 2003
- **Graduate Research and Teaching Assistant**, University of Tennessee, Department of Ecology and Evolutionary Biology, Knoxville, TN. January 2001 – May 2003
- **Wildland Fire Fighter**, Great Smoky Mountains National Park, TN. October 2000 – December 2000
- **Interpretive Park Ranger**, National Park Service, Denali National Park and Preserve, AK. May 2000 – October 2000
- **Air Quality Intern**, Southern Alliance for Clean Energy, Knoxville, TN. November 1999 – May 2000
- **Student Conservation Association Intern** in Interpretation/Resource Education, Great Smoky Mountains National Park, TN. May 1999 – August 1999

TEACHING EXPERIENCE

Formal classroom or laboratory experience

- **Co-instructor**. Disturbance Ecology (graduate reading course), Montana State University
- **Co-instructor**. Fire Ecology and Forest Sampling Methods (undergraduate field course), University of Montana
- **Instructor**. Biology 130 Lab: *Biodiversity* (introductory course for biology majors at the University of Tennessee). Prepared lectures; assisted students with laboratory work and research projects; developed, administered and graded quizzes and lab exams; administered study sessions for lecture portion of course; provided advice and support to students.

- **Instructor.** Biology 102 Lab: *Humankind in the Biotic World* (intro. course for non-majors at Tennessee). Same responsibilities as above but with curricula suited to broader student interests.
- **Instructor.** *Undergraduate Research* (Virginia Tech). Mentored undergraduates in independent research project (see below for details).
- **Guest lecturer.** *General Ecology* (Virginia Tech). Presented invited lecture on the causes and consequences of biological invasions.
- **Guest lecturer.** *Restoration Ecology* (University of Montana). Presented invited lecture on the theory and application of ecological resilience concepts.
- **Guest lecturer.** *Disturbance Ecology* (University of Montana). Presented invited lecture on the theory and application of ecosystem regime shifts and thresholds concepts.
- **Guest lecturer.** *Forest Ecology* (University of Montana). Presented invited lecture on eastern deciduous forest ecosystem dynamics covering seminal works (e.g., Braun, Whittaker, Bromann and Likens) and linking examples to a Hans Jenny-Terry Chapin conceptual model of ecosystem pattern-process relationships.
- **Guest lecturer.** *Forest Ecology* (University of Montana). Presented invited lecture on fire regimes of forests in the western U.S. drawing from large-scale empirical analyses with a theoretical foundation in disturbance ecology

Graduate student committees and mentoring

- Simone Durney, Montana State University, “Evaluating functional traits to understand the effects of wildfires on native pollinator communities”
- Michael Simanonok, Montana State University, “Fire effects on plant-pollinator networks, diversity, and stoichiometry”
- Laura Heil, Montana State University, “Comparing logging and fire’s influence on plant and pollinator networks and diversity across the Northern Rockies” (defended spring 2016)
- Michael Schaedel, University of Montana, “The long-term effects of pre-commercial thinning on storage levels and distribution of carbon and woody detritus in western larch (*Larix occidentalis*) stands in the Northern Rockies. (defended spring 2016)
- Aaron Klingborg, Montana State University, “Nitrogen uptake efficiency in conifers” (defended spring 2016)
- Michael Simanonok, Montana State University, “Spatial and temporal plant-pollinator network turnover on the Beartooth Plateau” (defended fall 2013)
- Bryce Esch, University of Michigan, “Fire modeling using rapid forest assessment data in the Crown of the Continent, Montana” (finished spring 2014)

Undergraduate student research mentor

- Dominique David, Montana State University, Hopa Mountain Native Science Fellow “Shifts in tree species from climate change: are we accounting for soils?” [published paper in *Nutcracker Notes*]
- Cody Welch, Montana State University, Hopa Mountain Native Science Fellow “Patterns of fire severity across a regional productivity gradient”
- Taylor Hopkins, University of Montana, “Spatial patterns of old-growth western larch forests following fire in the Bob Marshall Wilderness” [published paper in *Forest Science*]

- Danielle LaPlant, University of Montana, Hopa Mountain Native Science Fellow, “Long-term impacts of forest thinning on crown fire risk in western larch (*Larix occidentalis*) stands of the Southwestern Crown on the Continent, Montana” [presented at Montana Chapter Society for Conservation Biology meeting, 2012]
- Aaron Teets, Virginia Tech, “*Response of medicinal plants to alternative forest management options in the Southern Appalachian Mountains*” [presented at Association of Southeastern Biologist meeting, 2007]
- Roo Vandegrift, Virginia Tech, “*Soil resource responses to timber harvesting disturbance in Appalachian forests*” [presented at Association of Southeastern Biologist meeting, 2007]
- Anna Morkeski, UMASS/Virginia Tech, “*Litter dwelling arthropod community response to altered tree leaf litter composition*” (mentor for experimental design and field data collection portion of project)

GRANTS AND AWARDS

- Citizen Leadership Award - Hopa Mountain Foundation (2014)
- Edward A. Ames Award for Scholarship and Conservation Advocacy, The Wilderness Society (2014)
- Joint Fire Science Program (\$200,000); “Influence of past wildfires on wildfire effects in the northern Rockies mixed-conifer forest”
- National Science Foundation (\$667,577); “Disturbance and productivity as drivers of plant-pollinator diversity and function across scales” (2013-2016)
- Excellence in Wilderness Stewardship Research Award, given by the US Forest Service and International Journal of Wilderness (2013)
- National Forest Foundation Matching Program Award (\$68,000 with match; 2011-2012)
- Co-PI for Great Northern Landscape Conservation Cooperative funding (\$88,000; 2011-2012)
- Gloria Barron Scholarship for research, awarded by The Wilderness Society (\$10,000; 2008)
- College of Science Outstanding Dissertation Commendation Award – Virginia Tech (\$250; 2009)
- WPI Environmental Graduate Fellowship (\$2,500; 2007)
- Virginia Tech College of Science “Make-A-Difference” Scholarship (\$2,500; 2007)
- Virginia Tech Graduate Research Development Program Award (\$200; 2007)
- Travel Award – Association of Southeastern Biologists Meeting (\$200; 2007)
- Best Student Poster – Virginia Tech, Dept. of Biological Sciences Research Day (\$100; 2006)
- Cash Award for performance – USNPS, Grand Teton National Park (\$546; 2003)
- Travel Award – Association of Southeastern Biologists Meeting (\$200; 2002)

PRESENTATIONS

Invited

U.S. Senate staff briefing (organized by Senate Committee on Energy and Natural Resources, May 2011)
 Aldo Leopold Wilderness Research Institute, Clemson University, Montana State University, University of Montana, Oak Ridge National Lab, U.S. Geological Survey, Greater Yellowstone Coalition, Rocky Mountain Research Station Missoula Fire Sciences Lab, Smithsonian Conservation Biology Institute

Organized Sessions

“50 years of Wilderness Science: What have wilderness areas taught us about ecosystems?” at the Annual Meeting of the Ecological Society of America in Portland, OR (Aug. 2014)

“Mixed Severity Fire Regime as a Guiding Concept for Forest Management: Variability in Space and Time, Restoration, and Future Challenges” at the Annual Meeting of the Ecological Society of America in Portland, OR (Aug. 2012)

“Application of Threshold Concepts to Decision Making” co-organized with M.E. Miller at the Biennial Conference Integrating Science and Management on the Colorado Plateau in Flagstaff, AZ (Oct. 2009)

Presentations at Professional Meetings (selected from over 50 presentations)

Belote, R.T. and G.H. Aplet. 2015. Mapping wildland values and climate change vulnerability to support conservation strategy across the U.S. Promoting Synergy in the Innovative Use of Environmental Data December 2015. Washington DC [invited to workshop]

Belote, R.T. 2014. Ecological inference from wildlands: What has wilderness taught us about ecosystems? National Wilderness Conference, Albuquerque, NM, October 2014.

Belote, R.T. 2014. Networks of science and their application: Opportunities for reciprocal relationships between ecology and conservation management. North American Section – Society for Conservation Biology Meeting, Missoula, MT, July 2014.

Belote, R.T., A.J. Larson, C.A. Cansler*, and M.S. Dietz. 2012. Wilderness as a reference for restoration: can burned western larch forests in the Bob Marshall Wilderness serve as models for cross-scale restoration targets in mixed-severity fire regimes? 5th International Fire Ecology and Management Congress, Portland, OR, December 2012.

Belote, R.T., C.A. Cansler*, M. Crist, and G.H. Aplet. 2012. Mixed severity fire: Conceptual and empirical overview of ecology and case studies of restoration challenges. Ecological Society of America Annual Meeting, Portland, OR, August 2012.

Belote, R.T. 2010. Productivity-diversity relationships depend on ecological context in Appalachian and Atlantic Coastal Plain forests: are there conservation implications? Ecological Society of America Annual Meeting, Pittsburgh, PA, August 2010.

Belote, R.T. and M.E. Miller. 2009. Quantifying patterns and using process models to detect potential ecological thresholds in semi-arid grasslands of the Colorado Plateau. 10th Biennial Conference of Research on the Colorado Plateau, Flagstaff, AZ, October 2009.

Belote, R.T., R.H. Jones, T.F. Wieboldt, C.A. Haas, and T.R. Fox. 2008. Diversity, stability, and invasibility of Appalachian forests following logging disturbance. Ecological Society of America Annual Meeting, Milwaukee, WI, August 2008.

Belote, R.T., J.A. Homyack, C.J. Atwood, E.B. Sucre, C.A. Haas, T.R. Fox., and R.H. Jones. 2007. Implications of silvicultural disturbance in Appalachian forests: Results from the Southern Appalachian Silviculture and Biodiversity (SASAB) project. Southern Appalachian Man and the Biosphere Annual Conference, Johnson City, TN, October 2007. [poster]

Belote, R.T., R.H. Jones, C.A. Haas, and T.R. Fox. 2007. Effects of silvicultural disturbance on diversity, species composition, and soil resource availability in Appalachian forests. Ecological Society of America Annual Meeting, San Jose, CA, August 2007. [poster]

Belote R.T., R.H. Jones, S.M. Hood, B.W. Wender. Diversity-invasibility relationships not a paradox in harvested Appalachian forests: the rich get richer following disturbance. Association of Southeastern Biologists Annual Conference, Columbia, SC, April 2007