

# CURRICULUM VITAE

University of Idaho

**NAME:** Mark James Kimsey Jr.

**DATE:** December 31, 2018

**RANK OR TITLE:** Research Assistant Professor

**DEPARTMENT:** Forest, Rangeland and Fire Sciences

**OFFICE LOCATION AND CAMPUS ZIP:**

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**DATE OF FIRST EMPLOYMENT AT UI:** October 1997

**DATE OF PRESENT RANK OR TITLE:** January 4, 2015

## EDUCATION BEYOND HIGH SCHOOL:

### Degrees:

Ph.D.	University of Idaho	Moscow, ID	2006	Natural Resources, Modeling
M.S.	University of Idaho	Moscow, ID	2003	Soil Science, Nutrition / Chemistry
B.S.	University of Idaho	Moscow, ID	1999	Forest Resources, Production
B.A.	ACMT	Minneapolis, MN	1999	Divinity

### Certificates:

Statistics	University of Idaho	Moscow, ID	2003
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## EXPERIENCE:

### Research, Outreach, and Teaching Appointments:

2019-present	Affiliate Faculty - SWS	University of Idaho
2015-present	Res. Assist. Professor – FRFS	University of Idaho
2008-present	Research Scientist	Intermountain Forestry Cooperative
2006-2008	Post-Doctoral Fellow	Intermountain Forestry Cooperative
1999-2006	Research Assistant	University of Idaho

### Consulting:

2016-current	Tree Nutrition Consultant	Intermountain West Tree Improvement Orchards
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## TEACHING ACCOMPLISHMENTS:

**Specialization:** Production silviculture, nutrition, soils, geology, spatial modeling

### Courses Taught:

#### University of Idaho

Forest Measurements and Teaching	FOR 499	2018	3 cr.	enrollment, 1
Forest Measurements and Inventory	FOR 274	2018	3 cr.	enrollment, 35
Forest Measurements Practicum	FOR 299	2018	3 cr.	enrollment, 1
Forestry Summer Camp	FOR 404	2018	3 cr.	enrollment, 11

Forest Resource Sampling	FOR 275	2018	2 cr.	enrollment, 31
Forest Measurements and Inventory	FOR 274	2017	3 cr.	enrollment, 45
Forest Measurement Practicum	FOR 499	2017	3 cr.	enrollment, 1
Forest Resource Sampling	FOR 275	2017	2 cr.	enrollment, 24
Forest Inventory Practicum	FOR 499	2017	2 cr.	enrollment, 2
Private Forest Inventory	FOR 499	2017	3 cr.	enrollment, 1
Forest Resource Sampling	FOR 273	2016	2 cr.	enrollment, 12

**Students Advised:**Undergraduate Students:

In addition to undergraduate advising, I also mentor and advise undergraduate students within the CNR senior thesis, NSF EPSCoR MURI and the NSF CAFS research experience programs. The following is a list of those students:

## Curricula Advising:

Jesse Close	Forestry	2018-present
Elizabeth Evans	Forestry	2018-present
Ryder Magnaghi	Forest Resources	2018-present

## Research Experience Advising:

Natalie Wiley	Ecology and Conservation Biology	2018-present
Casey Danly	Forest Resources	2016-2018
Emily Mangini	Ecology and Conservation Biology	2016-2018
Paula Aubrey	Family and Consumer Sciences	2017-2018

Graduate Students:

Year(s) Advised	Student	Degree	Institution	Research Topic	Graduation Year
<b>Completed</b>					
2016-2017	Ann Abbott	PhD	Univ. of Idaho	Biomass modeling	2017
<b>In Progress</b>					
2018-present	Ryan Heiderman	PhD	Univ. of Idaho	Site effect modeling on maximum stand density index	2021
2018-present	Halli Hemingway (FBRI Fellow)	MS	Univ. of Idaho	Forest productivity modeling	2020
2018-present	Patrick Whalen (FBRI Fellow)	MS	Univ. of Idaho	Site effects on young stand growth trajectories	2020
2018-present	Allison Harvey	MS	Univ. of Idaho	Quantifying soil and plant properties relative to NRCS soil moisture regimes	2020
2016-present	Kathryn Matthews	MS	Univ. of Idaho	Camas restoration	2019

Graduate Student Committees:

2019-present	Joshua Mullane	MS	University of Idaho
2018-present	Shawn deFrance	MS	University of Idaho
2017-present	Leslee Crawford	MS	University of Idaho
2016-2018	Jacob Reely	MS	University of Idaho
2015-2018	Danielle Berardi	MS	University of Idaho
2014-2016	Max Ross	MS	University of Idaho
2013-2015	Bhanu Bhattarai	MS	University of Idaho

Greek Society Advising:

2011-present Society of Xi Sigma Pi Honor Society, advisor

**Non-credit Classes:**

Ecology	WLF 221	2018	Guest lecture: Forest soils
Principles of Ecology	WLF 102	2017	Guest lecture: Forest soils
Intro. to Forest Management	FOR 102	2016-2018	Guest lecture: Measurements
Exploring Natural Resources	NR 101	2016-2017	Guest lecture: Measurements
Forest Soil and Canopy Process.	FOR 330	2014-2015	Guest lecture: Soil chemistry

**SCHOLARSHIP ACCOMPLISHMENTS:****Publications (\* indicates graduate students advised):**Refereed:

13. **Kimsey, M.**, T. Shaw, M. Coleman. 2019. Site sensitive maximum stand density index models for mixed conifer stands across the Inland Northwest, USA. *Forest Ecology and Management*. 433:396-404. doi.org/10.1016/j.foreco.2018.11.013
12. McDaniel, P., M. Ross, J. Jimenez, M. Valerio, D. Strawn, **M. Kimsey**, S. Campbell, A. Falen. 2018. Pedogenic pathways in andic soils of the northern Rocky Mountains (USA). *Soil Sci. Soc. Am. J.* 82:1308-1318. doi:10.2136/sssaj2018.05.0186
11. Chase, C., **M. Kimsey**, T. Shaw, M. Coleman. 2016. The response of light, water, and nutrient availability to pre-commercial thinning in dry inland Douglas-fir forests. *Forest Ecology and Management*. 363:98-109.
10. Mahalovich, M.F., **M. Kimsey**, J.K. Fortin-Noreus, C.T. Robbins. 2016. Isotopic heterogeneity in whitebark pine (*Pinus albicaulis* Engelm.) nuts across geographic, edaphic and climatic gradients in the Northern Rockies (USA). *Forest Ecology and Management*. 359:174-189.
9. Cook, S.P., A. Carroll, **M. Kimsey**, and T. Shaw. 2015. Changes in a primary resistance parameter of Lodgepole pine to bark beetle attack one year following fertilization and thinning. *Forests*. 6:280-292
8. Coleman, M.D., T. Shaw, **M. Kimsey** and J.A. Moore. 2014. Nutrition of Douglas-fir in the inland northwest. *Soil Sci. Soc. Am. J.* 78:S11-S22
7. Shan, S., **M. Kimsey** and M.D. Coleman. 2014. Soil soluble nitrogen availability across an elevational gradient in a cold-temperate forest ecosystem. *Soil Sci. Soc. Am. J.* 78:S217-S224.
6. White, K.P., M. Coleman, D.S. Page-Dumroese, P.E. Gessler, **M. Kimsey** and T. Shaw. 2012. Examining soil parent material influence over Douglas-fir stem growth response to fertilization: taking advantage of information from spatiotemporally distributed experiments. *Forest Ecology and Management*. 286:101-107
5. **Kimsey, M.** and D. Roche. 2012. Long-term site preparation effects on volcanic ash forest soils and Douglas-fir productivity. *International Journal of Forest Engineering*. 23(1):15-24
4. **Kimsey, M.**, D. Page-Dumroese, and M. Coleman. 2011. Assessing bioenergy harvest risks: Geospatially explicit tools for maintaining soil productivity in western US forests. *Forests*. 2: 797-813
3. **Kimsey, M.**, M.T. Garrison-Johnston, and L. Johnson. 2011. Characterization of volcanic ash-influenced forest soils across a geoclimatic sequence. *Soil Sci. Soc. Am. J.* 75:267-279
2. **Kimsey, M.**, J.A. Moore, and P.A. McDaniel. 2008. A geographically weighted regression analysis of Douglas-fir site index in north central Idaho. *Forest Science*. 54(3):356-366

1. **Kimsey, M.**, P.A. McDaniel, D.G. Strawn, and J.A. Moore. 2005. Fate of applied sulfate in volcanic ash-influenced forest soils. *Soil Sci. Soc. Am. J.* 69:1507-1515

Peer-Reviewed:

5. **Kimsey, M.**, L. Laing, S. Anderson, J. Bruggink, S. Campbell, D. Diamond, G. Domke, J. Gries, S. Holub, G. Nowacki, D. Page-Dumroese, C. Perry, L. Rustad, K. Stephens, and R. Vaughan. 2019. Chapter 9: Soil mapping, monitoring, and assessment. In R. Poyuat, T. Patel-Weyand, and L. Gieser (Eds.). *Forest and rangeland soils of the United States under changing conditions: a comprehensive science synthesis*. Gen. Tech. Rep. WO-xx. Washington, DC. U.S. Department of Agriculture. Forest Service. Washington Office. *In press*.
4. Mahalovich, M.F. and **M. Kimsey**. 2017. Drought tolerance and strong edaphic signals provide a better understanding of whitebark pine's response to climate change. *Nutcracker Notes: Journal of the Whitebark Pine Ecosystem Foundation*. 32:9-10
3. Barkley, Y., R. Brooks, A. Gray, R. Keefe, **M. Kimsey**, A. McFarland, and C. Schnepf. 2015. *Idaho forestry best management practices (BMPs) Field Guide*. University of Idaho, College of Natural Resources Extension publication.
2. Dumroese, D. and **M. Kimsey**. 2012. Maintaining site productivity during biofuel harvest operations. *Northwest Woodlands*. 28(4):22-23.
1. **Kimsey, M.**, B. Gardner, and A. Busacca. 2007. Ecological and topographic features of volcanic ash-influenced forest soils. p. 7-21 In Page-Dumroese, et. al. (eds.) *Proceedings – Volcanic Ash-Derived Forest Soils of the Inland Northwest: Properties and Implications for Management and Restoration*. Nov. 9-10, 2005, Coeur d'Alene, Idaho. USDA Forest Service. Rocky Mountain Experiment Station. Fort Collins, CO.

Other Publications/Reports:

36. **Kimsey, M.** 2018. United States Forest Service Sandpoint Idaho Tree Improvement comprehensive orchard nutrition analysis and summary report. Technical Report 040418a. Intermountain Forestry Cooperative. College of Natural Resources, University of Idaho, Moscow.
35. **Kimsey, M.** 2018. United States Forest Service Lolo Montana Tree Improvement western larch orchard nutrition analysis and summary report. Technical Report 040418b. Intermountain Forestry Cooperative. College of Natural Resources, University of Idaho, Moscow.
34. **Kimsey, M.** 2018. United States Forest Service Big Fork Montana Tree Improvement comprehensive orchard nutrition analysis and summary report. Technical Report 040418c. Intermountain Forestry Cooperative. College of Natural Resources, University of Idaho, Moscow.
33. Shaw, T., **M. Kimsey**, and A. Acuff. 2018. Potlatch Forest Holdings fertilizer responses in north Idaho. A report to Potlatch Timber Holdings. Intermountain Forestry Cooperative. University of Idaho. College of Natural Resources.
32. **Kimsey, M.** 2017. United States Forest Service Sandpoint Idaho Tree Improvement western white pine orchard nutrition summary: 2014-2016. Technical Report 051117. Intermountain Forestry Cooperative. College of Natural Resources, University of Idaho, Moscow.
31. **Kimsey, M.** 2017. SDS Lumber ponderosa pine orchard nutrition analysis and summary report. Technical Report 041017a. Intermountain Forestry Cooperative. College of Natural Resources, University of Idaho, Moscow.
30. **Kimsey, M.** 2017. United States Forest Service Lolo Montana Tree Improvement ponderosa pine and Douglas-fir orchard nutrition analysis and summary report. Technical Report 041017b. Intermountain Forestry Cooperative. College of Natural Resources, University of Idaho, Moscow.

29. **Kimsey, M.** 2017. United States Forest Service Nez Perce/Clearwater Idaho Tree Improvement ponderosa pine and lodgepole pine orchard nutrition analysis and summary report. Technical Report 041017c. Intermountain Forestry Cooperative. College of Natural Resources, University of Idaho, Moscow.
28. **Kimsey, M.** 2017. United States Forest Service Big Fork Montana Tree Improvement western larch and Douglas-fir orchard nutrition analysis and summary report. Technical Report 041017d. Intermountain Forestry Cooperative. College of Natural Resources, University of Idaho, Moscow.
27. **Kimsey, M.** 2016. Idaho Department of Lands Bonners Ferry Tree Improvement Douglas-fir nutrition analysis and summary report. Technical Report 052016a. Intermountain Forestry Cooperative. College of Natural Resources, University of Idaho, Moscow.
26. **Kimsey, M.** 2016. United States Forest Service Sandpoint Idaho Tree Improvement ponderosa pine and western larch orchard nutrition analysis and summary report. Technical Report 052016b. Intermountain Forestry Cooperative. College of Natural Resources, University of Idaho, Moscow.
25. **Kimsey, M.** 2016. United States Forest Service Bigfork Montana Tree Improvement Douglas-fir and western larch orchard nutrition analysis and summary report. Technical Report 052016c. Intermountain Forestry Cooperative. College of Natural Resources, University of Idaho, Moscow.
24. **Kimsey, M.,** K. Apostol, R. Lieberg, T. Shaw, A. Davis and M. Coleman. 2016. Herbicide effects on nursery conifer seedlings grown in differing soil parent materials. Technical Report 050416. Intermountain Forestry Cooperative. College of Natural Resources, University of Idaho, Moscow.
23. Shaw, T., **M. Kimsey,** and C. Chase. 2015. Nutrient effects on Inland Northwest forest health and productivity. *Western Forester*.
22. **Kimsey, M.** 2014. Geospatial Douglas-fir site index modeling for northern Idaho and northeast Washington. Technical Report 063014. Intermountain Forest Tree Nutrition Cooperative. College of Natural Resources, University of Idaho, Moscow.
21. Shaw, T., **M. Kimsey,** and A. Acuff. 2014. Effects of thinning density and fertilization on the growth and development of three young Douglas-fir stands in northern Idaho. Intermountain Forest Tree Nutrition Cooperative. Technical Document. University of Idaho, Moscow.
20. Shaw, T., M. Coleman, **M. Kimsey,** and P. Mika. 2014. Forest health and nutrition study ten-year growth, mortality and foliar nutrition. Intermountain Forest Tree Nutrition Cooperative. Technical Document. University of Idaho, Moscow.
19. Shaw, T. and **M. Kimsey.** 2013. Operational fertilization comparisons in pre-merchantable stands of mixed conifer species in western Montana: nine-year growth responses. A report to Plum Creek Timber Company by the Intermountain Forest Tree Nutrition Cooperative. University of Idaho. College of Natural Resources.
18. Shaw, T. and **M. Kimsey.** and A. Acuff. 2012. Four-year growth response of a Douglas-fir stand to thinning and fertilization treatments at Moe's Ranch study site. St. Maries, Idaho. A report to Potlatch Timber Holdings. Intermountain Forest Tree Nutrition Cooperative. University of Idaho. College of Natural Resources.
17. **Kimsey, M.** Cook, S. and Shaw, T. 2011. Thinning and fertilization impacts on Douglas-fir and lodgepole pine resistance to insect pests, 2-year diameter growth and soil nutrition. Intermountain Forest Tree Nutrition Cooperative. Technical Document. University of Idaho, Moscow.
16. **Kimsey, M.** 2011. Washington State Wood-5 project: Forest plot inventory database development. Intermountain Forest Tree Nutrition Cooperative. Technical document. University of Idaho, Moscow.
15. **Kimsey, M.** 2010. Foliar and ion exchange resin data summary for the Dynamic Soil Property study. Technical Report to USDA – Natural Resources Conservation Service.

14. Shaw, T.M., **M. Kimsey**, M. Coleman and S. McLeod. 2009. Density control and fertilization in young western larch and the development of Canada Lynx habitat establishment and summary report or Silvis Western Larch Research site. University of Idaho, College of Natural Resources, Intermountain Forest Tree Nutrition Cooperative.
13. Shaw, T.M., **M. Kimsey**, and D. Page-Dumroese. 2009. Post-harvest fertilization as mitigation for nutrient removals: Permanent monitoring plots on the Panhandle National Forest establishment and summary report "Rye on Ham". University of Idaho, College of Natural Resources, Intermountain Forest Tree Nutrition Cooperative.
12. Shaw, T.M., **M. Kimsey**, M. Coleman and P. Mika. 2009. Installation and summary report at Canus Nutrient Management Study site in Northeast Oregon. University of Idaho, College of Natural Resources, Intermountain Forest Tree Nutrition Cooperative.
11. Shaw, T.M., **M. Kimsey** and D. Parent. 2010. Growth response of operationally fertilized stand at Brickel Creek, North Idaho. University of Idaho, College of Natural Resources, Intermountain Forest Tree Nutrition Cooperative.
10. Coleman, M., T. Shaw, **M. Kimsey**, M. Garrison-Johnston, and P. Mika. 2008. Forest nutrition, site nutrient supply in response to amendments and harvest removals: A review of information relevant to Potlatch Corporation fee lands in northern Idaho. IFTNC: Report to Potlatch Corporation. University of Idaho. Moscow, Idaho.
9. Johnston, M., P. Mika, T. Shaw, **M. Kimsey**, and M. Coleman. 2008. First year foliage and two-year growth response of screening trials installed between 2002 and 2005 in north Idaho on Potlatch Forest Holdings. IFTNC: Report to Potlatch Corporation. University of Idaho. Moscow, Idaho.
8. Garrison-Johnston, M., L. Johnson, T. Shaw, and **M. Kimsey**. 2007. Potlatch screening trials: Foliar nutrient diagnostic report and two-year growth results for 2004 sites. IFTNC: Report to Potlatch Corporation. University of Idaho. Moscow, Idaho.
7. **Kimsey, M.J.** 2006. Volcanic ash and Douglas-fir productivity in western Clearwater County, Idaho. Technical report to Potlatch Corporation. University of Idaho. Moscow, Idaho.
6. **Kimsey, M.** 2005. Douglas-fir site index, cubic foot yield curves, and mean annual increment conversions for Cochran to Monserud timber productivity data. IFTNC: Report to USDA-Natural Resources Conservation Service, Boise, ID. University of Idaho. Moscow, Idaho.
5. Garrison-Johnston, M.T., T.M. Shaw, **M. Kimsey** and J.A. Moore, 2002. Potlatch screening trials 2002 establishment report. IFTNC/Potlatch Corporation.
4. Xiao, Y., J.A. Moore, T.M. Shaw and **M. Kimsey**. 2002. Foliar nutrient response of ponderosa and lodgepole pine to fertilizer and herbicide treatments at Clear Creek, central Idaho. IFTNC/Boise Cascade Corp. Rpt. # 3.
3. Shaw, T. M., J. A. Moore, and **M. Kimsey**. 2001. Foliar nutrient response and diagnosis to multi-nutrient/herbicide application for Douglas-fir, Ponderosa pine and Lodgepole pine in Northeast Oregon. IFTNC: Report to Boise Cascade Corporation. University of Idaho. Moscow, Idaho.
2. Xiao, Y., J. A. Moore, T. M. Shaw, and **M. Kimsey**. 2001. Nutrient screening trial results for Douglas-fir, Lodgepole pine, and Ponderosa pine in Central and Northeast Washington. IFTNC: Report to Boise Cascade Corporation. University of Idaho. Moscow, Idaho.
1. Xiao, Y., J.A. Moore, T.M. Shaw and **M. Kimsey**. 2001. Foliar nutrient responses for the second set (1999) of lodgepole pine and ponderosa pine fertilization and herbicide treatments on different rock types in central Idaho. IFTNC/ Boise Cascade Corp. Rpt. # 3.

Refereed (currently scheduled or submitted):

1. Lockner, A.D., S.P. Cook, **M. Kimsey**, A.G. McDonald, and T. Shaw. *In review*. Monoterpene toxicity to Douglas-fir tussock moth and concentrations of nutrients and monoterpenes in Douglas-fir tissues following fertilization in previously thinned stands. *The Canadian Entomologist*.
2. Abbott, A.\*, **M. Kimsey**, A.S. Nelson, D. Page-Dumroese, and R. Brooks. *Scheduled*. Crown biomass equations for three northern Idaho conifers. *Forests*.
3. Abbott, A.\*, **M. Kimsey**, A.S. Nelson, D. Page-Dumroese, and R. Brooks. *Scheduled*. Non-linear mixed effects model predicting branch basal diameter for *Abies grandis*, *Pseudotsuga menzeseii*, and *Tsuga heterophylla* in northern Idaho, USA. *Forest Science*.
4. Mahalovich, M.F., **M. Kimsey**, and S. Winward. *Scheduled*. Genecology in interior *Pinus albicaulis*. *Forest Ecology and Management*.
5. Mahalovich, M.F., **M. Kimsey**, and S. Winward. *Scheduled*. Spatial and temporal severity of an introduced pathogen and native pest in the US Northern Rockies. *Forest Ecology and Management*.
6. Mahalovich, M.F., **M. Kimsey**, and S. Winward. *Scheduled*. Adaptive capacity and climate refugia for interior *Pinus albicaulis*. *Forest Ecology and Management*.

**Presentations (\*Invited):**Conferences/Meetings/Workshops:

76. **Kimsey, M.\*** 2018. Site-species effects on maximum stand density index. *Applied early stand silviculture in the Inland Northwest Conference*. Spokane, WA.
75. Hemingway, H., **M. Kimsey**, J. Arney. 2018. Comparison of two height-age site indices for northern Idaho as a function of site characteristics. *Forest Biometrics Research Institute Technical Meeting*. Portland, OR.
74. **Kimsey, M.**, J. Schriever, and K. Halligan. 2018. InventoryEDU: Bringing forest inventory technology into the classroom. *Society of American Foresters Convention*. Portland, OR.
73. Mahalovich, M.F., **M. Kimsey**, S. Winward. 2018. Genetic refugia: A bottoms-up approach to identifying climate refugia for whitebark pine. *Ecological Society of America Conference*. New Orleans, LA.
72. Matthews, K., **M. Kimsey**, P. McDaniel. 2018. Restoration strategies for propagation of *Camassia quamash* on the Weippe Prairie. *Society of Ethnobiology Conference*. Madison, WI.
71. **Kimsey, M.** 2018. InventoryEDU: Bringing forest inventory technology into the classroom. *Western Mensurationists Meeting*. Flagstaff, AZ.
70. **Kimsey, M.\*** 2018. Optimizing density management for site and species composition. *USDA Forest Service Region 6 Silviculturists Meeting*. Skamania, WA.
69. **Kimsey, M.\*** 2018. Stand density management in a region of limiting growth resources. *Inland Northwest Growth and Yield Cooperative Annual Meeting*. Coeur d'Alene, ID.
68. **Kimsey, M.** 2018. Project updates and future research direction of the Intermountain Forestry Cooperative. *Intermountain Forestry Cooperative Technical Meeting*. Moscow, ID.

67. **Kimsey, M.** 2017. Site effects on conifer carrying capacity. *Northwest Forest Soils Council Winter Meeting*. The Dalles, OR.
66. **Kimsey, M.\*** 2017. Building quality control and quality assurance into natural resource inventory Excel databases. *6th Field Technology Conference: Data Collection in Forestry, Fisheries, and Natural Resources*. Portland, OR.
65. **Kimsey, M.\*** 2017. Slicers and pivot tables for inventory presentation. *6th Field Technology Conference: Data Collection in Forestry, Fisheries, and Natural Resources*. Portland, OR.
64. **Kimsey, M.\*** 2017. Modeling site-species impacts on maximum stand density. *USDA Forest Service Region 6 Silviculturists Meeting*. Springfield, OR.
63. **Kimsey, M.\*** 2017. Forest and rangeland soils in a changing world: New assessment tools and technologies. *USDA Forest Service National Soils Assessment Meeting*. Portland, OR.
62. **Kimsey, M.** 2017. Modeling maximum stand density index in mixed conifer forests of the Inland Northwest, USA. *Western Mensurationists Meeting*. Vancouver, BC.
61. **Kimsey, M.\*** 2017. Building geospatial maximum density models for westside conifer species. *Center for Intensive Plantation Silviculture Technical Workshop*. Aurora, OR.
60. **Kimsey, M.\*** 2017. Conifer nutrition across soil types and species. *USDA Forest Service Region 1 Tree Improvement Managers Meeting*. Riggins, ID.
59. **Kimsey, M.** 2017. Modeling SDImax in lodgepole pine stands: Evaluation of site effects on the frontier boundary. *Intermountain Forestry Cooperative Technical Meeting*. Moscow, ID.
58. Mahalovich, M.F., **M. Kimsey**, and S. Winward. 2017. Adaptive capacity and climate refugia for interior *Pinus albicaulis*. *Crown of the Continent High Five Working Group Meeting*. Missoula, MT.
57. Grover, K., A.S. Nelson, M. Coleman, M. Rust, **M. Kimsey**, and T. Shaw. 2017. Response of superior western larch families to site quality and competition control. *Center for Advanced Forestry Systems Annual Meeting*. Portland, OR.
56. **Kimsey, M.\*** 2016. Stand density index in mixed species stands. *Idaho Department of Lands Timber Management Winter Meeting*. Moscow, ID.
55. **Kimsey, M.\*** 2016. Slash management and site factors on seedling survival and growth. *Idaho Department of Lands Timber Management Winter Meeting*. Moscow, ID.
54. **Kimsey, M.\***, M. Coleman, and T. Shaw. 2016. Forest production management in the Inland Northwest. *Bureau of Land Management Regional Forester Meeting*. Portland, OR.
53. Moser, K., Mahalovich, M.F., R.T. Graham, and **M. Kimsey**. 2016. Climate relationships to a 100-year-old provenance trial of ponderosa pine. *Society of American Foresters National Convention*. Madison, WI.
52. Nelson, A.S., M. Coleman, M. Rust, **M. Kimsey**, and T. Shaw. 2016. Response of superior western larch families to competition control and site quality. *Center for Advanced Forestry Systems Annual Meeting*. Pensacola, FL.
51. Nelson, A.S., M. Coleman, T. Shaw, and **M. Kimsey**. 2016. Forest response to nitrogen and potassium fertilization across common Inland Northwest parent materials. *Society of American Foresters National Convention*. Madison, WI.
50. **Kimsey, M.\*** 2016. Stand density index in multi-species stand management. *Bureau of Land Management Spatial Pattern and Age Cohort Workshop*. Medford, OR.
49. **Kimsey, M.\*** 2016. Maximum stand density index: Development and customization to your site. *United States Forest Service Region 5/6 National Advanced Silviculture Program*. Medford, OR.



48. Mahalovich, M.F and **M. Kimsey**. 2016. Geologic and genetic implications of restoring whitebark pine under climate change: suitable substrate, blister rust resistance and drought tolerance. *Whitebark Pine Ecosystem Foundation Annual Science and Management Workshop*. Whitefish, MT.
47. **Kimsey, M.**, M. Coleman, and T. Shaw. 2016. Linking spatial and tabular products – an ownCloud and ESRI portal demonstration. *Intermountain Forestry Cooperative Technical Meeting*. Moscow, ID.
46. Mahalovich, M.F., **M. Kimsey**, J. Fortin-Noreus, and C.T. Robbins. 2015. Interdisciplinary applications of stable isotopes in whitebark pine. *Interagency Grizzly Bear Committee Winter Meeting*. Missoula, MT.
45. Mahalovich, M.F. and **M. Kimsey**. 2015. Integrating complex adaptive patterns and levels of inbreeding in Ponderosa pine to refine species vulnerability assessments and seed transfer guidelines for reforestation. *13th Biennial Conference of Science and Management on the Colorado Plateau and Southwest Region*. Flagstaff, AZ.
44. Mahalovich, M.F. and **M. Kimsey**. 2015. Future outlook for whitebark pine in the Waterton-Glacier International Peace Park: 15 years of collaboration to develop blister rust resistance and drought tolerance. *12th Annual Waterton-Glacier Science and History Day*. West Glacier, MT.
43. Mahalovich, M.F. and **M. Kimsey**. 2015. Isotopic heterogeneity and nutritional ecology of whitebark pine nuts in the northern Rockies (USA). *12th Western Black Bear Workshop*. Canmore, Alberta, CA.
42. **Kimsey, M.\*** 2015, M. Coleman, and T. Shaw. 2015. Stand density index models and their use in forest management planning. *Montana State Society of American Foresters*. Whitefish, MT.
41. **Kimsey, M.**, M. Coleman, and T. Shaw. 2015. Soil nutrient availability relative to slash loading and vegetation control. *Intermountain Forest Tree Nutrition Cooperative Annual Meeting*. Moscow, ID.
40. **Kimsey, M.**, M. Coleman, and T. Shaw. 2015. Harvest and post-harvest nutrient mitigation: Effects on soil and tree nutrition, growth and mortality. *Intermountain Forest Tree Nutrition Cooperative Annual Meeting*. Moscow, ID.
39. **Kimsey, M.\*** 2015. Forest density management: Evolution of maximum stand density index. *Inland Empire Reforestation Council Conference*. Coeur d'Alene, ID.
38. **Kimsey, M.**, R. Volfovicz-Leon, M. Coleman, and T. Shaw. 2014. Physiographic controls on maximum stand density index of three major conifer species in the Inland Northwest, USA. *Soil Science Society of America Conference*. Long Beach, CA.
37. **Kimsey, M.\***, M. T. Shaw, M. Coleman. 2014. Management effects on future forest productivity. *Hancock Timber Resource Group Conference*. La Grande, OR.
36. **Kimsey, M.\*** 2014. Inland northwest geology, climate and forest productivity. *Center for Advanced Forestry Systems Annual Meeting*. Coeur d'Alene, ID.
35. **Kimsey, M.**, M. Coleman, and T. Shaw. 2014. Site type initiative Phase 1 report: Species maximum SDI model V2.0. *Intermountain Forest Tree Nutrition Cooperative Annual Meeting*. Moscow, ID.
34. **Kimsey, M.\*** 2014. Physiographic factors effecting forest site carrying capacity. *Northwest Forest Soil Council Winter Meeting*. Ellensburg, WA.
33. **Kimsey, M.\***, M. Johnston, P. Mika, and T. Shaw. 2014. Importance of volcanic ash-influenced forest soils in regeneration success and future forest productivity. *USDA-USFS Region 1 Silviculture Workshop*. Moscow, ID.

32. **Kimsey, M.\*** 2013. Ecological and physiological overview of volcanic soils and their influence on tree growth and vegetation. *Volcanic Ash-cap Forest Soils Conference*. Coeur d'Alene, ID.
31. McDaniel, P. and **M. Kimsey.\*** 2013. Harvest operation impacts on volcanic soil compaction and hydrology. *Volcanic Ash-cap Forest Soils Conference*. Coeur d'Alene, ID.
30. **Kimsey, M.** 2013. Soils, geology and forest management. *12th North American Forest Soils Conference*. Whitefish MT.
29. **Kimsey, M., M. Coleman, and T. Shaw.** 2013. Validating IFTNC generated maximum stand density index models. *Intermountain Forest Tree Nutrition Cooperative Annual Meeting*. Moscow, ID.
28. **Kimsey, M.** and R. Volfovicz-Leon. 2012. The effect of fuzzed plot coordinates on the distribution of climate, topographic and soil parent material variables: Influence on maximum stand density index modeling in Idaho. *USFS – FIA Research Symposium*. Baltimore, MD.
27. **Kimsey, M., D. Page-Dumroese, M. Coleman.** 2012. Geospatial soil risk assessments and BMP development for biomass harvesting. *Northwest Bioenergy Research Symposium*. Seattle, WA.
26. **Kimsey, M., M. Johnston, and L. Johnson.** 2012. Climatic and landform effects on the distribution of fine-textured volcanic ash in a temperate forest ecosystem. *Soil Science Society of America Conference*. Cincinnati, OH. (Poster).
25. **Kimsey, M.\*** 2012. Geospatial tools for estimating and maintaining soil-site productivity. *Washington State Professional Soil Scientists*. Spokane, WA.
24. **Kimsey, M.** 2012. Forest nutrient research: Past, present and future. *Intermountain Forest Tree Nutrition Cooperative Annual Meeting*. Moscow, ID.
23. **Kimsey, M.\*** 2012. Geospatial tools for estimating and maintaining soil-site productivity. *Northwest Forest Soil Council Winter Meeting*. Vancouver, WA.
22. **Kimsey, M., D. Page-Dumroese, and M. Coleman.** 2011. Assessing bioenergy harvest risks: geospatially explicit tools for maintaining soil productivity in western US forests. *Soil Science Society of America Conference*. San Antonio, TX.
21. **Kimsey, M., R. Volfovicz-Leon, M. Coleman, and T. Shaw.** 2011. Forest stocking and productivity analysis in support of the IFTNC Site Type Initiative. *Intermountain Forest Tree Nutrition Cooperative Annual Meeting*. Moscow, ID.
20. **Kimsey, M.\*, T. Shaw, M. Johnston, P. Mika, and M. Coleman.** 2011. Soil-site properties, forest productivity and silvicultural prescriptions. *Inland Empire Reforestation Council Conference*. Coeur d'Alene, ID.
19. **Kimsey, M.\*, T. Shaw, M. Johnston, P. Mika, and M. Coleman.** 2010. Soil-site properties, forest productivity and silvicultural prescriptions. *Bureau of Land Management Silviculture Training Workshop*. Sisters, OR.
18. **Kimsey, M.** and D. Roche. 2010. Site preparation effects on selected Andisol soil properties and Douglas-fir growth after 24 years. *International Energy Association Bioenergy 43 Workshop*. Kamloops, British Columbia, CA.
17. **Kimsey, M.\*, M. Coleman, and T. Shaw.** 2010. Site type initiative: Characterizing principal factors defining forest site type. *USDA-NRCS MLRA 43A Working Group Meeting*. Moscow, ID.
16. **Kimsey, M., M. Coleman, and T. Shaw.** 2010. Conceptual framework for defining forest site types across the Inland Northwest. *Intermountain Forest Tree Nutrition Cooperative Annual Meeting*. Moscow, ID.
15. **Kimsey, M.** 2009. Geospatial modeling of Douglas-fir productivity. *GIS in the Rockies*. Loveland, CO.

14. **Kimsey, M.\*** 2009. Geology and soils of the Inland Northwest. *Washington Department of Natural Resources Silviculture Workshop*. Colville, WA.
13. **Kimsey, M.**, M. Coleman, and T. Shaw. 2009. Developing geospatial site type classification systems for forest nutrition management. *AF&PA – US DOE OIT Agenda 2020 Annual Meeting*. Vancouver, WA.
12. **Kimsey, M.**, M. Coleman, T. Shaw, and L. Johnson. 2009. Nutrient management: effects on future forest productivity. *Intermountain Forest Tree Nutrition Cooperative Annual Meeting*. Moscow, ID
11. **Kimsey, M.\*** 2008. Silviculture and management of Inland Northwest forests – Assessing forest productivity on volcanic ash-influenced forest soils. *BLM Silviculture Training Workshop*. Bend, OR.
10. **Kimsey, M.**, M. Coleman, T. Shaw, M. Johnston, and L. Johnson. 2008. Climatic and geologic controls on volcanic ash-influenced forest soils. *Intermountain Forest Tree Nutrition Cooperative Annual Meeting*. Moscow, ID.
9. **Kimsey, M.**, T. Shaw, and L. Johnson. 2007. Soil resin capsule nutrition analysis from cut-to-length and whole tree harvesting units. *Intermountain Forest Tree Nutrition Cooperative Annual Meeting*. Moscow, ID.
8. **Kimsey, M.\*** 2007. Forest growth and nutrition consequences of intensive harvesting treatments. *24th Annual Inland Empire Forest Engineering Conference*. Moscow, ID.
7. **Kimsey, M.**, J. Mandzak, D. Miller, P. McDaniel, and L. Johnson. 2006. Soil volcanic ash and Douglas-fir (*Pseudotsuga menziesii* var. *glauca*) productivity in western Clearwater County, Idaho. *Intermountain Forest Tree Nutrition Cooperative Annual Meeting*. Moscow, ID.
6. **Kimsey, M.\*** and P. McDaniel. 2005. Depositional history, current distribution, and field recognition of ash-cap soils. *Symposium - Volcanic Ash-Cap Forest Soils of the Inland Northwest: Properties and Implications for Management and Restoration*. Coeur d'Alene, ID.
5. **Kimsey, M.** J.A. Moore, and P. McDaniel. 2004. Use of environmental and terrain attributes to model volcanic ash distribution in northern Idaho. *Soil Science Society of America Conference*. Seattle, WA. (Poster).
4. **Kimsey, M.**, J.A. Moore, and P. McDaniel. 2003. Sulfate sorption in ash-influenced soils of the Inland Northwest. *4th North American Forest Ecology Workshop*. Corvallis, OR. (Poster).
3. **Kimsey, M.** P. McDaniel, J.A. Moore, and J. Mandzak. 2002. Volcanic ash and sulfate sorption in the Inland Northwest: implications for forest health management. *Intermountain Forest Tree Nutrition Cooperative Annual Meeting*. Moscow, Idaho.
2. **Kimsey, M.**, M. Johnston, T. Shaw, J.A. Moore. 2001. Surficial soil deposits: forest nutrition and fertilization. *Western Society of Soil Science Annual Meeting*. University of Idaho, Moscow, ID.
1. **Kimsey, M.**, J.A. Moore, T. Shaw, M. Johnston, and P. Mika. 2001. Vector Analysis of Western Larch Nutrient Status: A New Approach. *Intermountain Forest Tree Nutrition Cooperative Annual Meeting*. Moscow, Idaho.

**Grants and Contracts Awarded (Total funding: \$3,083,166; PI-led funding: \$525,002):**

44. Coleman, M., T. Shaw, and **M. Kimsey**. Annually. Silviculture research. *Intermountain Forestry Cooperative*. ~\$225,000. (Not counted in funding totals)
43. Shaw, T. and **M. Kimsey**. 2018-2019. Nitrogen and sulfur fertilization trials by soil strata. *Stimson Lumber Company*. \$11,500.

42. Shaw, T. and **M. Kimsey**. 2018-2019. Douglas-fir response to N+S fertilization in northeastern Washington. *Stimson Lumber Company*. \$4,200.
41. Shaw, T. and **M. Kimsey**. 2018-2019. Maximum productivity site preparation-release study. *Hancock Forest Management*. \$23,000.
40. Shaw, T. and **M. Kimsey**. 2018. Applied silviculture research. *PotlatchDeltic Corporation*. \$78,250
39. Coleman, M., D. Johnson, P. Goebel, **M. Kimsey**, T. Hudiberg, and A. Nelson. 2018. Gap analysis instrument for measuring leaf area of forest canopies. *UI-ORED 2018 EIS Request*. \$7,025.
38. **Kimsey, M.** 2017-2020. Pacific Northwest maximum stand density index modeling. *USDA Forest Service Region 6*. \$36,000.
37. **Kimsey, M.** and T. Shaw. 2017-2023. Western larch thinning and fertilization growth and yield trial. *Stimson Lumber Company*. \$31,500.
36. **Kimsey, M.** and T. Shaw. 2017-2020. Post-fire reforestation on WA DNR productive sites in northeast Washington. *Washington Dept. of Natural Resources*. \$36,000.
35. McDaniel, P. and **M. Kimsey**. 2017-2020. Soil moisture regimes in seasonally dry landscapes of the northwestern United States. *USDA Natural Resources Conservation Service*. \$100,000.
34. Coleman, M. and **M. Kimsey**. 2017-2018. REU: Herbicide effects on outplanted conifer seedlings grown in differing soil types. *National Science Foundation – CAFS*. \$16,000.
33. Shaw, T. and **M. Kimsey**. 2017-2018. Maximum productivity site preparation-release study. *Hancock Forest Management*. \$21,050.
32. **Kimsey, M.** 2017. Forest inventory data collection toolkit. *USDA Natural Resources Conservation Service*. \$9,968.
31. **Kimsey, M.**, T. Shaw, M. Coleman. 2017. Calibration of FVS Inland Empire (IE) Variant for Potlatch's Idaho forest. *Potlatch Corporation*. \$19,996.
30. Shaw, T. and **M. Kimsey**. 2017. North Idaho conifer growth and yield by soil x productivity strata. *Potlatch Corporation*. \$50,000.
29. Shaw, T. and **M. Kimsey**. 2017. Potlatch land holdings density and fertilization research trials. *Potlatch Corporation*. \$46,886.
28. **Kimsey, M.** and A.S. Davis. 2016-2019. Camas propagation research for restoration of Weippe Prairie, Nez Perce national historical park. *US National Park Service*. \$82,586.
27. **Kimsey, M.**, T. Shaw, and M. Coleman. 2016-2018. Herbicide effects on outplanted conifer seedlings grown in differing soil parent materials. Industrial private timberlands collaborative: *Potlatch Corporation, Hancock Forest Management, Molpus Timberlands, Stimson Lumber*. \$52,194.
26. Shaw, T. and **M. Kimsey**. 2016-2017. Stimson OPFERT Foliar and 2-Year growth response. *Stimson Lumber Company*. \$4,500.
25. Shaw, T. and **M. Kimsey**. 2016. Nutrition, growth and yield, and density management research. *Potlatch Corporation*. \$50,020.
24. Shaw, T. and **M. Kimsey**. 2016. Hancock maximum productivity herbicide study. *Hancock Forest Management*. \$21,850.
23. Apostol, K., A.S. Davis, and **M. Kimsey**. 2015-2016. Developing a database for native seed production. *USDA Forest Service*. \$30,000

22. **Kimsey, M.**, T. Shaw, and M. Coleman. 2015-2016. Herbicide effects on outplanted conifer seedlings grown in differing soil parent materials. Industrial private timberlands collaborative: *Potlatch Corporation, Hancock Forest Management, Molpus Timberlands, Stimson Lumber*. \$52,194.
21. **Kimsey, M.**, T. Shaw, M. Coleman, K. Apostol, and A.S. Davis. 2015-2016. Herbicide effects on greenhouse conifer seedlings grown in differing soil parent materials. Industrial private timberlands collaborative: *Potlatch Corporation, Hancock Forest Management, Molpus Timberlands, Stimson Lumber*. \$54,952.
20. T. Shaw. And **M. Kimsey**. 2015. Nutrition, growth and yield, and density management research. *Potlatch Corporation*. \$58,580.
19. **Kimsey, M.** 2015. Geospatial distribution models for whitebark pine ponderosa pine and bluebunch wheatgrass. *USDA Forest Service*. \$6,245.
18. Shaw, T. and **M. Kimsey**. 2014-2021. Stimson operational fertilization monitoring plots. Stimson Lumber Company. \$23,700.
17. Shaw, T. and **M. Kimsey**. 2014-2015. Hancock maximum productivity herbicide study. *Hancock Forest Management*. \$12,600.
16. **Kimsey, M.**, C. Chase, and R. Keane. 2013-2015. Testing the validity of Forest Vegetation Simulator maximum stand density estimates. *Wildland Fire Science Partnership*. \$20,000.
15. **Kimsey, M.** 2013. Digital soil mapping of Panther Creek watershed. *US Environmental Protection Agency*. \$2,950.
14. **Kimsey, M.** 2012-2014. A geospatial site index model for Idaho forest Ecological Site Description development. *USDA Natural Resources Conservation Service*. \$32,714.
13. Shaw, T. and **M. Kimsey**. 2012-2013. Density, fertilization and site quality effects on western larch. *Plum Creek Timber*. \$20,538.
12. **Kimsey, M.** 2010-2011. Washington State Wood-5 project forest plot inventory database development. *USDA Natural Resources Conservation Service*. \$26,703.
11. Neuenschwander, R., M. Coleman, and **M. Kimsey**. 2009-2010. Borlaug Fellowship. *Agricultural Science and Technology, Foreign Agricultural Service, US Department of Agriculture*. \$27,108.
10. Shaw, T., **M. Kimsey**, and M. Coleman. 2009-2010. Brickel Creek operational fertilization study. Inland Empire Paper, Idaho Dept. of Lands, and Forest Capital Partners Joint Research Grant. \$7,500.
9. Coleman, M., D. Page-Dumroese, D. Hoover, R. Lewis, **M. Kimsey**, T. Shaw, and P. Mika. 2008-2011. Geospatial site type classification system for forest nutrient management. *Agenda 2020*. \$150,000.
8. Johnson, L., Shaw, T., and **M. Kimsey**. 2007-2012. Post-harvest fertilization as mitigation for nutrient removals. *USDA Forest Service*. \$136,857.
7. Shaw, T. and **M. Kimsey**. 2007-2011. Young stand development under varying densities and fertilization regimes. *Washington Dept. of Natural Resources*. 2007-2011. \$109,000.
6. **Kimsey, M.** 2007-2009. Douglas-fir site index model development for Latah and Clearwater County, Idaho. *Idaho Department of Lands*. \$11,500.
5. Shaw, T. and **M. Kimsey**. 2006-2008. Fertilization, herbicide and site quality effects on western larch growth and foliar nutrition. *Plum Creek Timber*. \$43,717.

4. Johnson, L., M. Johnston, T. Shaw, P. Mika, and **M. Kimsey**. 2004-2007. Volcanic ash, forest productivity, and fertilization response of coniferous species in the Inland Northwest. *Agenda 2020*. \$150,000.
3. **Kimsey, M.**, J.A. Moore, and P. McDaniel. 2004-2006. Volcanic ash and Douglas-fir productivity. *Potlatch Corporation*. \$49,500
2. Shaw, T., **M. Kimsey**, and M. Johnston. 2002-2014. Idaho tree farm growth and yield, density and nutrition research. *Potlatch Corporation*. \$791,239.
1. Shaw, T., J.A. Moore, **M. Kimsey**, and M. Johnston. 2000-2005. Inland northwest tree farm fertilization screening trials. *Boise Cascade Corporation*. \$563,125.

### Pending Grant Proposals:

**Kimsey, M.**, G. McFadden, D. Maguire, and D. Mainwaring. 2018-2022. Maximum stand density index geospatial model development for Pacific Northwest conifer species. *USDI Bureau of Land Management*. \$297,000.

### Unsuccessful Grant Proposals:

**Kimsey, M.**, A.S. Nelson, T. Shaw. 2016-2018. Forest soil-site effects on phytotoxic behavior of pre-emergent herbicides. *USDA Forest Service*. \$71,696.

Coleman, M., **M. Kimsey**, and T. Shaw. 2016-2019. Forest density monitoring network for Idaho. *Idaho Department of Lands*. \$240,000

Mahalovich, M.F. and **M. Kimsey**. 2015-2017. Whitebark pine ecophysiology and adaptive capacity across the Northern Rockies, USA. *US Fish and Wildlife Service*. \$48,491.

**Kimsey, M.** 2015-2016. Harvest impacts on soil nutrition: implications for federal forestland regulatory directives. *University of Idaho Seed Grant*. \$11,745.

### SERVICE:

#### Committee Assignments:

##### University of Idaho:

2016-present                      Officer Education Committee, Chair

##### University of Idaho College of Natural Resources:

2017-2018                      Fish and Wildlife research faculty search committee

##### University of Idaho Department of Forest, Rangeland, and Fire Sciences:

2017                                  Promotion advisory committee

#### Professional and Scholarly Organizations:

2018-present	Northwest Forest Soils Council, Past-president
2018-present	North American Forest Soils Conference, planning group
2018-present	Society of American Foresters A-2: Technology working group
2017-present	Society of American Foresters A-1: Inventory/Biometrics working group
2016-present	Idaho Geological Mapping Advisory Committee
2016-present	The Society of Xi Sigma Pi, The National Forestry Honor Society, National President
2012-2018	Panther Creek Watershed working group
2015-2018	Northwest Forest Soils Council, President

2012-2015	Northwest Forest Soils Council, Vice President
2010-present	USDA NRCS MLRA 43 Ecological Site Description working group
2007-present	USDA NRCS Dynamic Soil Properties working group
2006-present	Soil Science Society of America, member
2006-2009	Society of American Foresters, Palouse-Snake River Chapter, chair
2000-present	Society of American Foresters, member

Journal reviewer: Forest Ecology and Management, Forest Science, Canadian Journal of Forest Research, Forests, Western Journal of Applied Forestry, Soil Science Society of America Journal, Geoderma, Open Journal of Soil Science.

### **Conference Organization / Session Moderation:**

Annually	Intermountain Forestry Cooperative Technical Meeting, Co-Chair.
2018	Western Forestry and Conservation Association Conference, Chair: Applied early stand silviculture in the Inland Northwest.
2018	Northwest Forest Soils Council Winter Meeting, Chair: The state of forest soils in the Pacific Northwest.
2017	Society of American Foresters Convention, Workshop Chair: Mobile inventory solutions for forest measurement education.
2017	Northwest Forest Soils Council Winter Meeting, Chair and Presenter. Geospatial modelling of soil, rock and the forested landscape.
2016	Northwest Forest Soil Council Field Tour, Chair and Lead. The Tripod Fire.
2016	Society of Ecological Restoration Northwest Conference, Symposia Co-Chair: Using geoeological zones to restore vegetation and soils at the project and landscape level.
2016	Society of Ecological Restoration Northwest Conference, Symposia Co-Chair: Management impacts on soil organic carbon, hydrology and biotic communities.
2016	Society of Ecological Restoration Northwest Conference, Workshop Chair: Soil Survey Support for Restoration Planning: Utilizing Web Soil Survey and the ArcMAP Soil Data Viewer Extension.
2015	Northwest Forest Soils Council Conference, Chair: Advances in applied ecosystem research: Implications for Northwest forest and range management.
2014	Northwest Forest Soil Council Field Tour, Chair and Lead. Forests and soils from the rivers to the ice: Ecological function and management.
2014	ASA-CSA-SSSA Conference, Session Moderator
2013	Western Forestry and Conservation Association Conference, Co-Chair: Management of volcanic ash influenced forest soils of the Inland Northwest.
2013	12 <sup>th</sup> North American Forest Soils Conference, Program committee member, website developer, field tour coordinator, and presenter: The role of forest soils in sustaining ecosystem services.
2012	Society of American Foresters Convention, Program Development and Field Tour Committee: Resilient forests.
2010	Inland Empire Society of American Foresters Conference, Program Development Committee: The fires of 1910: A century later.
2009	Inland Empire Society of American Foresters Conference, Co-Chair: Managing our forests in challenging times.
2008	Inland Empire Society of American Foresters Conference, Chair: The challenges of forest management in the Inland Northwest.
2008	Inland Empire Society of American Foresters Conference Workshop, Chair and Presenter. Using NRCS Web Soil Survey and Soil Data Mart to extract and display soil and timber productivity data.
2008	Palouse-Snake River Society of American Foresters Field Tour, Chair and Lead: Craig Mountain Wildlife Management Area and Chimney Complex fire.

- 2007 Inland Empire-Montana Society of American Foresters Conference, Co-Chair: The changing role of forestry in the Inland Northwest.
- 2007 Palouse-Snake River Society of American Foresters Field Tour, Chair and Lead: Puget Sound Windmill farm and the Columbia Complex fire.
- 2005 Western Forestry and Conservation Association Conference, Moderator: Soils of the Douglas-fir region: Fundamentals and management practices.

**Outreach Service:**

- Annually Forest management science and technology knowledge transfer to USDA Forest Service Region 1 and 6, USDI Bureau of Land Management, Washington Department of Natural Resources, Idaho Department of Lands, Potlatch Corporation, Hancock Forest Management, Molpus Timberlands, Stimson Lumber Company, Bennett Lumber Company, Inland Empire Paper Company.
- Annually Hancock Forest Management Northwest Region Silviculture Workshop.
- 2018 Forest research and adaptive management: silviculture strategies in a dynamic environment. Idaho Master Stewards Fall Meeting. Cottonwood, ID.
- 2017 USDA Forest Service Regional Tree Improvement Area Management Meeting. Riggins, ID
- 2015 Vaagen Brothers Annual Contractor Workshop. Colville, WA.
- 2014 USDA-NRCS District Soil Conservationist Annual Meeting.
- 2012-present University of Idaho Extension Logger Education Workshops (LEAP).
- 2012 Northeast Washington Forest Soil Management. Washington Tree Farm Association. Usk, WA.

**Honors and Awards:**

- 2017 Outstanding Advisor Award, Univ. of Idaho College of Natural Resources
- 2008 Outstanding Communicator of the Year, Inland Empire Society of American Foresters
- 2008 STAR Recipient, Palouse Marketing Committee