

Vitae
Jim Kiser Ph.D.
41760 Cut Off Drive
Lebanon, Oregon 97355

Education

A.A. Architectural Technology. 1975. Golden West Community College. Huntington Beach, California.

B.S. Forest Management. 1982. Humboldt State University. Arcata, California.

M.S. Forest Management with Integrated Minor in Statistics. 1992. Oregon State University. Corvallis, Oregon.

Ph.D. Forest Science. 2009. Oregon State University.

Employment

Strachan Scholar in Fire & Silviculture

Senior Instructor. College of Forestry. Oregon State University. 2013-present. Responsible for lead in 7 major courses in the Department of Forest Engineering, Resources, and Management.

Parelli Natural Horsemanship University. August 2010 to March 2013. Responsible for facilities infrastructure, University curriculum development, student mentoring, liaison for regulatory agencies and others involved in the ranch including state water health, shared federal boundaries, county power (LPEA), and others.

Instructor and Assistant Professor. College of Forestry. Oregon State University. 1997-2010. Responsible for lead in 3 major courses in the department and College. Lead curriculum advisor for Forest Engineering Students. Chair for College Safety and member of University Safety committees. College liaison for OSHA. Member of a number of College and Department committees including Advising, MECOP, Scholarship, Diversity, Curriculum, and Recruiting.

Timberlands Support Specialist. Weyerhaeuser. 1992-1997. Federal Way, Wash. Responsible for inventory support and appraisal for all western timberlands. Approximately 4.5 million acres across Oregon and Washington.

Instructor. College of Forestry. Oregon State University. 1984-1992. Responsible for lead in 3 major courses in the department and College. Advisor for Forest Management Students. Chair for Mary's Peak Chapter Society of American Foresters. Board member for American Society of Photogrammetry.

Forest Engineering Technician. 1979-1984. U.S. Forest Service. Survey and design of forest roads and other transportation.

Small business owner. Timberhill Mapping 1995-2002. Global Positioning and mapping for a large number of clients including U.S. Forest Service, Federated Tribes of the Warm Springs, Federated Tribes of the Spokane, Crown Pacific, Guistina, Cascade Appraisal

Services, and may others.

Consultant for Timber and Land Inventory, appraisal, and management assessment for 20+ years.

Awards

1999 Julie Kliewer Mentoring award. College of Forestry highest award for student mentoring

2001 Aufderheide award. College of Forestry highest award for Excellence in Teaching.

2005 Dean's Award for Service

2009 Dar Reese award. University highest award for Teaching Excellence

2013 Aufderheide award. College of Forestry highest award for Excellence in Teaching.

Research Program

Ecophysiological effects from fungal/tree relationships in the wood and foliage of conifers. Research questions we are currently investigating include:

- Changes in fungal endophyte communities related to environmental variables in needles and bole wood
- The role of seed source in fungal endophyte communities
- Quantum energy dynamics in fungal endophyte ecology
- Molecular genomic techniques for endophyte isolation
- Environmental effects of tree damage
- Interactions of endophytes in production of antimicrobials used to produce natural pharmaceuticals

Forest Biometrics

- Evaluation of drone-based LiDAR for forest inventory
- Quantification of stream temperature and sediment loading from drone-based LiDAR and multi spectral imaging
- Statistical processes in forest biometrics
- Efficiencies in timber cruising design and sampling
- Biometric responses of forest trees to damage

Courses Currently Taught:

FE 101 – Introduction to Forest Engineering

FE 208 – Forest Surveying

FE 310 – Forest Route Surveying

FE 312 – Forestry Field School

FE 312 – Forestry Field School

FE 415 – Forest Road Design

FOR 111 – Introduction to Forestry

Graduate Seminar

Principal Publications

Textbooks

- Kiser, J.D.** 2016. Forestry Field Reference Book 2nd edition. John Bell and Assoc. Corvallis, Oregon. 70 pages.
- Kiser, J.D.** 2014. Forestry Field Reference Book. John Bell and Assoc. Corvallis, Oregon. 44 pages.
- Paine, D.P. and **J. D. Kiser**. 2012. Aerial Photography and Image Interpretation (3rd ed.). John Wiley, inc. New York. 632 pages.
- Kiser, J. D.** 2010. Surveying for Forestry and the Natural Resources. 2nd edition. John Bell and Assoc. Corvallis, Oregon. 276 pages.
- Kiser, J. D.** 2006. Surveying for Forestry and the Natural Resources. John Bell and Assoc. Corvallis, Oregon. 209 pages.
- Paine, D.P. and **J. D. Kiser**. 2004. Aerial Photography and Image Interpretation; Student Companion Web Site. John Wiley, inc. New York.
http://jwsedcv.wiley.com/college/bcs/redesign/student/0,,_0471204897_BKS_2050___,00.html
- Paine, D.P. and **J. D. Kiser**. 2003. Aerial Photography and Image Interpretation (2nd ed.). John Wiley, inc. New York. 632 pages.
- Kiser, J.D.** 2014 - 2019. Forestry Field School Workbook Manual. 333 pages. 6 editions published.

Publications – refereed

- Kiser, J**, Daniels H, Scrivani J (2019) Isolation of Endophytic Fungi from Douglas-Fir (*Pseudotsuga menziesii*) Foliage with Bioprospecting Potential for Natural Pharmaceuticals. *Curr Trends Forest Res* 3: 1035. DOI: 10.29011/ 2638-0013.101035
Journal impact factor = 1.2
- Daniels, H., Cappellazi, J., **Kiser, J. D.** (2018). Microbiome diversity of endophytic fungi across latitudinal gradients in West Coast Douglas-fir (*Pseudotsuga menziesii*) foliage. *Journal of Biodiversity Management and Forestry*, 7(3), 10.
Journal impact factor = 1.85
- Mancuso, A. C., Belart, F., Leshchinsky, B. A., Mark, R., **Kiser, J. D.** (2018). Behavior and assessment of mobile anchors in cable yarding systems. *Canadian Journal of Forest Research*, 48(11), 1382-1387.
Journal impact factor = 1.83

Kiser, J., Daniels, Dixie A., and Temesgen, H. 2017. Growth response of coastal Douglas-fir (*Pseudotsuga menziesii* [Mirbel] Franco) in western Oregon following mechanical commercial thinning damage. *Mathematical and Computational Forestry & Natural-Resource Sciences (MCFNS)*. 9(1). 22-29.

Journal impact factor = 0.68

Kiser, J., Morrell, J. J., and Filip, G. 2011. Fungal colonization of coastal Douglas-fir following mechanical commercial thinning damage. *Forest Pathology*. 41. 317-324.

Journal impact factor = 1.74

Kiser, J. 2011. Histochemical and geometric alterations of sapwood in coastal Douglas-fir (*Pseudotsuga menziesii* [Mirbel] Franco) following mechanical damage during commercial thinning. *Silva Fennica*. 45(4). 729-741.

Journal impact factor = 1.25

Kiser, J. 2009. The Effects of Mechanical Damage on Residual Coastal Douglas-fir (*Pseudotsuga menziesii* [Mirbel] Franco) Following Commercial Thinning. Ph.D. Thesis. Oregon State University. Corvallis, Oregon. 179 pages.

Kiser, Jim. 2007. Engineering Surveying. In: *Engineering Field Manual for Conservation Practices Part 650*. Natural Resources Conservation Service. United State Dept. of Agriculture. Washington D.C. 132 pages.

Kiser, Jim. 2008. Satellite-Based Surveying. In: *Engineering Field Manual for Conservation Practices Part 650*. Natural Resources Conservation Service. United State Dept. of Agriculture. Washington D.C. 31 pages.

Kiser, Jim, Solmie, Derek, and Kellogg, Loren. 2005. Efficiencies of Traditional and Digital Measurement Technologies for Forest Operations. *Western Journal of Applied Forestry*. 20 (2): 138-143.

Journal impact factor = 0.38

Publications – non-refereed

Boston, K. and **J. Kiser.** 1999. Just-in-Time Operational Scheduling System. Conference Proceedings, Timber Harvesting and Transportation Technologies for Forestry in the New Millennium. Pietermaritzburg, South Africa. June 10-11, 1999. pp. 24-34

Kiser, J. 1989. Accuracy of the Analytical Stereoplotter as an Input Device to a GIS". COPE Report.

Paine, D.P. and **J. Kiser.** 1988. Vegetation Mapping and Inventory on Coastal Riparian Zones. COPE Report. Vol. 1, No. 1.

Kiser, J. and D.P. Paine. 1988. A New Generation Stereoplotter for Aerial Photo Analysis. COPE Report. Vol. 1, No. 1.

Publications – in review

None at this time

National presentations

Poster

Maclennan, A.* - Author & Presenter, **Kiser, J.** - Author, Dunn, C. - Author, Hatten, J. - Author, Society of American Foresters 2018 National Convention, "Relationship of Soil Type and Burn Severity to Post-Fire Vegetation Response," Portland, Oregon. (October 4, 2018).

Daniels, Dixie A. * - Author & Presenter, and **Kiser, J.** Author. American Phytopathological Society annual meeting, August 2016, Tampa, Florida
"Environmental effects on endophyte communities in four Douglas-fir progeny sites: preliminary results"

Daniels, Dixie A. * - Author & Presenter, and **Kiser, J.** Author. 64th Annual WIFDWC, May 2016, Sitka, AK. "Environmental effects on endophyte communities in four Douglas-fir progeny sites: preliminary results"

International presentations

Oral Presentation

Maclennan, A.* - Author & Presenter, **Kiser, J.** - Author, Dunn, C. - Author, Hatten, J. - Author, Future Forestry Leaders Symposium, "Relationship of Soil Type and Burn Severity to Post-Fire Vegetation Response," Vancouver, British Columbia, Canada. (November 7, 2018).

Klee, A.* - Author & Presenter, **Kiser, J.** - Author, Cushing, T. - Author, Fitzgerald, S. - Author, Future Forestry Leaders Symposium, "Willingness to Pay for Forest Recreation: Practical Applications for Forest Management," Vancouver, British Columbia, Canada. (November 7, 2018).

Poster

Maclennan, A.* - Author & Presenter, **Kiser, J.** - Author, Dunn, C. - Author, Association for Fire Ecology and the International Association of Wildland Fire, Fire Continuum Conference, "Relationship of Soil Type and Burn Severity to Post-Fire Vegetation Response," Missoula, Montana. (May 22, 2018).

Daniels, D.* - Author, **Kiser, J** - Author, American Phytopathological Society annual meeting, "Environmental effects on endophyte communities in four Douglas-fir progeny sites: preliminary result," Tampa, Florida. (August 2016).

Regional presentations

Oral Presentation

Scrivani, J. Author & Presenter*, Kiser, J. D. Author, 2019 Western Forestry Graduate Research Symposium (WFGRS), "Characterization of fungal endophyte populations in ponderosa pine needles," Oregon State University. Accepted. (April 26, 2019).

Klee, A. Author & Presenter*, Kiser, J. D. Author, 2019 Western Forestry Graduate Research Symposium (WFGRS), "Determinants of Willingness to Pay for Forest Recreation based on Payment Type using Contingent Valuation: A Practical Application for Forest Managers," Oregon State University. Accepted. (April 26, 2019).

MacLennan, A. Author & Presenter*, Kiser, J. D. Author, 2019 Western Forestry Graduate Research Symposium (WFGRS), "Relationship of Soil Type and Burn Severity to Post-Fire Vegetation Response," Oregon State University. Accepted. (April 26, 2019).

Poster

MacLennan, A.* - Author & Presenter, **Kiser, J.** - Author, 6th Annual Oregon State University College of Forestry Western Forestry Graduate Research Symposium, "Relationship of Soil Type and Burn Severity to Post-Fire Vegetation Response," Corvallis, Oregon. (April 13, 2018).

Scrivani, J.* - Author & Presenter, **Kiser, J.** - Author, 6th Annual Oregon State University College of Forestry Western Forestry Graduate Research Symposium, "What lies beneath: A molecular survey of the fungal endophytes of lodgepole and ponderosa pine needles," Corvallis, Oregon. (April 13, 2018).

Daniels, D.* - Author & Presenter, **Kiser, J.** - Author, 3rd Annual Oregon State University Center for Genome Research and Biocomputing Spring Conference, "Environmental effects on endophyte communities in four Douglas-fir progeny sites: preliminary results," Oregon State University. (April 2016).