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EDUCATION

- B.S. in Forestry** (Forest Management) 1976, University of Maine, Orono, ME.
- M.S. in Botany** (Forest Ecology) 1979, Rutgers University, New Brunswick, NJ.
- M.S. in Statistics** (Applied Statistics) 1986, Oregon State University, Corvallis, OR.
- Ph.D. in Forest Management** (Forest Modeling/Biometrics) 1986, Oregon State University, Corvallis, OR.

EMPLOYMENT

- 2008** **Professor**, Giustina Professor of Forest Management, Director of Center for Intensive Planted-forest Silviculture, Department of Forest Engineering, Resources, and Management, Oregon State University, Corvallis, OR.
- 2007** Associate Professor, Hayes Professor of Silviculture, Director of Center for Intensive Planted-forest Silviculture, Department of Forest Science, Oregon State University, Corvallis, OR.
- 2002** Associate Professor, Hayes Professor of Silviculture, Silviculture Extension Specialist, Department of Forest Science, Oregon State University, Corvallis, OR.
- 2000** Associate Professor with Indefinite Tenure, Department of Forest Resources, Oregon State University, Corvallis, OR.
- (1997)** Forest Biometrics Consultant, Winrock International/World Bank, West Bengal, India.
- 1996** Assistant Professor, Department of Forest Resources, Oregon State University, Corvallis, OR.
- 1993** Associate Professor, Department of Forest Ecosystem Science, University of Maine, Orono, ME.
- 1990** Associate Professor with Indefinite Tenure, Silviculture Project Leader for Stand Management Cooperative, College of Forest Resources, University of Washington, Seattle, WA.
- (1987)** Forest Biometrics Consultant, USAID/Winrock International, Sind, Pakistan.
- 1986** Assistant Professor, Silviculture Project Leader for Stand Management Cooperative, College of Forest Resources, University of Washington, Seattle, WA.
- 1986** Research Forester, USDA-Forest Service, Northeastern Forest Experiment Station, Orono, ME.
- 1985** Research Assistant, FIR Growth and Yield Modeling Project, College of Forestry, Oregon State University, Corvallis, OR.
- 1985** Teaching Assistant, Department of Statistics, Oregon State University, Corvallis, OR.

- 1982 Research Assistant, FIR Growth and Yield Modeling Project, College of Forestry, Oregon State University, Corvallis, OR.
- 1982 Prep and Planning Forester, USDA-Forest Service, Shasta-Trinity National Forest, Big Bar, CA.
- 1979 Assistant District Silviculturist, USDA-Forest Service, Shasta-Trinity National Forest, Big Bar, CA.
- 1978 Forestry Technician, USDA-Forest Service, Kootenai National Forest, Troy, MT.
- 1976 Teaching Assistant, Department of Botany, Rutgers University, New Brunswick, NJ.
- 1975 Federal Summer Intern, USDA-Forest Service, Washington, D.C.
- 1974 Forestry Technician, Great Northern Paper Company, Millinocket, Maine.

PUBLICATIONS

Refereed Journal Papers

- 97) Jagels, R., M.A. Equiza, D. Cirelli, and **D. Maguire**. Wood science data: A key resource for tree biomechanics research. *Trees (Structure and Function)*, in review.
- 96) Cornejo-Oviedo, E.H., S.L. Voelker, D.B. Mainwaring, **D.A. Maguire**, F.C. Meinzer, and J.R. Brooks. 2017. Basal area growth, carbon isotope discrimination, and intrinsic water use efficiency after fertilization of Douglas-fir in the Oregon Coast Range. *Forest Ecology and Management* 389:285-295.
- 95) Osborne, N.L., O. Høibø, and **D.A. Maguire**. 2016. Estimating the density of coast Douglas-fir wood samples at different moisture contents using medical X-ray computed tomography. *Computers and Electronics in Agriculture* 127:50-55.
- 94) Osborne, N.L., **Maguire, D.A.** 2015. Modeling knot geometry from branch angles in Douglas-fir (*Pseudotsuga menziesii*). *Canadian Journal of Forest Research* 46:215-224.46:215-224.
- 93) Zhao, J., **D. Maguire**, D. Mainwaring, and A. Kanaskie. 2015. The effect of within-stand variation in Swiss needle cast intensity on Douglas-fir stand dynamics. *Forest Ecology and Management* 347:75-82.
- 92) Mainwaring, D.B., **D.A. Maguire**, and S.S. Perakis. 2014. Three-year growth response of young Douglas-fir to nitrogen, calcium, phosphorus, and blended fertilizers in Oregon and Washington. *Forest Ecology and Management* 327:178-188.
- 91) Lowell, E.C., **D.A. Maguire**, D.G. Briggs, E.C. Turnblom, K.J.S. Jayawickrama, and J. Bryce. 2014. Effects of silviculture and genetics on branch/knot attributes of coast Pacific Northwest Douglas-fir and implication for wood quality – A synthesis. *Forests* 5:1717-1736
- 90) Littke, K.M., R.B. Harrison, D. Zabowski, D.G. Briggs, and **D.A. Maguire**. 2014. Effects of geoclimatic factors on soil water, nitrogen, and foliage properties of Douglas-fir plantations in the Pacific Northwest. *Forest Science* 60:1118-1130.
- 89) Zhao, J., **D. Maguire**, D. Mainwaring, J. Wehage, and A. Kanaskie. 2013. Thinning mixed-species stands of Douglas-Fir and western hemlock in the presence of Swiss needle cast: Guidelines based on relative basal area growth of individual trees. *Forest Science* 60:191-199.
- 88) Lara, W., F. Bravo, and **D.A. Maguire**. 2013. Modeling patterns between drought and tree biomass growth from dendrochronological data: A multilevel approach. *Agricultural and Forest Meteorology* 178:140-151.

- 87) Zhang, J., M.W. Ritchie, **D.A. Maguire**, and W.W. Oliver. 2013. Thinning ponderosa pine (*Pinus ponderosa*) stands reduces mortality while maintaining stand productivity. *Canadian Journal of Forest Research* 43:311-320.
- 86) Lam, T.-Y. and **D.A. Maguire**. 2013. Bayesian models describing microhabitat associations of infrequently captured small mammals sampled under a complex hierarchical design. *Forest Ecology and Management* 298:101-110.
- 85) Mulvey, R.L., D.M. Shaw, and **D.A. Maguire**. 2013. Fertilization impacts on Swiss needle cast disease severity in western Oregon. *Forest Ecology and Management* 287:147-158.
- 84) Lam, T.-Y. and **D.A. Maguire**. 2012. Structural equation modeling: Theory and applications in forest management. *International Journal of Forest Research* 2012 Article ID 263953, 16 pages, doi: 10.1155/2012/263953.
- 83) Zhao, J., **D.A. Maguire**, D.B. Mainwaring, and A. Kanaskie. 2012. Climatic influences on needle cohort survival mediated by Swiss needle cast in coastal Douglas-fir. *Trees* 26:1361-1371.
- 82) **Maguire, D.A.**, D.B. Mainwaring, and A. Kanaskie. 2011. Ten-year growth and mortality in young Douglas-fir stands experiencing a range in Swiss needle cast severity. *Canadian Journal of Forest Research* 41:2064-2076.
- 81) Zhao, J., D.B. Mainwaring, **D.A. Maguire**, and A. Kanaskie. 2011. Regional and annual trends in Douglas-fir foliage retention: correlations with climatic variables. *Forest Ecology and Management* 262:1872-1886.
- 80) Garber, S., T.Y. Lam, and **D.A. Maguire**. 2011. Growth and mortality of residual Douglas-fir after regeneration harvests under group selection and two-story silvicultural systems. *Western Journal of Applied Forestry* 26:64-70.
- 79) Lam, T.Y. and **D.A. Maguire**. 2011. Thirteen-year height and diameter growth of Douglas-fir seedlings under alternative regeneration cuts in the Pacific Northwest. *Western Journal of Applied Forestry* 26:57-63.
- 78) Shaw, D.C., G.M. Filip, A. Kanaskie, **D.A. Maguire**, and W.A. Littke. 2011. Managing an epidemic of Swiss needle cast in the Douglas-fir region of Oregon: The role of the Swiss Needle Cast Cooperative. *Journal of Forestry* 109:109-119.
- 77) Weiskittel, A..R., **D.A. Maguire**, R.A. Monserud, and G.P. Johnson. 2010. A hybrid model for intensively managed Douglas-fir plantations in the Pacific Northwest, USA. *European Journal of Forest Research* 129:325-338.
- 76) Vance, E.D., **D.A. Maguire**, and R.S. Zalesny. 2010. Research strategies for increasing productivity of intensively managed forest plantations. *Journal of Forestry* 108:183-192.
- 75) **Maguire, D.A.**, D.B. Mainwaring, R. Rose, S.M. Garber, and E.J. Dinger. 2009. Response of coastal Douglas-fir and competing vegetation to repeated and delayed weed control treatments during early plantation development. *Canadian Journal of Forest Research* 39:1208-1219.
- 74) Keyes, C.R., **D.A. Maguire**, and J.C. Tappeiner. 2009. Recruitment of ponderosa pine seedlings in the Cascade Range. *Forest Ecology and Management* 257:495-501.
- 73) Wilson, D.S. and **D.A. Maguire**. 2009. Environmental basis of soil-site relationships in ponderosa pine. *Ecological Monographs* 79:595-617.
- 72) Garber, S.M., R.A. Monserud, and **D.A. Maguire**. 2008. Crown recession patterns in three conifer species of the Northern Rocky Mountains. *Forest Science* 54:633-646.

- 71) Keyes, C.R., and **D.A. Maguire**. 2008. Some shrub shading effects on the mid-summer microenvironment of ponderosa pine seedlings in central Oregon. *Northwest Science* 82:245-250.
- 70) Maguire, C.C., **D.A. Maguire**, T.E. Manning, S.M. Garber, and M.W. Ritchie. 2008. Response of small mammals to alternative stand structures in the mixed conifer forest of northeastern California. *Canadian Journal of Forest Research* 38:943-955.
- 69) Weiskittel, A.R., H. Temesgen, D.S. Wilson, and **D.A. Maguire**. 2008. Sources of within- and between-stand variability in specific leaf area of three ecologically distinct conifer species. *Annals of Forest Science* 65:14-23.
- 68) Moore, J.R., and **D.A. Maguire**. 2008. Simulating the dynamic behavior of Douglas-fir trees under applied loads by the finite element method. *Tree Physiology* 28:75-83.
- 67) Pascual, D., **D.A. Maguire**, and F. Bravo. 2007. Assessing the applicability of growth models to new species and regions: An example comparing Mediterranean maritime pine in central Spain to ponderosa pine in southwestern Oregon, USA. *Western Journal of Applied Forestry* 22:269-277.
- 66) Weiskittel, A.R., **D.A. Maguire**, and R.A. Monserud. 2007. Response of branch growth and mortality to silvicultural treatments in coastal Douglas-fir plantations: Implications for predicting tree growth. *Forest Ecology and Management* 251:182-194.
- 65) Weiskittel, A.R., S.M. Garber, G.P. Johnson, **D.A. Maguire**, and R.A. Monserud. 2007. Annualized diameter and height growth equations for Pacific Northwest plantation-grown Douglas-fir, western hemlock, and red alder. *Forest Ecology and Management* 250:266-278.
- 64) Keyes, C.R. and **D.A. Maguire**. 2007. Seed rain of ponderosa pine beneath partial overstories. *New Forests* 34:107-114.
- 63) Weiskittel, A.R., **D.A. Maguire**, and R.A. Monserud. 2007. Modeling crown structural responses to competing vegetation control, thinning, fertilization, and Swiss needle cast in coastal Douglas-fir of the Pacific Northwest, USA. *Forest Ecology and Management* 245:96-109.
- 62) Parker, R.T., **D.A. Maguire**, D.D. Marshall, and P. Cochran. 2007. Ponderosa pine growth response to soil strength in the volcanic ash soils of central Oregon. *Western Journal of Applied Forestry* 22:134-141.
- 61) **Maguire, D.A.**, C.B. Halpern, and D.L. Phillips. 2007. Changes in forest structure following variable-retention harvests in Douglas-fir dominated forests. *Forest Ecology and Management* 242:708-726.
- 60) Barbour, R.J., R. Singleton, and **D.A. Maguire**. 2007. Evaluating forest product potential as part of planning ecological restoration treatments on forested landscapes. *Landscape and Urban Planning* 80:237-248.
- 59) Weiskittel, A.R. and **D.A. Maguire**. 2007. Response of Douglas-fir leaf area index and litterfall dynamics to Swiss needle cast in north coastal Oregon, USA. *Annals of Forest Science* 64:121-132.
- 58) Moores, A., K. Puettmann, and **D.A. Maguire**. 2007. The focus of intensive silvicultural research on coastal Douglas-fir over the last 20 years. *Western Journal of Applied Forestry* 22:21-28.
- 57) Weiskittel, A.R., and **D.A. Maguire**. 2006. Branch surface area and its vertical distribution in coastal Douglas-fir. *Trees* 20:657-667.

- 56) Temesgen, H., P.J. Martin, **D.A. Maguire**, and J.T. Tappeiner. 2006. Quantifying effects of different levels of dispersed canopy tree retention on stocking and yield of the regeneration cohort. *Forest Ecology and Management* 235:44–53.
- 55) Lysak, T., D.W. Ross, **D.A. Maguire**, and D.L. Overhulser. 2006. Predicting spruce weevil damage in sitka spruce in the northern Oregon Coast Range. *Western Journal of Applied Forestry* 21:159-164.
- 54) **Maguire, D.A.**, D. Mainwaring, and C.B. Halpern. 2006. Stand dynamics after variable retention harvesting in mature Douglas-fir forests of western North America. *Allgemeine Forst und_Jagdzeitung* 177:120-131.
- 53) Weiskittel, A.R., **D.A. Maguire**, R.A. Monserud, and E.C. Turnblom. 2006. Intensive management influence on Douglas-fir stem form, branch characteristics, and simulated product recovery. *New Zealand Journal of Forestry Sciences* 36:293-312.
- 52) Weiskittel, A.R., **D.A. Maguire**, S.M. Garber, and A. Kanaskie. 2006. Influence of Swiss needle cast on foliage age class structure and vertical foliage distribution in Douglas-fir plantations of north coastal Oregon. *Canadian Journal of Forest Research* 36:1497-1508.
- 51) Perakis, S.S., **D.A. Maguire**, T.D. Bullen, K. Cromack, R.H. Waring, and J.R. Boyle. 2006. Coupled nitrogen and calcium cycles in forest of the Oregon Coast Range. *Ecosystems* 9:63-74.
- 50) Garber, S.M. and **D.A. Maguire**. 2005. The response of vertical foliage distribution to spacing and species composition in mixed conifers stands in central Oregon. *Forest Ecology and Management* 211:341-355.
- 49) **Maguire, D.** 2005. Uneven-aged management: Panacea, viable alternative, or component of a grander strategy. *Journal of Forestry* 103:73-74.
- 48) Mainwaring, D.B., **D.A. Maguire**, A. Kanaskie, and J. Brandt. 2005. Growth responses to commercial thinning in Douglas-fir stands with varying severity of Swiss needle cast in Oregon, USA. *Canadian Journal of Forest Research* 35:2394-2402.
- 47) Garber, S.M., J.P. Brown, D.S. Wilson, **D.A. Maguire**, and L. Heath. 2005. Snag longevity under alternative silvicultural regimes in mixed-species forests of central Maine. *Canadian Journal of Forest Research* 35:787-796.
- 46) Moore, J.R., B.A. Gardiner, J.R.A. Blackburn, A. Brickman, and **D.A. Maguire**. 2005. An inexpensive instrument to measure the dynamic response of standing trees to wind loading. *Agricultural and Forest Meteorology* 132:78-83.
- 45) Valkonen, S. and **D.A. Maguire**. 2005. Relationship between seedbed properties and the emergence of spruce germinants in recently cut Norway spruce selection stands in southern Finland. *Forest Ecology and Management* 210:255-266.
- 44) Garber, S.M. and **D.A. Maguire**. 2005. Vertical trends in maximum branch diameter in two mixed-species spacing trials in the central Oregon Cascades. *Canadian Journal of Forest Research* 35:295-307. (22 : 2.44)
- 43) Moore, J.R. and **D.A. Maguire**. 2005. Natural sway frequencies and damping ratios of trees: Influence of crown structure. *Trees* 19:363-373.
- 42) Halpern, C.B., D. McKenzie, S.A. Evans, and **D.A. Maguire**. 2005. Initial responses of forest understories to varying levels and patterns of green-tree retention. *Ecological Applications* 15:175-195.
- 41) Moore, J.R. and **D.A. Maguire**. 2005. Natural sway frequencies and damping ratios of trees: Concepts, review, and synthesis of previous studies. *Trees* 18:195-203.

- 40) Mainwaring, D.B. and **D.A. Maguire**. 2004 The effect of local stand structure on growth and growth efficiency in heterogeneous stands of ponderosa pine and lodgepole pine in central Oregon. *Canadian Journal of Forest Research* 34:2217-2229.
- 39) Gonda, H.E., **D.A. Maguire**, G.O. Cortes, and S.D. Tesch. 2004. Stand-level height-diameter equations for young ponderosa pine plantations in Neuquen, Patagonia, Argentina: Evaluating applications of equations developed in the western US. *Western Journal of Applied Forestry* 19:202-210.
- 38) Garber, S.M. and **D.A. Maguire**. 2004. Stand productivity and development in two mixed-species spacing trials in the central Oregon Cascades. *Forest Science* 50:92-105.
- 37) Aubry, K.B., C.B. Halpern, and **D.A. Maguire**. 2004. Ecological effects of variable-retention harvests in the northwestern United States: the DEMO study. *Forest, Snow, and Landscape Research* 78:119-137.
- 36) Garber, S.M. and **D.A. Maguire**. 2003. Modeling stem taper of three central Oregon species using nonlinear mixed effects models and autoregressive error structures. *Forest Ecology and Management* 179:507-522.
- 35) Johnson, G.R., B.L. Gartner, **D. Maguire**, and A. Kanaskie. 2003. Influence of Bravo fungicide applications on wood density and moisture content of Swiss needle cast affected Douglas-fir trees. *Forest Ecology and Management* 186:339-348.
- 34) Dean, T.J., S.D. Roberts, D.W. Gilmore, **D.A. Maguire**, J.N. Long, K.L. O'Hara, and R.S. Seymour. 2002. An evaluation of the uniform stress hypothesis based on stem geometry in selected North American conifers. *Trees* 16:559-568.
- 33) Moore, J.R., **D.A. Maguire**, D.L. Phillips, and C.B. Halpern. 2002. Effects of varying levels and patterns of green-tree retention on amount of harvesting damage. *Western Journal of Applied Forestry* 17:202-206.
- 32) **Maguire, D.A.** and A. Kanaskie. 2002. The ratio of live crown length to sapwood area as a measure of crown sparseness. *Forest Science* 48:93-100.
- 31) **Maguire, D.A.**, A. Kanaskie, W. Voelker, R. Johnson, and G. Johnson. 2002. Growth of young Douglas-fir plantations across a gradient in Swiss needle cast severity. *Western Journal of Applied Forestry* 17:86-95.
- 30) Bravo, F., D.W. Hann, and **D.A. Maguire**. 2001. Impact of competitor species composition on predicting diameter growth and survival rates of Douglas-fir trees in southwestern Oregon. *Canadian Journal of Forest Research* 31:2237-2247.
- 29) Kershaw, J.A. and **D. A. Maguire**. 2000. Influence of vertical foliage structure on the distribution of stem cross-sectional area increment in western hemlock and balsam fir. *Forest Science* 46:86-94.
- 28) Wilson, D.S., R. S. Seymour, and **D.A. Maguire**. 1999. Density management diagram for northeastern red spruce and balsam fir forests. *Northern Journal of Applied Forestry* 16:48-55.
- 27) **Maguire, D.A.**, S.R. Johnston, and J. Cahill. 1999. Predicting branch diameters on second-growth Douglas-fir from tree-level descriptors. *Canadian Journal of Forest Research* 29:1829-1840.
- 26) **Maguire, D.A.**, J. Brissette, and L. Gu. 1998. Crown structure and growth efficiency of red spruce in uneven-aged, mixed-species stands in Maine. *Canadian Journal of Forest Research* 28:1233-1240.

- 25) Batista, J.L.F. and **D.A. Maguire**. 1998. Modeling the spatial structure of tropical forests. *Forest Ecology and Management* 110:293-314.
- 24) Roeh, R. and **D.A. Maguire**. 1997. Crown profile models based on branch attributes in coastal Douglas-fir. *Forest Ecology and Management* 96: 77-100.
- 23) Gilmore, D.W., R.S. Seymour, **D.A. Maguire**. 1996. Foliage-sapwood area relationships for *Abies balsamea* in central Maine, U.S.A. *Canadian Journal of Forest Research* 26:2071-2079.
- 22) Kershaw, J.A. and **D.A. Maguire**. 1996. Crown structure in western hemlock, Douglas-fir, and grand fir in western Washington: horizontal distribution of foliage within branches. *Canadian Journal of Forest Research* 26:128-142.
- 21) **Maguire, D.A.** and J.L.F. Batista. 1996. Sapwood taper models and implied sapwood volume and foliage profiles for coastal Douglas-fir. *Canadian Journal of Forest Research* 26:849-863.
- 20) **Maguire, D.A.** and W.S. Bennett. 1996. Patterns in vertical distribution of foliage on coastal Douglas-fir. *Canadian Journal of Forest Research* 26:1991-2005.
- 19) Kershaw, J.A. and **D.A. Maguire**. 1995. Crown structure in western hemlock, Douglas-fir, and grand fir in western Washington: trends in branch-level mass and leaf area. *Canadian Journal of Forest Research* 25:1897-1912.
- 18) **Maguire, D.A.** and W.S. Bennett. 1995. A field procedure for thinning by relative density specifications: Development, implementation, and relationship to stand structure. *Western Journal of Applied Forestry* 10:85-90.
- 17) Segura, G.K, L.B. Brubaker, J.F. Franklin, T.M. Hinckley, **D.A. Maguire**, and G. Wright. 1994. Recent mortality and decline in mature *Abies amabilis*: the interaction between site factors and tephra deposition from Mount St. Helens. *Canadian Journal of Forest Research* 24:1112-1122.
- 16) **Maguire, D.A.** 1994. Branch mortality and potential litterfall from Douglas-fir trees in stands of varying density. *Forest Ecology and Management* 70:41-53.
- 15) **Maguire, D.A.**, W.S. Bennett, and M. Moeur. 1994. Models for describing basal diameter and vertical distribution of primary branches on young Douglas-fir. *Forest Ecology and Management* 63:23-55.
- 14) **Maguire, D.A.**, J.A. Kershaw, Jr., and D.W. Hann. 1991. Predicting effects of silvicultural regime on branch size and juvenile wood core in Douglas-fir. *Forest Science* 37: 1409-1428.
- 13) **Maguire, D.A.** and D.W. Hann. 1990. A sampling strategy for estimating past crown recession on temporary growth plots. *Forest Science* 36: 549-563.
- 12) **Maguire, D.A.** and D.W. Hann. 1990. Constructing models for direct prediction of five-year crown recession in southwestern Oregon Douglas-fir. *Canadian Journal of Forest Research* 20: 1044-1052.
- 11) Kershaw, J.K., **D.A. Maguire**, and D.W. Hann. 1990. Longevity and duration of radial growth in Douglas-fir branches. *Canadian Journal of Forest Research* 20: 1690-1695.
- 10) **Maguire, D.A.**, G.F. Schreuder, and M. Shaikh. 1990. A biomass yield model for high- density *Acacia nilotica* plantations in Sind, Pakistan. *Forest Ecology and Management* 37: 285-302.
- 9) **Maguire, D.A.** and D.W. Hann. 1989. The relationship between gross crown dimensions and sapwood area at crown base in Douglas-fir. *Canadian Journal of Forest Research* 19: 557-565.
- 8) **Maguire, D.A.** and D.W. Hann. 1989. Bark thickness and bark volume in southwestern Oregon Douglas-fir. *Western Journal of Applied Forestry* 5: 5-8.

- 7) **Maguire, D.A.** and D.W. Hann. 1987. Equations for predicting sapwood area at crown base in southwestern Oregon Douglas-fir. *Canadian Journal of Forest Research* 17: 236-241.
- 6) **Maguire, D.A.** and D.W. Hann. 1987. A stem dissection technique for dating branch mortality and reconstructing past crown recession. *Forest Science* 33: 858-871.
- 5) **Maguire, D.A.** and C.C. Maguire. 1987. Analyzing treatment effects on Douglas-fir seedling survival with an Extreme Value regression model. *Canadian Journal of Forest Research* 17: 1627-1630.
- 4) **Maguire, D.A.** 1985. The effect of sampling scale on the detection of interspecific patterns in a hemlock-hardwood forest herb stratum. *American Midland Naturalist* 113: 138-145.
- 3) **Maguire, D.A.** and R.T.T. Forman. 1983. Herb cover effects on tree seedling patterns in a mature hemlock-hardwood forest. *Ecology* 64: 1367-1380.
- 2) **Maguire, D.A.** 1983. Suppressed crown expansion and increased bud density after precommercial thinning in California Douglas-fir. *Canadian Journal of Forest Research* 13: 1246-1247.
- 1) **Maguire, D.A.** 1980. Addition to the flora of Cathedral State Park, West Virginia. *Castanea* 45:277-278.

Other refereed papers

- (1) **Maguire, D.A.**, S. Canavan, C.B. Halpern, and K.B. Aubry. 2005. Fate of taxa after variable-retention harvesting in Douglas-fir forests of the northwestern United States. Pp. 271-279 in C.E. Peterson and D.A. Maguire (editors). *Balancing Ecosystem Values: Innovative Experiments for Sustainable Forestry*. USDA-FS Gen. Tech. Rep. PNW-GTR-635.
- (2) Schwarz, P., **D.A. Maguire**, and D.B. Mainwaring. 2005. Projections of future overstory stand structure and composition following variable-retention harvests in the northwestern United States. Pp. 201-214 in C.E. Peterson and D.A. Maguire (editors). *Balancing Ecosystem Values: Innovative Experiments for Sustainable Forestry*. USDA-FS Gen. Tech. Rep. PNW-GTR-635.
- (3) Temesgen, H., P.J. Martin, **D.A. Maguire**, and J.T. Tappeiner. 2005. Effects of different levels of canopy tree retention on stocking and yield of the regeneration cohort in the southern Interior of British Columbia. Pp. 215-224 in C.E. Peterson and D.A. Maguire (editors). *Balancing Ecosystem Values: Innovative Experiments for Sustainable Forestry*. USDA-FS Gen. Tech. Rep. PNW-GTR-635.
- (4) Fitzgerald, S., **D.A. Maguire**, and R. Singleton. 2005. Simulating structural development and fire resistance of second-growth ponderosa pine stands for two contrasting stand treatments. Pp. 191-198 in C.E. Peterson and D.A. Maguire (editors). *Balancing Ecosystem Values: Innovative Experiments for Sustainable Forestry*. USDA-FS Gen. Tech. Rep. PNW-GTR-635.
- (5) Keyes, C.R. and **D.A. Maguire**. 2005. Positive seedling-shrub relationships in natural regeneration of ponderosa pine. Pp. 95-107 In M.W. Ritchie, A. Youngblood, and D.A. Maguire (editors). *Ponderosa Pine: Management, Issues and Trends*. USDA-FS Gen Tech. Rep. PSW-GTR-198.

Book chapters and encyclopedia entries

- (1) **Maguire, D.A.**, A. Osawa, and J.L.F. Batista. 2005. Primary production, growth, and carbon dynamics. Pp. 339-383 in F. Andersson (ed). *Ecosystems of the World 6: Coniferous Forests*. Elsevier, Amsterdam.
- (2) **Maguire, D.A.** 2001. Tree morphology. Pp. 2238-2242 in A.H. El-Shaarawi and W.W. Piegorsch (eds). *Encyclopedia of Environmetrics*. Wiley, New York.

Books

- (1) Tappeiner, J.C., II, **D. A. Maguire**, T.B. Harrington, and J.D. Bailey. 2015. *Silviculture and Ecology of Western U.S. Forests*, Second Edition. OSU Press, Corvallis, Oregon. 446 p.
- (2) Tappeiner, J.C., II, **D. A. Maguire**, and T.B. Harrington. 2007. *Silviculture and Ecology of Western U.S. Forests*. OSU Press, Corvallis, Oregon. 440 p.
- (3) Tappeiner, J.C., II, **D. A. Maguire**, T.B. Harrington, and J.Bailey. 2015. *Silviculture and Ecology of Western U.S. Forests*, 2nd Ed. OSU Press, Corvallis, Oregon. 440 p.

Edited Publications

- (1) **Maguire, D.A.** and D.B. Mainwaring (eds). 2016. Center for Intensive Planted-forest Silviculture 2015 Annual Report. College of Forestry, Oregon State University, Corvallis, OR, USA. 59 p.
- (2) **Maguire, D.A.** and D.B. Mainwaring (eds). 2015. Center for Intensive Planted-forest Silviculture 2014 Annual Report. College of Forestry, Oregon State University, Corvallis, OR, USA. 56 p.
- (3) **Maguire, D.A.** and D.B. Mainwaring (eds). 2014. Center for Intensive Planted-forest Silviculture 2013 Annual Report. College of Forestry, Oregon State University, Corvallis, OR, USA. 60 p.
- (4) **Maguire, D.A.** and D.B. Mainwaring (eds). 2013. Center for Intensive Planted-forest Silviculture 2012 Annual Report. College of Forestry, Oregon State University, Corvallis, OR, USA. 60 p.
- (5) **Maguire, D.A.** and D.B. Mainwaring (eds). 2012. Center for Intensive Planted-forest Silviculture 2011 Annual Report. College of Forestry, Oregon State University, Corvallis, OR, USA. 46 p.
- (6) **Maguire, D.A.** and D.B. Mainwaring (eds). 2011. Center for Intensive Planted-forest Silviculture 2010 Annual Report. College of Forestry, Oregon State University, Corvallis, OR, USA. 60 p.
- (7) Peterson, C.E. and **D.A. Maguire** (eds). 2005. *Balancing Ecosystem Values: Innovative Experiments for Sustainable Forestry*. USDA-FS PNW Research Station, Portland, Oregon. General Technical Report PNW-GTR-635. 389 p.
- (8) Ritchie, M.W., **D.A. Maguire**, and A. Youngblood. (eds). 2005. *Proceedings of the Symposium on Ponderosa Pine: Issues, Trends, and Management*. USDA-FS PSW Research Station, Redding, California. General Technical Report PSW-GTR-198. 281 p.

Non-refereed Publications

- (1) Mainwaring, D., **D. Maguire**, R. Rose, and E. Dinger. 2011. Simulation of Tree And Stand Development on VMRC Controlled Experiments Using the SMC Variant of the CONIFERS Young Stand Growth Model. Pp. 5-19 in D.A. Maguire and D.B. Mainwaring (eds). Center for Intensive Planted-forest Silviculture 2010 Annual Report. College of Forestry, Oregon State University, Corvallis, OR, USA.
- (2) Wilson, D., **D. Maguire**, R. Rose, E. Dinger, and D. Mainwaring. 2011. Incorporating the Influence of Competing Vegetation Control on Young Douglas-fir (*Pseudotsuga menziesii*) Dominant Height Growth through Dynamic Age-shift Models. Pp. 20--19 in D.A. Maguire and D.B. Mainwaring (eds). Center for Intensive Planted-forest Silviculture 2010 Annual Report. College of Forestry, Oregon State University, Corvallis, OR, USA.
- (3) Mainwaring, D., **D. Maguire**, R. Rose, T. Harrington, and E. Dinger. 2011. Diameter and Height Growth Equations for Douglas-fir Growing in Intensively Managed Plantations in the Pacific Northwest. Pp. 29-36 in D.A. Maguire and D.B. Mainwaring (eds). Center for Intensive Planted-forest Silviculture 2010 Annual Report. College of Forestry, Oregon State University, Corvallis, OR, USA.
- (4) D. Mainwaring, **D. Maguire**, R. Rose, T. Harrington, and E. Dinger. 2011. Mortality Equations for Intensively Managed Douglas-fir Plantations in the Pacific Northwest. Pp. 37-40 in D.A. Maguire and D.B. Mainwaring (eds). Center for Intensive Planted-forest Silviculture 2010 Annual Report. College of Forestry, Oregon State University, Corvallis, OR, USA.
- (5) Mainwaring, D., **D. Maguire**, R. Rose, and E. Dinger. 2011. A Model for Assigning DBH to Young Douglas-fir Trees Established and Growing Under Varying Levels of Competing Vegetation. Pp. 41-43 in D.A. Maguire and D.B. Mainwaring (eds). Center for Intensive Planted-forest Silviculture 2010 Annual Report. College of Forestry, Oregon State University, Corvallis, OR, USA.
- (6) **Maguire, D.**, T. Harrington, and B. Wagner. 2011. A Model Describing the Effects of Crown Closure on the Dynamics of Competing Vegetation in Young Douglas-fir Plantations. Pp. 44-47 in D.A. Maguire and D.B. Mainwaring (eds). Center for Intensive Planted-forest Silviculture 2010 Annual Report. College of Forestry, Oregon State University, Corvallis, OR, USA.
- (7) **Maguire, D.**, R. Rose, D. Mainwaring, and E. Dinger. 2011. Models for Simulating Competing

Vegetation Dynamics Under Varying Control Regimes Implemented by the Vegetation Management Research Cooperative. Pp. 48-53 in D.A. Maguire and D.B. Mainwaring (eds). Center for Intensive Planted-forest Silviculture 2010 Annual Report. College of Forestry, Oregon State University, Corvallis, OR, USA.

- (8) Harrison, R.B., **D.A. Maguire**, and D. Page-Dumroese. Chapter 6: Maintaining Adequate Nutrient Supply—Principles, Decision-Support Tools, and Best Management Practices. Pp. 33-42 in S.D. Angima and T.R. Terry (eds). Best Management Practices for Maintaining Soil Productivity in the Douglas-fir Region. EM-9023. Extension Service, Oregon State University, Corvallis, OR.
- (9) **Maguire, D.A.**, Mainwaring, D.B. and Halpern, C.B. 2005. Stand dynamics after variable-retention harvesting in mature Douglas-fir forests of western North America. [Abstract]. In: Innes, J.L.; Edwards, I.K.; Wilford D.J., eds. Proceedings of the 22nd IUFRO World Congress, Forests in the balance: linking tradition and technology. International Forestry Review. 7(5): 47.
- (10) Moore, J.R. and **D.A. Maguire**. 2002. The mechanics of trees under wind loading. Pp. 39-50 in E.T. Smiley and K.D. Koder (eds). Trees structure and mechanics conference proceedings: How trees stand up and fall down. International Society of Arboriculture, Champagne, IL.
- (11) **Maguire, D.A.**, A. Kanaskie, and M. McWilliams. 2000. A strategy for monitoring Swiss needle cast and assessing its growth impact in Douglas-fir plantations of coastal Oregon. Pp. 705-713 in M. Hansen and T. Burk (eds). Integrated tools for natural resources inventories in the 21st century. USDA-Forest Service Gen. Tech. Rep. NC-212.
- (12) Wilson, G.F. and **D. A. Maguire**. 1996. Simulation of early regeneration processes in mixed species forests of Maine, USA: Germination, survival, and height growth. Pp. 530-539 in J.P. Skovsgaard and V.K. Johannsen (eds). Modelling Regeneration Success and Early Growth of Forest Stands. Danish Forest and Landscape Research Institute, Hørsholm, Denmark.
- (13) **Maguire, D.A.** and M.D. Petruncio. 1995. Pruning and growth of western Cascade species: Douglas-fir, western hemlock, and sitka spruce. Pp. 179-215 in D.P. Hanley, C.D. Oliver, D.A. Maguire, D.G. Briggs, and R.D. Fight (eds). 1995. Forest Pruning and Wood Quality. Institute of Forest Resources, College of Forest Resources, University of Washington, Seattle, WA. Contribution No. 77.
- (14) Hanley, D.P., C.D. Oliver, **D.A. Maguire**, D.G. Briggs, and R.D. Fight (eds). 1995. Forest Pruning and Wood Quality. Institute of Forest Resources, College of Forest Resources, University of Washington, Seattle, WA. Contribution No. 77. 403 p.
- (15) **Maguire, D.A.**, J.L.F. Batista, and D. McKenzie. 1993. Horizontal structure of uneven-aged mixed-species forests modeled as an inhomogeneous Poisson process. Pp. 161-170 in K. Rennolls (ed). Spatial Stochastic Models in Forestry. CASSM Publishing, University of Greenwich, London, UK.
- (16) Briggs, D.G., **D.A. Maguire**, and T.D. Fahey. 1992. Predicting growth, quality, and product value of Pacific Northwest Douglas-fir plantations. Pp. 278-281 in Wood Product Demand and the Environment. Forest Product Research Society, Madison, WI.
- (17) **Maguire, D.A.** et al. 1991. Field Procedures Manual, Douglas-fir Version. Stand Management Cooperative, College of Forest Resources, University of Washington, Seattle. 72 p. + App.
- (18) **Maguire, D.A.** et al. 1991. Field Procedures Manual, Western Hemlock Version. Stand Management Cooperative, College of Forest Resources, University of Washington, Seattle.
- (19) **Maguire, D.A.** 1991. Strategies for modeling the effect of silvicultural regime on wood quality in Douglas-fir. Proceedings of the Society of American Foresters National Convention, San Francisco, CA, August 4-7, 1991.
- (20) **Maguire, D.A.**, W.S. Bennett, J.A. Kershaw, B. Gonyea, and H.N. Chappell. 1991. Establishment Report: Stand Management Cooperative Field Installations. Contribution No. 72, Institute of Forest Resources, College of Forest Resources, University of Washington, Seattle. 42 p.
- (21) **Maguire, D.A.** et al. 1990. Silviculture Project Five-year Plan, 1991-95. Stand Management Cooperative, College of Forest Resources, University of Washington, Seattle. 47 p.
- (22) Schreuder, G.F. and **D.A. Maguire**. 1989. El modelo matematico de crecimiento y rendimiento economico para el sistema Hury usando Acacia Nelotica. In: Manejo y aprovechamiento de plantaciones forestales con especies de uso multiple. Antigua, Guatemala, April 1989.
- (23) **Maguire, D.A.** and W. Scott. 1988. Measuring the effects of slash burning and other silvicultural operations on stand productivity: A theoretical perspective. Pp. 81-94 in Hanley, D.P., J.J. Kammenga, and C.D. Oliver (eds.). The Burning Decision: Regional Perspectives on Slash. College of Forest Resources, University of Washington, Seattle, WA. Institute of Forest Resources Contribution No. 66. 374 p.
- (24) **Maguire, D.A.**, G.F. Schreuder, D.G. Briggs, and M. Shaikh. 1988. HYMNS: A model to simulate

- hury yields and the corresponding economic synthesis. Winrock/Pakistan No. 17, March 1988.
- (25) Chappell, H.N. and **D.A. Maguire** (eds.). 1987. Predicting forest growth and yield: Current issues, future prospects. Coll. For. Res., Univ. Wash., Institute of Forest Resources Contribution No. 58. 95 p.
 - (26) Chappell, H.N., R.O. Curtis, D.M. Hyink, and **D.A. Maguire**. 1987. The Pacific Northwest Stand Management Cooperative and its field installation design. Pp. 1073-1080 in Proceedings of Forest Growth and Prediction Conference, Minneapolis, MN. USDA-Forest Service General Technical Report NC-120. 1149 p.
 - (27) **Maguire, D.A.**, D.W. Hann, and J.A. Kershaw, Jr. 1987. Prediction of branch diameter and branch distribution for Douglas-fir in southwestern Oregon. Pp. 1029-1036 in Proceedings of Forest Growth Modelling and Prediction Conference, Minneapolis, MN. USDA-Forest Service General Technical Report NC-120. 1149 p.
 - (28) **Maguire, D.A.** 1987. The Pythagorean spirit at the University of Washington. *Compiler* 5: 4-6.
 - (29) **Maguire, D.A.** and R.T.T. Forman. 1979. The influence of herb cover on tree seedling patterns in an old growth hemlock-hardwood forest. *Bull. Ecol. Soc. Amer.* 60: 125 (abstr).
 - (30) **Maguire, D.A.** 1977. Forest Interpreter's Primer on Range Management. USDA-FS TT-54. 69 p.

Invited national and international presentations

- (1) **National Taiwan University Experimental Forest Inventory and Modeling Project:** Forest models for projecting inventories in plantations and natural mixed-species, multi-aged forests. Zhushan, Nantou County, Taiwan, October 28, 2016.
- (2) **New Zealand Swiss Needle Cast Workshop:** Douglas-fir silviculture in the presence of Swiss needle cast: Relative merits of designing effective management tactics and conceding to environmental limitations. Christchurch, New Zealand, March 26, 2015.
- (3) **Growing Confidence in Forestry's Future:** Advances in productivity research in the Pacific Northwest. Christchurch, New Zealand, March 24, 2015.
- (4) **IUFRO Division 5 meeting on Forest Products:** What do we know about the effects of silviculture and genetics on branches/knots? Douglas-fir in the US Pacific Northwest as a case study. Estoril, Portugal. July 8-13, 2012.
- (5) **2007 SAF National Convention:** Designing silvicultural experiments that will remain relevant for 100 years. Portland, OR. October 25, 2007.
- (6) **IUFRO meeting on Forest Growth and Timber Quality:** Crown models and simulation methods for sustainable forest management. Keynote on Mechanistic crown models – Why mechanisms should be in the eye of the beholder: Notes from the overground. Portland, Oregon. August 7, 2007.
- (7) **XXII IUFRO World Congress:** Stand dynamics after variable-retention harvesting in mature Douglas-fir forests of western North America. Brisbane, Australia. August 8, 2005.
- (8) **Special seminar, Korean Forest Research Institute:** Biotic responses to variable-retention harvesting in mature Douglas-fir forests of western North America. Seoul, Korea. January 19, 2005.
- (9) **IUFRO meeting on Applied Forest Ecological Experiments:** Ecological effects of variable-retention harvests in the northwestern United States. Davos, Switzerland. August 5-7, 2003.
- (10) **IUFRO conference on Uneven-aged Forest Management: Alternative Forms, Practices, and Constraints:** Designing field experiments and simulation models for testing uneven-age silvicultural systems. Helsinki, Finland. June 9-12, 2003.
- (11) **Special seminar, Forest Research Institute of Malaysia Forestry:** Quantitative and statistical techniques in modeling forest responses to silvicultural treatments. Kuala Lumpur, Malaysia. August 16, 1999.
- (12) **Special seminar, Department of Forest Botany and Nature Conservation seminar, Agricultural University:** A Quantitative Framework for Silvicultural Manipulation of Forest Ecosystems. Kraków, Poland. June 7, 1996.
- (13) **Special seminar, Department of Forest Resources, Seoul National University.** Dynamics of Biodiversity in Response to Past and Future Climate Change. Seoul, Korea. July 14, 1995.
- (14) **Special seminar, Korean Forest Research Institute.** Assessing, Monitoring, and Maintaining Biodiversity. Seoul, Korea. July 12, 1995.

Invited regional and local presentations

- (1) **2017 Oregon SAF Conference – Foresters – Connecting Forests, Products, People:** Measuring, influencing, and modeling forest productivity and wood quality in Westside Douglas-fir forests. Tigard, OR, April 26-28, 2017.
- (2) **Upper Nehalem Watershed Council Board Meeting:** Clearcutting as a silvicultural system and its influence on forest ecosystems & landscapes: What do we think we know, and where do we need more research? Vernonia, OR, November 17, 2016.
- (3) **2016 Oregon SAF Conference – Water*Trees*Transportation:** Density management on intensively managed private lands. Coos Bay, OR, April 27-29, 2016.
- (4) **2013 Stand Management Cooperative Fall Meeting:** Response of wood density to thinning and fertilization on SMC Type I Installations. Vancouver, WA. September 17, 2013.
- (5) **2012 Oregon SAF Conference – Global Issues, Local Solutions:** Role of silvicultural research in providing solutions and support for intensive management of planted forests: Global and regional perspectives. Seaside, OR, April 25-27, 2012.
- (6) **2010 Western Mensurationists Meeting:** Response of crown and canopy structure to stand density regime in western conifers. Missoula, MT, June 21-22, 2010.
- (7) **2010 Oregon SAF Conference - Forestry from the Ground Up:** Principles, challenges, and idiosyncracies of managing stand density in plantations. Albany, OR, April 7-9, 2010.
- (8) **Positioning Northwest Forestry for Global Success: 2009 Oregon Society of American Foresters Annual Meeting:** Top three questions we need to answer to stay competitive. Canyonville, OR, April 29-May 1, 2009.
- (9) **Global Issues, Local Solutions: Sustaining Forests in Oregon. 2012 Oregon Society of American Foresters Annual Meeting:** Role of silvicultural research in providing solutions and support for intensive management of planted forests: Global and regional perspectives. Seaside, OR, April 25-27, 2012.
- (10) **Forestry from the Ground Up: 2010 Oregon Society of American Foresters Annual Meeting:** Innovations in silviculture – density management. Albany, OR, April 7-9, 2010.
- (11) **The ponderosa pine uneven-age management study.** Conference on Multi-age Management, Klamath Falls, OR. June 5, 2007.
- (12) **Silviculture in Oregon: Will we ever be smart enough to pump our own gas, and to manage for landowner objectives?** Silviculture Seminar. University of Washington, Seattle. February 9, 2007.
- (13) **Swiss needle cast growth impacts.** SAF Capitol Chapter, Salem, OR. November 13, 2006.
- (14) **Douglas-fir Levels-of-Growing-Stock Study Annual Meeting.** Stand dynamics and other biotic responses to variable-retention harvesting in DEMO. Roseburg, OR. August 17, 2005.
- (15) **SAF/OSU Outreach symposium on Stand Density Management.** The crown effect: Managing stand density for log and lumber quality. Canyonville, OR. March 16, 2005.
- (16) **Pacific Northwest Forest Soils Council Annual Meeting.** Nutritional aspects of Swiss needle cast in coastal Douglas-fir. Vancouver, WA. January 28, 2005.
- (17) **Growth Model Users Group:** Do stem form differences mask response to silvicultural treatments. Vancouver, WA. January 28, 2003.
- (18) **Silvicultural options for sustainable management of Pacific Northwest Forests Symposium** (moderator). CH2M HILL Alumni Center, Oregon State University, Corvallis, OR. March 6, 2002.
- (19) **Forest systems of the Willamette Valley.** Establishment and management of forest trees in the Willamette Valley. Corvallis, OR. October 15, 2002.
- (20) **Silviculture for Diverse Forest Structures:** Uneven-age management and mixed-species management. OSU Outreach Conference for USDA-Forest Service silviculturists, Sisters, OR. June 24-28, 2002.
- (21) **Western Forest Mensurationists Conference** (moderator). Running Y Ranch Resort, Klamath Falls, OR. June 24-26, 2001.
- (22) **What's ahead for variable retention harvesting?** (moderator). New questions about thinning and what's ahead for variable retention harvesting. SAF/OSU extension/WF&CA/World Forestry Center Workshop, Portland, OR. May 21, 2001.
- (23) **Marys Peak Chapter, SAF:** Silviculture and wood quality. Corvallis, OR. November 15, 1999.
- (24) **Fish, Water, & Wildlife - Where Do We Go from Here?:** The impact of Swiss needle cast on Douglas-fir growth and yield. Joint Annual Meeting of the Washington Forest Protection Association and Western Forestry and Conservation Association, Seattle, WA. October 25-27, 1998.

- (25) **Inland Empire Growth and Yield Cooperative Annual Meeting:** Patterns in lodgepole pine mortality induced by mountain pine beetle in central Oregon. January 29, 1998.
- (26) **Cooperative and Innovative Forestry - Moving Beyond Regulation:** Status of Swiss needle cast in western Oregon. The Western Forestry Conference, Portland, OR. December 7-9, 1997.
- (27) **Marys Peak Chapter, SAF:** Swiss needle cast growth impact study - study design and field measurements. Corvallis, OR. May 21, 1997.
- (28) **Symposium on Thinning in Westside Forests: Growth and yield aspects of thinning.** Adaptive COPE Program, Newport, OR. April 1-2, 1997.
- (29) **Pruning Symposium:** Biological response to pruning: Western Cascade species. March 24-26, 1992. Olympia, WA.
- (30) **1991 SAF National Convention:** Approaches to simulating effects of silvicultural regime on wood quality. August 1991. San Francisco, CA.
- (31) **The Burning Decision: A Regional Symposium on Slash:** Measuring the effects of slash burning and other silvicultural operations on stand productivity: A theoretical perspective. April 5-7, 1988. University of Washington, Seattle, WA.
- (32) **Weyerhaeuser Seminar:** Construction of regression models for predicting crown development in southwestern Oregon Douglas-fir. October 30, 1987. Weyerhaeuser Technical Center, Tacoma, WA.
- (33) **U.B.C. Faculty of Forestry Seminar:** Simulation of Douglas-fir crown development under varying silvicultural regimes in Southwest Oregon. March 25, 1987. University of British Columbia, Vancouver, B.C.
- (34) **Invited Forest Ecology Seminar:** Influence of herb cover on tree seedling patterns in a mature hemlock-hardwood forest. January 27, 1984. Department of Forest Science, Oregon State University, Corvallis, OR.

Volunteered Presentations

- (1) **Models for projecting competing vegetation dynamics by life form in young Douglas-fir plantations.** Forest Regeneration in Changing Environments, Corvallis, OR. July 11-13, 2017.
- (2) **Response of Douglas-fir wood density to intensive thinning and fertilization.** MeMoWood conference on Wood Quality and Silviculture. Nancy, France. October 1-4, 2013.
- (3) **Modeling the effects of silvicultural regimes on Douglas-fir crown morphology and related wood quality attributes.** MeMoWood conference on Wood Quality and Silviculture. Nancy, France. October 1-4, 2013. (presentation by Nate Osborne).
- (4) **Douglas-fir growth response to variation in soil water holding capacity and precipitation patterns in the Siskiyou Mountains of southwestern Oregon.** Opportunities and Risks for Douglas-fir in a Changing Climate. Freiburg, Germany, October 18-20, 2010.
- (5) **Comparative primary branching structure among seven plantation conifer species in North America.** IUFRO Fast-growing plantations meeting, Charleston, South Carolina. October 9-10, 2006.
- (6) **A strategy for monitoring the performance of uneven-age silvicultural systems on non-industrial private forests in Oregon.** IUFRO Extension meeting, Troutdale, OR. September 29-October 3, 2003.
- (7) **Connections between forest resources and wood quality: Modelling approaches and simulation software.** Characterizing branching structure of small-diameter ponderosa pine in multi-cohort stands. (with Ryan Singleton). IUFRO workshop, Harrison Hot Springs, BC. September 8-15, 2002.
- (8) **Connections between forest resources and wood quality: Modelling approaches and simulation software.** Moderator for session in IUFRO workshop, Harrison Hot Springs, BC. September 8-15, 2002.
- (9) **The ratio of live crown length to sapwood area as a measure of crown sparseness: relative social position, foliage loss, and growth potential.** IUFRO World Congress, Kuala Lumpur, Malaysia. August 7-12, 2000.
- (10) **Application of the maximum size-density concept applied to silvicultural practices in hill dipterocarp forest: An assessment of growing stock using stand density index approach.** (with Abd Rahman Kassim). IUFRO World Congress, Kuala Lumpur, Malaysia. August 7-12, 2000.
- (11) **Integrated Tools for Natural Resources Inventories in the 21st Century:** A strategy for monitoring Swiss needle cast and assessing its growth impact on Douglas-fir plantations of coastal

- Oregon. International Conference on the Inventory and Monitoring of Forested Ecosystems, Boise, ID. August 16-20, 1998.
- (12) **Uneven-age Silviculture:** Canopy structure and growth efficiency of red spruce in uneven-aged, mixed-species stands in Maine. IUFRO Workshop, Corvallis, OR. September 15-19, 1997.
 - (13) **Modelling Regeneration Success and Early Growth of Forest Stands:** Simulation of early regeneration processes in mixed species forests of Maine, USA: Germination, survival, and height growth. IUFRO meeting, Copenhagen, Denmark. June 10-13, 1996.
 - (14) **Simulating the effects of Vegetation Structure on Tree-seedling Spatial Patterns in a Tsuga-hardwood Forest.** IUFRO XX World Congress, Tampere, Finland. August 6-12, 1995.
 - (15) **Spatial Stochastic Models in Forestry:** Horizontal structure of uneven-aged mixed-species forests modeled as an inhomogeneous Poisson process. IUFRO meeting, Thessaloniki, Greece. May 1993.
 - (16) **Modeling Stand Responses to Silvicultural Practices:** Branch size response to nitrogen fertilization in young Douglas-fir. IUFRO meeting, VPI&SU, Blacksburg, VA. September 27-October 1, 1993.
 - (17) **XIX IUFRO World Congress:** Simulating branch diameter and branch distribution in young Douglas-fir. August 5-10, 1990. Montreal, Canada.
 - (18) **IUFRO Forest Growth Modelling and Prediction Conference:** Prediction of branch diameter and branch distribution for Douglas-fir in southwestern Oregon. August 24-28, 1987. Minneapolis, MN.
 - (19) **IUFRO Forest Growth Modelling and Prediction Conference:** The Pacific Northwest Stand Management Cooperative and its field installation design. August 24-28, 1987. Minneapolis, MN.
 - (20) **IV International Congress of Ecology Poster Session:** A technique for dating branch mortality and estimating branch biomass input from individual trees. August 10-16, 1986. Syracuse, NY.
 - (21) **IUFRO Meeting Poster Session:** A technique for dating branch mortality and estimating crown recession on temporary growth plots. September 23-27, 1985. Durham, NH.

Meetings of Center for Intensive Planted-forest Silviculture (CIPS)

- (1) Planted Forest Forum, Salem Conference Center, Salem, OR. February 8, 2007.
- (2) CIPS Steering Committee Meeting, OSU campus, Corvallis, OR. March 21, 2007.
- (3) CIPS Steering Committee Meeting, Gifford Pinchot NF, Vancouver, WA. June 11, 2007.
- (4) CIPS Steering Committee Meeting, World Forestry Center, Portland, OR. July 26, 2007.
- (5) CIPS Steering Committee Meeting, World Forestry Center, Portland, OR. November 12, 2007.
- (6) CIPS Steering Committee Meeting, Gifford Pinchot NF, Vancouver. December 11, 2007.
- (7) CIPS Steering Committee Meeting, Gifford Pinchot NF, Vancouver. March 13, 2008.
- (8) CIPS Steering Committee Meeting, World Forestry Center, Portland, OR. June 11, 2008.
- (9) CIPS Steering Committee Meeting, North Willamette Research and Extension Center, Aurora, OR. August 6, 2008.
- (10) CIPS Steering Committee Meeting, OSU campus, Corvallis, OR. July 22, 2009.
- (11) CIPS Steering Committee Meeting, World Forestry Center, Portland, OR. August 4, 2010.
- (12) CIPS Steering Committee Meeting, Water Resources Learning Center, Vancouver, WA. August 24, 2011.
- (13) CIPS Technical Review, OSU Campus. May 3, 2012.
- (14) CIPS Steering Committee Meeting, North Willamette Research and Extension Center, Aurora, OR. June 7, 2012.
- (15) CIPS Technical Review, OSU Campus. February, 2013.
- (16) CIPS Steering Committee Meeting, Heathman Lodge, Vancouver, WA. June 27, 2013.
- (17) CIPS Steering Committee Meeting, OSU campus, Corvallis, OR. December 12, 2013.
- (18) CIPS Technical Review, OSU Campus. March 19, 2014.
- (19) CIPS Steering Committee Meeting, Water Resources Learning Center, Vancouver, WA. June 18, 2014.
- (20) CIPS Technical Review, OSU Campus. February 25, 2015.
- (21) CIPS Steering Committee Meeting, Water Resources Learning Center, Vancouver, WA. June 17, 2015.
- (22) CIPS Technical Review, OSU Campus. February 24, 2016.
- (23) CIPS Steering Committee Meeting, OSU Forestry Club Cabin, Corvallis, OR. June 15, 2016.

Regional Meetings, Workshops, and Seminar Series

- (1) **Silviculture Seminar:** Indian Silviculture in West Bengal: The Status of Growth and Yield Information. Department of Forest Resources, Oregon State University, Corvallis, OR. October, 1997.
- (2) **A strategy for modeling early regeneration processes in mixed species forests.** 1994 Quaternary Symposium, Orono, Maine. May, 1994.
- (3) **Western Mensurationists Meeting: Simulating branch diameter and branch distribution in Douglas-fir.** June 26-28, 1991. Orcas Island, WA.
- (4) **1988 Western Mensurationists Meeting:** Characterizing branch distribution in young planted Douglas-fir to predict log attributes. June 16-17, 1988. Port Townsend, WA.
- (5) **Forest Science Seminar:** Predicting cross-sectional sapwood area at crown base from breast height sapwood area in Douglas-fir. October 22, 1984. Oregon State University, Corvallis, OR.
- (6) **Forest Management Seminar:** A technique for dating branch mortality and estimating crown recession rates on temporary plots. February 23, 1984. Oregon State University, Corvallis, OR.

Posters

- (1) **IUFRO meeting on Applied Forest Ecological Experiments:** Ecological responses to variable-retention harvesting in Douglas-fir forests: Synthesis and integration (D.A. Maguire, S.I. Canavan, C.B. Halpern, K.B. Aubry, and C.E. Peterson). Davos, Switzerland. August 5-7, 2003.
- (2) **IUFRO meeting on Balancing Ecosystem Values: Innovative Experiments for Sustainable Forestry:** Predicting understory light availability based on neighborhood height data derived from vertical point sampling in mature Douglas-fir forests in the Western Cascades (N. Davis and D.A. Maguire). Portland, Oregon. August 15-20, 2004.

TEACHING (since 1996)

FOR 322 (3 cr)	Forest Models
FOR 321 (5 cr)	Forest Mensuration
FS 543 (4 cr)	Advanced Silviculture
FOR 507 (1 cr)	Topics in Silviculture
FS 507 (1 cr)	Forest Science Seminar (S 98)
FS 507 (1 cr)	Forest Science Seminar (W 03)
FOR 407/507 (1 cr)	Starker Lecture Series
FOR 505 (2 cr)	Mechanistic Models of Forest Growth
OSPA 488/588 (6 cr)	Forest Resources Management in Spain and Its Cultural, Political and Biophysical Context
FOR 549 (3 cr)	Silvicultural Influences on Forest Ecosystem Dynamics

EXTENSION/OUTREACH/TECHNOLOGY TRANSFER

Workshops Organized

Center for Intensive Planted-forest Silviculture (CIPS): BLM workshop on running ORGANON/CIPSANON through CIPSR. BLM Salem District Office, Salem, OR, October 21, 2014.

Center for Intensive Planted-forest Silviculture (CIPS): BLM field trip to Black Rock thinning trials. Black Rock, OR, October 20, 2014.

Center for Intensive Planted-forest Silviculture (CIPS): Workshop on running ORGANON through XORG and through CIPSR. 107 Richardson Hall, OSU campus, Corvallis, OR, March 18, 2014.

Intensive Silviculture of Planted Douglas-fir Forests: Opportunities for Increased Productivity. Stand density management of Pacific Northwest forests. Lloyd Center, Portland, OR. February 15, 2011.

Forest Growth and Timber Quality: Crown models and simulation methods for sustainable forest management. Portland, OR, August 7-10, 2007. (Organizing Committee).

Mixed Species Management: Silviculture, Pests, and Harvesting Plans. Sandy, OR, July 8, 2006.

Ponderosa Pine: Management, Issues and Trends. Klamath Falls, OR, October 19-21, 2004. (Co-organizer with Martin Ritchie of PSW Res. Sta., Andy Youngblood of PNW Res. Sta., and Stephen Fitzgerald of OSU)

Balancing Ecosystem Values: Innovative Experiments for Sustainable Forestry. Portland, OR, August 15-20, 2004. (co-organized with Charley Peterson of PNW Res. Sta.)

Creating Fire-resilient Landscapes. Medford, OR, March 8-12, 2004. (co-organizer)

Intensive Plantation Forestry in the Pacific Northwest. Portland, OR, January 20-22, 2004. (served on organizing committee)

Presentations at Workshops

- (1) Silviculture and Commercial Thinning – The Science of tree and stand growth. At Washington Department of Natural Resources Workshop - Advanced Silviculture: Commercial Thinning for Revenue, November 9-10, 2015, Sedro Woolley, Washington. (~20 DNR practicing foresters)
- (2) Douglas-fir basal area growth response to fertilization. At Stimson Lumber Company staff meeting, September 27, 2015, Forest Grove, OR. (~10 Stimson foresters)
- (3) Douglas-fir volume growth response to fertilization. At Stimson Lumber Company staff meeting, December 17, 2015, Forest Grove, OR. (~10 Stimson foresters)
- (4) Thinning during the understory re-initiation stage. BLM/ODF Thinning Workshop. Silver Falls, OR. February 25, 2009.
- (5) Thinning during the understory re-initiation stage. BLM/ODF Thinning Workshop. Silver Falls, OR. October 22, 2008.
- (6) Thinning during the understory re-initiation stage. BLM/ODF Thinning Workshop. Silver Falls, OR. February 27, 2008.
- (7) Use of the ORGANON growth model. BLM/ODF Thinning Workshop. Silver Falls, OR. February 27, 2008.
- (8) Building silvicultural experiments that will remain relevant for 100 years. 2007 SAF National Convention, Portland, OR. October 24, 2007.
- (9) Long-term thinning plots and mixed species plantations at Black Rock Experimental Forest. Master Woodland Managers Mini-College. Black Rock, OR. August 25, 2007.
- (10) Mixed species management - principles. Tree School. Oregon City, OR. March 24, 2007.
- (11) Mixed species management - applications. Tree School. Oregon City, OR. March 24, 2007.
- (12) Stand development and responses to thinning. Washington DNR workshop on Thinning, Raymond, WA. March 12, 2007.
- (13) Mixed species management - principles. Tree School. Oregon City, OR. March, 2006.
- (14) Mixed species management - applications. Tree School. Oregon City, OR. March, 2006

- (15) Stand density management. Tree School South. Roseburg, OR. June 16, 2005.
- (16) Intensive silviculture of Eastside forests; stand density management and fertilization. Baker County Small Woodlands Association. Baker City, OR. April 21, 2005.
- (17) Managing mixed species stands. Clackamas County Extension workshop. Oregon City, OR. April 30, 2005.
- (18) Washington County Small Woodlands Association Annual Meeting. Hillsboro, OR. November 18, 2003.
- (19) Yamhill County Oregon Small Woodlands Association Meeting: The Edmund Hayes Endowment for silvicultural alternatives. McMinnville, OR. March 26, 2003.

SERVICE

Professional

- 1) Faculty Advisor to OSU Student Chapter of Society of American Foresters, 2017-present.
- 2) OFRI Working Group for Special Report on Silvicultural Systems, 2016-2017.
- 3) Section Editor, 2011-2016. *Forest Systems*.
- 4) Newsletter Editor, Capital Chapter, Oregon Society of American Foresters, 2009-2011.
- 5) Reviewer for *Forest Science*, *Canadian Journal of Forest Research*, *Annals of Forest Science*, *Ecology*, *European Journal of Forest Research*, *Forest Ecology & Management*, *Western Journal of Applied Forestry*, *Journal of Forestry*, *Trees: Structure and Function*, *Ecological Modelling*, *International Journal of Biometeorology*, *New Zealand Journal of Forestry Sciences*, *Silva Fennica Forestry*, *American Naturalist*
- 6) Editorial Review Board, 1992-1994, *Forest Ecology and Management*.
- 7) Chair-elect, Biometrics Working Group, 1992-1994, Society of American Foresters.
- 8) Chair, Biometrics Working Group, 1994-1996, Society of American Foresters.
- 9) Guest Associate Editor, 1997, *Forest Science*
- 10) Co-Chair, Publicity Committee, 1995 SAF National Convention, Portland, Maine.

Public

- (1) Outdoor School, Ash Creek School, Monmouth-Independence, OR, April 17, 2003.
- (2) Sustainable Forestry Initiative Audit: Boise Cascade, 2001.
- (3) Sustainable Forestry Initiative Audit: Stimpson Timber Company, 2001.
- (4) Board of Directors, Camp Fire USA – Willamette Council, Salem, OR. March 2001 – present.
- (5) Summit Fire Restoration Plan review, Malheur National Forest. April, 1997.
- (6) Ochoco Foss Perkins Timber Sale review. April, 1997.
- (7) Growth and Yield Consultant for World Bank Forestry Project in West Bengal, India. May 2-18, 1997 (Paid consultancy).
- (8) Representative to the United Fund Drive, Forest Resources Management Division, College of Forest Resources, University of Washington, 1989-92.
- (9) Faculty Advisory Committee, Washington Timber Supply Study, 1991-93.
- (10) USDA-Forest Service Silvicultural Certification Panelist, Region 6, 1990-93.
- (11) Position Statement on the Structure of a Growth & Yield Model for *Pinus radiata* in Chile. Fundacion Chile, January, 1992-93 (Paid consultancy).
- (12) Growth and Yield Consultant for USAID Project in Sind, Pakistan. September-November, 1987 (Paid consultancy).

University

Oregon State University

- (1) Chair, College Promotion and Tenure Committee, 2016-present

- (2) International Programs Advisory Committee, 2011-present.
- (3) Dilworth Committee, 1999-present.
- (4) Associate Dean for Research Search Committee, 2015-2016.
- (5) College of Forestry Tenure & Promotion Committee, 2015-2016.
- (6) Tenure & Promotion Committee; Forest Engineering, Resources, & Mgt Dept, 2014-2015.
- (7) Forest Regeneration Search Committee, 2014-15.
- (8) Starker Lecture Committee, 2008-2014.
- (9) Tenure & Promotion Committee; Forest Engineering, Resources, & Mgt Dept, 2013-2014.
- (10) Forest Ecosystems and Society Department Head Search Committee, 2013.
- (11) Forest Operations Search Committee, 2013.
- (12) Chair, Forest Soils Search Committee, 2012.
- (13) Forest Resources Graduate Program Fellowship Subcommittee, 2009-2012.
- (14) Leader of Silviculture Theme Team, 2006-2008.
- (15) Stand Management Cooperative Strategic Planning Committee, 2006-2007.
- (16) OSU representative to Stand Management Cooperative, 2003 – present.
- (17) OSU representative to Douglas-fir Levels-of-Growing-Stock Cooperative, 2000 - present.
- (18) Academic Freedom and Responsibility Committee, 2006.
- (19) Planning Committee, Annual Forestry Extension Planning Meeting, 2004.
- (20) College of Forestry Promotion and Tenure Committee, 2003-2004.
- (21) Department of Forest Science Scholarship Committee, 2003- 2005.
- (22) Faculty Senate, 2003 – 2004.
- (23) Steering Committee, Intensive Plantation Management Symposium, Coll. of Forestry, 2003.
- (24) Intensive Forestry Research Advisory Committee, 2002 – 2004.
- (25) Forestry Computing Committee, College of Forestry, 2001.
- (26) Search Committee for Forest Science Silviculture Position. Spring, 2000.
- (27) Forest Science Curriculum Review Committee, Forest Resources representative, 2000.
- (28) Adjunct Faculty, Department of Forest Resources, 2001-2007.
- (29) Promotion and Tenure Committee, Department of Forest Resources, 1999-2000.
- (30) Adjunct Faculty, Department of Forest Science, OSU, Corvallis, OR. 1997-2000.
- (31) Search Committee for Forest Resources Administrative Assistant, December, 1997.
- (32) Oberteuffer Tract management review. June, 1997.
- (33) Participant in developing proposal for Research Center under the authority of the Fund for Rural America, Spring 1997.
- (34) Judge at 1997 Conclave (Western U.S. Logging Sports Competition), April, 1997.
- (35) Faculty Advisor to the Student Chapter of the Society of American Foresters, 1996-2000.

University of Maine

- (1) Forest Ecosystem Science Curriculum Committee. University of Maine. 1995-96.
- (2) Advisory Committee for Forest Ecosystem Research Project, College of Natural Resources, University of Maine. September 1995 - July 1996.
- (3) Chair, Cooperative Forestry Research Unit Peer Review Committee, University of Maine. 1994.
- (4) Mission Statement Committee, Department of Forest Ecosystem Science, University of Maine. 1993-94.
- (5) Graduate Board, University of Maine. 1993-94.
- (6) Secretary-Treasurer, Forestry-Wildlife Alumni Association, 1993-96.
- (7) Cooperative Forest Research Unit Search Committee, 1995-96.
- (8) Saunders Chair Professorship Committee, 1994-95.
- (9) Pierce-Webber Research Awards Committee, 1995-96.
- (10) Scholarship Committee, 1995-96.
- (11) FES Homepage Committee, 1995-96.

University of Washington

- (1) Faculty Senate, University of Washington, 1988-89.
- (2) College Lands Policy Committee, College of Forest Resources, 1988-93.
- (3) Undergraduate Curriculum Committee, Division of Forest Resources Management, College of Forest Resources, University of Washington, 1988-90.
- (4) Graduate Curriculum Committee, College of Forest Resources, University of Washington, 1988-93; Chair, 1991-93.
- (5) Pack Spring Camp Task Force, College of Forest Resources, University of Washington, 1987-89.
- (6) McIntire-Stennis Committee, College of Forest Resources, University of Washington, 1988-91.

PROFESSIONAL SOCIETIES

Society of American Foresters, 1976-present.
Ecological Society of America, 1977-present.

AWARDS

2016 Research Award, Oregon Society of American Foresters, plaque.
2012 Research Award, Oregon Society of American Foresters, plaque.
2010 Best Speaker Award, Western Mensurationists Meeting, plaque.
2009 Xi Sigma Pi Mentor Award, plaque.
2001 Research Award, Oregon Society of American Foresters, plaque.
1997 Aufderheide Award for Best Teacher, Oregon State University, \$1000.
1989 Burlington Northern Award for Teaching Excellence, University of Washington, \$2500.