Anthony S. Davis, PhD
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203C College of Natural Resources Building

Academic Credentials

Current Position

- **Assistant Professor** of Native Plant Regeneration and Silviculture, and
  Director, Center for Forest Nursery and Seedling Research
  Department of Forest, Rangeland, and Fire Sciences, College of Natural Resources
  Adjunct Assistant Professor, Environmental Science Program: Biological Sciences Division
  University of Idaho, Moscow, Idaho, USA

Education

- **Ph.D.** and **van Eck Scholar,** Purdue University, West Lafayette, IN, USA. December 2006.
  Dissertation: Photoperiod manipulation during nursery culture: Effects on *Quercus rubra* seedling development and responses to environmental stresses following transplanting
  Major Professor: Dr. Douglass F. Jacobs
- **M.S.** Purdue University, West Lafayette, IN, USA. December 2003
  Thesis: Performance of northern red oak under adverse conditions
  Major Professor: Dr. Douglass F. Jacobs
- **BSc.F.** University of New Brunswick, Fredericton, NB, Canada. May 2001
  Advisor: Dr. Tom Beckley

Professional Experience

Teaching

Department of Forest Resources, University of Idaho

- Instructor. Forest Regeneration (FOR 324). Fall 2007, Spring 2008-2012
- Instructor. Native Hawaiian Culture and Ecology (NR 204, NR 404). Spring 2012
- Instructor. Current Topics in Regeneration and Restoration (FOR 555). Fall 2010
- Instructor. Target Plant Concept (FOR 504). Summer 2008, Fall 2009

Faculty of Forestry and Environmental Management, University of New Brunswick

- Guest Instructor. International Forestry Studies: Hawaiʻi (FOR 5973). Spring 2010

Department of Forestry and Natural Resources, Purdue University

- Instructor. Principles of Silviculture (FNR 339). Fall 2005, 2006

Department of Horticulture and Landscape Architecture, Purdue University

- Instructor. Nursery Crops (HORT 411). Fall 2004

Lectures and Seminars

College of Natural Resources, University of Idaho

- Guest Lecturer. Wildand Restoration Ecology (REM 440). Spring 2011
- Guest Lecturer. Riparian Ecology and Management (FISH 430). Spring 2010
- Guest Lecturer. Ethnobotany (REM 404). Spring 2010
- Speaker. High Impact Science in Natural Resource Ecosystem Sciences (FOR 501). Fall 2009

Core Discovery Program, University of Idaho

- Guest Lecturer. The Earth and our place on it (CORE 125). Fall 2009, Spring 2011

Environmental Science Program, University of Idaho

- Guest Lecturer (multiple lectures). Field Activities in Environmental Science (ENVS102). Fall 2009

Department of Forestry and Natural Resources, Purdue University

- Guest Lecturer. Tree Physiology (FNR 434). 09/2006; Freshman Seminar (FNR 196). 11/2004

Research

Journal publications

1. Herriman, K.R. and **A.S. Davis**. 2012. Cold hardiness in Wyoming big sagebrush seedlings: implications for nursery production and outplanting. *Ecological Restoration* 30: 101-103
2. Pinto, J.R., Marshall, J.D., Dumroese, R.K., **Davis, A.S.** and D. Cobos. 2012. Photosynthetic response, carbon isotopic composition, survival, and growth of three stocktypes under water stress enhanced by vegetative competition. *Canadian Journal of Forest Research* 42: 333-344
3. Keefe, R.F. and **A.S. Davis**. 2012. Marked, biased, filter (MBF): use of digital X-radiography and mark-recapture to partition seed lots based on sampled individual seed quality attributes. *New Forests* 43: 169-184
4. Burney, O.T., **A.S. Davis**, and D.F. Jacobs. 2012. Phenology of foliar and volatile terpenoid production for *Thuja plicata* families under differential nutrient availability. *Environmental and Experimental Botany* 77: 44-52
5. Robertson, N.D. and **A.S. Davis**. 2012. Influence of sulfometuron methyl on seedling morphology and leaf function of three conifer species. *New Forests* 32: 185-195
6. Kildisheva, O.A., R.K. Dumroese, and **A.S. Davis**. 2011. Overcoming dormancy and enhancing germination of *Sphaeralcea munroana* seeds. *HortScience.*
7. **Davis, A.S.**, A.L. Ross-Davis, and R.K. Dumroese. 2011. Nursery culture impacts cold hardiness in longleaf pine seedlings. *Restoration Ecology* 19: 717-719
8. Pinto, J.R., R.K. Dumroese, **A.S. Davis,** and T.D. Landis. 2011. A new approach to conducting stock type studies. *Journal of Forestry* 109: 293-299
9. **Davis, A.S.**, M.M. Aghai, J.R. Pinto, and K.G. Apostol. 2011. Growth, gas exchange, and nutrient uptake of subirrigated and overhead irrigated *Populus tremuloides* seedlings. *HortScience* 46:1249–1253
10. Schmal J.L., **A.S. Davis**, R.K. Dumroese, J.R. Pinto, and D.F. Jacobs. 2011. Subirrigation for production of native plants in nurseries – concepts, current knowledge, and implementation. *Native Plants Journal* 12: 81-93
11. **Davis, A.S.**, J.R. Pinto, and D.F. Jacobs. 2011. Early field performance of *Acacia koa* seedlings grown under subirrigation and overhead irrigation. *Native Plants Journal* 12: 94-99
12. Pinto, J.R., J.D. Marshall, R.K. Dumroese, **A.S. Davis,** and D. Cobos. 2011. Establishment and growth of container seedlings for reforestation: a function of stock type and edaphic conditions. *Forest Ecology and Management* 261: 1876-1884
13. Dumroese, R.K., **A.S. Davis**, and D.F. Jacobs. 2011. Nursery response of *Acacia koa* seedlings to container size, irrigation method, and fertilization rate. *Journal of Plant Nutrition* 34: 877-887
14. Robertson, N.D. and **A.S. Davis.** 2011. Influence of sulfometuron methyl on American chestnut seedling growth and leaf function. *Northern Journal of Applied Forestry* 28: 36-40
15. Keefe, R.F. and **A.S. Davis**. 2010. Modeling individual conifer seed shape as a sum of fused partial ellipsoids. *Canadian Journal of Forest Research* 40: 2175-2186
16. Morrissey, R.C., D.F. Jacobs, **A.S. Davis**, and R.A. Rathfon. 2010. Survival and competitiveness of juvenile *Quercus rubra* associated with stocktype and harvest opening intensity. *New Forests* 40: 273-287
17. Eitel, J.U.H., R.F. Keefe, D.S. Long, **A.S. Davis**, and L. Vierling. 2010. Active ground optical remote sensing for improved monitoring of seedling stress in nurseries. *Sensors* 10: 2843-2850
18. Woolery, P.O., J.L. Schmal, and **A.S. Davis**. 2010. Evaluation of chlorophyll fluorescence as an indicator of dehydration stress in American chestnut seedlings. *Native Plants Journal* 11: 27-30
19. Jacobs, D.F., K.F. Salifu and **A.S. Davis**. 2009. Drought susceptibility and recovery of transplanted *Quercus rubra* seedlings in relation to root system morphology. *Annals of Forest Science* 66: 504-516
20. Dumroese, R.K., D.F. Jacobs, and **A.S. Davis**. 2009. Inoculating *Acacia koa* with *Bradyrhizobium* and applying fertilizer in the nursery: effects on nodule formation and seedling growth. *HortScience* 44: 443-446
21. Jacobs, D.F., B.C. Wilson, A.L. Ross-Davis, and **A.S. Davis**. 2008. Cold hardiness and transplant response of *Juglans nigra* seedlings subjected to alternative storage regimes. *Annals of Forest Science* 65: 606-610

22. Jacobs, D.F., **A.S. Davis**, B.C. Wilson, R.K. Dumroese, R.C. Goodman, and K.F. Salifu. 2008. Short-day treatment alters Douglas-fir seedling dehardening and transplant root proliferation at varying rhizosphere temperatures. *Canadian Journal of Forest Research* 38: 1526-1535.
23. **Davis, A.S.** and M.-M. Gauthier. 2008. Portable refrigerator/freezer provides stable temperature for plant material collection. *Native Plants Journal* 9: 40-44.
24. **Davis, A.S.**, D.F. Jacobs, R.P. Overton, R.K. Dumroese. 2008. Influence of irrigation method and container type on *Quercus rubra* seedling growth and media electrical conductivity. *Native Plants Journal* 9: 4-13.
25. **Davis, A.S.**, D.F. Jacobs and K.E. Wightman. 2007. Organic matter amendment of fallow forest tree seedling nursery soils influences soil properties and biomass of a sorghum cover crop. *Tree Planters' Notes* 52: 2-6.
26. **Davis, A.S.**, D.F. Jacobs, K.E. Wightman, and Z.D. Birge. 2006. Organic matter added to bareroot nursery beds influences soil properties and morphology of *Fraxinus pennsylvanica* and *Quercus rubra* seedlings. *New Forests* 31: 293-303.
27. Dumroese, R.K., J.R. Pinto, D.F. Jacobs, **A.S. Davis**, and B. Horiuchi. 2006. Sub-irrigation reduces water use, nitrogen loss, and moss growth in a container nursery. *Native Plants Journal*. 7: 253–261.
28. Salifu, K.F., M.A. Nicodemus, D.F. Jacobs, and **A.S. Davis**. 2006. Vector diagnosis of chemical indices of media for growing *Quercus rubra* seedlings. *HortScience* 41:1342-1346.
29. **Davis, A.S.** and D.F. Jacobs. 2005. Quantifying root system quality of nursery seedlings and relationship to outplanting performance. *New Forests* 30: 295-311.
30. Ross-Davis, A.L., S.R. Broussard, D.F. Jacobs and **A.S. Davis.** 2005. Afforestation motivations of private landowners: An examination of hardwood tree plantings in Indiana. *Northern Journal of Applied Forestry* 22: 149-153.
31. Jacobs, D.F. and **A.S. Davis**. 2005. Genetic considerations in the operational production of hardwood nursery stock in the eastern USA. *Native Plants Journal* 6: 4-13.
32. Jacobs, D.F., A.L. Ross-Davis and **A.S. Davis**. 2004. Establishment success of conservation tree plantations in relation to silvicultural practices in Indiana, USA. *New Forests* 28: 23-36.

Manuscripts in progress

1. **Davis, A.S.** D.J. Regan, and K.G. Apostol. Stocktype influences western white pine seedling size six years after outplanting.
2. Kildisheva, O.A., B.A. Hamze, and **A.S. Davis**. Evaluating dormancy breaking techniques for mamane.
3. Regan, D.J., K.J. Woodruff, and **A.S. Davis**. *In press*. Propagation protocol for mountain huckleberry (*Vaccinium membranaceum*). *Native Plants Journal*.
4. Kildisheva, O.A., R.K. Dumroese, and **A.S. Davis**. Boiled, tumbled, burned, and heated: seed scarification techniques for Munro's globemallow.
5. **Davis, A.S.** and D.F. Jacobs. Response of *Quercus rubra* L. seedlings to drought immediately following planting.
6. Pinto, J.R., Marshall, J.D., Dumroese, R.K., **Davis, A.S.** and D. Cobos. Soil moisture limitations to seedling establishment in the Inland Northwest.
7. **Davis, A.S.** and D.F. Jacobs. Phenology and transplant rooting of *Quercus rubra* seedlings cultured under mid-summer photoperiod manipulation.
8. Kildisheva, O.A. and **A.S. Davis**. Individual and synergistic influence of temperature and moisture on *Sphaeralcea munroana* seedling growth.
9. **Davis, A.S.**, K.R. Herriman, A.L. Ross-Davis, and R.K. Dumroese. Outplanting performance of Wyoming big sagebrush seedlings as affected by container volume and field fertilization.
10. **Davis, A.S.** and D.F. Jacobs. Influence of pH, fertilization, and mycorrhizal inoculation on northern red oak (*Quercus rubra* L.) foliar nutrient status and morphology.
11. **Davis, A.S.**, C.H. Michler, P.E. Pope, R.P. Overton, and D.F. Jacobs. Effects of photoperiod manipulation during nursery culture on hardwood tree seedling morphology and physiological status.

*Conference proceedings (*denotes peer-reviewed)*

1. Kildisheva, O.A. and **A.S. Davis**. *Submitted*. A Review: *Sphaeralcea munroana*, Restoration Potentials and Challenges. Western Forest and Conservation Nursery Association National Proceedings.
2. **Davis, A.S.** and R.F. Keefe. *Submitted*. Nursery cultural practices to achieve targets: a case study in western larch irrigation. Proceedings of the Target Seedling Symposium.
3. Robertson, N.D. and **A.S. Davis**. 2010. Sulfometuron methyl: its use in forestry and potential phytotoxicity. In: Riley LE, Pinto JR, Dumroese RK, technical coordinators. National Proceedings: Forest and Conservation Nursery Associations—2009. Proc. RMRS-P-62. Fort Collins, CO: USDA Forest Service, Rocky Mountain Research Station: 51-58.
4. Keefe R.F. and **A.S. Davis**. 2010. Use of the angled mirror method to estimate three-dimensional seed shape parameters for the seedR model. In: Pendleton R, Meyer S, Shultz S (eds) Proceedings, seed ecology III—the third international society for seed science meeting on seeds and the environment—seeds and change, Salt Lake City, pp 80–81.
5. **Davis, A.S.**, K. Eggleston, J.R. Pinto, R.K. Dumroese. 2009. Evaluation of three growing media substrates for western larch seedling production at the USDA Forest Service Coeur d'Alene nursery. National proceedings, forest and conservation nursery associations—2008. Proc. RMRS-P-58. Fort Collins (CO): USDA Forest Service, Rocky Mountain Research Station: 37-41
6. Herriman, K.R., **A.S. Davis**, and R.K. Dumroese. 2009. Effect of stocktype on sagebrush seedling development following outplanting. National proceedings, forest and conservation nursery associations—2008. Proc. RMRS-P-58. Fort Collins (CO): USDA Forest Service, Rocky Mountain Research Station: 44-47
7. Keefe, R.F., J.U.H. Eitel, D.S. Long, **A.S. Davis**, P.E. Gessler, and A. Smith. 2009. Potential for boom-mounted remote sensing applications in seedling quality monitoring. National proceedings, forest and conservation nursery associations—2008. Proc. RMRS-P-58. Fort Collins (CO): USDA Forest Service, Rocky Mountain Research Station: 48-51
8. Keefe, R.F. and **A.S. Davis**. 2008. Reisenberg's principles revisited: a portable rail system for use in forest operations in sensitive areas. In S.A. Baker, M.C. Bolding, W.D. Greene (Eds): Proceedings of the 31st Annual Meeting of the Council on Forest Engineering: Addressing Forest Engineering Challenges for the Future. Charleston, SC, USA 22-25 July 2008. p. 98-104
9. Salifu K.F., D.F. Jacobs, R.A. Rathfon, **A.S. Davis** and Z.K.D. Birge. 2008. Performance of *Quercus rubra* and *Quercus alba* seedlings on abandoned mine lands in southern Indiana. In Graves D., Angel P., Davis V. and J. Burger, eds., Proceedings of the 2nd Annual Appalachian Regional Reforestation Initiative (ARRI) Workshop.
10. Regan, D.J. and **A.S. Davis**. 2008. Effects of container size and copper treatment on western white pine seedling growth and survival. In: Dumroese RK, Riley LE, technical coordinators. National proceedings, forest and conservation nursery associations—2007. Fort Collins (CO): USDA Forest Service, Rocky Mountain Research Station. Proceedings. RMRS-P-57. p. 104-108.
11. **Davis, A.S.** 2008. Enhancing Forest Nursery Education: Input from the 2007 Meeting. In: Dumroese RK, Riley LE, technical coordinators. National proceedings, forest and conservation nursery associations—2007. Fort Collins (CO): USDA Forest Service, Rocky Mountain Research Station. Proceedings. RMRS-P-57. p. 89-95.
12. Dumroese R.K., D.F. Jacobs, **A.S. Davis**, J.R. Pinto and T.D. Landis. 2007. An introduction to subirrigation in forest and conservation nurseries and some preliminary results of demonstrations. *In*: Riley L.E., R.K. Dumroese and T.D. Landis, technical coordinators. National proceedings, forest and conservation nursery associations—2006. Fort Collins (CO): USDA Forest Service, Rocky Mountain Research Station. Proceedings. RMRS-P-50. p. 20-26.
13. **Davis, A.S.** and D.F. Jacobs. 2007. Tropical afforestation and reforestation strategies to conserve biological diversity and increase global and local benefits. *In*: Proceedings of the IUFRO Conference on Forest Landscape Restoration. Korean Forest Research Institute, Korean Forest Society, USDA Forest Service. 268 p. (abstract)

14. Jacobs, D.F., **A.S. Davis** and R.K. Dumroese. 2007. Nursery cultural techniques to facilitate restoration of koa (*Acacia koa*) competing with exotic kikuyu grass (*Pennisetum clandestinum*) in a dry tropical forest at Pu'u Wa'a Wa'a Hawai'i. *In*: Proceedings of the IUFRO Conference on Forest Landscape Restoration. Korean Forest Research Institute, Korean Forest Society, USDA Forest Service. 268 p. (abstract)
15. Jacobs, D.F., R.A. Rathfon, **A.S. Davis**, D.E. Carlson. 2006. Stocktype and harvest gap size influence northern red oak regeneration success. Gen. Tech. Rep. SRS-92. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station. pp. 247-250.
16. **Davis, A.S.** and D.F. Jacobs. 2005. Afforestation in the Central Hardwood Forest Region of the USA. The Thin Green Line: A symposium on the state-of-the-art in reforestation. 26-28 July 2005. Ontario Forest Research Information Paper No. 160 pp. 45-50.
17. **Davis, A.S.**, B.C. Wilson and D.F. Jacobs. 2004. Effect of seed position and media on germination of black walnut and northern red oak: implications for nursery production and direct-seeding. In Proceedings of the 6th Black Walnut Symposium. West Lafayette, IN, USA 25-28 July 2004. USDA Forest Service North Central Research Station Gen. Tech. Rep. NC-243:31-36.*
18. **Davis, A.S.**, D.F. Jacobs, D.F. and A.L. Ross-Davis. 2004. Success of hardwood tree plantations in Indiana and implications for nursery managers. In: Riley, L.E., Dumroese, R.K. and T.D. Landis, technical coordinators. National Proceedings: Forest and Conservation Nursery Associations-2003. Ogden, UT: USDA Forest Service, Rocky Mountain Research Station. Proceedings RMRS-P-33:107-110.
19. Jacobs, D.F., B.C. Wilson and **A.S. Davis**. 2004. Recent trends in hardwood seedling quality assessment. In: Riley, L.E., Dumroese, R.K. and T.D. Landis, technical coordinators. National Proceedings: Forest and Conservation Nursery Associations-2003. Ogden, UT: USDA Forest Service, Rocky Mountain Research Station. Proceedings RMRS-P-33: 140-144.
20. **Davis, A.S.** and D.F. Jacobs. 2004. First-year survival of northern red oak seedlings planted on former surface coal mines in Indiana. pp. 480-502 In: Barnhisel, R.I., (ed.). Proceedings of a joint conference of American Society of Mining and Reclamation 21st Annual National Conference and 25th West Virginia Surface Mine Drainage Task Force symposium. Morgantown, WV. 18-22 April 2004.*
21. Ross-Davis, A.L., **A.S. Davis**, D.F. Jacobs and S.R. Broussard. 2003. Success of Conservation Tree Plantations in Relation to Landowners' Motivations to Afforest, Ownership Characteristics and Silvicultural Practices. In Forest Science in Practice, Society of American Foresters 2003 National Convention Proceedings, pp. 296-298.

Other publications

1. **Davis, A.S.**, D.F. Jacobs, and R.K. Dumroese. *Forthcoming*. Challenging a paradigm: toward integrating indigenous species into tropical plantation forestry. In: Stanturf and Lamb, eds. Forest Landscape Restoration. Kluwer.
2. **Davis, A.S.** and A.D.L. Brusven. 2011. A guide to seedling selection. University of Idaho Miscellaneous Publication No. 18. 36p.
3. Pavek, P.L.S., J.H. Cane, O.A. Kildisheva, and **A.S. Davis**. 2011. Plant guide for Munro's globemallow (*Sphaeralcea munroana*). USDA Natural Resources Conservation Service. Pullman, WA.
4. **Davis, A.S.** and A.D.L. Brusven. 2010. A guide to seedling selection. University of Idaho Miscellaneous Publication No. 18. 36p.
5. Landis, T.D., J.R. Pinto, and **A.S. Davis**. 2010. Fertigation – injecting soluble fertilizers into the irrigation system. *Great Lakes Christmas Tree Journal* 5: 10-16.
6. Barkley, Y.C., A.D.L. Brusven, R.K. Dumroese, D.L. Wenny, and **A.S. Davis**. 2010. Planning and planting a five-row windbreak. Idaho Forestry, Wildlife and Range Experiment Station Bulletin No. 91. 4p.
7. **Davis, A.S.** and A.D.L. Brusven. 2009. A guide to seedling selection. University of Idaho Miscellaneous Publication No. 18. 36p.
8. **Davis, A.S.** 2008. UNB Forestry and me: Career-forming education and my vision for the future. Forestry Chronicle 84: 610-612.

9. **Davis, A.S.** and A.D.L. Brusven. 2008. A guide to seedling selection. University of Idaho Miscellaneous Publication No. 18. 32p.
10. **Davis, A.S.** and B.C. Wilson. 2008. *Fagus*. In: Janick, J. and Paull, R. (eds.). Encyclopedia on Fruits and Nuts. CABI. London, UK. 900 p.
11. Wilson, B.C. and **A.S. Davis**. 2008. *Quercus*. In: Janick, J. and Paull, R. (eds.). Encyclopedia on Fruits and Nuts. CABI. London, UK. 900 p.
12. **Davis, A.S.**, A.D.L. Brusven, R.K. Dumroese, and D.L. Wenny. 2007. A guide to seedling selection. University of Idaho Miscellaneous Publication No. 18. 40p.
13. **Davis, A.S.** 2006. Photoperiod manipulation during nursery culture: Effects on *Quercus rubra* seedling development and responses to environmental stresses following transplanting. Ph.D. Dissertation. Purdue University, West Lafayette, IN, USA. 160p.
14. **Davis, A.S.** and D.F. Jacobs. 2006. Interrelationship of seedling dormancy status and root zone temperature of three northern California conifer species. Sierra Cascade Intensive Forest Management Cooperative Final Report. 12p.
15. Ross-Davis, A.L, D.F. Jacobs and **A.S. Davis**. 2003. Conservation tree plantations: Success in relation to ownership characteristics, motivations to afforest, and silvicultural practices. Indiana Forester 23(3):2.
16. **Davis, A.S.** 2003. Performance of northern red oak (*Quercus rubra* L.) under adverse conditions. M.S. Thesis. Purdue University, West Lafayette, IN, USA. 110p.

Professional presentations (denotes poster)*

1. Keefe, R.F., Z. Holden, and **A.S. Davis**. Coupling FASST and FVS to Simulate Climate and Silvicultural Impacts on Seasonal Operability and Logging Equipment Terramechanics. Fourth Forest Vegetation Simulator Conference, Ft. Collins, CO, 17-19 April 2012
2. **Davis, A.S.**, O.A. Kildisheva, and E.C. Overton. Performance of Sagebrush and Globemallow Seedlings Under Adverse Conditions. Great Basin Native Plant Selection and Increase Project Annual Meeting, Salt Lake City, UT, USA, 21-22 February 2011. (invited)
3. Kavanagh, K., **A.S. Davis**, P. Gessler, H. Hess, T. Link, B. Newingham, A. Smith, Z. Holden, and P. Robinson. Development of a smart 3D wireless sensor network for terrain-climate research in remote mountainous environments. 2011 AGU Fall Meeting, San Francisco, California, USA, 5-9 December 2011.*
4. **Davis, A.S.** and J.R. Pinto. Subirrigation: principles and simple application for Lebanese nurseries. 2011 Lebanon Native Tree Nursery Workshop. Ramlieh, Lebanon. 15-17 November 2011. (invited)
5. **Davis, A.S.**, R.K. Dumroese, J.R. Pinto, and T.D. Landis. Producing target seedlings to optimize outplanting success. 2011 Lebanon Native Tree Nursery Workshop. Ramlieh, Lebanon. 15-17 November 2011. (invited)
6. **Davis, A.S.** An overview of nursery practices. 2011 Lebanon Native Tree Nursery Workshop. Ramlieh, Lebanon. 15-17 November 2011. (invited)
7. Aghai, M.M., J.R. Pinto, and **A.S. Davis**. Optimizing nursery production of *Acacia koa*, *Artemisia tridentata* and *Larix occidentalis*. Society of American Foresters National Convention. Honolulu, Hawaii, USA. 2-6 November 2011.
8. Pinto, J.R., J. Leary, **A.S. Davis**, and M. Robinson. Site preparation of abandoned montane rangelands in Hawaii. Society of American Foresters National Convention. Honolulu, Hawaii, USA. 2-6 November 2011.
9. Miller, J.B., J.E. Stewart, A.L. Ross-Davis, and **A.S. Davis**. A molecular approach to assess ponderosa pine genetic diversity. Society of American Foresters National Convention. Honolulu, Hawaii, USA. 2-6 November 2011.*
10. Pinto, J.R., R.K. Dumroese, **A.S. Davis**, and J.D. Marshall. Soil moisture limitations to seedling establishment in the Inland Northwest. Society of American Foresters National Convention. Honolulu, Hawaii, USA. 2-6 November 2011.

11. McNassar, B.M., G.J. Kleinknecht, G., M.M. Aghai, and **A.S. Davis**. Modifying stocktypes for inland northwest conifer production. Society of American Foresters National Convention, Honolulu, HI, USA, 2-6 November 2011.
12. Pinto, J.R., R.K. Dumroese, **A.S. Davis**, and J.D. Marshall. Photosynthetic response, survival and growth of seedlings under water stress. Society of American Foresters National Convention. Honolulu, Hawaii, USA. 2-6 November 2011.
13. Kildisheva, O.A., B. Hamzeh, and **A.S. Davis**. A hard seed to crack: evaluating dormancy breaking techniques for mamane. Society of American Foresters, Honolulu, HI, USA, 2-6 November 2011.
14. Overton, E.C. and **A.S. Davis**. Enhancing native plant seedling handling practices using forest nursery methods. Society of American Foresters National Convention, Honolulu, HI, USA, 2-6 November 2011.
15. Pinto J.R. and **A.S. Davis**. Subirrigation for native plant production. Intermountain Container Seedling Growers' Association Meeting, Moscow, ID, USA, 3-5 October 2011. (invited)
16. Kildisheva, O.A. and **A.S. Davis**. Tricking nature for nature's sake: Alternative methods for breaking seed dormancy. Intermountain Container Seedling Growers' Association Meeting, Moscow, ID, USA, 3-5 October 2011. (invited)
17. McNassar, B.M., Kleinknecht, G., Aghai, M.M. and **A.S. Davis**. Modifying stocktypes for inland northwest conifer production. Intermountain Container Seedling Growers' Association Meeting, Moscow, ID, USA, 3-5 October 2011. (invited)
18. **Davis, A.S.** Seedling selection to facilitate forest restoration success. IUFRO Conference on Restoring Forests: Advances in Techniques and Theory, Madrid, Spain, 27-29 September 2011 (invited).
19. Pinto, J.R., J.D. Marshall, R.K. Dumroese, **A.S. Davis**, and D.R. Cobos. Seedling establishment: photosynthetic response, survival, and growth of three stocktypes under water stress enhanced by vegetative competition. IUFRO Conference on Restoring Forests: Advances in Techniques and Theory, Madrid, Spain, 27-29 September 2011.
20. Pinto, J.R., J.D. Marshall, R.K. Dumroese, **A.S. Davis**, and D.R. Cobos. Soil moisture limitations to seedling establishment. IUFRO Conference on Restoring Forests: Advances in Techniques and Theory, Madrid, Spain, 27-29 September 2011.*
21. Overton, E.C., J. Brown, J.R. Pinto, and **A.S. Davis**. Cold storage of sagebrush seedlings: implications for native plant management. 11th Intertribal Nursery Council Meeting, Temecula, CA, USA, September 2011 (invited).
22. **Davis, A.S.** Directions for nursery education: opportunities for Native American students. 11th Intertribal Nursery Council Meeting, Temecula, CA, USA, September 2011 (invited).
23. **Davis, A.S.** Seedling selection for restoration success in temperate forests. Society for Ecological Restoration 2011 World Conference on Ecological Restoration, Merida, Mexico, 21-25 August 2011 (invited).
24. Aghai, M.M., J.R. Pinto and **A.S. Davis**. Improved nursery production efficiency through alternative stocktypes. Western Forest and Conservation Nursery Association Annual Meeting. Denver, Colorado, USA. 16-18 August 2011. (invited)
25. Kildisheva, O.A., and **A.S. Davis**. Restoration strategies for a native perennial: investigating seed dormancy and seed physiology of Munro's globemallow. Western Forest and Conservation Nursery Association Annual Meeting. Denver, CO, USA, 17 August 2011. (invited)
26. **Davis, A.S.**, O.A. Kildisheva, M.M. Aghai, B. Hamzeh, and J.R. Pinto. Enhancing nursery production of mamane and koa. 2011 Hawai'i conservation conference. 3 August 2011. (invited)
27. **Davis, A.S.** Site preparation and tree planting. 2011 Family Forest Landowners Conference, Moscow, ID, 21-23 March 2011. (invited)
28. Keefe, R.F. and **A.S. Davis**. Precision conifer seed quality assessment using digital x-radiography. Inland Empire Tree Improvement Cooperative Annual Meeting, Coeur d'Alene, ID, USA, 9 March 2011. (invited)
29. Burney, O.T., D.F. Jacobs, and **A.S. Davis**. Browsing patterns relative to western red-cedar terpenoid production. Inland Empire Reforestation Council, Coeur d'Alene, ID, USA, 8 March 2011. (invited)

30. Aghai, M.M., J.R. Pinto, and **A.S. Davis**. Exploring new stocktypes for the Inland Northwest. Inland Empire Reforestation Council, Coeur d'Alene, ID, USA, 8 March 2011. (invited)
31. Pinto J.P., J. Leary, **A.S. Davis**, M. Robinson. Site preparation techniques in the abandoned montane rangelands of Hawaii. Western Society of Weed Science, Annual Meeting, Spokane, WA, USA, 8 March 2011.
32. **Davis, A.S.**, R.K. Dumroese, J. Leary, D.F. Jacobs, T.D. Landis, and J.R. Pinto. Handle with care: seedling considerations during drought. Nāhelehele Dryland Forest Symposium, Kona, HI, USA, 25 February 2011. (invited)
33. Kildisheva, O.A. and **A.S. Davis**. Munro's Globemallow: Improved Germination Achieved Through Non-traditional Scarification. Great Basin Native Plant Selection and Increase Project Annual Meeting, Salt Lake City, UT, USA, 22-23 February 2011. (invited)
34. Keefe R.F. and **A.S. Davis**. Use of digital X-radiography to assess seed quality in conifer seeds. 31st Intermountain Container Seedling Growers' Association Meeting, McCall, ID, USA, 5-6 October 2010. (invited)
35. Kildisheva, O. A. and **A.S. Davis**. Munro's globemallow: improved germination achieved through non-traditional scarification. 31st Intermountain Container Seedling Growers' Association Meeting, McCall, ID, USA, 5-6 October 2010 (invited).
36. Aghai, M.M., J.R. Pinto, and **A.S. Davis.** Influence of container depth on sagebrush and western larch seedling morphology. 31st Intermountain Container Seedling Growers' Association Meeting, McCall, ID, USA, 5-6 October 2010. (invited)
37. Overton, E.C. and **A.S. Davis**. Cold hardiness testing in sagebrush. 31st Intermountain Container Seedling Growers' Association Meeting, McCall, ID, USA, 5-6 October 2010. (invited)
38. T. Fineman and **A.S. Davis**. Evaluation of compost as a substrate amendment for ponderosa pine seedling production. 31st Intermountain Container Seedling Growers' Association Meeting, McCall, ID, USA, 5-6 October 2010. (invited)
39. Keefe R.F. and **A.S. Davis.** Effect of reference spatio-temporal disturbance frequency on stand structure and conifer germination patterns. Seventh IUFRO International Conference on Uneven-Aged Silviculture. Ljubljana, Slovenia. 27 September 2010.
40. **Davis, A.S.** Effects of climate change on culturing techniques to achieve nursery targets. Intertribal Nursery Council 2010 Annual Meeting and Workshop. Arlington, WA, USA 21-23 September 2010.
41. **Davis, A.S.** Nursery cultural practices to achieve targets. Target Seedling Symposium. Portland, OR, USA, 24-26 August 2010. (invited)
42. Kildisheva, O. A., **A.S. Davis**, and R.F. Keefe. Mimicking Nature: Understanding Seed Ecology as a Means of Native Plant Restoration. Ecological Society of America. Pittsburgh, PA, USA, 1-6 August 2010.*
43. **Davis, A.S.** The biophysical, socioeconomic, and cultural sciences relevant and imperative to the future of Haiti's science and science education capacity. Advancing Capacity for Haitian Science and Science Education. San Juan, Puerto Rico, 10-12 July 2010. (invited)
44. Kildisheva, O. A., **A.S. Davis**, and R.F. Keefe. *Sphaeralcea munroana*: Strategies for improving seed germination. International Seed Science Meeting on Seeds and the Environment, Salt Lake City, UT, USA, 20-24 June 2010.*
45. **Davis, A.S.** Keynote Address: Overcoming challenges in forest regeneration. Forestry in transition: A conference for family forest landowners and managers, Moscow, ID, USA, 22 March 2010 (invited).
46. **Davis, A.S.** Subirrigation: a promising technology for hardwood seedling production. Emerging silvicultural technologies for *Acacia koa* restoration, Hilo, HI, USA, 3-4 March 2010 (invited).
47. Dumroese, R.K., D.F. Jacobs, and **A.S. Davis**. Subirrigation for production of Acacia koa and interactions with other cultural treatments. Emerging silvicultural technologies for *Acacia koa* restoration, Hilo, HI, USA, 3-4 March 2010 (invited).
48. Jacobs, D.F., **A.S. Davis**, and R.K. Dumroese. Restoration of *Acacia koa* competing with exotic kikuyu grass in a dry tropical forest. Emerging silvicultural technologies for *Acacia koa* restoration, Hilo, HI, USA, 3-4 March 2010 (invited).

49. **Davis, A.S.**, J.R. Pinto, R.K. Dumroese, and T.D. Landis. The Target Seedling Concept: Growing the Right Plant for the Site, Nāhelehele Dryland Forest Symposium "Managing Human Impacts", Kona, HI, USA, 26 February 2010 (invited).
50. **Davis, A.S.** Native plant regeneration in a changing climate. Student Climate Forum, University of Idaho, Moscow, ID, USA, 11 February 2010 (invited).
51. **Davis, A.S.**, E.C. Overton, O.A. Kildisheva, and R.F. Keefe. Germination Trials of, and Evaluation of Post-Germination Stress in, Wyoming Big Sagebrush and Munro's Globemallow. Great Basin Native Plant Selection and Increase Program Annual Meeting. Salt Lake City, UT, 26-27 January 2010.
52. Robertson, N.D. and **A.S. Davis**. Evaluation of sulfometuron phytotoxicity to Douglas-fir, western larch, and western white pine. Joint Meeting of the Western Forest and Conservation Nursery Association, Intertribal Nursery Council, and Intermountain Container Seedling Growers' Association. Moscow, ID, USA 14-16 July 2009 (invited).
53. Dumroese, R.K., K. Englund, J. Heiskanen, and **A.S. Davis**. Using waste biochar to reduce restoration costs and sequester carbon. Joint Meeting of the Western Forest and Conservation Nursery Association, Intertribal Nursery Council, and Intermountain Container Seedling Growers' Association. Moscow, ID, USA 14-16 July 2009 (invited).
54. Pinto, J.R., R.K. Dumroese, **A.S. Davis**, and T.D. Landis. How to properly conduct a stocktype study. Joint Meeting of the Western Forest and Conservation Nursery Association, Intertribal Nursery Council, and Intermountain Container Seedling Growers' Association. Moscow, ID, USA 14-16 July 2009 (invited).
55. **Davis, A.S.**, K.R. Herriman, and R.K. Dumroese. Wyoming big sagebrush: efforts towards development of target plants for restoration. Great Basin Native Plant Selection and Increase Program Annual Meeting. Boise, ID, USA 31 March 2009 (invited).
56. **Davis, A.S.**, K. Eggleston, J.R. Pinto, and R.K. Dumroese. Evaluation of three growing media for container grown western larch. Inland Empire Reforestation Council Annual Meeting. Coeur d'Alene, ID, USA 24 February 2009 (invited).
57. Robertson, N. and **A.S. Davis**. Effect of Oust ™ herbicide on seedling root growth of three important Inland Northwest conifer species. Society of American Foresters National Convention, Reno, NV, USA 5-8 November 2008.*
58. **Davis, A.S.**, R.K. Dumroese, D.F. Jacobs, and T.D. Landis. Seedling growing regimes and the potential for using blackout techniques to arrest growth. Idaho Department of Lands Regeneration Workshop. Moscow, ID, USA 28-29 October 2008.
59. **Davis, A.S.**, R.K. Dumroese, D.F. Jacobs, and T.D. Landis. Assessing seedling quality. Idaho Department of Lands Regeneration Workshop. Moscow, ID, USA 28-29 October 2008.
60. **Davis, A.S.**, R.K. Dumroese, D.F. Jacobs, T.D. Landis, and J.R. Pinto. The Target Seedling Concept and the role of stocktype in a reforestation program. Idaho Department of Lands Regeneration Workshop. Moscow, ID, USA 28-29 October 2008.
61. **Davis, A.S.** An introduction to the Center for Forest Nursery and Seedling Research. Idaho Department of Lands Regeneration Workshop. Moscow, ID, USA 28-29 October 2008.
62. Robertson, N. and **A.S. Davis**. Evaluation of Oust phytotoxcity on conifer seedlings. Idaho Department of Lands Regeneration Workshop. Moscow, ID, USA 28-29 October 2008.
63. Newcombe, G. and **A.S. Davis.** Potential for commercial production of inland northwest conifer species inoculated with endophytic fungi to enhance plant health. 29th Intermountain Container Seedling Growers' Association Meeting. Coeur d'Alene, ID, USA 8-9 October 2008 (invited).
64. Herriman, K.R., **A.S. Davis**, and R.K. Dumroese. Effect of stocktype on sagebrush seedling development following outplanting. 29th Intermountain Container Seedling Growers' Association Meeting. Coeur d'Alene, ID, USA 8-9 October 2008 (invited).
65. Robertson, N. and **A.S. Davis**. Evaluation of Oust phytotoxcity on conifer seedlings. 29th Intermountain Container Seedling Growers' Association Meeting. Coeur d'Alene, ID, USA 8-9 October 2008 (invited).

66. Keefe, R.F. and **A.S. Davis**. After the soak: post-imbibition moisture uptake in ponderosa pine and Douglas-fir seed. 29th Intermountain Container Seedling Growers' Association Meeting. Coeur d'Alene, ID, USA 8-9 October 2008 (invited).
67. Eitel, J.U.H., R.F. Keefe, D.S. Long, **A.S. Davis**, and P.E. Gessler. Suitability of optical ground sensors to monitor seedling quality. Canadian Institute of Forestry Centennial Conference. 29th Intermountain Container Seedling Growers' Association Meeting. Coeur d'Alene, ID, USA 8-9 October 2008 (invited).
68. Eggleston, K., **A.S. Davis**, R.K. Dumroese, and W. Pruett. Evaluation of three growing media for container western larch production. 29th Intermountain Container Seedling Growers' Association Meeting. Coeur d'Alene, ID, USA 8-9 October 2008 (invited).
69. **Davis, A.S.** The Center for Forest Nursery and Seedling Research: Christmas tree stocktype trials for North Idaho. Inland Empire Christmas Tree Association Fall Meeting. Sandpoint, ID, USA 27 September 2008 (invited keynote).
70. **Davis, A.S.**, R.F. Keefe, J.U.H. Eitel, D.S. Long, and P.E. Gessler. Potential for boom-mounted remote sensing applications in seedling quality monitoring. Canadian Institute of Forestry Centennial Conference. Fredericton, NB, Canada 7-10 September 2008 (invited).
71. Herriman, K.R., A.S. **Davis**, and R.K. Dumroese. Effect of stocktype on sagebrush seedling development following outplanting. Western Forest and Conservation Nursery Association. Missoula, MT, USA 23-25 July 2008 (invited).
72. Keefe, R.F., **A.S. Davis**, J.U.H. Eitel, D.S. Long, and P.E. Gessler. Potential for boom-mounted remote sensing applications in seedling quality monitoring. Western Forest and Conservation Nursery Association. Missoula, MT, USA 23-25 July 2008 (invited).
73. Eggleston, K., **A.S. Davis**, R.K. Dumroese, and W. Pruett. Western larch response to three growing media at Coeur d'Alene Nursery. Western Forest and Conservation Nursery Association. Missoula, MT, USA 23-25 July 2008 (invited).
74. Keefe, R.F. and **A.S. Davis**. Reisenberg's principles revisited: a portable rail system for use in forest operations in sensitive areas. 31st Annual Meeting of the Council on Forest Engineering: Addressing Forest Engineering Challenges for the Future. Charleston, SC, USA 22-25 July 2008.
75. **Davis, A.S.** Past, present, and future: University of Idaho Center for Forest Nursery and Seedling Research. Inland Empire Tree Improvement Cooperative 2008 Annual Meeting. Coeur d'Alene, ID, USA 27 February 2008 (invited).
76. **Davis, A.S.** What's new at the Center for Forest Nursery and Seedling Research. Inland Empire Reforestation Council Annual Meeting. Coeur d'Alene, ID, USA 26 February 2008 (invited).
77. **Davis, A.S.** UNB Forestry and me: Career-forming education and my vision for the future. University of New Brunswick Centennial Conference: Celebrating Alumni Success and Identifying Future Challenges. Fredericton, NB, Canada 21-22 February 2008 (invited).
78. **Davis, A.S.**, D.F. Jacobs, R.K. Dumroese, J. Leary and A. Cho. Influence of stocktype and fertilizer rate on field performance of *Acacia koa* competing with exotic kikuyu grass in a dry tropical forest. Nahele Dryland Forest Symposium, Kona, HI, USA 22 February 2008.*
79. Neorr, K, R. Mahoney, **A.S. Davis,** K. Launchbaugh. Effects of hazardous fuel retreatments on wildlife habitat in Northern Idaho. Association of Fire Ecology Regional Conference. Tuscon, AZ, USA 28-31 January 2008.*
80. Jacobs, D.F., **A.S. Davis** and R.K. Dumroese. Nursery cultural techniques to facilitate restoration of Acacia koa in Hawaiʻi. Department of Natural Resources & Environmental Management Seminar, University of Hawaiʻi at Manoa, Honolulu, HI, USA 30 January 2008 (invited).
81. Jacobs, D.F., **A.S. Davis** and R.K. Dumroese. Nursery cultural techniques to facilitate restoration of Acacia koa in Hawaiʻi. Tropical Conservation Biology and Environmental Sciences Seminar Series, University of Hawaiʻi at Hilo, Hilo, HI, USA 29 January 2008 (invited).
82. **Davis, A.S.** The University of Idaho Center for Forest Nursery and Seedling Research. 2007 Atlantic Forest Nursery Managers Workshop. Inverness, NS, Canada 17 October 2007.

83. Schmal, J.L., P.O. Woolery, **A.S. Davis** and R.K. Dumroese. Influence of nursery cultural practices on western larch seedling development. Society of American Foresters National Convention, Portland, OR, USA 23-27 October 2007.*
84. Woolery, P.O., J.L. Schmal, and **A.S. Davis**. Evaluation of chlorophyll fluorescence as an indicator of dehydration stress in American chestnut seedlings. Society of American Foresters National Convention, Portland, OR, USA 23-27 October 2007.*
85. Neorr, K, R. Mahoney, **A.S. Davis,** K. Launchbaugh. Effects of hazardous fuel retreatments on wildlife habitat in Northern Idaho. Society of American Foresters National Convention, Portland, OR, USA 23-27 October 2007.*
86. **Davis, A.S.** Current Research at the University of Idaho Center for Forest Nursery and Seedling Research. 28th Intermountain Container Seedling Growers' Association Meeting. Moscow, ID, USA. 2 October 2007.
87. Keefe, R.F., R.K. Dumroese and **A.S. Davis**. Effect of minimum moisture content on morphology and water use efficiency of western larch seedlings. 28th Intermountain Container Seedling Growers' Association Meeting. Moscow, ID, USA 2 October 2007 (invited).
88. Dumroese, R.K, K. Eggleston, **A.S. Davis** and D. Barcel. Controlling liverworts. 28th Intermountain Container Seedling Growers' Association Meeting. Moscow, ID, USA 2 October 2007 (invited).
89. Regan, D.J. and **A.S. Davis**. Effects of container size and copper treatment on the growth and survival of outplanted western white pine seedlings. Joint Meeting of the British Columbia Forest Nursery and Western Forest and Conservation Nursery Associations, Sidney, BC, Canada 17-19 September 2007 (invited).
90. **Davis, A.S.** New directions in forest nursery education and research at the University of Idaho Center for Forest Nursery and Seedling Research. Joint Meeting of the British Columbia Forest Nursery and Western Forest and Conservation Nursery Associations, Sidney, BC, Canada 17-19 September 2007 (invited).
91. Dumroese, R.K., **A.S. Davis** and D.F. Jacobs. Inoculating *Acacia koa* with Bradyrhizobium and applying fertilizer in the nursery. Forestry Short Course V, Restoration of Degraded Lands. USDA Forest Service, Institute of Pacific Islands Forestry. Hakalau National Wildlife Refuge, HI, USA, 16 August 2007.
92. **Davis, A.S.**, R.K. Dumroese and D.F. Jacobs. Nursery cultural techniques to facilitate restoration of *Acacia koa* competing with exotic kikuyu grass in a dry tropical forest. Forestry Short Course V, Restoration of Degraded Lands. USDA Forest Service, Institute of Pacific Islands Forestry. Pu'u Wa'awa'a, HI, USA, 15 August 2007.
93. **Davis, A.S.** and D.F. Jacobs. Physiological and morphological responses of *Quercus rubra* seedlings to mid-summer photoperiod manipulation during nursery culture. North American Forest Biology Workshop, Bloomington, IN, USA, 20-23 May 2007.
94. Jacobs, D.F., **A.S. Davis**, B.C. Wilson, R.K. Dumroese, R.C. Goodman, and K.F. Salifu. Artificially-induced short-day treatment during culture of *Pseudotsuga menziesii* seedlings alters dormancy release and transplant root proliferation at varying rhizosphere temperatures. North American Forest Biology Workshop, Bloomington, IN, USA, 20-23 May 2007.
95. **Davis, A.S.** and D.F. Jacobs. Tropical afforestation and reforestation strategies to conserve biological diversity and increase global and local benefits. IUFRO Conference on Forest Landscape Restoration, Seoul, Korea, 14-16 May 2007.
96. Jacobs, D.F., **A.S. Davis** and R.K. Dumroese. Nursery cultural techniques to facilitate restoration of koa (*Acacia koa*) competing with exotic kikuyu grass (*Pennisetum clandestinum*) in a dry tropical forest at Pu'u Wa'a Wa'a Hawai'i. IUFRO Conference on Forest Landscape Restoration, Seoul, Korea, 14-16 May 2007.
97. **Davis, A.S.** and D.F. Jacobs**.** Nursery blackout influences seedling morphological and physiological parameters. Special research seminar, Faculty of Forestry and Environmental Management, University of New Brunswick, Fredericton, NB, Canada, 11 April 2007. (invited)

98. **Davis, A.S.** The green gardener: environmental awareness. Fundy Garden Club, Saint John, NB, Canada, 4 April 2007. (invited)
99. **Davis, A.S.**, D.F. Jacobs, B.C. Wilson, and R.K. Dumroese. Effects of nursery blackout on Douglas-fir seedling cold hardiness and new root development at different root-zone temperatures. Components of successful reforestation: From seed to free-to-grow, Eugene, OR, USA. 26-27 September 2006. (invited)
100. Dumroese, R.K., D.F. Jacobs, and **A.S. Davis**. Propagation of *Acacia koa* seedlings using sub-irrigation. Western forest and conservation nursery association. Eugene, OR, USA. 21-23 June 2006. (invited)
101. **Davis, A.S.**, B.C. Wilson and D.F. Jacobs. Interrelationship of seedling dormancy status and root zone temperature of three northern California conifer species. Annual meeting of the Sierra Cascade Intensive Forest Management Cooperative. Redding, CA, USA. 5 April 2006. (invited)
102. **Davis, A.S.** Quantifying root system quality of nursery seedlings and relationship to outplanting performance. University of Idaho, Moscow, ID, USA. 30 March 2006. (invited)
103. **Davis, A.S.** Beyond bareroot: Experiences with alternative stocktypes for *Quercus rubra* - nursery and outplanting results. University of Idaho, Moscow, ID, USA. 29 March 2006. (invited)
104. **Davis, A.S.** and D.F. Jacobs. Afforestation in the Central Hardwood Forest Region of the USA. The Thin Green Line. Thunder Bay, ON, Canada. 26-28 July 2005.
105. **Davis, A.S.** and D.F. Jacobs. Tree improvement and seed source monitoring: operational production of hardwood seedlings in the eastern USA. Purdue University Department of Forestry and Natural Resources Graduate Student Poster Competition. Lafayette, IN, USA. 15 April 2005.*
106. Jacobs, D.F., R. Rathfon, **A.S. Davis** and D. Carlson. Stocktype and harvest gap size influence northern red oak regeneration success. 13th Biennial Southern Silviculture Research Conference. Memphis, TN, USA. 28 February – 4 March 2005.
107. **Davis, A.S.** and D.F. Jacobs. Performance of northern red oak (*Quercus rubra* L.) across a pH gradient. 9th Workshop on Seedling Physiology and Growth Problems in Oak Plantings. West Lafayette, IN, USA 19-20 October 2004.
108. Jacobs, D.F., K.F. Salifu and **A.S. Davis**. Drought susceptibility and recovery of transplanted *Quercus rubra* seedlings in relation to root system morphology. 9th Workshop on Seedling Physiology and Growth Problems in Oak Plantings. West Lafayette, IN, USA 19-20 October 2004.
109. **Davis, A.S.**, D.F. Jacobs and A.L. Ross-Davis. Hardwood tree plantations in Indiana: establishment success in relation to silvicultural practices, motivations to afforest, & ownership characteristics. Eastern Canada/USA Forest Science Conference. Fredericton, NB, Canada. 15-16 October 2004.
110. **Davis, A.S.**, D.F. Jacobs and B.C. Wilson. Tree improvement and seed source monitoring: operational production of hardwood seedlings in the eastern USA. Society of American Foresters and the Canadian Institute of Forestry Joint 2004 Convention. Edmonton, Alberta, Canada 2-6 October 2004.*
111. **Davis, A.S.**, D.F. Jacobs, R. Rathfon and D. Carlson. Stocktype and harvest gap size influence northern red oak regeneration success. Indiana Society of American Forester's Meeting. Greencastle, IN, USA 11-12 August, 2004. (invited)
112. **Davis, A.S.**, B.C. Wilson and D.F. Jacobs 2004. Effect of seed position and media on germination of black walnut and northern red oak: implications for nursery production and direct-seeding. Sixth Black Walnut Council Research Symposium. West Lafayette, IN, USA 25-28 July 2004. (invited)
113. **Davis, A.S.** and D.F. Jacobs. Quantifying root system quality of nursery seedlings and relationship to outplanting performance. Forest Seedling Root Development from the Nursery to the Field. Western Forestry and Conservation Nursery Association. Eugene, OR, USA 12-13 May 2004. (invited)
114. **Davis, A.S.** and D.F. Jacobs. First-year survival of northern red oak seedlings planted on former surface coal mines in Indiana. Joint conference of 21st Annual American Society of Mining and Reclamation National Conference and 25th West Virginia Surface Mine Drainage Task Force symposium. Morgantown, WV, USA 18-22 April 2004.

115. **Davis, A.S.** and D.F. Jacobs. First-year performance of northern red oak on reclaimed mined lands in Indiana. Department of Forestry and Natural Resources Spring Research Symposium, Purdue University, West Lafayette, Indiana, USA 16 April 2004.*
116. **Davis, A.S.** and D.F. Jacobs. Field performance of nursery-grown northern red oak (*Quercus rubra*) on abandoned mine lands in Indiana: Effects of stocktype, controlled-release fertilizer and mycorrhizal inoculation. Indiana DNR-Division of Reclamation. Jasonville, IN, USA 19 March 2004. (invited)
117. **Davis, A.S.** and D.F. Jacobs. First-year performance of northern red oak on reclaimed mined lands in Indiana. 14th Central Hardwood Forest Conference. Wooster, OH 16-19 March 2004.*
118. Ross-Davis, A.L., D.F. Jacobs, S.R. Broussard and **A.S. Davis**. Establishment success of conservation tree plantations in Indiana. 14th Central Hardwood Forest Conference. Wooster, OH, USA 16-19 March 2004.*
119. Jacobs, D.F. and **A.S. Davis**. Genetic considerations in the operational production of hardwood seedlings in the eastern USA. British and Irish Hardwood Improvement Programme. Stoneleigh, United Kingdom 4 March 2004.*
120. **Davis, A.S.** and D.F. Jacobs. Performance of northern red oak (*Quercus rubra* L.) on reclaimed mine lands: effect of stocktype, mycorrhizal inoculation and controlled-release fertilizer. CONFOR. Dalhousie University, Halifax, Nova Scotia, Canada 6-7 February 2004.
121. **Davis, A.S.** and D.F. Jacobs. Regeneration Research at the HTIRC. Pike Lumber Company Educational Meeting. West Lafayette, IN, USA 10 January 2004. (invited)
122. **Davis, A.S.** Forestry practices in the pacific northwest USA. Purdue University student chapter, Society of American Foresters. West Lafayette, IN, USA 18 November 2003. (invited)
123. **Davis, A.S.** Performance of northern red oak under adverse conditions. M.S. thesis defense. West Lafayette, IN, USA 24 November 2003.
124. Ross-Davis, A.L., **A.S. Davis**, D.F. Jacobs and S.R. Broussard. Success of conservation tree plantations in relation to landowners' motivation to afforest, ownership characteristics and silvicultural practices. Society of American Foresters 2003 National Convention. Buffalo, NY, USA 25-29 October 2003.
125. Jacobs, D.F., B.C. Wilson and **A.S. Davis**. Recent trends in hardwood seedling quality assessment. Northeastern Forest and Conservation Nursery Association Conference. Springfield, IL, USA 15-17 July 2003. (invited)
126. **Davis, A.S.**, D.F. Jacobs and A.L. Ross-Davis. Success of hardwood tree plantations in Indiana and implications for nursery managers. Northeastern Forest and Conservation Nursery Association Conference. Springfield, IL, USA 15-17 July 2003. (invited)
127. **Davis, A.S.** and D.F. Jacobs. Performance of northern red oak (*Quercus rubra* L.) on reclaimed mined lands: Effect of stocktype, controlled-release fertilizer and mycorrhizal inoculation. Department of Forestry and Natural Resources Spring Research Symposium, Purdue University, West Lafayette, Indiana, USA 10 April 2003.*
128. Jacobs, D.F., A.L. Ross-Davis, S.R. Broussard and **A.S. Davis**. Conservation tree plantations: Motivations to afforest and success in relation to silvicultural practices. Department of Forestry and Natural Resources 8th Annual Research Symposium. Purdue University, West Lafayette, IN, USA 10 April 2003. (invited)
129. Ross-Davis, A.L., D.F. Jacobs, S.R. Broussard and **A.S. Davis**. Conservation tree plantations: Success in relation to ownership characteristics, motivations to afforest and silvicultural practices. Indiana Society of American Foresters Winter Meeting. Jasper, IN, USA 26-27 February 2003. (invited)
130. **Davis, A.S.** and D.F. Jacobs. Performance of northern red oak on abandoned mine lands: Effect of stocktype, controlled release fertilizer and mycorrhizal inoculation. CONFOR. Thunder Bay, Ontario, Canada 1-2 February 2003.
131. **Davis, A.S.** and D.F. Jacobs. Tropical afforestation and reforestation strategies to increase global and local benefits. CONFOR. Thunder Bay, Ontario, Canada 1-2 February 2003.

132. **Davis, A.S.**, D.F. Jacobs and A.L. Ross-Davis. Establishment success of conservation tree plantings in Indiana: Preliminary results. Indiana Association of Consulting Foresters Annual Meeting. Lizton, IN, USA 27 August 2002. (invited)

Prior Employment

- Graduate Research Assistant. August 2002 – December 2006; Graduate Teaching Assistant (Dendrology and Wildland Plants FNR 225, Fall 2003, Fall 2004). Department of Forestry and Natural Resources, Purdue University, West Lafayette, IN
- Research Associate. April – August 2002. Hardwood Tree Improvement and Regeneration Center, Purdue University, West Lafayette, IN
- Nursery grower. April 2001 – March 2002. Pacific Regeneration Technologies Inc. Dryden, ON
- Landscaper. September 1999 – April 2001. Self-employed. Fredericton, NB
- Teaching Assistant. Oral and Written Communication (FOR 1902, Winter 2001) and Forest Management: Silviculture (FOR 3005, Fall 2000), Faculty of Forestry and Environmental Management, University of New Brunswick. Fredericton, NB
- Technician. July – September 1999. Manawagonish Road Tree Preservation Committee. Saint John, NB
- Manager, Garden Center. Summer 1997, 1998, 1999. Atlantic Superstore, Saint John, NB
- Co-owner. 1996. Wick Reforestation. Gondola Point, NB

Awards

- College of Natural Resources Outstanding Continuing Education and Service Award. Spring 2010
- van Eck Scholarship. Hardwood Tree Improvement and Regeneration Center, Department of Forestry and Natural Resources, Purdue University. January 2004 – December 2006
- Walnut Council Graduate Student Scholarship. April 2005
- Honorable mention, Purdue University Department of Forestry and Natural Resources Graduate Student Poster Competition. April 2005
- Winner, Purdue University Department of Forestry and Natural Resources Graduate Student Poster Competition. April 2003

Funding

- **Davis, A.S.** Field performance of container grown Douglas-fir and western larch. 2012. $40,000.
- **Davis, A.S.** Nursery Production Optimization in Lebanon. USDA Forest Service/US AID/Lebanon Reforestation Initiative. 2011. $160,589.
- Aghai, M.M., O.A. Kildisheva, and **A.S. Davis**. Making the Drop Go Further: Improving Water and Nutrient Use Efficiency at the UI Pitkin Forest Nursery. University of Idaho Sustainability Center. 2011. $3,000.
- **Davis, A.S.** Target seedlings for restoration of degraded lands in Hawaii. USDA Forest Service. 2011. $13,200.
- **Davis, A.S.** Seedling quality as a function of container size and subsequent outplanting performance. Potlatch Corporation. 2011. $39,250.
- **Davis, A.S.** Stocktype trials for North Idaho Conifers. Potlatch Corporation. 2010. $14,828.43.
- **Davis, A.S.** Western redcedar terpene research. Potlatch Corporation. 2010. $5,000.
- Kavanagh, K., A. Smith, T. Link, H. Hess, **A.S. Davis**, B. Newingham, P. Gessler. Development of a 3-D Wireless Sensor Network. National Science Foundation. $563,326.00.
- **Davis, A.S.** Native plant assisted migration. USDA Forest Service. 2010. S25,000.
- **Davis, A.S.** Root development in native plants. Jiffy Products, Inc. 2010. $56,000.
- **Davis, A.S.** Stocktype optimization for north Idaho conifers. Potlatch Corporation. 2009. $6,692.
- **Davis, A.S.** Redevelopment of the Native Plant Network. University of Idaho College of Natural Resources. 2009. $5,000.

- **Davis, A.S.** Characterization of dryland native plant competitiveness in a changing climate. University of Idaho Seed Grant Program. 2009. $12,000.
- **Davis, A.S.** Online Irrigation Training. USDA Forest Service Reforestation, Nurseries, and Genetic Resources Program. 2009. $50,000.
- **Davis, A.S.** Remsoft Educational Partners Program – Software License. Remsoft, Inc. 2009. In-kind support of $49,000.
- **Davis, A.S.** and J. Kingery. Native plants for roadside revegetation. Idaho Transportation Department. 2008. $146,288.
- **Davis, A.S.** Evaluation of establishment parameters of sagebrush seedlings. Great Basin Native Plant Selection and Increase Project/USDA Forest Service. 2008. $60,000.
- **Davis, A.S.** Seedling quality assessment laboratory equipment. USDA Forest Service Coeur d'Alene Nursery. 2008. In-kind support of $40,000.
- Jacobs, D.F., J. Leary, M. Robinson, **A.S. Davis**, R.K. Dumroese. Subirrigation as an innovative new technology to reduce water consumption for native plant nursery production. USDA-NRCS-Pacific Islands Area Conservation Innovation Grant. 2008. $44,990.93
- **Davis, A.S.** Seed research for north Idaho conifers. Pacific Regeneration Technologies. 2008. $2,000.
- **Davis, A.S.** Stocktype training. Hardwood Tree Improvement and Regeneration Center. 2008. $2,200.
- **Davis, A.S.** Production of Sagebrush in containers for restoration practices. Great Basin Native Plant Selection and Increase Project/USDA Forest Service. 2008. $20,000.
- **Davis, A.S.** Effects of sulfometuron methyl on north Idaho conifer seedlings. Idaho Department of Lands. 2008. $9,875.
- **Davis, A.S.** Effects of sulfometuron methyl on north Idaho conifer seedlings. Potlatch Corporation. 2008. $18,268.
- **Davis, A.S.** Stocktype optimization for north Idaho conifers. Potlatch Corporation. 2008. $20,635.
- **Davis, A.S.** Whitebark pine seedling quality assessment. USDA Forest Service. 2008. $2,500.
- **Davis, A.S.** Editing *Raising Native Plants at Home*. USDA Forest Service. 2007. $5,000.
- Dumroese, R.K., K. Eggleston, D. Barcel and **A.S. Davis**. Controlling cryptogams during nursery production to improve whitebark pine seedling quality and reduce seedling costs. USDA-Forest Service Whitebark Pine Restoration Funding. 2007. $4,300.
- **Davis, A.S.** and D.F. Jacobs. Fred van Eck Foundation. Research funding. 2006. $10,000.
- **Davis, A.S.** and D.F. Jacobs. Fred van Eck Foundation. Research funding. 2005. $10,000.
- **Davis, A.S.** and D.F. Jacobs. Fred van Eck Foundation. Research funding. 2004. $10,000.
- **Davis, A.S.** Society of American Foresters. 2004 national convention travel grant. $200.
- **Davis, A.S.** Purdue University. 2004 Department of Forestry and Natural Resources Travel Grant. $350.
- **Davis, A.S.** Society of American Foresters. 2003 national convention travel grant. $550.
- **Davis, A.S.** Canadian Institute of Forestry. 2003 travel grant (12th World Forestry Congress). $700.
- **Davis, A.S.** Purdue University. 2003 Department of Forestry and Natural Resources Travel Grant. $400.
- Jacobs, D.F. and **A.S. Davis**. Field performance of nursery-grown northern red oak (*Quercus rubra*) on abandoned mine lands in Indiana: Effects of stocktype, controlled-release fertilizer and mycorrhizal inoculation. Indiana DNR-Division of Reclamation. August 2002. $61,987.

Graduate and Undergraduate Students

Major Professor

- Kayla R. Herriman (2007-2009; completed MS degree; currently Assistant Manager, Bend Seed Extractory, USDA Forest Service)
- Nathan D. Robertson (2007-2009; completed MS degree; currently horticulturist, USDA Forest Service)
- Olga A. Kildisheva (2009-2011; completed MS degree; currently research associate, University of Idaho)

- Jasmine Williams (Senior Research Project Faculty Supervisor, Forest Resources, completed 2011; currently horticulturist, USDA Forest Service)
- Todd Fineman (Senior Research Project Faculty Supervisor, Environmental Science, completed 2010; currently nursery grower, Weyerhaeuser)
- Robert F. Keefe (2007-2011; completed PhD; currently Assistant Professor, University of Idaho)
- Matthew M. Aghai (2010-2012; completed MS degree; currently research associate, University of Idaho)
- Amy A. Whitcomb (2010-2012; completed MS degree; currently MA student and graduate writing consultant, University of Idaho)
- Emily C. Overton (MS candidate, expected completion December 2012)
- Bridget McNassar (MS candidate, expected completion December 2012)

Committee Member

Mary Ridout (PhD Student, University of Idaho, preliminary exam forthcoming)
Abbos Akhadov (MS Student, University of Idaho, recently began program)
Adam Robertson (MS Student, University of Idaho)
Gaoussou Diarra (PhD Student, University of Hawaii, expected completion December 2012)
Christine Droske (MS Student, University of Idaho, graduated May 2012)
Owen Burney (PhD Student, Purdue University, graduated May 2011)
Marshell Moy (MS Student, University of Idaho, graduated May 2010)
Kea Woodruff (MS Student, University of Idaho, graduated August 2010)
Jeremy Pinto (PhD Student, University of Idaho, graduated May 2009)
Ryan Woods (MS Student, Purdue University, graduated December 2008)
Karen Noerr (MS Student, University of Idaho, graduated December 2008)

Service

- Chair, Search Committee: Head, Department of Forest, Rangeland, and Fire Sciences, 2011-12, University of Idaho
- University of Idaho International Engagement Advisory Council (member, 2012 – current)
- Business Plan Task Force for Taylor Ranch. College of Natural Resources, University of Idaho (2011)
- Scientific reviewer, Shota Rustaveli National Science Foundation, Tbilisi, Georgia (2011)
- Member of Ad Hoc Accounts Committee, College of Natural Resources, University of Idaho (2011)
- Co-chair, University of Idaho 'Help Rebuild Haiti' Initiative (2010-present)
- Associate Editor for Forest Regeneration, Western Journal of Applied Forestry (2007-present)
- Search Committee: Dean, College of Natural Resources, 2009-10, University of Idaho
- Search Committee: Faculty Position in Dryland Restoration Ecology, 2008, University of Idaho
- Search Committee: Faculty Position in Forest Nutrition, 2007, University of Idaho
- Search Committee: Faculty Position in Silviculture, 2006, Purdue University
- Affiliate Faculty, National Institute for Advanced Transportation Technology, Moscow, Idaho
- Adjunct Research Professor, Changbai Mountain Academy of Sciences, Jilin Province, China
- College of Natural Resources representative to the Vandal Innovation and Enterprise Works program
- Special Appointment to the Graduate School, Purdue University, West Lafayette, Indiana
- Co-advisor, Student Chapter, Society of American Foresters, University of Idaho (2007-2012)
- Scientific reviewer (since 2007): Canadian Journal of Forest Research, Forest Ecology and Management, Journal of Forest Research, Native Plants Journal, Southern Journal of Applied Forestry, Silva Fennica, New Forests, HortScience
- Membership committee (2003 – 2005, Indiana Society of American Foresters)
- Councilor, Dept. of Forestry and Natural Resources Graduate Student Council (2003-2004)
- Senator, Purdue University, Purdue Graduate Student Government (2003)
- Member, Society of American Foresters, Canadian Institute of Forestry, Walnut Council

- Student project coordinator for University of New Brunswick Faculty of Forestry International Forestry Studies Courses to Spain (2001) and Chile (2000)
- President, Maggie Jean Chestnut House, University of New Brunswick (1997-1998)
- Staff writer and columnist for the Brunswickan, University of New Brunswick (1996-1999)
- Vice president, University of New Brunswick (Saint John) Undergraduate Engineering Society (1995-96)

Outreach

- Ongoing. www.nativeplantnetwork.org – internet native plant propagation protocols database with over 25,000 independent site visits per year.
- 2012. Co-organizer, Inland Empire Reforestation Council. Coeur d'Alene, ID.
- 2011. Provided nursery production lessons and internships. Scholarship for Economic and Educational Development (SEED) Cycle 2010 environmental technology training program for 18 students from Central America, Mexico, and the Caribbean.
- 2011. Hosted the Intermountain Container Seedling Growers' Association meeting. Moscow, ID.
- 2010. Hosted the Intermountain Container Seedling Growers' Association meeting. McCall, ID.
- 2010. Co-organized workshop "Emerging silvicultural technologies for *Acacia koa* restoration" in Hilo, HI.
- 2010. Hosted Advanced Reforestation and Regeneration workshop for Natural Resource Professionals.
- 2009. Hosted the North Idaho Meeting of the Idaho Nursery and Landscape Association in Moscow, ID.
- 2009. Hosted the Joint Meeting of the Western Forest and Conservation Nursery Association, Intertribal Nursery Council, and Intermountain Container Seedling Growers' Association.
- 2009. Seminar at Kulani Correctional Facility, Kulani, HI, on nursery irrigation for inmates enrolled in the horticulture certificate program.
- 2009. Seminar on seedling production for restoration at the kanakaleanui bird corridor.
- 2008. Workshop on Reforestation of Idaho's Lands.
- 2008. Hosted the Intermountain Container Seedling Growers' Association meeting. Coeur d'Alene, ID.
- 2007. Taught two 1-hour modules of a five-day short course: Forestry Short Course V, Restoration of Degraded Lands. USDA Forest Service, Institute of Pacific Islands Forestry. Hilo, HI.
- 2007. Hosted the Intermountain Container Seedling Growers' Association meeting. Moscow, ID

Professional Development

- Participant: 2012-2013 cycle of LEAD 21 (national land grant university leadership training program)
- Co-organized Society of American Foresters 2011 Silviculture Instructors Tour (Hawaii)
- Participant: Communications workshop presented by COMPASS communication
- Participated in Society of American Foresters 2009 Silviculture Instructors Tour (Georgia and Florida)
- Participated in Society of American Foresters 2008 Silviculture Instructors Tour (California and Nevada)
- Participated in Society of American Foresters 2007 Silviculture Instructors Tour (Oregon and Washington)

Professional Consultation

- Lebanon Reforestation Initiative, USDA Forest Service, International Programs. Provide technical support to aid in nursery practices and reforestation of degraded lands in Lebanon. 2011-ongoing.
- State of Idaho, Department of Lands. Revision of the Idaho Forest Practices Act Reforestation Guidelines. 2010.
- Government of Yukon, Energy, Mines & Resources. Evaluation of potential revegetation practices at the Faro Mine Complex. 2009-ongoing.
- State of Idaho, Department of Lands. Evaluation of reforestation practices in Southern Idaho. 2009.
- University of Hawai'i, College of Tropical Agriculture and Human Resources. Kaloko-Honokohau National Historic Park. Determination of appropriate seedling types and propagation procedures for native plant restoration. 2009-ongoing.