

VITAE

JOAN R. DAVENPORT

PERSONAL:

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EDUCATION:

Degree	Area	Institution	Date
Ph.D.	Soil Chemistry	University of Guelph, Ontario, Canada	1985
M.S.	Soil Management	Iowa State University	1981
B.S. (Magna)	Plant Science	Rutgers, The State University of New Jersey	1978

Theses Titles:

Ph.D. Carbon partitioning, deposition and mineralization in bromegrass (*Bromus inermis* Leyss.) and corn (*Zea mays* L.) cropping systems in relation to soil aggregate stability. Advisor: Dr. R. L. Thomas.

M.S. Runoff water quality from three Clarion loam soils as affected by soil organic matter content and fertilizer treatment. Advisor: Dr. R. M. Cruse.

PROFESSIONAL EXPERIENCE:

1/97- Present Faculty: Irrigated Agriculture Research and Extension Center, Washington State University, 24106 N. Bunn Road, Prosser, WA 99350-9687. Develop and conduct research in nutrient management, soil fertility and management of irrigated agricultural crops in central Washington, emphasizing site specific management, improved production and environmental quality.

Appointment History: Professor - Soil Science (25% T, 75% R), 1 July 2008 – present
 Associate Professor (25%)/Soil Scientist (75%), 1 July 2006 – 30 June 2008
 Associate Soil Scientist (tenured), 1 July 2002 – 30 June 2006
 Assistant Soil Scientist, 1 July 2000 - 30 June 2002
 Assistant Professor (25%)/Soil Scientist (75%), January 1997 - 1 July 2000

1/94-12/96 Manager, Agricultural Research, Ocean Spray Cranberries, Inc., Lakeville/ Middleboro, MA 02349. Provide leadership for the agricultural research group of Ocean Spray Cranberries, Inc. Ensure cranberry agricultural research throughout North America is conducted in a coordinated manner with grower-based research funding organizations. Actively design, develop, and coordinate research projects in Soil-Plant-Water Relationships as listed under Senior Agricultural Scientist.

9/88-12/93 Senior Agricultural Scientist, Soil-Plant-Water Relations, Ocean Spray Cranberries. Responsible for designing and implementing research projects throughout all cranberry growing areas in North America including, but not limited to, the areas of: Soil Fertility and Soil Chemistry; Plant Physiology and Mineral Nutrition as it relates to Crop Production; Water Availability in Soils and Plant Water Use and Needs; Nutrient Cycling in Soils; Environmental Impact of Production Practices. Serve an extension-type role with growers for on-farm problem solving and as a conduit for new information.

In line promotion from Agricultural Scientist to Senior Agricultural Scientist July 93

5/86-9/88 Post-Doctoral Research Associate, Washington State University, Tree Fruit Research Center, Wenatchee. Principle investigator in a project examining post-harvest and post-storage quality of apples to their minor nutrient content. Contributing investigator in research on Pb and As contaminated soils.

2/86-5/86 Post-Doctoral Fellow, The University of Guelph, Ontario, Canada. Coordinator and editor for the 1986 annual reports of the Department of Land Resource Science and Ontario Institute of Pedology.

RESEARCH INTERESTS:

Nutrient cycling through soil-plant system with particular focus on recycling. Plant nutrient management of crop yield and quality with a focus on site-specific management and developing monitoring systems for plant stress avoidance and environmental stewardship. Primary emphasis on perennial fruit crops.

PUBLICATIONS:

Journal, refereed

- Bair, K. E., and J. R. Davenport. 2012. Influence of recent acidification on available phosphorus indices and sorption in Washington state soils. *Soil Sci. Soc. Am. J.* 76: 515-521.
- Davenport, J. R., K. E. Bair, and R. G. Stevens. 2012. The Relationship Between Soil Temperature and N Release in Organic and Conventionally Managed Vineyards. *Commun. Soil Sci Plant Anal.* 43: 464-470
- Davenport, J. R., J. D. Lunden and T. Winkler. 2012. Wine Grape Tissue Nutrient Concentrations in the Inland Pacific Northwest. *Commun. Soil Sci Plant Anal.* 43: 21-27.
- Mobbs, T., R. T. Peters, J. R. Davenport, M. A. Evans, and J. Q. Wu. 2012. Effects of four soil surfactants on four soil-water properties in sand and silt loam. *J. Soil Water Cons.* 67: 275-283.
- Davenport, J. R., R. G. Stevens, K. M. Whitley, and T. Winkler. 2011. Spatial and temporal nutrient distribution in deficit-drip irrigated wine grape vineyards using bromide as a tracer. *HortScience* 46: 291-295.
- Pradubsuk, S., and J. R. Davenport. 2011. Seasonal Distribution of Micronutrients in Mature 'Concord' Grape: Boron, Iron, Manganese, Copper, and Zinc. *J. Amer. Soc. Hort. Sci.* 135:69-77.
- Pradubsuk, S. and J. R. Davenport. 2010. Seasonal uptake and partitioning of macronutrients in mature 'Concord' grape. *J. Amer. Soc. Hort. Sci.* 135(5):474-483. 2010.
- Davenport, J. R., C. DeMoranville, and T. R. Roper. 2009. Evaluation of six different soil test phosphorus extraction methods for relationship with cranberry. *Acta Hort.* 810: 627-632.
- Perry, E.M., F. J. Pierce, J. R. Davenport, and J. Smityman. 2009. Comparing active optical and airborne measurements of grape canopies. *Acta Hort.* 824:75-84 http://www.actahort.org/books/824/824_8.htm
- Bair, K. E., J. R. Davenport, and R. G. Stevens. 2008. Release of available nitrogen after incorporation of a legume cover crop in Concord grape. *HortScience* 43: 875-880.
- Davenport, J. R., M. Keller, and L. J. Mills. 2008. How cold can you go? Frost and winter protection for grape. *HortScience* 43: 1966-1969.
- Davenport, J. R., R. G. Stevens and K. M. Whitley. 2008. Spatial and temporal distribution of soil moisture in drip irrigated vineyards. *HortScience* 43:229-235.
- Perry, E. M., and J. R. Davenport. 2007. Spectral and spatial differences in response of vegetation indices to nitrogen treatments on apple. *Computers Electronics in Agri* 59: 56-65. <http://www.sciencedirect.com/science/journal/01681699>
- Davenport, J. R., and D. E. Schiffhauer. 2007. Using commercially available ion exchange membranes to monitor plant available nutrients in cranberry. *Commun. Soil Sci. Plant Anal.*9/10: 1331 – 1340.
- Davenport, J. R., and R. G. Stevens. 2006. High soil moisture and low soil temperature are associated with chlorosis occurrence in Concord grape. *HortScience* 41: 418-422.
- Vanden Huevel, J. E., and J. R. Davenport. 2006. Growth and carbon partitioning in cranberry uprights as influenced by nitrogen supply. *HortScience* 41: 1552-1558

- Davenport, J. R., P. H. Milburn, C. J. Rosen, and R. E. Thornton. 2005. Environmental impacts of potato nutrient management. *Am. J. Potato Res.* 82:321-328.
- Davenport, J. R., E. M. Perry, N. S. Lang, and R. G. Stevens. 2005. Leaf spectral reflectance for non-destructive measurement of plant nutrient status. *HortTechnology* 15: 31 - 35.
- Vanden Heuvel, J. E., and J. R. Davenport. 2005. Effect of light, temperature, defoliation and fruiting on carbon assimilation and partitioning in potted cranberry. *HortScience* 40:1699 - 1704.
- Davenport, J. R., and C. DeMoranville. 2004. Temperature influences nitrogen release rates in cranberry soils. *HortScience* 39:80-83.
- Han, S., S. M. Schneider, R. G. Evans, and J. R. Davenport. 2004. Blocking of spatial yield data for precision farming. *Precision Agriculture* 5:73-84.
- Davenport, J. R., C. J. DeMoranville, J. Hart, S. Kumidini, K. Patten, A. Poole, and T. R. Roper. 2003. Spatial and temporal variability of cranberry soil pH. *Acta Hort.* 626:323-336.
- Davenport, J. R., J. M. Marden, L. J. Mills, and M. J. Hattendorf. 2003. Concord grape response to variable rate nutrient management. *Am. J. Vit. Enol.* 54: 286 - 293.
- Whitley, K. M., and J. R. Davenport. 2003. Nitrate leaching potential under variable and uniform nitrogen fertilizer management in irrigated potato systems. *HortTechnology* 13(4):605 - 609.
- Redulla, C. A., J. R. Davenport, R. G. Evans, M. J. Hattendorf, A. K. Alva and R. A. Boydston. 2002. Relating potato yield and quality to variability in soil characteristics. *Am. J. Potato Res.* 79:317 - 323.
- Davenport, J. R., and K. D. Patten. 2002. Nitrogen release in virgin and cultivated organic cranberry soils. *Acta Hort.* 564:341-346.
- Davenport, J. R., C. A. Redulla, M. J. Hattendorf, R. G. Evans and R. A. Boydston. 2002. Potato yield monitoring on commercial fields. *HortTechnology* 12:289-296.
- Davenport, J. R., and E. M. Bentley. 2001. Potassium fertilizer form, source and time of application influence potato yield and quality in the Columbia Basin. *Am. J. Potato Res.* 78:311-318.
- Davenport, J. R., and J. D. Jabro. 2001. Assessment of hand held ion selective electrode technology for direct measurement of soil chemical properties. *Commun. Soil Sci. Plant Anal.* 32(19&20):3077-3085
- Davenport, J. R., and M. J. Hattendorf. 2000. Using site specific approaches to advance potato management in irrigated systems. *HortTechnology* 10:452-457.
- Davenport, J. R., and D. E. Schiffhauer. 2000. Cultivar influences cranberry response to surface sanding. *HortScience* 35:53-54.
- Davenport, J.R., and N. Vorsa. 1999. Cultivar fruiting and vegetative response to nitrogen fertilizer in cranberry. *J. Amer. Soc. for Hort. Science* 124:90-93.
- Davenport, J. R., C. DeMoranville, M.T. Pitts, W. Provance. 1997. Influence of soil iron and cranberry aerobic status on phosphorus availability in cranberry (*Vaccinium macrocarpon* Ait.) soils. *Acta Hort.* 446:369-380.
- DeMoranville, C.J., and J.R. Davenport. 1997. Phosphorus forms, rates and timing in Massachusetts cranberry production. *Acta Hort.* 446:381-387.
- Davenport, J. R. 1996. The effect of nitrogen fertilizer rates and timing on cranberry yield and fruit quality. *J. Amer. Soc. Hort. Sci.* 121:1089-1094.
- DeMoranville, C.J., J. R. Davenport, K. Patten, T. R. Roper, B. C. Strik, N. Vorsa, and A. P. Poole. 1996. Development of fruit mass in three cranberry cultivars and five production regions. *J. Amer. Soc. Hort. Sci.* 12:680-685.
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Davenport, J. R., and J. Provost. 1994. Cranberry tissue nutrient levels as impacted by three levels of nitrogen fertilizer and their relationship to fruit yield and quality. *J. Plant Nutri.* 17:1625-1634.

DeMoranville, C.J. and J. R. Davenport. 1994. Field evaluation of potassium supplements in cranberry production. *Small Fruits Viticulture* 2:81-87.

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Roper, T.R., K.D. Patten, C.J. DeMoranville, J.R. Davenport, B.C. Strik, and A.P. Poole. 1993. Fruiting reduces fruit set the following year in cranberry uprights. *HortScience* 18:228.

Davenport, J.R., and F.J. Peryea. 1991. Phosphate fertilizers influence leaching of lead and arsenic in a soil contaminated with lead arsenate. *Water, Air, Soil Pollution* 57-58:101-110.

Strik, B.C., T.R. Roper, C.J. DeMoranville, J.R. Davenport, and A.P. Poole. 1991. Cultivar and growing region influence on return bloom in cranberry uprights. *HortScience* 26:1366 -1367.

Davenport, J.R., and F.J. Peryea. 1990. Whole fruit mineral element composition and quality of harvested 'Delicious' apples. *J. Plant Nutri.* 13:701-711.

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Davenport, J.R., and R.L. Thomas. 1988. Carbon partitioning and rhizodeposition in corn and bromegrass. *Can. J. Soil Sci.* 68:693-701.

Davenport, J.R., R.L. Thomas, and S.C. Mott. 1988. Carbon mineralization of corn (*Zea mays* L.) and bromegrass (*Bromus inermis* Leyss.) components with an emphasis on below-ground carbon. *Soil Biol. Biochem.* 20:471-476.

Mott, S.C., J.R. Davenport, and R.L. Thomas. 1988. Mineralization of carbon from surficial and buried corn stalks. *Can. J. Soil Sci.* 68:687-691.)

Other

Davenport J. Ancient Lakes AVA – petition submitted 2010, reviewed by TTB and public comment period completed 9 July 2012.

Granatstein, D., and J. Davenport. 2010. Internal Nitrogen Supplies for Perennial Crops. *Tilth Producers Quarterly* 20 (2):1, 10-12.

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Yoder J., D. Young, K. Painter, J. Chen, J. Davenport, S. Galinato. 2009. Potential for a Sugar Beet Ethanol Industry in Washington State. Report to WA State Dept of Ag.

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Davenport J., C. Jones, M. Olmstead. Does drying temperature affect grape leave nitrogen and carbon concentration? 2009. *HortScience.* 44: pp 1148.

Davenport J., R. Stevens, J. Lunden. Canola response to N fertilizer rates in irrigated cropping systems. 2009. CD ROM ASA Abstracts. Soil Science Society of America; 5-8 Nov 2009; Pittsburgh, PA.

Davenport, J. R. and R. G. Stevens. 2008. Nutrient distribution patterns in deficit irrigated wine grape using bromide as a tracer. *Agronomy Abstracts/CD-ROM* 672-7

Davenport, J., D. Schiffhauer, and S. Crittenden. 2008. PRS™-Probes Functionally Measure the Soil Supply Rate of N and P In Cranberry Bogs. *Agronomy Abstracts/CD-ROM* 771-6

- Bonds, N, L. Carpenter-Boggs, S. Verhey, J. Davenport, and S. Ulrich. 2007. Performance trials of composted mint distillery waste. *HortScience* 42: 989.
- Davenport, J., and M. Keller. 2007. How cold can you go? Frost and winter protection for grape. *HortScience* 42: 823.
- DeMoranville, C., T. Roper, and J. Davenport. 2007. Determining the correct phosphorus rate for productive cranberries. *HortScience* 42: 896-897.
- Pradubsuk, S. and J. Davenport. 2007. Fine root distribution of Concord grape (*Vitis labruscana* Bailey) in furrow irrigation. *Agron. Abstracts (CD-ROM)*.
- Bair, K. E., R. G. Stevens, and J. R. Davenport. 2006. Improved cover crop establishment and growth is related to planting date in organic Concord grape production. *HortScience* 41:1080.
- Pradubsuk, S., J. R. Davenport, R. G. Stevens, and E. M. Perry. 2006. Comparison of techniques for whole plant sampling in grape. *HortScience* 41:1068.
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- Vanden Heuvel, J. E., and J. R. Davenport. 2006. The impact of nitrogen application on nonstructural carbohydrate production in cranberry leaves. *HortScience* 41: 1061.
- Perry, E. M., J. Davenport, A. Atunex, and F. Pierce. 2005. Reflectance-based measures of leaf chlorophyll in a perennial crop. *Agronomy Abstracts (CD-ROM)*
- Davenport, J. R., M. J. Hattendorf, and J. M. Marden. 2004. Ion exchange resin capsules for nitrogen monitoring in potato. *Am. J. Potato Res.* 81:53.
- Davenport, J. R., E. M. Perry, N. S. Lang, and R. G. Stevens. 2003. Leaf spectral reflectance for non-destructive measurement of plant nutrient status. *HortScience* 38:743.
- Davenport, J. R., R. G. Stevens, and K. Whitley. 2003. Occurrence of grape chlorosis in relationship to soil and climatic conditions. *HortScience* 38:795.
- DeMoranville, C., T. R. Roper, and J. R. Davenport. 2003. Salt effects on cranberry soils, plant growth, and productivity. *N. Am. Cranberry Res. and Ext. Workers Conf. Abstracts*.
- Hattendorf, M. J., and J. R. Davenport. 2003. Topographic analysis of potato yields and SSURGO soil parameters. *Agronomy Abstracts (CD-ROM)*.
- Perry, E. M., D. Faubion, C. Seavert, U. Schultness, J. R. Davenport, R. G. Stevens, J. Leal and F. J. Pierce. 2003. Crop Traceability to Assess Spatial Variability of Crop Quality. *Agronomy Abstracts (CD-ROM)*.
- Davenport, J. R., and K. M. Whitley. 2002. Non-destructive evaluation of potato nitrogen status using a hand-held NDVI meter. *Agronomy Abstracts (CD-ROM)*.
- Davenport, J. R., J. M. Harper, and L. J. Mills. 2002. Selected vineyard soil chemical properties before and after four years of variable rate fertilizer application. *Am. J. Enol. Vit.* 53:257A.
- Redulla, C., J. R. Davenport, R. G. Evans, M. J. Hattendorf, A. K. Alva, and R. A. Boydston. 2001. Relating potato yield and quality to variability in soil characteristics. *Am. J. Potato Res.* 78:478.
- Davenport, J. R., C. J. DeMoranville, and T. R. Roper. 2001. Water and fertilizers for remediation of salt affected cranberry soils. *HortScience* 36: 571.
- Davenport, J. R., C. Redulla, M. J. Hattendorf, R. G. Evans, and R. A. Boydston. 2001. Evaluation of potato yield monitoring on commercial fields. *HortScience* 36: 539.

- Perry, E. M., J. R. Davenport, J. Tarara, and N. S. Lang. 2001. Early detection of grape water deficit stress using leaf spectral reflectance. *HortScience* 36: 507.
- Roper, T. R., A. R. Krueger, C. J. DeMoranville, and J. R. Davenport. 2001. Sodium and chloride effects on cranberry growth in aeroponics. *HortScience* 36:466.
- Whitley, K. M., J. R. Davenport, and S. R. Manley. 2001. Potato yield and quality response to variable rate nitrogen fertilizer. *HortScience* 36: 503.
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- Davenport, J. R., A. K. Alva, K. M. Whitley, and J. D. Jabro. 2000. Polymer coated slow release nitrogen fertilizer for irrigated potato. *Agronomy Abstracts* 92:269.
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- Davenport, J. R., and K. D. Patten. 2000. Nitrogen Release in virgin and cultivated organic cranberry soils. 7th Inter. Symp. *Vaccinium Culture*.
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- Khemira, H., J.M. Lageschulte, F. J. Peryea, and J.R. Davenport. 2000. Comparison of four methods for quantifying soil nitrate. p.53. 4th Int. Symp. on Mineral Nutrition of Deciduous Fruit Crops. Penticton, BC, Canada. 13-18 August 2000.)
- Wample, R. L., J. Davenport, S. Lang, L. Mills, and J. Tarara. 2000. Application of precision agriculture techniques to Washington juice grapes. *Western Precision Ag Conf Abstracts* p 67- 68.
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Newsletter Articles

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- Davenport, J. 2012. Selected wine grape macro nutrient deficiencies. *Nutrient Digest* 4(2):5-6.
- Davenport, J. 2006. Does between-row compost application affect available soil moisture in grapes? *WSU Wine and Grape Research and Extension Newsletter* 16(4):9-10.
- Davenport, J. 2005. Grapevine nutrient management in a drought year. *WSU Wine and Grape Research and Extension Newsletter* 15(2):2-3.
- Davenport, J. R., R. G. Stevens, and K. Bair. 2005. Using leguminous cover crops as a nitrogen source for organic grape production. *Sustaining the Pacific Northwest* 3(3):4-6.

- Davenport, J. 2004. Vine nutrient management: foliar feeds, a question of balance. WSU Wine and Grape Research and Extension Newsletter 14(2):2-3.
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- Davenport, J. R. 2003. Grape Response to variable rate fertilizers management. Agrichemical and Environmental News 204: 8 - 17. Available online at <http://aenews.wsu.edu/Apr03AENews/Apr03AENews.htm>
- Davenport, J. R. 2000. Are plants what they eat? Organic versus Synthetic Nitrogen Fertilizers? Agrichemical and Environmental News 165:19-20.
- Davenport, J. R. 2000. Plant Root Simulators: A promising new tool for nutrient monitoring. Spud Topics XXXV(14):3.
- Davenport, J. R. 2000. The Center for Precision Agricultural Systems. WSU Wine Grape Research News 11(1):10-11.
- Davenport, J. R. 2000. Precision Ag Center Introduced at WSU. Agrichemical and Environmental News 172:4-5.
- Davenport, J. R. 1999. Water Quality - What is being said, what is being done, and what does it all mean? Agrichemical and Environmental News, 157: 1-4.
- Davenport, J. R. 1998. Precision Agriculture: Futuristic farming may be closer than you think. Agrichemical and Environmental News 145:1-3.

PRESENTATIONS (since arriving at WSU-Prosser)

Research/Scientific 1997 – 2012

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| Sep 26 2011 | Differences between deficiency symptoms in red and white wine grapes. American Society for Horticultural Sciences, Kona, HI |
| Nov 7 2009 | Canola response to N fertilizer rates in irrigated cropping systems. Soil Science Society of America, Pittsburgh, PA |
| Aug 10 2009 | Nitrogen and Phosphorus in Cranberry Water. 2009. North American Cranberry Research and Extension Workers Conference; Moncton, New Brunswick, Canada. |
| July 21 2009 | Davenport J., J. Lunden, T. Winkler. Winegrape Tissue Nutrient Concentrations in the Inland Pacific Northwest. International Symposium on Soil and Plant Analysis, Santa Rosa, CA. |
| July 21 2009 | Davenport J., K. Bair, R. Stevens. The relationship between soil temperature and N release in organic and conventionally managed vineyards. International Symposium on Soil and Plant Analysis, Santa Rosa, CA. |
| Oct 6 2008 | Nutrient distribution patterns in deficit irrigated wine grape using bromide as a tracer. Soil Science Society of America, Houston, TX |
| July 16 2008 | Evaluation of six different soil test phosphorus extraction methods for relationship with cranberry. International Vaccinium Symposium, Corvallis, OR |
| Oct 1 2007 | Managing fertilizer for phosphorus deficient cranberry beds. NACREW, Egg Harbor, NJ. |
| July 17 2007 | How cold can you go? Frost and winter protection for Grape. Invited presentation, ASHS, Scottsdale, AZ |
| July 17 2007 | Performance trials of composted mint distillery waste. ASHS, Scottsdale, AZ |
| Dec 12 2006 | Manejo de fertilidad y nutrición en vides viníferas. Invited presentation at the International Seminar: "Actualización en el manejo de vides viníferas" Centro Regional de Investigación, Reyatue, Chile |
| July 30 2006 | Comparison of techniques for whole plant sampling in grape. ASHS New Orleans, LA. |
| June 13 2005 | <i>Vaccinium</i> and <i>Vitis</i> extracts as anti-oxidant sources. Poster Presentation, International Berry Health Benefits Symposium, Corvallis, OR. |
| Aug 11 2003 | Ion exchange resin capsules for nitrogen monitoring in potato. Poster presentation at the 2003 Potato Association of America Annual Meeting, Spokane, WA. 10 - 14 August 2003. |
| Oct 4 2003 | Leaf spectral reflectance for non-destructive measurement of plant nutrient status. Invited workshop presentation at the 2003 American Society for Horticulture Science Annual Meeting, Providence, RI. 3 - 6 October 2003. |
| Oct 5 2003 | Occurrence of grape chlorosis in relationship to soil and climatic conditions. Poster presentation at the 2003 American Society for Horticulture Science Annual Meeting, Providence, RI. 3 - 6 October 2003 |
| Oct 9 2003 | Salt effects on cranberry soils, plant growth, and productivity. Oral presentation at the 2003 North American Cranberry Research and Extension Workers Conference Biannual Meeting, E. Wareham, MA . 8 - 10 October 2003.. |

- June 26 2002 Selected vineyard chemical properties after four years of variable rate fertilization. Poster presentation, 26 - 28 June 2002, American Society for Viticulture and Enology, Portland, OR
- Aug 13 2002 Precision agriculture. **Invited** oral presentation at Workshop 19, International Horticultural Congress, Toronto, Ontario, Canada, 10- 17 August 2002.
- Aug 13 2002 **Invited** workshop convener and moderator, Workshop 19: Managing water and nitrogen for improved use efficiency in potato production. International Horticultural Congress, Toronto, Ontario, Canada, 10 - 17 August 2002.
- Aug 1 2002 Spatial and temporal variability of cranberry soil pH. Poster presentation, International Horticultural Congress, Toronto, Ontario, Canada, 10 - 17 August 2002.
- Dec 3 2002 Investigation of Potential Climatic and Nutritional Causes of Grape Chlorosis. Northwest Center for Small Fruits Annual Meeting, Portland, OR, 3 December 2002.
- Dec 3 2002 Soil sampling for drip fertigated grapes. Northwest Center for Small Fruits Annual Meeting, Portland, OR, 3 December 2002.
- April 26 2001 Relating potato yield and quality to variability in soil characteristics. Oral presentation, 22 - 26 April 2001, Potato Association of America, St. Augustine, Florida.
- March 8 2001 Potassium fertilizers and potato yield and quality in the Columbia Basin. Poster presentation 7 - 8 March 2001, Western Nutrient Management Conference, Salt Lake City, Utah.
- July 11 2001 Application of GPS, GIS, yield monitors and brix monitors for effective vineyard management. **Invited** presentation, Space Age Wine Growing, ASEV/ES, Niagara-on-the Lake, Ontario, Canada.
- July 11 2001 Wine growing in 2025. **Invited** panel discussion panelist, Space Age Wine Growing, ASEV/ES, Niagara-on-the Lake, Ontario, Canada.
- July 24 2001 Evaluation of potato yield monitoring on commercial fields. Poster presentation, American Society for Horticultural Science, Sacramento, CA.
- July 25 2001 Water and fertilizers for remediation of salt affected cranberry soils. Oral presentation, American Society for Horticultural Science, Sacramento, CA.
- Nov 27 2001 Investigations of potential climatic and nutritional causes of grape chlorosis. Oral presentation, NW Center for Small Fruits Research, Boise, ID.
- July 18 2000 Leaf spectral reflectance for early detection of disorders in model annual and perennial crops. Poster presentation at the 5th International Conference on Precision Agriculture, 16 - 19 July 2000, Minneapolis, MN.
- Dec 8 2000 Nitrogen Release in virgin and cultivated organic cranberry soils. 7th International Symposium on Vaccinium Culture, Chillan, Chile.
- Jan 7 1999 Sulfate Plus on potatoes in Eastern Washington. Presentation at a Sulfur Fertilizer Symposium in Spokane, WA, Sponsored by Agrium.
- Feb 19 1999 Field deployable, real time sensors for early detection of crop stress. Report for the Motorola Research Review, Richland, WA.
- Mar 4 1999 Large Scale Phosphorus Field Trials for Developing VRT Fertilizer Needs Models. Oral Presentation at the Western Nutrient Management Meeting, Salt Lake City, UT.
- Jul 30 1999 Relationship of soil temperature, pH, and organic carbon content to nitrogen release in cranberry soils. Oral presentation at the American Society for Horticultural Science Annual Meeting, Minneapolis, MN.
- Jul 30 1999 Using site-specific applications to advance potato management in irrigated systems. **Invited** oral colloquium presentation at the American Society for Horticultural Science Annual Meeting, Minneapolis, MN.
- Mar 20 1998 Cranberry fruit mass, color and sugar development as affected by climatological factors. **Invited** seminar at the University of Laval, Quebec City, Quebec, Canada.
- Apr 1 1998 Precision agriculture to reduce non-point source sediment and nutrient loading. **Invited** presentation WA Dept. of Ecology Conf.: Partnerships in Preventing Polluted Runoff, Wenatchee, WA.
- Jul 20 1998 Evaluating commercial cranberry bogs for variability: Developing information for precision management. Poster presentation International Precision Agriculture Symposium, St. Paul, MN.
- Jul 20 1998 Use of precision farming practices in grape production. Poster presentation International Precision Agriculture Symposium, St. Paul, MN.
- Jul 21 1998 Phosphorus fertilizer management strategies for variable rate fertilizer applications in center pivot irrigated potato rotations. Oral presentation Internat. Precision Agriculture Symposium, St. Paul, MN.
- Jul 27 1998 Environmental implications of potato nutrient management. **Invited** Symposium presentation, Potato Assoc. of America Annual Meeting, Fargo, ND. (No abstract).
- Oct 30 1997 Spatial variability of evapotranspiration for site-specific management. Poster at the Amer. Soc. Agron Meetings, Anaheim, CA.

Extension/Outreach (Invited Presentations) – 1997 – 2012

- Nov 15 2012 Concord Grape Report Card. Washington State Grape Society Annual Meeting. Grandview WA.
- Sep 15 2012 Soils: Phosphorus and Water Movement. Statewide Master Gardeners. Pasco, WA.

Aug 10 2012 Nitrogen Fertilizer Management for Concord Grape. WSGS/WSU Viticulture Field Day, Prosser, WA
Mar 5 2012 Cranberry Fertilizer Facts and Myths. Ocean Spray Cranberries, Inc. Annual Grower Meeting, Orlando, FL
Apr 3 2012 Soils: Phosphorus and Water Movement. Benton County Master Gardeners. Kennewick, WA.
Feb 8 2012 Foliar vs Granular Fertilizers. WAWGG Annual meeting, Kennewick, WA (presented via Skype from Chile).
Nov 18 2011 Grape Nutrient Deficiency Symptoms: A Pictorial Parade. Washington State Grape Society Annual Meeting, Grandview, WA
Nov 17 2011 Sustainability report card for Concord Grape. Washington State Grape Society Annual Meeting, Grandview, WA
Aug 12 2011 Nutrient Deficiency Symptoms in Red and White Wine Grapes. Washington State Grape Society Field Day, Prosser, WA
Aug 9 2011 Tissue testing and nutrient management for wine grapes. Idaho Wine Commission Summer Field Day. Nampa, ID
May 19 2011 Nutrient and Soil Moisture Management to Balance Canopy and Crop. WSU/WAWGG "Get set for Bloom Workshop", Richland, WA
May 19 2011 Cover crops for grapes. NRCS Workshop: Cover Crops in Orchard and Vineyard Training, Quincy, WA
Apr 30 2011 Water use history of hops and grapes in Central Washington. 8th Washington Hydrology Symposium, Prosser, WA
Feb 9 2011 Grape Leaf Tissue Testing for the Irrigated Pacific Northwest. WAWGG Annual meeting, Kennewick, WA,
Feb 7 2011 Understanding and exploring water movement in cranberry bog soils. B.C. Cranberry Congress, Richmond, BC
Feb 2 2011 Soils of Eastern Washington. Yakima Master Gardener Program, Ahtanum, WA.
Jan 19, 2010 Cranberry Nutrition Basics. BC Cranberry Congress, Richmond, BC.
Jan 19, 2010 Tools for Nutrition Management. BC Cranberry Congress, Richmond, BC.
Jan 31, 2010 Cranberry Nutrition: An A to Z Guide. Washington Winter Cranberry Grower's Meeting, Raymond, WA.,
Feb 5, 2010 Matching Variety to Site. Washington Association of Wine Grape Growers Annual Meeting, Kennewick, WA.
Aug 3, 2010 Tissue Test Standards for Perennial Fruit Crops in the Inland Pacific Northwest: A discussion of recent developments of standards for tissue-testing in grapes and an overview of information on apples. Spokane, WA
Nov 18, 2010 Alphabet Soup for Concord Grapes. Washington State Grape Society, Grandview, WA.
Dec 15, 2010 Tissue Test Standards for Perennial Fruit Crops in the Inland Pacific Northwest: A discussion of recent developments of standards for tissue-testing in grapes and an overview of information on apples. Pasco, WA
Nov 19 2009 Winegrape tissue nutrient standards for the irrigated Pacific Northwest. Washington State Grape Society, Grandview, WA.
July 28 2009 Research advances in wine and juice grape: field and pot studies Washington State Grape Society Summer Field Day, Prosser, WA.
Nov 20 2008 Nitrogen management and grape quality. Washington State Grape Society, Grandview, WA.
June 30 2008 Avoiding common mistakes in the winery. Western Washington Wine Workshop. Mt. Vernon
Apr 22 2008 It is a Disease or is it a Disorder? Grape Disease Workshop,, Prosser, WA.
Apr 12 2008 Soils for producing premium grapes. Vines to Wine Workshop, Prosser WA
Apr 12 2008 Soil and tissue testing for new and established vineyards. Vines to Wine Workshop, Prosser WA
20 Feb 2009 Nutrient uptake in Concord grape. National Grape local grower meetings. 2 meetings, Wapato, WA and Grandview, WA
Feb 7 2008 Soil sampling and testing. WAWGG Annual Meeting, Kennewick, WA.
Dec. 11 2007 Soil and tissue testing does and don'ts for vineyards and orchards. Far West Fertilizer Annual Conference, Kennewick, WA.
Dec. 6 2007 Concord grape mineral nutrient distribution, Part 2: Micronutrients. Grape fieldmen's breakfast, Prosser, WA.
Nov. 14 2007 Concord whole plant C-N-P-K Budget. Washington State Grape Society Annual Meeting, Grandview, WA.
Nov. 1 2007 Concord grape mineral nutrient distribution, Part 1: Ca, Mg, S. Grape fieldmen's breakfast, Prosser, WA.
Oct. 31 2007 Soil moisture distribution in drip irrigated vineyards. Wine Tourism- Georgia (the country). Prosser, WA.
Sept. 22 2007 Wine judging: Are the judges really blind? Harvest School, Wenatchee, WA.
Feb. 21 2007 Nutrition for Concord Grape Vineyards. National Grape Local Area Growers Meetings (3 meetings, held in two locations [Wapato, Grandview], over 21 & 22 Feb)
Feb. 20 2007 Nutrient variability in vineyards and orchards. InfoAg Northwest, Kennewick, WA,
Feb. 20 2007 Sensors for in-season N management. InfoAg Northwest, Kennewick, WA

Nov. 16 2006 Do you know what your vine needs? Washington State Grape Society Meeting, Grandview, WA.

Aug. 22 2006 Partitioning of mineral nutrients in grapevines. Washington Association of Wine Grape Grower's Research Field Day.

July 19 2006 Potato Specific Gravity and Nutrient Management. Presentation at the Potato Growers of Alberta Summer Meeting, Taber, Alberta.

Feb. 28 2006 Does precision viticulture apply to small farm management? Presentation at the 2006 Oregon Wine Industry Symposium, Corvallis, OR.

Feb. 26 2006 Soil texture by feel. Grape Camp exercise. Prosser, WA.

Feb. 8 2006 Nutrient and grape quality interactions: It's not just nitrogen. Washington Association of Wine Grape Grower's Meeting, Kennewick, WA.

Nov. 18 2005 Precision Viticulture Australian Style. Washington State Grape Society Meeting, Grandview, WA.

Sept. 1 2005 Salinity and Sodcity in Australian Vineyards. Presentation at the Grape Fieldmen's Breakfast, Prosser

July 14 2005 WSGS Field Day: Grape Chlorosis Research, WSU-Prosser Roza Research Farm.

Sept. 29 2004 Organic vs. commercial fertilizers: What is the difference? Fourth Annual Re-use Water Consortium Meeting, Boardman, OR.

Sept. 29 2004 Soluble salts, EC and SAR: What do they mean? Fourth Annual Re-use Water Consortium Meeting, Boardman, OR.

July 20 2004 Grape soil and nutrient management research. Viticulture Certificate Program Practicum, Prosser, WA.

July 1 2004 Cover crops as a source of N for organic grape production. Grape Fieldmen=s breakfast, Prosser, WA

June 15 2004 Soil sampling and other new projects. Washington Association of Wine Grape Grower's Viticulture 401; Prosser, WA.

May 19 2004 Vine Nutrition and high pH soils. Washington Association of Wine Grape Grower's Viticulture 101, Prosser, WA.

Mar. 26 2004 Get the real dirt on grape soils. Walla-Walla Community College Research Roundtable, Walla-Walla, WA.

Jan 16 2004 Do Controlled Release Fertilizers fit in with BMPs? Columbia Basin Crop Consultants annual short course, Moses Lake, WA.

Mar. 24 2004 Grape Chlorosis: What we thought we knew and what we know now. National Grape Spring Grower Meeting; Toppenish, WA.

Mar. 23/30 2004 Grape Chlorosis: What we thought we knew and what we know now. National Grape Spring Grower Meeting(s); Grandview, WA.

Feb. 5 2004 Now add nutrients. Washington Association of Wine Grape Growers annual meeting Yakima, WA.

Feb. 5 2004 Session moderator. "Get down and dirty: Vine management from a soiled perspective". Washington Association of Wine Grape Growers annual meeting, Yakima, WA.

Nov 21 2003 Grape chlorosis: Recent efforts and findings. Washington State Grape Society Annual Meeting, Grandview, WA

Nov 1 2003 Vineyard irrigation and nutrition. Second annual Lewis and Clark Regional Grape Symposium, Clarkston, WA

Aug 13 2003 Glacial history and development of soils in Eastern Washington. Presentation as part of the Potato Association of America Agricultural Tour, enroute from Davenport to Spokane, WA.

Jun 4 2003 Feed the Vine, Starve the Nematodes. Joint presentation with Dr. E. Riga. Washington Association of Wine Grape Growers Summer Workshop. Prosser, WA.

Apr 25 2003 Precision Viticulture. Texas Coop Extension Agents Educational Tour. Prosser, WA.

Apr 25 2003 Wine Tasting. Texas Coop Extension Agents Educational Tour. Joint presentation with J. Tarara, Prosser, WA.

Feb 26 2003 What makes a quality soil? Sweet Cherry Shortcourse, Yakima, WA.

Jan 17 2003 Precision Agriculture and Potatoes - Recent Findings. Columbia Basin Crop Consultants Short Course, Moses Lake, WA.

Nov 18 2002 The Nitrogen Cycle and Nitrogen Management Practices for Waste-water Re-use. Agriculture and Water Quality in the Pacific Northwest Workshop #2: Managing organic nutrients, Yakima, WA.

Nov 18 2002 How Phosphorus and Potassium Differ from Nitrogen in Soils and Management. Agriculture and Water Quality in the Pacific Northwest Workshop #2: Managing organic nutrients, Yakima, WA.

Nov 14 2002 Variable Rate Nutrient Management in Grape. Washington State Grape Society, Grandview, WA..

Nov 12 2002 Variable Rate Nutrient Management in Grape Seminar - WSU-Prosser,.

Nov 6 2002 Comparison of nutrient needs between juice and wine grapes. Benton Conservation District Annual Pest Management Seminar, Prosser, WA.

Nov 6 2002 Are plants what they eat? Grandview Rotary, Grandview, WA.

Nov 5 2002 Variable Rate Nutrient Management in Grape.. Soil Science Seminar, Pullman, WA:

Feb 21 2002 Synthetic versus Organic Fertilizers. Presentation at the 2002 PNW Agriculture Chemical Short course, Eugene, OR.

Feb 6 2002 Cool Tools for Growing Great Wine, Grower Panel Moderator, Washington Association of Wine Grape Growers, Yakima, WA. Panel - 2 growers and 2 service providers.

Nov 29 2001 Digital imagery for grape canopy management. Washington State Grape Society Annual Meeting, Grandview, WA.

Oct.31 2001 Physics of Water in Soils: Water behavior in soil; Saturated and unsaturated flow; Water infiltration and movement; Plant available water, soil drainage and water storage. WSU Viticulture Short Course - Soils, nutrients and water, WSU-Tricities.

Oct 31 2001 Nutrient management: Water-nutrient interactions. WSU Viticulture Short Course - Soils, nutrients and water,WSU-Tricities.

Oct 30 2001 Introduction to Soil Properties important for plant growth - Soil texture and structure; Soil depth; Soil pH and cation exchange capacity. WSU Viticulture Short Course - Soils, nutrients and water, WSU-Tricities.

Oct 30 2001 The 16 essential plant nutrients; Non-soil derived nutrients; Soil derived nutrient forms; Soil derived nutrient uptake. WSU Viticulture Short Course - Soils, nutrients and water, WSU-Tricities.

Sept. 19 2001 Precision Agriculture in Irrigated Crops. Leadership Tricities Class VII, Pasco, WA.

Aug. 17 2001 Nutrient, weed, and soil moisture management research efforts in viticulture at WSU-Prosser. Presentation as part of the WSU launch for the new Viticulture and Enology Teaching Program. WSU-Tricities.

June 23 2001 Precision agriculture for nutrient and pest management in irrigated agriculture. Washington League of Women Voters Statewide Conference, Richland, WA.

Feb 1 2001 Alternatives to soil testing. Grape Fieldman=s Breakfast, Prosser, WA.

Jan 19 2001 Measuring and monitoring nitrogen in Columbia Basin crops. Columbia Basin Crop Consultants Short Course, Moses Lake, WA.

Jan 4 2001 Precision agriculture for nutrient and pest management in irrigated crops. Pesticide Recertification Training for the Joint Sunnyside/Roza Irrigation Districts, Sunnyside, WA.

Nov 14 2000 Lime as a soil amendment. Pacific Northwest Vegetable Association Annual Meeting, Pasco, WA.

Nov 7 2000 Pest management in precision ag. Benton Conservation District Annual Pest Management Seminar, Prosser, WA.

Nov 2 2000 Advances in precision ag practices: A soil fertility perspective. Washington State Weeds Conference, Yakima, WA.

Sept 20 2000 Precision farming in irrigated agricultural systems. Leadership Tri-Cities Agriculture Seminar, Kennewick, WA

Mar 28 2000 Nutrient management in peat and upland plantings. Atlantic Cranberry Management Course, Amherst, NS, CANADA.

Mar 27 2000 Nitrogen dynamics in a cranberry bog. Atlantic Cranberry Management Course, Amherst, NS, CANADA.

Mar 27 2000 Plant nutrient management: turning new plantings into producing bogs. Atlantic Cranberry Management Course, Amherst, NS, CANADA.

Feb 15 2000 How variability in soil chemistry affects nutrient availability. Western Precision Agriculture Conference, Pasco, WA.

Jan 25 2000 Growing grapes and the nutrients they need. Wilbur Ellis Wine Grape Production Meeting; Pasco, WA.

Sep 15 1999 Precision farming in irrigated agricultural systems. Leadership Tri-Cities Agriculture Seminar, Pasco, WA.

Jul 8 1999 Fertilizer applications and the movement of fertilizers in the soil profile. Presentation at the Washington State Grape Society=s Summer Tour, Sunnyside, WA

Feb 19 1999 The hows and whys of soil testing. Presentation at the Columbia Basin Potato IPM Workshops; Moses Lake, WA.

Feb 18 1999 The hows and whys of soil testing. Presentation at the Columbia Basin Potato IPM Workshops; 18 February 1999, Richland, WA.

Feb 16 1999 Evaluating soil and petiole testing for effectiveness in predicting potato nitrogen need. Report to the WA State Potato Commission Research Review, Pullman, WA..

Feb 5 1999 Root function and pest resistance. Presentation as part of WSU pesticide recertification training for AgriNorthwest; Hermiston, OR.

Feb 3 1999 Precision farming in potatoes: A case study. Presentation at the Washington Potato Conference, Moses Lake, WA; group presentation with R. Evans, D. Nerpel, L. Denver, W. Rehberg, and M. Hattendorf.

Jan 13 1999 How potato plants use nutrients. Presentation at the Columbia Basin Potato Workshops; Moses Lake, WA.

Jan14 1999 How potato plants use nutrients. Presentation at the Columbia Basin Potato Workshops; Moses Lake, WA.

Sep 16 1998 Precision farming in irrigated agricultural systems, Leadership Tri-Cities Agriculture Seminar, Pasco, WA

Aug 6 1998 Reducing surface and ground water contamination in irrigated potato fields. Field side presentation at USDA Paterson Research Farm made for the WA Potato Industry Water Issues Tour & Symposium (for government agencies) conducted by the WA State Potato Commission. Paterson, WA.

Feb 24 1998 Cover Crop Management as a Nutrient Conservation Strategy in Washington, Simplot Crop Advisor Inservice Training, Moxee, WA.

Feb 11 1998 A team approach to site-specific management in an irrigated potato rotation, Western Precision Ag Conference, Boise, ID- group presentation, coordinated by Joan Davenport; presented by Joan Davenport

(Washington State University), Mary Hattendorf (Washington State University), Dave Nerpel (Ag Chem Equipment Corp.), and Wade Rehberg (Lamb Weston, Inc.).

Jan 21 1998 Phosphorus and potassium fertilizer studies on potatoes, 1998 Columbia Basin Potato Workshop, Moses Lake, WA.

Jan 20 1998 Phosphorus and potassium fertilizer studies on potatoes, 1998 Columbia Basin Potato Workshop, Pasco, WA.

Dec 4 1997 Promises and pitfalls of precision agriculture - P and K fertilizer studies in potato, Columbia Basin Crop Consultants, Moses Lake, WA.

Nov 14 1997 Soil fertility considerations for precision farming, WPCA Ann. Mtg., Yakima, WA.

Sep 17 1997 Precision farming in irrigated agricultural systems, Leadership Tri-Cities Agriculture Seminar, Pasco, WA.

July 25 1997 Nitrogen release by cranberry soils, WSU-Long Beach Cranberry Field Day.

GRANT SUPPORT (1997 - 2012):

2012 (to date)

Joan Davenport, Naidu Rayapati. Phosphorus and Leafroll; Agency WA WINE COMM Amount requested \$40,325 Amount received \$40,325

Joan Davenport. Soil Supplements for alleviating Chlorosis in Concord Grapes, Agency WA CONCORD GRAPE Funded / 3/1/2011 - 3/31/2011, Amount requested \$18,678 Amount received \$17,678.

Joan Davenport, Markus Keller. Nitrogen Rates and Timing for Concord Grape, Agency WA CONCORD GRAPE, 3/31/2011 - 3/31/2012, Amount requested \$30,565 Amount received \$25,565.

2011 (\$3,038,587/425,380)

Chad Kruger, David Granatstein, Carol Miles, Joan Davenport, Lynne Carpenter-Boggs, Lindsey Dutoit, Stephen Jones, Vincent Jones. Organic Farming Research for the Northwest, Agency USDA, Funded, 9/1/2009 - 8/31/2011. Amount requested \$231207 Amount received \$231207

Joan Davenport, Markus Keller. Winegrape Nutrition: Deficiency Symptoms and Micronutrient Response; Agency WA WINE COMM Amount requested \$22109 Amount received \$22109

Joan Davenport, Greg Jones. Developing a Site Selection Tool Using GIS and Grapes as a Model System; Agency USDA, Dates 11/30/2010 - 9/30/2011, Amount requested \$34928 Amount received \$30038

Joan Davenport. Micronutrient Supplemental for Concord Grapes, Agency WA CONCORD GRAPE Funded /3/1/2010 - 3/31/2011, Amount requested \$17991 Amount received \$17991.

Joan Davenport, Markus Keller. Nitrogen Rates and Timing for Concord Grape, Agency WA CONCORD GRAPE, 3/31/2010 - 3/31/2011, Amount requested \$24856 Amount received \$24856.

Joan Davenport. FY11 Wine Board Allocations - Late Season N, GIS, Agency WA WINE ADV, 7/1/2010 - 6/30/2011, Amount requested \$50000 Amount received \$50000

Joan Davenport, Doug Walsh, Michelle Moyer, Sally O'Neal. Developing a Sustainability Report Card for Concord Grape Production; Agency WA AG, 9/30/2011 - 9/29/2014; Amount requested \$65386 Amount received \$65386

2010 (\$2,943,163/442,841)

Ayars, J. A. McElrone, G. Baneulos, M., Battany, J. R. Davenport., C. Greive, K. Schwabe, A. Walker, and D. Wong. 2010. Developing sustainable vineyard water management strategies for limited and impaired water supplies. USDA/NIFA, SCRI - **\$2,597,000 (Davenport \$312,448)**

Carpenter-Boggs, L., J. Davenport, L. Dutoit, D. Granatstein, S. Jones, V. Jones, and C. Miles. 2009. Organic Farming Research for the Northwest. USDA-CSREES. **\$231,207 (Davenport \$15,437)**

Davenport, J. 2010. Micronutrient supplements for Concord Grape. Washington State Concord Grape Research Council. Funded, **\$17,991.**

Davenport, J. R. 2010. Examination of Late Season Applications of Organic or Conventional Nitrogen Sources and Its effect on Wine Grape Quality. . Wine Advisory Board. **\$20,000.**

Davenport, J. R. 2010. Developing a Grape Site Selection Tool Using GIS. . Wine Advisory Board. **\$30,000.**

Davenport, J., and M. Keller. 2009. Winegrape Nutrition: Deficiency Symptoms and Micronutrient Response. Wine Advisory Board. **\$22,109.**

Davenport, J., and M. Keller. 2010. Nitrogen Rates and Timing for Concord Grape Production. Washington State Concord Grape Research Council. Funded, **\$24,856.**

2009 (\$444,784/98,588)

Bondada, B., J. Davenport, and K. Williams. 2009. Funding Support for Field Trips Associated with Advanced Viticulture Class. WSU-CAHNRS **\$4,000**

Carpenter-Boggs, L., J. Davenport, L. Dutoit, D. Granatstein, S. Jones, V. Jones, and C. Miles. 2009. Organic Farming Research for the Northwest. USDA-CSREES. **\$231,207 (Davenport \$13,201)**

Davenport, J., M. Olmstead. 2009. Winegrape Nutrition: Deficiency Symptoms and Micronutrient Response. Wine Advisory Board. **\$30,000.**

Davenport, J., B. Stevens, M. Keller. 2009. Nitrogen Rates and Timing for Concord Grape Production. Washington State Concord Grape Research Council. Funded, **\$23,297.**

Davenport, J., B. Stevens. 2009. Micronutrient supplements for Concord Grape. Washington State Concord Grape Research Council. Funded, **\$2,090.**

White, L., B. Strik, and J. Davenport. 2009. Storing cranberry fruit on the vine – impacts on fruit physiology, yield, and quality. NW Center Small Fruits Research (ARS). **\$29,190. (Davenport, \$6000)**

Yoder, J., J. Davenport; S. Chen; H. Hinman; and S. Galinato. 2009. Viability of Sugar Beet Production for Ethanol Production in Washington State. WA State Dept of Ag. **\$125,000 (Davenport \$20,000)**

2008 (\$214,967)

Cheng, L., M. Keller, J. Davenport. 2008. Determining the Effectiveness of FeEDDHA Application on Alleviating Leaf Chlorosis of Concord Vines. NW Center Small Fruits Research. Total grant **\$37,000** ; WSU Portion **\$5,500.**

Davenport, J., B. Stevens, M. Keller. 2008. Nitrogen Rates and Timing for Concord Grape Production. Washington State Concord Grape Research Council. Funded, **\$23,500.**

Davenport, J., B. Stevens. 2008. Micronutrient supplements for Concord Grape. Washington State Concord Grape Research Council. Funded, **\$17,900.**

Davenport, J., M. Olmstead. 2008. Winegrape Nutrition: Deficiency Symptoms and Micronutrient Response. Wine Advisory Board. **\$13,347.**

Davenport, J. R., M. A. Olmstead, K. Ringer, J. vandenHeuvel, T. Schmit, W. Wilcox. 2008. Developing a team to address optimizing white wine quality through plant nutrient management. USDA/SCRI. **\$ 79,487**

Davenport, J., C. DeMoranville, T. Roper. 2008. Phosphorus in cranberry surface waters in relations to reduced P management. Ocean Spray Cranberries (WSU portion only) **\$3,000**

Davenport, J. 2008. Field Testing Eco Clean on Onion and Potato Products in the Columbia Basin 2008 Field Season. Jaspco, Inc. **\$4,754**

White, L., B. Strik, and J. Davenport. 2008. Storing cranberry fruit on the vine – impacts on fruit physiology, yield, and quality. NW Center Small Fruits Research (ARS). **\$35,979.**

2007 (\$67,510)

Cheng, L., M. Keller, J. Davenport. 2007. Determining the Effectiveness of FeEDDHA Application on Alleviating Leaf Chlorosis of Concord Vines. NW Center Small Fruits Research. Total grant **\$37,000** ; WSU Portion **\$5,000**.

Davenport, J. R. 2007. Determining the Correct Phosphorus Rate for Productive Cranberries. Cranberry Institute. **\$10,836**

Davenport, J. R., R. G. Stevens, and M. Keller. 2007. Nitrogen rates and timing for drip irrigated Concord grape. Washington State Concord Grape Research Council. **\$17,900**

Davenport, J. R., R. G. Stevens, M. Keller, J. Harbetson , and L. Mrachek. 2007. Developing tissue nutrient standards for irrigated wine grape in central Washington. Wine Advisory Committee. **\$11,000**.

White, L., B. Strik, and J. Davenport. 2007. Storing cranberry fruit on the vine – impacts on fruit physiology, yield, and quality. NW Center Small Fruits Research (ARS). **\$22,774**.

2006 (\$129,236)

Cheng, L., M. Keller, J. Davenport. 2006. Determining the Effectiveness of FeEDDHA Application on Alleviating Leaf Chlorosis of Concord Vines. NW Center Small Fruits Research. Total grant **\$38,500** ; WSU Portion **\$5,500**.

Davenport, J. R. 2006. Compost Effects on Wine Grape Vineyards. Cedar Grove Compost. **\$4,475** .

Davenport, J. R. 2006. Determining the Correct Phosphorus Rate for Productive Cranberries. Cranberry Institute. **\$12,124**.

Davenport, J. R., M. Keller, P. Schreiner, K. Whitley and J. Marden. 2006. Assessing whole plant mineral nutrient distribution in Concord Grape. Washington State Concord Grape Research Council, **\$34,085**.

Davenport, J. R., and R. G. Stevens. 2006. Developing tissue nutrient standards for irrigated wine grape in the Pacific Northwest. Northwest Center for Small Fruits. **\$25,552**..

Davenport, J. R., R. G. Stevens, M. Keller, J. Harbetson , and L. Mrachek. 2006. Developing tissue nutrient standards for irrigated wine grape in central Washington. Wine Advisory Committee. **\$14,500**.

2005 (\$67,217)

Davenport, J. R. 2005. Determining the Correct Phosphorus Rate for Productive Cranberries. Cranberry Institute. **\$5,124**.

Davenport, J. R., M. Keller, P. Schreiner, K. Whitley and J. Marden. 2005. Assessing whole plant mineral nutrient distribution in Concord Grape. Washington State Concord Grape Research Council, **\$10,145**. Includes *2 year Doctoral Research Assistantship Research Enhancement Award*. WSU ARC.

Davenport, J. R., R. G. Stevens, M. Keller, S. E. Spayd, and L. Mrachek. 2005. Developing tissue nutrient standards for irrigated wine grape in central Washington. Wine Advisory Committee. **\$22,500**.

Stevens, R. G., and J. R. Davenport. 2005. Cover crops for N supply for organic grape production. Northwest Center for Small Fruits. **\$29,448**.

2004 (\$133,554)

Davenport, J. R. 2004. Determining the Correct Phosphorus Rate for Productive Cranberries. Cranberry Institute. **\$5,008**.

Davenport, J. R. 2004. Evaluating Compost Effects on Wine Grape Vineyards. Gift Grant from Cedar Grove Composting, **\$3,612**.

Davenport, J. R. 2004. Use of slow release fertilizers to mitigate biennial bearing in cranberry. Washington Cranberry Commission. **\$1,450**.

Davenport, J. R., M. Keller, P. Schreiner, K. Whitley and J. Marden. 2004. Assessing whole plant mineral nutrient distribution in Concord Grape. Washington State Concord Grape Research Council, **\$20,950**. Includes *Doctoral Research Assistantship Research Enhancement Award*. WSU ARC.

Davenport, J. R., and R. G. Stevens. 2004. Developing tissue nutrient standards for irrigated wine grape in the Pacific Northwest. Northwest Center for Small Fruits. **\$20,000**.

Davenport, J. R., R. G. Stevens, M. Keller, S. E. Spayd, and L. Mrachek. 2004. Developing tissue nutrient standards for irrigated wine grape in central Washington. Wine Advisory Committee. **\$20,000**.

Keller, M., J. R. Davenport, and J. M. Tarara. 2004. An experimental vineyard for Concord research. **\$63,984** Washington State Concord Grape Research Council,.

Stevens, R. G., and J. R. Davenport. 2004. Cover crops for N supply for organic grape production. Northwest Center for Small Fruits. **\$30,889**.

2003 (\$825,194)

Davenport, J. R. 2003. Enhanced Management of agricultural perennials (EMAP) via remote sensing and GIS. Subaward via Rutgers Univ. from larger grant from USDA/IFAFS, total grant **\$600,000**; WSU portion **\$56,250**.

Davenport, J. R. 2003. Research in viticulture soil fertility. ASI, gift grant **\$16,975**.

Davenport, J. R. 2003. Use of slow release fertilizers to mitigate biennial bearing in cranberry. Washington State Cranberry Commission. **\$1,450**.

Davenport, J. R., and R. G. Stevens. 2003. Investigation of Potential Climatic and Nutritional Causes of Grape Chlorosis. Northwest Center for Small Fruits. **\$48,627**.

Davenport, J. R., R. G. Stevens, M. Keller, S. E. Spayd, and L. Mrachek. 2003. Developing tissue nutrient standards for irrigated wine grape in central Washington. Wine Advisory Committee. **\$20,000**.

Davenport, J. R., and J. M. Tarara. 2003. Monitoring Seasonal water use by irrigated Concord vines. Washington State Concord Grape Research Council, **\$13,082**.

Keller, M., J. R. Davenport, and J. M. Tarara. 2003. An experimental vineyard for Concord research. Washington State Concord Grape Research Council. **\$100,340**

Stevens, R. G., and J. R. Davenport. 2003. Cover crops for N supply for organic grape production. Northwest Center for Small Fruits. **\$24,720**.

2002 (\$934,400)

Davenport, J. R. 2002. Use of slow release fertilizers to mitigate biennial bearing in cranberry. Washington State Cranberry Commission. **\$1,400**.

Davenport, J. R., and R. G. Stevens. 2002. Investigation of Potential Climatic and Nutritional Causes of Grape Chlorosis. Northwest Center for Small Fruits. **\$18,828**.

Davenport, J. R., and R. G. Stevens. 2002. Soil sampling for drip fertigated grapes. Northwest Center for Small Fruits. **\$16,588**.

Davenport, J. R., and J. M. Tarara. 2002. Monitoring Seasonal water use by irrigated Concord vines. Washington State Concord Grape Research Council, **\$21,260**.

Keller, M., J. R. Davenport, J. M. Tarara, and C. W. Fraisse. 2002. An experimental vineyard for Concord research. Washington State Concord Grape Research Council. **\$76,324**.

Pierce, F.J., Davenport, J. R., and R. G. Stevens. 2002. Maintaining the Competitiveness of Tree Fruit Production through Precision Agriculture. Subaward via University of Florida. from larger grant from USDA/IFAFS, total grant **\$800,000**; WSU portion **\$196,115**.

2001 (\$83,011)

Davenport, J. R. 2001. Research in viticulture soil fertility. ASI, gift grant **\$22,630**.

Davenport, J. R., and N. S. Lang. 2001. Digital image and spatial analysis of environmental stress and soil fertility to improve canopy management in *Vitis*. Concord Grape Research Council. **\$40,381**.

Davenport, J. R., and R. G. Stevens. 2001. Investigation of potential climatic and nutritional causes of grape chlorosis. Northwest Center for Small Fruits, **\$20,000**.

2000 (\$208,134)

Davenport, J. R. 2000. Assessment of ion selective electrodes for nitrate and potassium measurements in soil slurries. Motorola through Center for Precision Ag Systems, **\$4,500**.

Davenport, J. R.. 2000. Research in potato soil fertility. Gift, Simplot , **\$12,644**

Davenport, J. R. 2000. Research in soil fertility. Gift, Agrium **\$3,000**

Davenport, J. R., N. S. Lang, J. M. Silbernagel, and E. M. Perry. 2000. Digital image and spatial analysis of environmental stress and soil fertility to improve canopy management in *Vitis*. Washington State Concord Grape Research Council, **\$39,285**.

Davenport, J. R., S. Manley, R.G. Evans, M.J. Hattendorf, R.G. Stevens, and A. K. Alva. 2000. Evaluating soil and petiole testing for effectiveness in predicting potato nitrogen need. Washington State Potato Commission; **\$39,705**.

Davenport, J. R., and C. A. Perillo. 2000. Development of >Laboratory in a Box= series for teaching Soil Physics to distant students. Verle Kaiser Conservation Endowment. **\$1,496**.

Davenport, J. R., E. O. Skogley, and D. Simmelink. 2000. Ion exchange resin capsules as alternatives to soil and plant tissue testing. Washington Technology Center; **\$88,304**

Roper, T. R., C. DeMoranville, and J. R. Davenport. 2000. Cranberry phosphorus budget. Cranberry Institute. Total budget **\$18,000**, **\$2,000** WSU portion.

Davenport, J. R.. 2000. Use of slow release fertilizers to mitigate biennial bearing in cranberry. Washington Cranberry Commission, **\$1,200**.

1999 (\$417,603)

Davenport, J. R. 1999. Sulfate Plus for use as a sulfur source in potato production in the Columbia Basin. Agrium; **\$9,484**.

Davenport, J. R. 1999. Slow release phosphorus for potato production in the Columbia Basin. Agrium. **\$5,500**.

Davenport, J. R. 1999. Comparison of slow release and conventional nitrogen fertilizers for potato production in the Columbia Basin. Simplot, **\$11,640**.

Davenport, J. R., S. Manley, R.G. Evans, M.J. Hattendorf, and R.G. Stevens. 1999. Evaluating soil and petiole testing for effectiveness in predicting potato nitrogen need. Washington State Potato Commission, **\$39,430**.

Davenport, J. R., N. S. Lang, and E. M. Perry. 1999. Field Deployable, Real-time sensors for early detection of crop stress: Phase 3 - Field testing and Phase 4 - Data analysis. Motorola. **\$50,000** funded as gift.

Davenport, J. R., and R. G. Stevens. 1999. Effects of potassium form source and timing on potato production in the Columbia Basin. Phosphate Potash Institute. **\$5,000**.

DeMoranville, C. J., J. R. Davenport, and T. R. Roper. 1999. Salt effects on cranberry soils, plant growth, and productivity. Massachusetts Department of Highways. Total grant **\$262,328**; WSU subcontract to UMASS **\$59,750**.

Lang, N. S., J. R. Davenport, J. M. Silbernagel, and E. M. Perry. 1999. Digital image and spatial analysis of environmental stress and soil fertility to improve canopy management in *Vitis*. Washington State Concord Grape Research Council. **\$34,221**.

1998 (\$150,456)

Davenport, J. R. 1998. Evaluating potato response to uniform and variable rate P fertilizer application to refine approaches to application rate decision making. AgChem Equip Co, **\$5,000**.

Davenport, J. R. 1998. Enhanced Ammonium Sulfate for use as a sulfur source in potato production in the Columbia Basin. Agrium, **\$4,840**.

Davenport, J. R. 1998. Comparison of slow release and conventional nitrogen fertilizers for potato production in the Columbia Basin. Simplot, **\$11,640**.

Davenport, J. R., R.G. Evans, M.J. Hattendorf, and R.G. Stevens. 1998. Evaluating soil and petiole testing for effectiveness in predicting potato nitrogen need. Washington State Potato Commission, **\$35,000**.

Davenport, J. R., N. S. Lang, D. Kramer, and E. M. Perry. 1998. Development of non-destructive measurement techniques for identifying nitrogen, disease and physiological disorders on two model crops. Motorola. Total grant **\$87,010**; WSU-Prosser **\$23,645**.

Davenport, J. R., and D. E. Schiffhauer. 1998. Use of soil moisture retention additives and slow release fertilizers on new cranberry plantings in sand soils. WA Cranberry Commission, **\$1,966**.

Davenport, J. R., and R. G. Stevens. 1998. Effects of potassium form source and timing on potato production in the Columbia Basin. Phosphate Potash Institute, **\$5,000**.

1997 (\$5,900)

Davenport, J. R., and R. G. Stevens. 1997. Effects of potassium form source and timing on potato production in the Columbia Basin. *Phosphate Potash Institute*, **\$5,000**.

Davenport, J. R. 1997. Development of monoliths for soils teaching at WSU-Tricities. Verle Kaiser Conservation Endowment, **\$900**.

TEACHING:

2012

On-line module in the WSU Viticulture Certificate Program. Principals of Soil and Nutrient Management for Irrigated Vineyards. Fifteen on-line lectures plus participation in an on site (Prosser based) field camps. Twenty seven students, all successfully completed the module and received a certificate.

SOILS 201: Soils: A living system Fertility Management: Fall 2010 – On-line course with 32 students currently enrolled. Effort 100%

SOILS 547: Soil Fertility Management: Fall 2010 – On-line course with 20 students initially enrolled. Effort 100%

2011

On-line module in the WSU Viticulture Certificate Program. Principals of Soil and Nutrient Management for Irrigated Vineyards. Fifteen on-line lecture plus participation in an on site (Prosser based) field camps. Twenty nine students, all successfully completed the module and received a certificate.

SOILS 201: Soils: A living system Fertility Management: Fall 2010 – On-line course with 45 students who completed the course. Effort 100%

ES/RP 101: Hosted Guest lab in Soils

Hort 413/513: Advanced Viticulture: Spring 2010 - Guest Lectures

Hort 313: Viticulture and Small Fruits: Fall 2010 – Guest lectures on cranberry and blueberry (3) (1 week of 15).

Guest Lectures: Hort 113: Introduction to Vines and Wines – Lecture on soils and geology as pertains to grape production.

2010

On-line module in the WSU Viticulture Certificate Program. Principals of Soil and Nutrient Management for Irrigated Vineyards. Fifteen on-line lectures plus participation in 2 on site (Prosser based) field camps. Twenty seven students, all successfully completed the module and received a certificate.

SOILS 201: Soils: A living system Fertility Management: Fall 2010 – On-line course with 45 students who completed the course. Effort 100%

SOILS 547: Soil Fertility Management: Fall 2010 – On-line course with 13 students initially enrolled and 11 who completed the course. Effort 100%

Hort 413/513: Advanced Viticulture: Spring 2010 - Guest Lectures

Hort 313: Viticulture and Small Fruits: Fall 2010 – Guest lectures on cranberry and blueberry (3) (1 week of 15).

Guest Lectures: Hort 113: Introduction to Vines and Wines – Lecture on soils and geology as pertains to grape production.

Guest Lecture: Plant Pathology 303 – Lecture on disorders that mimic virus in grape vines and field trip participation to show visual signs of chlorosis and blackleaf.

2009

On-line module in the WSU Viticulture Certificate Program. Davenport, J. R., and R. G. Stevens. 2009. Principals of Soil and Nutrient Management for Irrigated Vineyards. Fifteen on-line lectures (9 Davenport, 6 Stevens) plus participation in 2 on site (Prosser based) field camps. Twenty five students, all successfully completed the module and received a certificate.

SOILS 201: Soils: A living system Fertility Management: Fall 2009 – On-line course with 68 students initially enrolled and 59 who completed the course. Effort 100%

Hort 413/513: Advanced Viticulture: Spring 2009 - Team taught with B. Bondada. Students 20; Effort 30%

Hort 313: Viticulture and Small Fruits: Fall 2009 – Guest lectures on cranberry and blueberry (3), Students 29 (1 week of 15).

Guest Lecture: Hort 113: Introduction to Vines and Wines – Lecture on soils and geology as pertains to grape production.

2008

On-line module in the WSU Viticulture Certificate Program. Davenport, J. R., and R. G. Stevens. 2008. Principals of Soil and Nutrient Management for Irrigated Vineyards. Fifteen on-line lectures (9 Davenport, 6 Stevens) plus participation in 2 on site (Prosser based) field camps. Seventeen students, 14 successfully completed the module and received a certificate.

SOILS 547: Soil Fertility Management: Fall 2008 – On-line course with 13 students initially enrolled and 11 who completed the course. Effort 100%

Hort 313: Viticulture and Small Fruits: Fall 2008 - Team taught with K. Williams Fall, Students 24; Effort 25%.

Hort 413/513: Advanced Viticulture: Spring 2008 - Team taught with K. Williams and B. Bondada. Students 30; Effort 45%

Guest Lecture: Plant Pathology 303 – Lecture on disorders that mimic virus in grape vines (1 hour, Sept 25) and field trip participation to show visual signs of chlorosis and blackleaf.

Guest Lecture: Soils and nutrient management. Walla Walla Community College, 19 April 2008. 1 Hour

2007

Team teaching participation, Horticulture 499 (Substitution for Advanced Viticulture) January - May 2007. Due to low enrollment, Hort 413/513 was not offered in the Spring 07 semester. Individual instruction for this class, as Hort 499, was provided to student Robin Graham, who required this class to complete his degree. This was team taught by K. Williams and J. Davenport.

2006

On-line module in the WSU Viticulture Certificate Program. Davenport, J. R., and R. G. Stevens. 2006. Principals of Soil and Nutrient Management for Irrigated Vineyards. Fifteen on-line lectures (9 Davenport, 6 Stevens) plus participation in 2 on site (Prosser based) field camps. Twenty two students, 14 successfully completed the module and received a certificate.

Guest lectures, Horticulture 313 (Small Fruits and Viticulture): Blueberry & Cranberry; 27, 29 November, 1 December 2006, Tricities, WA (WHETS to Pullman). Instructor, Dr. K. Williams.

Guest lecture: Nutrient variability in two Australian vineyards. Hort 409: Seminar in Viticulture and Enology. 27 Sept 2006. 1 hr.

Class field trip presentation: Chlorosis and blackleaf in grape. PI P 300 Diseases of Fruit Crops. 23 Sept 2006, 1 hr

Guest lecture: Disorders that mimic viruses in grapes. PI P 300 Diseases of Fruit Crops. 21 Sept 2006, 1 hr.

Guest lecture: Soils for viticulture. Lecture in Introduction to Viticulture Class, Yakima Valley Community College, Yakima and Grandview (WHETS). 16 May 2006, 2.5 hours.

Team teaching participation, Horticulture 413/513 (Advanced Viticulture) January - May 2006.

Activities: 8 lectures, arrangements for class field trip, input of materials for soils component (module 1) of virtual vineyard project (site info for 6 sites), student advisement on virtual vineyard and independent study projects. Involvement in exam preparation.

2005

Guest lectures, Horticulture 313 (Small Fruits and Viticulture): Cranberry; 28 & 30 November 2005, Tricities, WA (WHETS to Pullman). Instructor, Dr.K. Willemsen; class size (attendance) 25 students.

Guest Lecture: ES/RP 420/590—Field and Laboratory Techniques in Soil Science - Field trip to WSU IAREC Saturday, 11 June 2005, Intro to the R&E Center, overview of R&E efforts, tour of selected sites on both HQ and Roza Units. 10 students

2004

Team teaching participation in Soils 441 (Soil Fertility) January - May 2004.

Activites: Six lectures, one field lab.

Team teaching participation, Horticulture 413/513 (Advanced Viticulture) January - May 2004.

Activities: Six lectures, organization of an all day field trips, development of student exercises, involvement in exam preparation.

2003

Module in the WSU Viticulture Certificate Program. Davenport, J. R., and R. G. Stevens. 2003. Principals of Soil and Nutrient Management for Irrigated Vineyards. Five lectures and one field trip held from 17 April - 19 July 2003, Prosser, WA. Twenty two students, 19 successfully completed the module and received a certificate.

Team teaching participation in Soils 441 (Soil Fertility) January - May 2003.

Activites: Five lectures, one field lab.

Guest lectures, Horticulture 313 (Small Fruits and Viticulture): Cranberry; 12 & 17 November 2003, Tricities, WA (WHETS to Pullman, Wenatchee). Instructor, Dr.K. Willemsen; class size (attendance) 25 students.

Guest seminar (invited), Horticulture 409 - Viticulture and Enology Seminar; Fall 2003.

Concord Grape Nutrient Management: Myths, Mysteries and More (1 hour); 29 September 2003, 11 students Tricities, 7 students Pullman.

Team teaching participation, Horticulture 413/513 (Advanced Viticulture) January - May 2003.

Activities: Two lectures, organization of two all day field trips, involvement in exam preparation.

Team teaching participation in Soils 441 (Soil Fertility) January - May 2003.

Activities: Three lectures, one discussion section, one field lab.

2002

Guest lectures, Horticulture 313 (Small Fruits and Viticulture): Cranberry; 4 & 6 November 2002, Tricities, WA (WHETS to Pullman, Wenatchee). Instructor, Dr.K. Willemsen; class size (attendance) 30 students.

Team teaching participation, Horticulture 413/513 (Advanced Viticulture) January - May 2002.

Activities: Two lectures, 2 all day field trips, involvement in exam preparation.

2001

Guest lecture, Horticulture 313 (Small Fruits and Viticulture): Cranberry Production and Management; 12 November 2001, Tricities, WA (WHETS to Pullman, Wenatchee, Yakima). Instructor, Dr.K. Willemsen; class size (attendance) 36 students.

Guest seminar (invited) entitled "Nitrogen nutrition of selected horticultural crops" presented to the Department of Hort and Landscape Architecture's Spring Graduate Student Seminar Series. 30 April 2001, Pullman, WA.

Guest seminar (invited) entitled "Nitrogen nutrition of selected horticultural crops" presented to the Rutgers University Department of Plant Science Spring Graduate Seminar Series. 12 April 2001, New Brunswick, NJ.

1999

Guest lecture, Soils 441 (Soil Fertility): Soils and Precision Farming; 16 April 1999, TriCities, WA (with WHETS to Wenatchee, Yakima and Pullman). Instructor: Dr. Bill Pan.

Guest lecture, Horticulture 201 (Introductory Horticulture): Soils for Horticultural Production; 17 February 1999, Pullman, WA. Instructor, Dr. L. Hiller; class size (attendance) 37 students.

Soils 451 - Pedology - 18 October - 15 December 1999. WSU Tricities. 14 lectures, 6 labs, 1 all day field trip, 2 reports, midterm, final, lab final. 3 students. Overall average 4.19.

1998

Soils 413 - Soil Physics - 13 Oct - 19 Dec 1998. (ICS Compressed Semester). 3 credit course - 14 lectures, 11 labs, 1 half day field lab. 8 students - 7 Tricities, 1 Yakima. Overall average 4.36.

Soils 413 - Soil Physics - 12 Jan - 27 Feb 1998. Individual teaching for 1 graduating senior who required this previously unavailable course to complete his program and graduate this semester.

1997

Soils 451 - Pedology - 20 Oct - 10 December 1997. 15 lectures, 6 labs, 2 all day field trips, 2 reports, midterm, final, lab final. 4 students - 2 Tricities, 2 Yakima (1 Yakima = audit). Overall average 4.31.

GRADUATE STUDENT ADVISING:

Current

Golnaz Bahr, Ph.D. Student (BSYE), Committee Member

Erin Hightower, M. S. Ag. Student, Committee Member

Josh Krieg, M. S. Ag. Student, Committee Member

Margaret McCoy, M. S. Student (Soil Science), Committee Chair

Prossie Nakawura, Ph.D. Student (BSYE), Committee Member

Bryce Payne, M. S. Student (Soil Science), Committee Member
Adam Peterson, M. S. Student (Crop Science), Committee Member
Enrique Proano, M.S. Student (Soil Science), Committee Chair
Jason Ruiz, M.S. Student (Crop Science), Committee Member
Jason Stout, Ph. D Student (Soil Science), Committee Chair
Jennifer Trapp, Ph. D. Student (Crop Science), Committee Member
Karen Welch, M.S. Ag Student, Committee Chair
Galen Woodward, M.S. Student (Soil Science, part time, self funded), Committee Chair

Past

Kyle Bair, Ph.D. student (Soil Science), Committee Chair, August 2012
Catherine Jones, M.S. student (Soil Science, non-Thesis), Committee Chair, Oct. 2011.
Ian Yau, M.S. student (Soil Science), Committee Chair, Sept. 2011.
Kyle Bair, MS. student (Soil Science), Committee Chair, Nov. 2006.
Suphasuk Pradupsuk, Ph.D. student (Soil Science), Committee Chair; May 2008.
Noah Bonds, M. S. Student (Soil Science), Committee Member . M.S.(non-thesis) May 2007.
Eric Harwood, M.S. student (Soil Science), Committee Member, MS Dec. 2009
Kelly Whitley, M.S. student (Soil Science), 1999, Committee Chair. M.S. April 2004.
Jake Gutzwiler, M.S. student (Horticulture), Committee Member. M.S. May 2002.
Greg Harting, M.S. student (Biosystems Engineering), Committee member. M.S. (non-thesis) July 1999

OTHER STUDENTS:

Prosser High School Student Kennis Hartson - Advanced Science Practicum, September 2008 - present – Developing methods for analyzing total fruit phenolics.

Tech Reach Middle School Student e-mentor, January – June 2007: one student from Harrison Middle School, Sunnyside.

Prosser High School Student Anna Fiedler - Advanced Science Practicum, October 2001 - May 2002 - Project on evaluating soil moisture retention additives in sandy soils for her senior project.

Prosser High School Student Holly Seymour - Advanced Science Practicum, September 1997 - May 1998 - Project on P sorption/desorption rates as affected by soil pH and soil test P for her senior project.

Hydrology - Special Subject Course for Jacques Painchaud, University Laval as long-distance education - 2 credits.

HONORS AND AWARDS:

November 2012 **Walter Clore Award** – Washington State Grape Society
July 2006 **Outstanding Consulting Editor** – HortTechnology, American Soc. Hort. Sci.
November 2000 **Certificate of Excellence** - 2000 Educational Materials Awards Program, American Society of Agronomy, for "Nitrogen for bearing cranberries in North America" J. Davenport, C. DeMoranville, J. Hart, and T. Roper.
March 1999 USDA **Certificate of Appreciation** for keeping the "Intelligent Farm Management Systems" project going within ARS by supervising research since the departure of Dr. S. Schneider in 1997.
May 1997 **Appreciation of Service Award**, American Cranberry Growers Association.
October 1997 **Certificate of Excellence** - 1997 Educational Material Awards Program, American Society of Agronomy, for "Cranberry tissue testing for producing beds in North America" J. Davenport, C. DeMoranville, J. Hart, K. Patten, L. Peterson, T. Planer, A. Poole, T. Roper, and J. Smith.
April 1993 President's **Award for Technical Achievement**, Ocean Spray Cranberries, Inc.

PROFESSIONAL SOCIETIES:

American Society of Agronomy
Soil Science Society America
The American Society for Horticultural Science
American Society for Enology and Viticulture
The Potato Association of America
ARCPACS Certified Professional Soil Scientist.

COMMITTEES & SERVICE:

Professional: National -

National Research Council:

Member of the Subcommittee on Food and Health (31 Dec 2000 - 31 Dec 2002).

Production & Management Section Potato Association of America:

Secretary, Aug. 1998 - Aug. 1999; Vice Chair., Aug. 1999 - Aug 2000; Chair, Aug 2000 – April 2001.

American Society for Horticultural Science:

Secretary (July 1999-2000), Vice Chair (July 2000-2001), Chair (July 2001- Aug. 2002), Mineral Nutrition Working Group.

Associate Editor (January 2001 – Dec 2003), HortTechnology

Consulting Editor (January 2004 – present), HortTechnology

American Society of Agronomy:

Member, Student Speech Committee, 3 year term 2006 - 2009. Chair 2008 – 2009.

NW Chapter, American Society Viticulture and Enology:

Secretary; Jan 2008 – present.

Manuscript Reviewer for:

American Journal of Potato Research, Agronomy Journal, HortScience, HortTechnology, Journal of the American Society for Horticultural Science, Journal of Environmental Quality, Journal of the American Society for Enology and Viticulture, Soil Science, Vegetable Science, Tropical Agriculture

State -

Washington State Grape Society: Director (Aug 2009 – ongoing)

Institutional: University

- **Provost Tenure Advisory Committee:** Member 2011 - present
Search Committee: Assistant/Associate Stone Fruit Breeder (September 2007 – May 2008)
Search Committee: Director, Center for Precision Agricultural Systems (July 1999 - May 2000).
Search Committee: Assistant/Associate Tree Fruit Physiologist (January 2000 -May 2001).
Search Committee: Water Management Engineer (March - September 2001).
Conference Co-Chair: 2000 and 2001 Western Precision Ag Conference.
Conference co-organizer 1999 North American Cranberry Research and Extension Workers Conference, WSU -Long Beach, September 30 - October 3, 1999.

Department

- **Search Committee Chair:** Assistant Soil Scientist:Pedology (2005-2006).
Search Committee: Assistant Soil Fertility-Microbiology position (1999-2000).
Mentoring Committee Member: David Brown (Pedology, 2007 – present)

IAREC

- **Chair:** Student Dorm Committee. (1997 - 2002)

Chair: Graduate Student Education Committee. (2003 - 2004)
Chair: Seminar Committee (2005 – May 2009)
Mentoring Committee Member: Mercy Olmstead (Hort/LA; 2006 – June 2009)
Committee Member: WSU-Prosser Faculty Advisory Committee (2001 - 2003)
Committee Member: Graduate Student Education Committee (2005 - present)
Search Committee: WSU-Prosser Director (Jan – Dec 2008)
Search Committee: WSU-Prosser Orchard and Vineyard Manager (May – Sept 2008)
Search Committee: WSU-Prosser Administrative Manager (July - September 2004)
Search Committee: WSU-Prosser Administrative Manager (July - October 2002)
Search Committee: USDA/ARS Soil Microbiologist (Nov 1999 - March 2000).
Support person for WSU-Prosser Rose Garden.

Other (both disciplinary and nondisciplinary)

Fitzpatrick, S., and J. Davenport. 2005. North American Cranberry Research and Extension Workers Conference, Langely, BC, 26 – 29 October 2005. **Conference Co-Chairs.**

Davenport, J. R., and J. Durfey 2001. The fourth Western Precision Ag Conference, Pasco, WA,, 30 - 31 January 2001. **Conference Co-Chairs**

Davenport, J. R. 2001. Hands on pre-conference workshops. 3 workshops (Hands-on GPS, Intro GIS, Adv. GIS, each offered twice) Richland , WA., 29 January 2001. **Workshop Chair**

Davenport, J. R., and J. Durfey. 2000. The third Western Precision Ag Conference, Pasco, WA, 16 - 17 February 2000. **Conference Co-Chairs**

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