

# Edward W. Hellman

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## Curriculum Vitae

June 2021

### SUMMARY OF KEY ACCOMPLISHMENTS

*Utilizing innovation, leadership, and teamwork to design and deliver impactful outreach education programs and internet-based decision support tools for the grape industry*

#### Local, Regional and National Leadership

- Board of Directors, National Grape Research Alliance, 2004-2021
- Chair (two terms), Extension & Outreach Committee, Natl. Grape Research Alliance
- Leadership team, National eXtension Grape Community of Practice, 2010-2013
- Developer, National Viticulture and Enology Extension Leadership Group and Annual Conference
- Active member and committee service with professional societies
  - American Society for Enology and Viticulture
  - American Society for Horticultural Science
  - American Pomological Society
- Active member and committee service with industry organizations
  - Texas Wine and Grape Growers Association
  - Texas Wine and Culinary Arts Center
  - Oregon Winegrowers Association
  - Kansas Grape Growers and Winemakers Association
- Developer and Director, Texas Viticulture Extension Team; Grant-funded 4 FTE
- Developer and Director of two continuing education programs
  - Texas Winemaking Certificate Program, 2014-present
  - Texas Viticulture Certificate Program, 2007-present
- Planned and delivered the Texas Viticulture Short Course, 2005-2007
- Helped establish the Viticulture & Enology degree concentration at Texas Tech Univ.
- Editor and co-author of book, *Oregon Viticulture*
- Invited speaker in 18 States/Provinces

## **Pioneer in development of outreach education websites and decision support tools**

- *The Vineyard Advisor* (mobile app for management recommendations). 2017-present. <http://www.depts.ttu.edu/pss/VEpage/VineAdvisor.php>
- *National eXtension Grapes* (comprehensive informational website). 2010-present (Hellman participation 2010-2013) <http://grapes.extension.org>
- *Texas Winegrape Network* (comprehensive informational website). 2001-2017
- *Winegrowing Regions of Texas* (interactive GIS climate and soil data website). 2008-2017
- *Texas Crop Registry* (interactive GIS mapping website for sensitive crops). 2014-2016
- *The Vineyard Doctor* (grape problem diagnostic tool website). 2011-2016
- *SERA-014: Development and Management of Bunch and Muscadine Grapes* (working group website). 2003-2011.
- *Northwest Berry & Grape Information Network* (comprehensive informational website). 1995-2017 (Hellman webmaster 1995-2000).

## **EDUCATIONAL TRAINING AND PROFESSIONAL EXPERIENCE**

### **Education**

Ph.D., Plant Science, 1982, University of Arkansas, Fayetteville, Arkansas  
M.S., Horticulture, 1980, University of Illinois, Urbana, Illinois  
B.S., Horticulture, 1977, University of Illinois, Urbana, Illinois

### **Professional Experience**

2017-Present	Professor of Viticulture and Enology Texas Tech University
2007-2017	Professor and Viticulture Extension Specialist, Texas A&M AgriLife Extension Service (75%) Professor of Viticulture, Texas Tech University (25%)
2001-2007	Associate Professor and Viticulture Extension Specialist, Texas Cooperative Extension (75%) Associate Professor of Viticulture, Texas Tech University (25%)
1994-2000	Associate Professor and Extension Horticulturist, Oregon State University. Tenure granted in 1998. (100% Extension)
1990-1994	Associate Professor of Horticulture, Kansas State University Tenure granted in 1990. (60% Teaching, 40% Research)

1984-1990            Assistant Professor of Horticulture, Kansas State University  
1983-1984            Assistant Professor of Viticulture, Florida A&M University

## HONORS AND AWARDS

Service and Outreach Award. 2018. College of Agricultural Sciences and Natural Resources, Texas Tech University  
Outstanding Extension Educator. 2015. American Society for Horticultural Science  
T.V. Munson Award. 2015. Texas Wine & Grape Growers Association  
Pioneer Award. 2007. Kansas Grape Growers and Winemakers Association  
Extension Division Educational Materials Award - Website Category. 2003. American Society for Horticultural Science  
President's Award for Outstanding Contributions to Viticulture. 2003. Texas Wine and Grape Growers Association  
Search for Excellence Award for Outstanding Leadership in Education Programming. 1998. Oregon State University Extension Association  
National Communications Award – Website. 1997. National Association of County Agricultural Agents  
Newer Faculty Achievement Award. 1997. Oregon State Univ. Extension Association  
Award of Appreciation. 1994. Kansas Grape Growers and Winemakers Association

## PUBLICATIONS

### Refereed Publications

Kar, S., T. Montague, A. Villanueva-Morales, and E. Hellman. 2021. Measurement of Gas Exchange on Excised Grapevine Leaves Does Not Differ from *In situ* Leaves, and Potentially Shortens Sampling Time. *Applied Sciences* 11(8):3644.  
DOI:10.3390/app11083644.

Plank, C.M., E.W. Hellman, and T. Montague. 2019. Light and temperature independently influence methoxypyrazine content of *Vitis vinifera* (cv. Cabernet Sauvignon) berries. *HortScience* 54: 282-288.

McCorkle, D., R. Dudensing, D. Hanselka, and E. Hellman. 2019. The long-term viability of U.S. wine grape vineyards: Assessing vineyard labour costs for future technology development. *International Journal of Entrepreneurship and Small Business* 36 (3):308-334.

Plank, C.M., E.W. Hellman, and T. Montague. 2016. Light emitting diodes as supplemental lighting in viticulture field research. *Am. J. Enol. Vitic.* 67:251-256.

Montague, T., E.W. Hellman, D. Appel, and M. Krawitzky. 2016. Asexual propagation of grapevine transmits Pierce's disease pathogen (*Xylella fastidiosa*) to rooted cuttings. *International Journal of Fruit Science* 16:135-149.

Townsend, C.G. and E.W. Hellman. 2014. Viticulture in Texas: The challenges of natural hazards. *Journal of Wine Research* 25:211-228.

Hellman, E.W., F.A. Westover, and D.E. Holman. 2013. Vineyard problem diagnostic system for mobile computing devices. *Progrès Agricole et Viticole* 130 (9):13-17.

Takow, E.A., E.W. Hellman, A.G. Birt, M.D. Tchakerian, and R.N. Coulson. 2013. A web-based GIS application for description of American Viticultural Areas in Texas. *HortTechnology* 23:165-172.

Stafne, E.T., E.W. Hellman, R.K. Striegler, J.A. Wolpert, and J-M. Peltier. 2012. Industry involvement in the creation and funding of the eXtension grape community of practice. *HortTechnology* 22:580-582.

Hellman, E.W., E.A. Takow, M.D. Tchakerian, and R.N. Coulson. 2011. Geology and Wine 13. Geographic information system characterization of four appellations in west Texas, USA. *Geoscience Canada* 38:6-20.

Hellman, E.W., S. Shelby, and C. Lowery. 2006. Exogenously applied abscisic acid did not consistently delay budburst of deacclimating grapevine. *Journal of the American Pomological Society* 60:178-186.

Basinger, A.R. and E.W. Hellman. 2006. Evaluation of regulated deficit irrigation on grape in Texas and implications for acclimation and cold hardiness. *International Journal of Fruit Science* 6(2):3-22.

B. Strik, G. Buller, and E.W. Hellman. 2003. Pruning severity affects yield, berry weight, and hand harvest efficiency of highbush blueberry. *HortScience* 38:196-199.

Tarara, J.M. and E.W. Hellman. 1991. 'Norton' and 'Cynthiana' – premium native wine grapes. *Fruit Varieties Journal* 45:66-69.

Tarara, J.M. and E.W. Hellman. 1990. The Munson grapes – A rich germplasm legacy. *Fruit Varieties Journal* 44:127-130.

Hellman, E.W., G.L. Yocum, and R.J. Robel. 1989. Preliminary evaluation of dimethyl anthranilate as a bird repellent on grapes. *Amer. J. Enol. Vitic.* 40:140-142.

Clark, J.R., J.B. Buckley III, and E.W. Hellman. 1988. Seasonal variation in elemental concentration of blackberry leaves. *HortScience* 23:1080.

- Hellman, E.W. and J.D. Travis. 1988. Growth inhibition of strawberry at high temperatures. *Advances in Strawberry Production* 7:36-38.
- Hellman, E.W. 1987. Cultivar sensitivity of grapevines to 2,4-D. *Fruit Varieties Journal* 41:111-114.
- Hellman, E.W. 1984. An interactive microcomputer program for development and calculation of a plant breeding selection index. *HortScience* 19:812-813.
- Hellman, E.W. and J.R. Clark. 1984. Blackberry pollen sterility associated with 'Merton Thornless' germplasm. *Fruit Varieties Journal* 38:55-57.
- Skirvin, R.M. and E.W. Hellman. 1984. Blackberry products and production regions. *HortScience* 19:195-197.
- Otterbacher, A.G., E.W. Hellman, and R.M. Skirvin. 1983. Long term storage of raspberry pollen. *Fruit Var. J.* 37:80-81.
- Hellman, E.W. and J.N. Moore. 1983. Effect of genetic relationship to pollinizer on berry, seed, and seedling parameters in highbush and rabbiteye blueberries. *J. Amer. Soc. Hort. Sci.* 108:401-405.
- Hellman, E.W., R.M. Skirvin, and A.G. Otterbacher. 1982. Unilateral incompatibility between red and black raspberries. *J. Amer. Soc. Hort. Sci.* 107:781-784.

### **Published Abstracts**

- Kar, Suraj, T. Montague, K. Lauterbach, T. Ruland, P. Helwi, and E. Hellman. 2021. Vineyard leaf tissue survey of auxin herbicides within the Texas High Plains AVA. *Technical Abstracts 2021 National Conference of the American Society for Enology and Viticulture*, p.50.
- Hellman, E. 2019. Vineyard problem management recommendations: The Vineyard Advisor mobile app. *Technical Abstracts 2019 National Conference of the American Society for Enology and Viticulture*, p.57.
- Montague, T., E. Hellman, P. Helwi, and E. Graff. 2018. Secondary bud growth and fruitfulness of *Vitis vinifera* Grenache grown on the Texas High Plains: A two-year review. *Technical Abstracts Sixty-ninth National Conference of the American Society for Enology and Viticulture*, p.107.

Montague, T., E. Hellman, P. Helwi, and E. Graff. 2018. Assessing secondary bud fruitfulness of *Vitis vinifera* 'Grenache' and 'Cabernet Sauvignon' vines grown on the Texas High Plains: A second-year update. HortScience 53(9):S296.

Montague, T., E. Hellman, and E. Graff. 2017. Assessing secondary bud fruitfulness of two *Vitis* cultivars grown on the Texas High Plains. HortScience 52(9):S33-S34.

Montague, T. and E. Hellman. 2016. Using leaf excision during gas exchange measurements to increase sample size. Technical Abstracts Sixty-seventh National Conference of the American Society for Enology and Viticulture, p.98.

Pellarin, L.A., J. O. Sarturi, P. R. B. Campanili, L. A. Ovinge, B. C. Bernhard, B. J. Johnson, J. C. Brooks, E. W. Hellman. 2016. 1556 Effects of red grape pomace to adapt beef cattle to finishing diets and spoilage mitigation strategies. Journal of Animal Science. Volume 94, Issue suppl\_5, page 756.

Hellman, E.W., J. Scheiner, D. Holman, D. Stone, and S. Ross. 2015. The Vineyard Advisor mobile application for pest management recommendations. HortScience 50(9):S184-S185.

Plank, C.M., E.W. Hellman, and T. Montague. 2014. Effects of light Environment on Methoxypyrazine Content of Cabernet Sauvignon. Technical Abstracts Sixty-fifth National Conference of the American Society for Enology and Viticulture, p.91.

Takow, E., A.G. Birt, E.W. Hellman, and R.N. Coulson. 2014. The Utility of Growing Degree Days as an Index in Viticulture. Technical Abstracts Sixty-fifth National Conference of the American Society for Enology and Viticulture, p.156.

Plank, C.M., E.W. Hellman, and T. Montague. 2013. The effects of sunlight and LED light on methoxypyrazine content of ripening berries of Cabernet Sauvignon. Technical Abstracts Sixty-fourth National Conference of the American Society for Enology and Viticulture, p.163.

Stafne, E.T., E. Hellman, R.K. Striegler, K. Kelsey, L. Greer, and K. Ker. 2012. eViticulture: Online Educational Materials for Commercial Grape Growers Developed by the Grapes Community of Practice. 8<sup>th</sup> International Cool Climate Symposium for Viticulture and Oenology. Hobart, Tasmania.

Stafne, E.T., E. Hellman, R.K. Striegler, T. Martinson, B. Reisch, and J-M. Peltier. 2012. A Collaborative Research and Extension Outreach Model: the Grape Community of Practice. Amer. J. Enol. Vitic. 63(3):464A.

Hellman, E.W. and F.A. Westover. 2012. Diagnosis of Grape Problems with the Vineyard Doctor. Amer. J. Enol. Vitic. 63(3):459A-460A.

Montague, T., E. Hellman, and K. Jenkins. 2012. Physiological differences of five grape varieties grown on the Texas High Plains. *HortScience* 47(9):S57.

Montague, T., E. Hellman, and K. Jenkins. 2011. Physiology of Cabernet Sauvignon Grapevines Grafted to Different Rootstocks on the Texas High Plains. *Amer. J. Enol. Vitic.* 62(3):396A.

Pate, D.K., C. Wang, J.W. Johnson, and E. Hellman. 2011. Economic Evaluation of Winegrape Contracts. *Amer. J. Enol. Vitic.* 62(3):408A.

Hellman, E. and F. Westover. 2011. The Grape Doctor – A Vineyard Problem Diagnosis Tool. *HortScience* 46(9):S316.

Stafne, E., E. Hellman, R.K. Striegler, and J. Peltier. 2011. Industry Involvement in the Creation and Funding of the Extension Grape Community of Practice. *HortScience* 46(9):S85.

Montague, T., E. Hellman, and K. Jenkins. 2011. Influence of rootstocks on physiology of 'Cabernet Sauvignon' grapevines grown on the Texas High Plains. *HortScience* 46(9):S22.

Stafne, E., L. Greer, E. Hellman, R.K. Striegler, and K. Kelsey. 2011. eViticulture.org: A National Grape Community of Practice. *HortScience* 46(9):S18.

Montague, T., E. Hellman, and K. Jenkins. 2010. Update on Physiological Differences of Cool, Warm, and Hot Climate Grapevine Varieties Grown on the Texas High Plains. *Amer. J. Enol. Vitic.* 61(3):440A.

Stafne, E.T., E. Hellman, R.K. Striegler, and K. Kelsey. 2010. Formation of an eXtension grape community of practice. *HortScience* 45:490.

Montague, T., E. Hellman, and K. Jenkins. 2010. Physiological differences of cool, warm, and hot climate grapevine varieties on the Texas High Plains. *HortScience*. 45:495.

Montague, T., E. Hellman, and K. Jenkins. 2010. Influence of rootstocks on physiology of merlot grapevines grown on the Texas High Plains. *HortScience*. 45:514.

Hellman, E.W., E.A. Takow, M.D. Tchakerian, and R.N. Coulson. 2009. Terroir of the Texas High Plains. Abstracts of the 105th Annual Meeting Geological Society of America - Cordilleran Section. p11.

Montague, T., E. Hellman, and M. Krawitzky. 2009. Gas Exchange of Field-Grown Cool, Warm, and Hot Climate Grapevine Varieties in West Texas. *Am. J. Enol. Vitic.* 60(3): 396A.

Montague, T., E. Hellman, and M. Krawitzky. 2009. Comparison of Field Grown Grapevine Stomatal Conductance Measurements using Differing Porometers. *HortScience.* 44:565.

Krawitzky, M., T. Montague, and E. Hellman. 2008. Gas exchange response of field-grown Merlot grapevines as influenced by rootstock. *Technical Abstracts of the 59<sup>th</sup> Annual Conference of the Amer. Society for Enology and Viticulture.* 59:25.

Krawitzky, M., T. Montague, and E. Hellman. 2008. Influence of rootstock on gas exchange of field grown merlot grapevines. *HortScience.* 43:607-608.

Hellman, E.W. and S. Shelby. 2005. Evaluation of abscisic acid for budburst delay of grapevine. *Amer. J. Enol. Vitic.* 56:303A.

Basinger, A., E.W. Hellman, and S. Shelby. 2004. Evaluation of grapevine 'Cabernet Sauvignon' response to two deficit irrigation strategies. *HortScience* 39:828.

Hellman, E.W., G. Koskela, and W. Friedkin. 1997. Viticulture Extension program delivery on the world wide web. *Amer. J. Enol. Vitic.* 48(3):395.

Hellman, E.W. 1993. Investigations of the role of epicuticular wax in resistance of grape berries to *Botrytis cinerea*. *HortScience* 28:591.

Hellman, E.W. and W. Reid. 1987. Effect of sawdust and pecan shell mulches on highbush blueberry growth. *HortScience* 22:1047.

Abdul-Kadir, S., C.B. Rajashekar, and E.W. Hellman. 1987. Cold hardiness and dormancy in blackberries. *HortScience* 22:1147.

Hellman, E.W. and J.N. Moore. 1982. Some effects of inbreeding on highbush and rabbiteye blueberries. *HortScience* 17:500.

Hellman, E.W., R.M. Skirvin, and A.G. Otterbacher. 1979. Overcoming incompatibility associated with interspecific hybridization of red and black raspberries. *HortScience* 14:423.



## Books

Hellman, E.W. (editor). 2003. *Oregon Viticulture*. Oregon State University Press. Corvallis, Oregon. 264 pages.

## Chapters in Books

E.W. Hellman. 2003. *Grapevine Structure and Function*. In: E.W. Hellman (editor). *Oregon Viticulture*. Oregon State University Press. Corvallis, Oregon.

B. Eleveld, C. Vasconcelos, and E.W. Hellman. 2003. *Vineyard Economics*. In: E.W. Hellman (editor). *Oregon Viticulture*. Oregon State University Press. Corvallis, OR.

G. Jones and E.W. Hellman. 2003. *Site Assessment*. In: E.W. Hellman (editor). *Oregon Viticulture*. Oregon State University Press. Corvallis, Oregon.

D. Lett and E.W. Hellman. 2003. *Varieties and Clones*. In: E.W. Hellman (editor). *Oregon Viticulture*. Oregon State University Press. Corvallis, Oregon.

E.W. Hellman and J. Myers. 2003. *Rootstocks*. In: E.W. Hellman (editor). *Oregon Viticulture*. Oregon State University Press. Corvallis, Oregon.

D. Kenworthy and E.W. Hellman. 2003. *Vineyard Design*. In: E.W. Hellman (editor). *Oregon Viticulture*. Oregon State University Press. Corvallis, Oregon.

E.W. Hellman and S. Henry. 2003. *Training Systems*. In: E.W. Hellman (editor). *Oregon Viticulture*. Oregon State University Press. Corvallis, Oregon.

A. Humphrey and E.W. Hellman. 2003. *Site Preparation*. In: E.W. Hellman (editor). *Oregon Viticulture*. Oregon State University Press. Corvallis, Oregon.

E.W. Hellman and A. Humphrey. 2003. *Training Young Vines*. In: E.W. Hellman (editor). *Oregon Viticulture*. Oregon State University Press. Corvallis, Oregon.

R. Burney and E.W. Hellman. 2003. *Irrigation System Design and Development*. In: E.W. Hellman (editor). *Oregon Viticulture*. Oregon State University Press. Corvallis.

D. Tunnell and E.W. Hellman. 2003. *The Organic Approach*. In: E.W. Hellman (editor). *Oregon Viticulture*. Oregon State University Press. Corvallis, Oregon.

A. Holstein and E.W. Hellman. 2003. *Water Management*. In: E.W. Hellman (editor). *Oregon Viticulture*. Oregon State University Press. Corvallis, Oregon.

E.W. Hellman and R. O'Brien. 2003. *Pruning*. In: E.W. Hellman (editor). *Oregon Viticulture*. Oregon State University Press. Corvallis, Oregon.

A. Humphrey and E.W. Hellman. 2003. *Labor Management*. In: E.W. Hellman (editor). *Oregon Viticulture*. Oregon State University Press. Corvallis, Oregon.

T. Casteel and E.W. Hellman. 2003. *Crop Estimation and Thinning*. In: E.W. Hellman (editor). *Oregon Viticulture*. Oregon State University Press. Corvallis, Oregon.

E.W. Hellman and M. Chien. 2003. *Harvest*. In: E.W. Hellman (editor). *Oregon Viticulture*. Oregon State University Press. Corvallis, Oregon.

### **Conference Proceedings**

Hellman, E.W., F.A. Westover, and D.E. Holman. 2013. Vineyard Problem Diagnostic System for Mobile Computing Devices. Proc. 18<sup>th</sup> Symposium International GiESCO 28(2):729-733. July 7-11, 2013. Porto, Portugal.

Takow, E., E.W. Hellman, A.G. Birt, M.D. Tchakerian, and R.N. Coulson. 2012. An Internet-Based GIS Application for Vineyard Site Assessment in the U.S. and Matching Grape Variety to Site. Proc. IXth International Terroir Congress. Vol. 2: 8-7 – 8-10. June 25-29, 2012. Dijon and Reims, France.

Hellman, E.W., E.A. Takow, M. D. Tchakerian, and R. N. Coulson. 2010. Texas Terroir: GIS Characterization of the Texas High Plains AVA. Proc. VIII International Terroir Congress, Vol. 1:2-34 – 2-39. June 14-18, Soave, Italy.

Hellman, E.W. 2009. Can Texas Agriculture Support a Viable Wine Industry? Regional Benefits: Climate and Geographical Challenges. Winery and Wine Distribution Law Conference. Oct. 8-9. San Antonio, TX. 15:1-10.

Hellman, E.W. 2009. Current Status of Pierce's Disease in Texas. Proceedings of 28<sup>th</sup> Annual Conference New Mexico Vine & Wine Society, Albuquerque, NM. Feb 27-28. pp 13-18.

Hellman, E.W. 2009. Exploring the Wine Regions of Texas with GIS. Proceedings of 28<sup>th</sup> Annual Conference New Mexico Vine & Wine Society, Albuquerque, NM. Feb 27-28. pp 51-57.

Montague, T., E. Hellman, and M. Krawitzky. 2008. Comparison of greenhouse grown, containerized grapevine stomatal conductance measurements using two differing porometers. Proceedings of the 2<sup>nd</sup> Annual National Viticulture Research Conference. Davis, California. pp. 58-59.

- Krawitzky, M., T. Montague, and E. Hellman, and M. 2008. Propagation success of grapevines infected with *Xylella fastidiosa*. Proceedings of the 2<sup>nd</sup> Annual National Viticulture Research Conference. Davis, California. p. 41.
- Takow, E.A, E.W. Hellman, M.D. Tchakerian, and R.N. Coulson. 2008. Utility of a Geographic Information System (AVATXIS) as a tool in the characterization of Texas Wine Regions. Proceedings of the 2<sup>nd</sup> Annual National Viticulture Research Conference. Davis, California. pp 82-83.
- Hellman, E.W. 2004. *How to judge grape ripeness before harvest*. Proc. 2004 Southwest Regional Vine and Wine Conference. Albuquerque, NM. Pp. 174-180.
- Hellman, E.W. 2004. *Tips on growing grapes in arid and semi-arid climates*. Proc. 2004 Southwest Vine and Wine Conference. Albuquerque, NM. Pp. 230-232.
- Hellman, E.W. 2002. *Viticultural lessons from Oregon and Texas*. Proc. 21<sup>st</sup> Annual Meeting of New Mexico Grape Growers and Wine Makers. Rio Rancho, NM. Pp. 6-9.
- Hellman, E.W. 2002. *Balancing yield and quality*. Proc. 21<sup>st</sup> Annual Meeting of the New Mexico Grape Growers and Wine Makers. Rio Rancho, NM. Pp.43-45.
- Fisher, J.R. and Hellman, E. 2000. *Status and progression of infestations and management of the grape phylloxera in the Pacific Northwest, USA*. p.41-50. In: K.S. Powell and J. Whiting (eds.), Proc. International Symposium on Grapevine Phylloxera Management. Melbourne, Australia
- Watson, B., E.W. Hellman, Anna Specht, and Hsiao-Ping Chen. 2000. *Evaluation of Nitrogen Deficiencies in Oregon Grapevines and Musts*. Oregon Wine Advisory Board Progress Reports, 1999-2000, pp 3-8.
- Hellman, E.W. 2000. *Manipulating Soil Moisture and Nitrogen Availability to Improve Fermentation Behavior and Wine Quality. Part III. Effect of Irrigation and Soil Management Strategy on Grapevine Petiole Nutrient Content*. Oregon Wine Advisory Board Progress Reports, 1999-2000, pp 59-60.
- Watson, B. A. Spect, and E.W. Hellman. 1999. *Evaluation of Nitrogen Deficiencies in Oregon Grapevines, Musts and Wines*. Oregon Wine Advisory Board Progress Reports, 1999-2000, pp 1-5.
- Hellman, E.W. 1999. *Winegrape Pest Management*. Proceedings of IPM in Oregon: Achievements and Future Directions.
- Hellman, E.W. and J.R. Fisher. 1998. *Update on phylloxera in Oregon vineyards*. Proceedings of the Oregon Horticultural Society. 89:190-191.

Hellman, E.W. 1998. *Viticulture Resources on the Internet*. Proc. Thirteenth Annual Midwest Regional Grape & Wine Conference. Osage Beach, Missouri. pp. 11-16.

Watson, B. A. Spect, and E.W. Hellman. 1998. *Evaluation of Nitrogen Deficiencies in Oregon Grapevines, Musts and Wines*. 1998 Proc. Northwest Center for Small Fruits Research. pp.79-80.

Hellman, E.W. and B. Strik. 1998. *The Effect of Pruning on Yield Components and Economics of Blueberry Production*. 1998 Proc. Northwest Center for Small Fruits Research. pp.21-22.

Hellman, E.W. 1997 *The Northwest Berry & Grape InfoNet Web page*. Proc. 82<sup>nd</sup> Annual Conference of the National Assoc. County Ag. Agents. p69.

Hellman, E.W. 1997. *Winegrape Fertilization practices for Oregon*. Proc. Oregon Horticultural Society. 88:215-220.

Hellman, E.W. 1996. *Surfing the Internet with the Berry InfoNet*. Proc. Oregon Horticultural Society. 87:162-163.

Hellman, E.W. and B. Strik, G. Koskela, and P. Stonerod. 1996. *The effect of pruning on yield components and economics of blueberry production*. Proc. Northwest Center for Small Fruits Research. pp.22-23.

Hellman, E.W. 1996 *The Northwest Berry and Grape InfoNet*. Proc. Sixth Northwest Biennial Blueberry Growers Meeting. pp. 86-87.

Hellman, E.W., G. Koskela, and W. Friedkin. 1995. *Development of a computer-based information exchange system for small fruits*. Proc. Northwest Center for Small Fruits Research. p75.

Hellman, E.W. 1993. *Wine grape varieties*. Proc. 12<sup>th</sup> Annual Oklahoma Horticulture Industries Show. pp77-79.

Hellman, E.W. 1993. *Bird control in small fruits*. Proc. 12<sup>th</sup> Annual Oklahoma Horticulture Industries Show. pp71-74.

Hellman, E.W. 1989. *Grape cultivar performance and utilization*. Proceedings of the 1989 Kansas Fruit Growers Association Annual Conference.

## **Digital Information Resources**

### Websites and Mobile Applications

Hellman, E.W., D. Stone, and S. Ross. 2017-present.  
*The Vineyard Advisor*. (mobile app for grape disease, pest, and weed management)  
<http://www.depts.ttu.edu/pss/VEpage/VineAdvisor.php>

Stafne, E.T., E.W. Hellman, R.K. Striegler, K. Kelsey. 2010-present (Hellman 2010-13)  
*eXtension: Grapes*. (comprehensive informational website)  
<http://grapes.extension.org>

Hellman, E.W. 2001-2017  
*Texas Winegrape Network*. (comprehensive informational website)  
Takow, E.A, E.W. Hellman, M.D. Tchakerian, and R.N. Coulson. 2008-2017.  
*Winegrowing Regions of Texas*. (Interactive GIS website for climate and soils data)

Birt, A.G., M.D. Tchakerian, E.W. Hellman, and R.N. Coulson. 2014-2016.  
*Texas Crop Registry*. (pesticide sensitive crop GIS mapping system)

Hellman, E.W., F.A. Westover, and D. Holman. 2011-2016.  
*The Vineyard Doctor*. (interactive decision-support problem diagnostic system)

Hellman, E.W. 2003-2011. *SERA-14: Development and Evaluation of Bunch and Muscadine Grapes for Fresh Market, Juice, Wine, and Other Products*.  
(professional working group informational website)

Hellman, E.W., 1995-2000  
*Northwest Berry & Grape Information Network*.  
(comprehensive informational website)

### CDROM

Pate, D.K., E. Hellman, and J. Johnson. 2011. "Texas Vineyard Budgets – Costs of Production for Commercial Vineyards in Texas." Department of Agricultural and Applied Economics, Texas Tech University. College of Agricultural Sciences and Natural Resources Report T-1-602.

### **Grants and Contract Reports**

McCorkle, D.A., R.M. Dudensing, and E.W. Hellman. Annual Progress Report for USDA-NIFA Project No. TEXN0070, *Assessing Viticulture Production Practices for Robotic Technology Development*. For the period 4/1/2015 to 3/31/2016. Submitted March 2016.

McCorkle, D.A., R.M. Dudensing, and E.W. Hellman. Annual Progress Report for USDA-NIFA Project No. TEXN0070, *Assessing Viticulture Production Practices for*

*Robotic Technology Development*. For the period 4/1/2014 to 3/31/2015. Submitted March 2016.

### **Extension Publications**

Kamas, J., E. Hellman, J. Scheiner. 2016. Texas Grape Pest Management Guide. HT-085. Texas A&M AgriLife Extension Service.

Kamas, J., E. Hellman, J. Scheiner. 2015. Texas Grape Pest Management Guide. HT-085. Texas A&M AgriLife Extension Service.

Hellman, E. 2012. Airblast Sprayer Calibration Worksheet. eXtension Grapes website

Adams, P, E. Hellman, F. Pontasch, D. Timmons, and F. Westover. 2012. Texas Grape Spray Guide. Texas Winegrape Network website.

Hellman, E. 2011. The Evapotranspiration Method for Irrigation Scheduling. eXtension Grapes website.

Hellman, E. 2011. Frost Injury, Frost Avoidance, and Frost Protection in the Vineyard. 2011. eXtension Grapes website.

Hellman, E. 2010. Parts of the Grape Vine: Roots. eXtension Grapes website.

Hellman, E. 2010. Parts of the Grape Vine: Shoots. eXtension Grapes website.

Hellman, E. 2010. Parts of the Grape Vine: Flowers and Fruits. eXtension Grapes website.

Hellman, E. and R. O'Brien. 2010. Pruning Grape Vines: An Overview. eXtension Grapes website

Hellman, E. and R. O'Brien. 2010. Cane Pruning. eXtension Grapes website.

Hellman, E. and R. O'Brien. 2010. Grapevine Pruning Practices eXtension Grapes website.

Hellman, E. and R. O'Brien. 2010. Spur Pruning. eXtension Grapes website.

Hellman, E. 2010. Vineyard Irrigation and Water Management. eXtension Grapes website.

Kamas, J., E.W. Hellman, P.S. Adams, T.H. Burns, F. Pontasch, and F.A. Westover. 2008. Starting a Vineyard in Texas - A Guide for Prospective Growers. Texas Department of Agriculture.

Hellman, E.W. 2008. Sustainable Viticulture Resources. Texas Winegrape Network website.

Hellman, E.W. 2008. Resources for Organic Grape Production Methods Texas Winegrape Network website.

Hellman, E.W. 2008. Grape Gardening Resources Texas Winegrape Network website.

Hellman, E.W. 2008. Summer Bunch Rot. Texas Winegrape Network website.

Kamas, J. and E.W. Hellman. 2005. Grape Berry Moth Management. Texas Winegrape Network website.

Hellman, E.W. 2004. Monitoring Grape Ripeness. Texas Winegrape Network website.

Hellman, E.W. 2003. Avoid Phenoxy Herbicide Damage to Grapevines. Texas Winegrape Network website.

Hellman, E.W. 2003. Irrigation Scheduling of Grapevines with Evapotranspiration. Texas Winegrape Network website.

Kamas, J. and E.W. Hellman. 2003. Black Rot. Texas Winegrape Network website.

Hellman, E.W. and J. Kamas. 2003. Downy Mildew. Texas Winegrape Network website.

Kamas, J. and E.W. Hellman. 2003. Powdery Mildew. Texas Winegrape Network website.

Hellman, E.W. 2003. Eutypa Dieback. Texas Winegrape Network website.

Hellman, E.W. 2003. Phomopsis Cane and Leaf Spot. Texas Winegrape Network website.

Hellman, E.W. 2002. Considerations for Starting a Vineyard. Texas Winegrape Network website.

Hellman, E.W. and J. Kamas. 2002. Vineyard Site Assessment. Texas Winegrape Network website.

Hellman, E.W. 2002. Vineyard Soils. Texas Winegrape Network website.

Hellman, E.W. 2002. Winegrape Varieties and Clones. Texas Winegrape Network website.

Hellman, E.W. 2002. Plant Materials. Texas Winegrape Network website.

Hellman, E.W. 2002. Pruning Grapevines. Texas Winegrape Network website.

Hellman, E.W. 2002. Canopy Management. Texas Winegrape Network website.

Hellman, E.W. 2002. Grapevine Cold Hardiness. Texas Winegrape Network website.

Hellman, E.W. 2002. Grapevine Leafroll Disease. Texas Winegrape Network website.

Hellman, E.W. 2002. Airblast Sprayer Calibration Worksheet. Texas Winegrape Network website.

Hellman, E.W. 2002. Herbicide Boom Sprayer Calibration Worksheet. Texas Winegrape Network website.

*Oregon State University*

Hellman, E.W. and J. Fultz. 1999. Preventing Phenoxy Herbicide Damage to Grape Vineyards. Oregon State University Extension Service. EM8737.

Candolfi-Vasconcelos, C., D. Edge, G. Fisher, E. Hellman, J. Pscheidt. (alphabetical) Grape Pest Management Guide for the Willamette Valley. EM8413. Oregon State University Extension Service. (Revised: 1996, 1997, 1998, 1999, 2000).

DeFrancesco, J, G. Fisher, E. Hellman, J. Pscheidt. (alphabetical) Blueberry Pest Management Guide for the Willamette Valley. EM8538. Oregon State University Extension Service. (Revised: 1996, 1997, 1998, 1999, 2000).

Hellman, E.W. 1995. Managing a Phylloxera-infested Vineyard. In: Phylloxera - Strategies for Management in Oregon's Vineyards. Oregon State University Extension Service. EC 1463.

Hellman, E.W. and B. Watson. 1995. Reducing the Risk of Phylloxera Infestation. In: Phylloxera - Strategies for Management in Oregon's Vineyards. Oregon State University Extension Service. EC 1463.



Kansas State University

Morrison, F.D., E.W. Hellman, N.A. Tisserat, and K. McReynolds. 1988 (revised 1990). Commercial grape production. Kansas State University Extension Service.

Morrison, F.D., E.W. Hellman, N.A. Tisserat, and D.B. Erickson. 1988 (revised 1990). Commercial blackberry and raspberry production. Kansas State University Extension Service.

Morrison, F.D., E.W. Hellman, N.A. Tisserat, and D.B. Erickson. 1988 (revised 1990). Commercial strawberry production. Kansas State University Extension Service.

Morrison, F.D. and E.W. Hellman. 1986 (revised 1989, 1992). Grapes - Horticulture Facts. Kansas State University Extension Service.

Tisserat, N.A., F.D. Morrison, and E.W. Hellman. 1985-94 (revised annually). Commercial spray schedule for small fruits. Kansas State University Extension Service.

**Publications in Trade Journals and Newspapers**

Hellman, E.W. 2018. How to Avoid Frost Injury in Vineyards. Growing Produce. <https://www.growingproduce.com/fruits/grapes/how-to-avoid-frost-injury-in-vineyards/>

Hellman, E.W. 2013. Vintage 2012 – Texas. Wines & Vines. January. p. 121.

Hellman, E.W. and M. Chien. 2012. Harvest. The Grapevine, July pp. 12-15, 17, 19.

Hellman, E.W. 2012. How to Judge Grape Ripeness Before Harvest. The Grapevine, July-August, pp 26-30.

Hellman, E.W. 2012. Vintage 2011: Texas. Wine & Vines, January, p. 128.

Hellman, E.W. 2010. Vintage 2009 – Texas. Wines & Vines. January, pp 118-119.

Waterhouse, A.L., A. Lakso, M. Keller, E. Hellman, C. Butzke, B. Zoecklein. 2009. Impact of Innovation in Flavor: A Call to Action. Wine Business Monthly, June 15.

Hellman, E.W. 2009. Vintage 2008 – Texas. Wines & Vines. January pp 126-128.

Hellman, E.W. 2009. Harvest Report 2008 – Texas. Vineyard and Winery Management. January/February. p. 82.

- Hellman, E.W. 2008. Vintage 2007 - Texas. *Wines & Vines*, January.
- Hellman, E.W. 2007. Texas 2006 Winegrape Report. *Wines & Vines*. January.
- Hellman, E.W. 2005. Texas 2004 Grape Harvest Report. *Wines & Vines*. Jan., p.96.
- Appel, D., Black, M, Hellman, E., J. Kamas, I. Lauziere, F. Mitchell, L. Morano, and L. Wendel. 2004. Unraveling Pierce's disease in its ancient environment. *Wine Business Monthly*. December.
- Hellman, E.W. 2004. New book emphasizes site-specific approach. *Practical Winery & Vineyard*. March/April. P. 66.
- Hellman, E.W. 2004. Texas Grape Harvest Report. *Wines & Vines*, February. P. 50.
- Hellman, E.W. and J. Fultz. 2000. Preventing Phenoxy Herbicide Damage to Grape Vineyards. *Western Fruit Grower*, January, 2000. p16.
- Hellman, E.W. 2000. Winegrowers rely on Mother Nature to bring timely sun, rain. *Statesman Journal*. February 15. Salem, Oregon.
- Hellman, E.W. 2000. Grape growers protect environment through program. *Statesman Journal*. August 1. Salem, Oregon.
- Hellman, E.W. 1993. Strategies and methods for controlling birds in vineyards. *American Vineyard* 2(8):3,14-15.
- Tarara, J.M. and E.W. Hellman. 1991. 'Norton' and 'Cynthiana' - premium native wine grapes. *Vinifera Winegrowers Journal* 18:126-129. (Reprinted from *Fruit Varieties Journal* 45:66-69).
- Tarara, J.M. and E.W. Hellman. 1990. The Munson grapes - A rich germplasm legacy. *Vinifera Winegrowers Journal* 17:211-215. (Reprinted from *Fruit Varieties Journal* 44:127-130).
- Hellman, E.W. 1988. Grow easy-care fruit varieties. *Flower and Garden*. March.

### **Newsletter Articles**

- Hellman, E.W. 2011. Preventing Vineyard Yield Losses. *Enology and Viticulture Program Newsletter*. August. pp. 3-4.
- Hellman, E.W. 2010. Viticulture Extension Team Back to Full Strength. *Enology and Viticulture Program Newsletter*. June. p. 1.

- Hellman, E.W. and T. Montague. 2009. Grape Variety Photosynthetic Response to High Temperature. *Enology and Viticulture Program Newsletter*. February. p. 2
- Hellman, E.W. 2009. Texas Viticulture and Enology Research Symposium. *Enology and Viticulture Program Newsletter*. August p. 1,3.
- Hellman, E.W. and D. Welsh. 2009. Change to Viticulture Extension. *Enology and Viticulture Program Newsletter*. December. p. 2.
- Hellman, E.W. 2008. Extension Leadership Conference. *NGWI Newsletter*, May. National Grape & Wine Initiative.
- Hellman, E.W. 2008. Clonal Aspects of Winegrowing: Where Are We Today? Symposium Highlights. *ASEV Technical Update Vol. 3:1-2*. American Society for Enology and Viticulture.
- Hellman, E.W. 2007. The 2008 Extension Leadership Conference. *Vine Vision – the newsletter of the National Grape & Wine Initiative*. Fall, Volume V, page 3.
- Hellman, E.W. 2007. The 2008 Extension Leadership Conference. *Vine Vision – the newsletter of the National Grape & Wine Initiative*. Fall, Volume V, page 3.
- Hellman, E. W. 2005. Statewide Vineyard Survey in Full Swing. *Texas Pierce's Disease Notes*. Vol.1:2.
- Hellman, E.W. 2005. Funding Directed Toward Extension and Outreach Education. *National Grape and Wine Initiative Newsletter*. Summer, 2005. p5.
- Hellman, E.W. 2005. Do You Need a Grape Doctor? *Plate and Vine Newsletter*. The Wine and Food Foundation of Texas. November.
- Hellman, E.W. 2003. Frost Damage. *Texas Winegrape Newsletter*. April.
- Hellman, E.W. 2003. Fungicide Efficacy. *Texas Winegrape Newsletter*. April.
- Hellman, E.W. 2003. New Website for Grape Growers. *Texas Wine & Grape Growers Newsletter*, February.
- Hellman, E.W. and M.L. Chien. 2002. Grape Harvest. *The Grapevine Newsletter*. Penn State University. August.
- Saenz, J.L. and E. Hellman. 2002. 2,4-D Drift limits grape growing in Missouri. *Vineyard and Vintage View* 17(3): 6-9. Southwest Missouri State University. January.

Hellman, E.W. and J. Fultz. 1999. Avoid using phenoxy herbicides near grape vineyards and other susceptible plants. Oregon Department of Agriculture Pesticide Quarterly. Issue 4, 1999.

Hellman, E.W. On-line newsletters produced from 1995-2000:  
*Willamette Valley Winegrape News* (74 articles authored)  
*Oregon Blueberry News* (24 articles authored)  
*Oregon Strawberry News* (8 articles authored)

Hellman, E.W. *Oregon Blueberry News*. 1995-2000. (54 articles authored).

Hellman, E.W. 1993-1994. Editor and author of *The Sunflower Grapevine* newsletter. Published quarterly (30 articles authored).

Hellman, E.W. 1994. New Small Fruit Cultivars. Kansas Fruit Growers Association Newsletter. Winter.

Hellman, E.W. 1992. Strawberry Winter Mulching. Kansas Fruit Growers Association. Newsletter. Winter.

Hellman, E.W. 1990. Winter Injury on Small Fruit Crops. Kansas Fruit Growers Association Newsletter. Spring.

Hellman, E.W. 1989. Kansas Raisins. Kansas Fruit Growers Association Newsletter. Summer.

Hellman, E.W. 1988. Controlling Birds. Kansas Fruit Growers Association Newsletter. Winter Issue.

Hellman, E.W. 1987. Grapevine Cold Injury. Kansas Fruit Growers Association Newsletter. Summer Issue.

### **Photographs in Books**

Robinson, J. and L. Murphy. 2013. *American wine: the ultimate companion to the wines and wineries of the United States*. University of California Press. (One photo)

Wolf, T.K. 2008. *Wine Grape Production Guide for Eastern North America*. Natural Resource, Agriculture, and Engineering Service Cooperative Extension. Cornell University. (Two photos)

Estreicher, S. 2006. *Wine: from Neolithic times to the 21<sup>st</sup> Century*. Algora Press. (Five photos)

Agrios, G.N. 2005. *Plant Pathology*. Fifth ed. Elsevier Academic Press. (Seven photos)

Vollhardt, P. and N. Schore. 2005. *Organic Chemistry: Structure and Function*, Fifth ed. W.H. Freeman Publishers. (One photo)

## GRANTS AND GIFTS

Career Summary of grants and gifts attributable to Hellman's program

<b>Extension</b>	
Texas A&M (2001-2017)	
External Competitive	\$1,753,639
Gifts & Gifts-in-Kind	\$52,108
Oregon State University (1995-2000)	
External Competitive	\$121,657
Internal Grants	\$6,900
Kansas State University (1984-1994)	
Internal Grants	\$3,100
<i>Extension subtotal</i>	<i>\$1,937,404</i>
<b>Research</b>	
Texas A&M/Texas Tech (2001-2021)	
External Competitive	\$984,980
Gifts & Gifts-in-Kind	\$11,355
Oregon State University (1995-2000)	
External Competitive	\$101,420
Kansas State University (1984-1994)	
External Competitive	\$3,500
Internal Grants	\$6,000
<i>Research subtotal</i>	<i>\$1,107,255</i>
<b>TOTAL</b>	<b>\$3,044,659</b>

### Extension Grants and Gifts

#### Texas A&M University/Texas Tech University

Hellman, E.W. 2016. Support for the Effective Vineyard Spraying Workshop. Texas Wine & Grape Growers Association. \$3,000 (Gift).

Hellman, E.W. and J. Scheiner. 2014. Development of the Vineyard Advisor - a Mobile Application for Grape Disease and Pest Management Recommendations. American Vineyard Foundation. \$28,900.

Hellman, E.W. 2011-2013. Developing and Maintaining Viticulture Education Programs. Texas Department of Agriculture, Enology and Viticulture Extension and Research Grant Program. \$200,000.

Birt, A., M. Tchakerian, R. Coulson, E. Hellman. 2011. Development of the Texas Sensitive Crops Website. Texas Specialty Crop Block Grant. \$34,015.

Hellman, E.W. 2010-2012. Developing and Maintaining Viticulture Education Programs. Texas Department of Agriculture, Enology and Viticulture Extension and Research Grant Program. \$365,000.

Stafne, E.T., E.W. Hellman, R.K. Striegler, K. Kelsey. 2009-2012. Development of a Grape Community of Practice for the eXtension System. USDA-NIFA Specialty Crops Research Initiative. Total: \$422,964; Hellman portion: \$67,260.

Hellman, E.W. 2009. Support for the Texas Viticulture & Enology Research Symposium. Texas Wine & Grape Growers Association. \$600 (Gift).

Hellman, E.W. and J. Kamas. 2008-2009. Developing and Maintaining Viticulture and Enology-Related Programs. Texas Enology and Viticulture Research and Education Program, Texas Dept. Agriculture. \$470,000.

Hellman, E.W. 2008. National Viticulture Extension Leadership Conference. E. & J. Gallo Winery. \$2,500 (Gift).

Hellman, E.W. and J. Kamas. 2006-2008. Viticulture Outreach Education Team. Texas Enology and Viticulture Research and Education Program, Texas Dept. Agriculture. \$470,000.

Hellman, E.W., T. Montague, and M. McBurney. 2006-2008. Viticulture and Enology Certificate Program. Texas Enology and Viticulture Research and Education Program, Texas Dept. Agriculture. \$54,400.

Hellman, E.W. 2007. National Viticulture Extension Leadership Conference. E. & J. Gallo Winery. \$2,500 (Gift).

Hellman, E.W., P. Porter, and M. Blanton 2006. Development of a national expert system for diagnosis of grape problems. Viticulture Consortium/CSREES. \$12,000.

Hellman, E.W., P. Porter, and M. Blanton 2006. Development of a national expert system for diagnosis of grape problems. American Vineyard Foundation. \$10,000.

Hellman, E.W. 2006. National Viticulture Extension Leadership Conference. E. & J. Gallo Winery. \$2,500 (Gift).

Hellman, E.W. 2006. Wine Texas Symposium. Llano Estacado Winery. \$200 (Gift).

Hellman, E.W., P. Porter, and M. Blanton 2005. Development of a national expert system for diagnosis of grape problems. Viticulture Consortium/CSREES. \$21,032.

Hellman, E.W., P. Porter, and M. Blanton 2005. Development of a national expert system for diagnosis of grape problems. The Wine and Food Foundation of Texas. \$21,032.

Hellman, E.W. 2005. Viticulture Extension. Lipe Foundation. \$3,458 (Gift).

Hellman, E.W. 2003. Post Oak Vineyards. \$1,000 (Gift).

Hellman, E.W. 2003. Llano Estacado Winery. \$500 (Gift).

Hellman, E.W. 2003. North Texas grape growers. \$350 (Gift).

Hellman, E.W. 2002. Viticulture Extension. Lipe Foundation. \$30,000 (Gift).

Hellman, E.W. 2002. Llano Estacado Winery, Post Oak Vineyards, Yellow Rose Vineyard, Mont Sec Vineyard, Plum Park Vineyard. \$ 5,500 (Gifts).

### Oregon State University

Hellman, E.W. 2000. Continuation of the Northwest Berry & Grape Information Net Cooperative Program. Northwest Center for Small Fruit Research. \$14,997

Hellman, E.W. 2000. Viticulture Extension Programs. Oregon Wine Advisory Board. \$6,200.

Hellman, E.W. 1999. Continuation of the Northwest Berry & Grape Information Net Cooperative Program. Northwest Center for Small Fruit Research. \$14,250

Hellman, E.W. 1999. Viticulture Extension Programs. Oregon Wine Advisory Board. \$4,500.

Hellman, E.W. 1998. Development of the Northwest Berry & Grape Information Net into a Tri-State Cooperative Program. Northwest Center for Small Fruit Research. \$13,000.

Hellman, E.W. 1998. Viticulture Extension Programs. Oregon Wine Advisory Board. \$3,500.

Hellman, E.W. 1997. Continuation of the Northwest Berry & Grape InfoNet. Northwest Center for Small Fruit Research, Oregon Strawberry Commission, Oregon Raspberry & Blackberry Commission, and Oregon Blueberry Commission. \$9,000

Rosetta, R. and E.W. Hellman. 1997. Implementation of biocontrol in strawberry. Oregon Strawberry Commission. \$3,200.

Rosetta, R. and E.W. Hellman. 1997. Berry Crop Demonstration Pest Collection. Oregon Strawberry Commission and Oregon Blueberry Commission. \$1,200.

Hellman, E.W. 1997. Viticulture Extension Programs. Oregon Wine Advisory Board. \$2,600.

Hellman, E.W. 1997. Blueberry Extension Programs. Oregon Blueberry Commission. \$1,000.

Hellman, E.W. 1996. Continuation of the Northwest Berry & Grape InfoNet. Northwest Center for Small Fruit Research, Oregon Strawberry Commission, Oregon Raspberry & Blackberry Commission, and Oregon Wine Advisory Board. \$18,875.

Hellman, E.W. 1996. Experimenting with Internet Teleconferencing. Innovative Grants Program - Oregon State University Extension. \$5,900.

Rosetta, R. and E.W. Hellman. 1996. Implementation of Biocontrol in strawberry. Oregon Strawberry Commission. \$1,350.

Rosetta, R. and E.W. Hellman. 1996. Berry Crop Demonstration Pest Collection. Oregon Strawberry Commission and Oregon Blueberry Commission. \$1,750

Hellman, E.W. 1996. Viticulture Extension Programs. Oregon Wine Advisory Board. \$2,000.

Hellman, E.W. 1996. Blueberry Extension Programs. Oregon Blueberry Commission. \$580.

Hellman, E.W. 1995. Development of the Northwest Berry & Grape InfoNet. Northwest Center for Small Fruit Research, Oregon Strawberry Commission, Oregon Raspberry & Blackberry Commission, Oregon Blueberry Commission, and Oregon Wine Advisory Board. \$22,175.

Hellman, E.W. 1995. Macrophotography workstation. Integrated Plant Protection Center. Oregon State University. \$1,000



Rosetta, R. and E.W. Hellman. 1995. Berry Crop Demonstration Pest Collection. Oregon Strawberry Commission and Oregon Blueberry Commission. \$900.

Hellman, E.W. 1995. Blueberry Extension Programs. Oregon Blueberry Commission. \$580.

#### Kansas State University

Gast, K.L.B., F. Aramouni, and E.W. Hellman. 1991. Grape Juice Processing Workshop. Kansas Value Added Center. Kansas State University. \$2,000.

Rajashekar, C.B., E.W. Hellman, and F.D. Morrison. 1985. Pomology teaching and demonstration orchard. Kansas State University. \$1,100.

#### **Research Grants and Gifts**

#### Texas A&M University/Texas Tech University

Montague, D., Hellman, E., Guo, W., 2021-2022. Improving High Plains Vineyard Irrigation Scheduling for Enhanced Water Use Efficiency. Ogallala Aquifer Program, USDA. \$42,020 (Hellman portion \$8,404).

Montague, D., E.W. Hellman, and W. Guo. 2019-2020. Improving High Plains Vineyard Irrigation Scheduling for Enhanced Water Use Efficiency. USDA-ARS Ogallala Aquifer Program. \$69,201 (Hellman portion \$6,920).

McCorkle, D., E. Hellman, and R. Dudensing. 2014-2017. Assessing Viticulture Production Practices for Robotic Technology Development. USDA-NIFA. \$462,002. (Hellman portion \$152,460).

Hellman, E.W. and T. Montague. 2010-2012. Viticulture Research to Increase Yields and Enhance Quality. Texas Department of Agriculture, Enology and Viticulture Extension and Research Grant Program. \$250,000 (Hellman portion \$125,000).

Thompson, T., B. Trela, E.W. Hellman, T. Montague, and C. McKenney. 2010-2012. Enhancing Academic Programs in Viticulture and Enology at Texas Tech University. Texas Department of Agriculture, Enology and Viticulture Extension and Research Grant Program. \$65,000 (Hellman portion \$13,000).

Shellie, K., H. Caspari, E. Hellman, B. Maier. 2010. NE-1020 Coordinated Wine Grape Cultivar Evaluations in the Western U.S. USDA-CSREES Viticulture Consortium West. \$10,074 (Hellman portion \$2,307).

Hellman, E., H. Caspari, B. Maier, K. Shellie. 2009. NE-1020 Coordinated Wine Grape Cultivar Evaluations in the Western U.S. USDA-CSREES Viticulture Consortium West. Total: \$8,073; Hellman portion: \$1,306.

Hellman, E.W. and T. Montague. 2008-2009. Viticulture Research: Grapevine physiology and cultivar evaluation. Texas Enology and Viticulture Research and Education Program, Texas Dept. Agriculture. Total: \$220,000; Hellman portion: \$145,200.

Trela, B. and E.W. Hellman. 2008-2009. The Effects of Nutrition on the Stability of Texas Wines. Texas Enology and Viticulture Research and Education Program, Texas Dept. Agriculture. Total: \$100,000; Hellman portion: \$4,368.

Caspari, H., E.W. Hellman, B. Maier, K. Shellie, E. Stover, and J. Wolpert. 2008. Coordinated Wine Grape Variety Evaluations in the Western U.S. Viticulture Consortium – West. \$1,740.

Hellman, E.W. and T. Montague. 2007. Viticulture Research: Grapevine physiology and cultivar evaluation. Texas Enology and Viticulture Research and Education Program, Texas Dept. Agriculture. Total: \$118,000; Hellman portion: \$77,880.

Hellman, E.W. 2007. Development of a geographic information system for the study of Pierce's disease in Texas. USDA-APHIS. \$69,000.

Hellman, E.W. 2007. Renovation of the Viticulture Field Laboratory into a Viticulture and Enology Laboratory. Wine & Food Foundation of Texas. \$20,000.

Hellman, E.W. 2007. Support for Annual Meeting of NE-1020: Multi-state Evaluation of Wine Grape Cultivars and Clones. Texas Department of Agriculture. \$2,000 (Gift).

Hellman, E.W. and T. Montague. 2006. Viticulture Research: Grapevine physiology and cultivar evaluation. Texas Enology and Viticulture Research and Education Program, Texas Dept. Agriculture. Total: \$118,000; Hellman portion: \$77,880.

Hellman, E.W. 2006. Development of a geographic information system for the study of Pierce's disease in Texas. USDA-APHIS. \$58,923.

Hellman, E.W. 2005. Evaluation of applied exogenous abscisic acid to delay budburst of grapevines for frost avoidance. Viticulture Consortium/CSREES. \$8,949.

Hellman, E.W. 2005. Evaluation of VBC-30025 for budburst delay of grapevines for frost avoidance. Valent BioSciences \$15,000.

Hellman, E.W. 2005. Development of a geographic information system for the study of Pierce's disease in Texas. USDA-APHIS. \$82,929.

Hellman, E.W. 2004. Evaluation of applied exogenous abscisic acid to delay budburst of grapevines for frost avoidance. Viticulture Consortium/CSREES. \$8,022.

Hellman, E.W. 2004. Evaluation of VBC-30025 for budburst delay and enhanced fruit color development in grapes. Valent BioSciences \$10,000.

Hellman, E.W. 2004. Development of a geographic information system for the study of Pierce's disease in Texas. USDA-APHIS. \$14,700.

Hellman, E.W. 2004. Student Research Intern Grant. Wine Society of Texas. \$1,250.

Hellman, E.W. 2003. Evaluation of the effects of two deficit irrigation strategies on grapevine cold acclimation, hardiness, growth, yield, and fruit quality. Viticulture Consortium/CSREES. \$19,883.

Hellman, E.W. 2003. Statewide vineyard survey for the study of Pierce's disease in Texas. USDA-APHIS. \$3,000.

Hellman, E.W. 2002. Evaluation of the effects of two deficit irrigation strategies on grapevine cold acclimation, hardiness, growth, yield, and fruit quality. Viticulture Consortium/CSREES. \$19,107.

Hellman, E.W. 2002. Development of Irrigation Scheduling Guidelines for Texas Wine Grape Production. Texas Department of Agriculture \$33,911.

Hellman, E.W. 2002. Soil Moisture Monitoring Equipment. Dynamax Co, Inc., Houston, Texas. \$9,355 (Gifts-in-Kind).

### Oregon State University

Hellman, E.W. 2000. Manipulating Soil Moisture and Nitrogen Availability to Improve Fermentation Behavior and Wine Quality. Part III: Effect of irrigation and soil management strategy on grapevine petiole nutrient content. Northwest Center for Small Fruit Research and Oregon Wine Advisory Board. \$23,550.

Hellman, E.W. 1999. Manipulating Soil Moisture and Nitrogen Availability to Improve Fermentation Behavior and Wine Quality. Part III: Effect of irrigation and soil management strategy on grapevine petiole nutrient content. Northwest Center for Small Fruit Research and Oregon Wine Advisory Board. \$22,010.

Hellman, E.W. and B. Watson. 1999. Evaluation of nitrogen deficiencies in Oregon grapevines and musts. Oregon Wine Advisory Board. \$4,876

Hellman, E.W. and B. Watson. 1998. Evaluation of nitrogen deficiencies in Oregon grapevines and musts. Northwest Center for Small Fruit Research and Oregon Wine Advisory Board. \$19,435.

Hellman, E.W. and B.C. Strik. 1998. The effect of pruning on yield components and economics of blueberry production. Northwest Center for Small Fruit Research. \$5,851.

Hellman, E.W. and B.C. Strik. 1997. The effect of pruning on yield components and economics of blueberry production. Northwest Center for Small Fruit Research. \$5,428

Watson, B., A. Specht, and E.W. Hellman. 1997. Evaluation of nitrogen deficiencies in Oregon grapevines and musts. Oregon Wine Advisory Board. \$7,850.

Hellman, E.W. and B.C. Strik. 1996. The effect of pruning on yield components and economics of blueberry production. NW Center for Small Fruit Research. \$5,200.

Rosetta, R. and E.W. Hellman. 1995. Biocontrol of two-spotted spider mite in strawberry. Center for Applied Agricultural Research and Oregon Strawberry Commission. \$7,220.

#### Kansas State University

Marr, C.W., E.W. Hellman, F.W. Morrison, K.L.B. Gast, P.H. Jennings, and W.J. Lamont. 1989. Increasing horticultural food crop production in Kansas through value-added technology. Kansas Value Added Center, Kansas State University. \$17,300. (Hellman portion \$6,000).

Hellman, E.W. 1987. Development of guidelines for evaporative cooling of strawberry. North American Strawberry Growers Association. \$2,500.

Hellman, E.W. and F.D. Morrison. 1986. Determination of critical heat stress temperatures of strawberry. North American Strawberry Growers Assoc. \$1,000.

### **OTHER REVENUE DEVELOPMENT**

#### **Fee-based Programs**

Texas Viticulture Certificate Program, 2007-present. \$1,116,400

Texas Winemaking Certificate Program, 2014- present. \$545,825

Texas Viticulture Short Course, 2005-2007. 187 participants. \$76,480  
Prospective Winegrower Workshops, 2008-2011. 682 participants. \$86,500  
Great Vineyards Program, 2011. 43 participants. \$5,400

### **Student Scholarships Development**

Texas Center for Wine and Culinary Arts Endowed Scholarship. \$25,000.  
Melanie Holloway Viticulture and Enology Endowed Scholarship. \$25,000.  
Buffalo Gap Wine & Food Summit Graduate Fellowship. 2011-2019. (\$30,000 total)  
Granbury Wine Walk Graduate Fellowship. 2013-present. (\$7,500 total)

## **PRESENTATIONS**

### **Presentations at Professional Conferences**

#### *International*

#### Invited

Hellman, E.W. 2009. Terroir of the Texas High Plains. 105th Annual Meeting of the Cordilleran Section, Geological Society of America. May 7-9, 2009. Kelowna, Canada.

#### Contributed

McCorkle, D.A., R.M. Dudensing, E.W. Hellman, D. Hanselka, R. Allen, and K. Gunnett. 2016. Assessing the economic viability of wine grape production in the U.S. and possibilities for robotic technology development. American Association of Wine Economists 10<sup>th</sup> Annual Conference. June 21-25. Bordeaux, France.

McCorkle, D.A., R.M. Dudensing, E.W. Hellman, D. Hanselka, K. Gunnett, and R. Allen. 2015. Exploring robotic technology for wine grape production. Ninth Annual Conference of American Association of Wine Economists. May 26-30. Mendoza, Argentina.

Hellman, E., F. Westover, and D. Holman. 2013. Vineyard problem diagnostic system for mobile computing devices. Eighteenth International Symposium GiESCO. July 7-11, 2013. Porto, Portugal.

Takow, E., E.W. Hellman, A.G. Birt, M.D. Tchakerian, and R.N. Coulson. 2012. An Internet-Based GIS Application for Vineyard Site Assessment in the U.S. and Matching Grape Variety to Site. IXth International Terroir Congress. June 25-29, 2012. Dijon, France and Reims, France.

Stafne, E.T., E. Hellman, R.K. Striegler, K. Kelsey, L. Greer, and K. Ker. 2012. eViticulture: Online Educational Materials for Commercial Grape Growers Developed by the Grapes Community of Practice. 8th International Cool Climate Symposium for Viticulture and Oenology. January 31-February 4, 2012. Hobart, Australia.

Pate, D.K., J.W. Johnson, E.W. Hellman, and C. Wang. 2011. Risk Sharing through Winegrape Contracts. 2011 Joint Annual Meeting of the Canadian Agricultural Economics Society and Western Agricultural Economics Association. July 1, 2011. Banff, Canada.

Hellman, E.W., E.A. Takow, M. D. Tchakerian, and R. N. Coulson. 2010. Texas Terroir: GIS Characterization of the Texas High Plains AVA. Proc. VIII International Terroir Congress. June 14-18, Soave, Italy.

Fisher, J.R. and Hellman, E. 2000. Status and progression of infestations and management of the grape phylloxera in the Pacific Northwest, USA. International Symposium on Grapevine Phylloxera Management. Melbourne, Australia.

#### *National Invited*

Hellman, E.W. 2014. Dealing with environmental challenges in the vineyard: Delivering the best product to the winemaker. Sixty-fifth National Conference of the American Society for Enology and Viticulture. June 23-27, Austin, TX.

#### Contributed

Hellman, E. 2019. Vineyard problem management recommendations: The Vineyard Advisor mobile app. National Conference of the American Society for Enology and Viticulture. June 17-20. Napa, California.

McCorkle, D.A., R.M. Dudensing, D. Hanselka, and E.W. Hellman. 2016. Evaluating the potential for precision mechanization in U.S. wine grape production. Agricultural & Applied Economics Association Annual Meeting. July 31-August 2. Boston, MA.

Montague, T. and E. Hellman. 2016. Using leaf excision during gas exchange measurements to increase sample size. Sixty-seventh National Conference of the American Society for Enology and Viticulture. June 27-30, Monterey, CA.

McCorkle, D.A., R.M. Dudensing, D. Hanselka, E.W. Hellman, R. Allen, and K. Gunnett. 2016. Economics of robotic technology in Texas wine grape production.

Southern Agricultural Economics Association Annual Meeting. February 7-9. San Antonio, TX.

Hellman, E.W., J. Scheiner, D. Holman, D. Stone, and S. Ross. 2015. The Vineyard Advisor mobile application for pest management recommendations. Annual Conference of the American Society for Horticultural Science. Aug. 4-7, 2015. New Orleans, LA.

Plank, C.A., E.W. Hellman, and T. Montague. 2014. Effects of light Environment on Methoxypyrazine Content of Cabernet Sauvignon. Sixty-fifth National Conference of the American Society for Enology and Viticulture. June 23-27, Austin, TX.

Takow, E., A.G. Birt, E.W. Hellman, and R.N. Coulson. 2014. The Utility of Growing Degree Days as an Index in Viticulture. Sixty-fifth National Conference of the American Society for Enology and Viticulture. June 23-27, Austin, TX.

Plank, C.M., E. Hellman, and T. Montague. 2013. The effects of sunlight and LED light on methoxypyrazine content of ripening berries of Cabernet Sauvignon. Sixty-fourth National Conference of the American Society for Enology and Viticulture. June 24-28, Monterey, CA.

Hellman, E.W. and F.A. Westover. 2012. Diagnosis of Grape Problems with the Vineyard Doctor. Sixty-third Annual Meeting of the American Society for Enology and Viticulture. June 18-22, Portland, OR.

Stafne, E.T., E. Hellman, R.K. Striegler, T. Martinson, B. Reisch, and J-M. Peltier. 2012. A Collaborative Research and Extension Outreach Model: The Grape Community of Practice. Annual Meeting of the American Society for Enology and Viticulture. June 18-22, Portland, OR.

Montague, T., E. Hellman, and K. Jenkins. 2012. Physiological differences of five grape varieties grown on the Texas High Plains. Annual Meeting of the Amer. Soc. Hort. Sci. Southern Region. February 3-6, 2012. Birmingham, AL

Montague, T., E. Hellman, and K. Jenkins. Physiology of Cabernet Sauvignon Grapevines Grafted to Different Rootstocks on the Texas High Plains. 2011. National Meeting of the American Society of Enology and Viticulture. June 20-24, 2011. Monterey, CA

Pate, D.K., C. Wang, J.W. Johnson, and E. Hellman. Economic Evaluation of Winegrape Contracts. 2011. National Meeting of the American Society of Enology and Viticulture. June 20-24, 2011. Monterey, CA

Stafne, E., E. Hellman, R.K. Striegler, and J. Peltier. Industry Involvement in the Creation and Funding of the Extension Grape Community of Practice. 2011. Annual Conference of the American Society for Horticultural Science. September 25-28, 2011. Waikoloa, HI

Hellman, E.W. and F.A. Westover. The Grape Doctor – A Vineyard Diagnosis Tool. 2011. Annual Conference of the American Society for Horticultural Science. September 25-28, 2011. Waikoloa, HI

Stafne, E., L. Greer, E. Hellman, R. K. Striegler, and K. Kelsey. 2011. eViticulture.org: A National Grape Community of Practice. Annual Meeting of the American Society for Horticultural Science – Southern Region. February 5-7, 2011. Corpus Christi, TX

Montague, T., E. Hellman, and K. Jenkins. 2011. Influence of rootstocks on physiology of 'Cabernet Sauvignon' grapevines grown on the Texas High Plains. Annual Meeting of the American Society for Horticultural Science – Southern Region. February 5-7, 2011. Corpus Christi, TX

Montague, T., E. Hellman, and K. Jenkins. 2010. Influence of rootstocks on physiology of merlot grapevines grown on the Texas High Plains. Annual Conference of the Southern Region of the American Society for Horticultural Science. Orlando.

Montague, T., E. Hellman, and K. Jenkins. 2010. Physiological differences of cool, warm, and hot climate Grapevine varieties on the Texas High Plains. Annual Conference of the Southern Region of the American Society for Horticultural Science. Orlando, FL.

Montague, T., E. Hellman, and K. Jenkins. 2010. Update on physiological differences of cool, warm, and hot climate grapevine varieties grown on the Texas High Plains. Annual Meeting of the American Society for Enology and Viticulture. Seattle, WA.

Montague, T., E. Hellman, and M. Krawitzky. Gas exchange of field-grown cool, warm, and hot climate grapevine varieties in West Texas. Annual Meeting of the American Society for Enology and Viticulture. 22-25 June 2009, Napa, California.

Montague, T., E. Hellman, and M. Krawitzky. Comparison of field-grown grapevine stomatal conductance measurements using differing porometers. Annual Meeting of the Southern Region of the American Society for Horticultural Science. 1 -2 February 2009, Atlanta, Georgia.

Krawitzky, M., T. Montague, and E. Hellman. 2008. Gas exchange response of field-grown Merlot grapevines as influenced by rootstock. Annual Conference of the American Society for Enology and Viticulture. Portland, OR



Krawitzky, M., T. Montague, and E. Hellman. 2008. Influence of rootstock on gas exchange of field grown merlot grapevines. Annual Meeting of the Southern Region of the American Society for Horticultural Science. Dallas, TX

Montague, T., E. Hellman, and M. Krawitzky. 2008. Comparison of greenhouse grown, containerized grapevine stomatal conductance measurements using two differing porometers. 2<sup>nd</sup> Annual National Viticulture Research Conference. Davis, California.

Krawitzky, M., T. Montague, and E. Hellman, and M. 2008. Propagation success of grapevines infected with *Xylella fastidiosa*. 2<sup>nd</sup> Annual National Viticulture Research Conference. Davis, California.

Takow, E.A., E.W. Hellman, M.D. Tchakerian, and R.N. Coulson. 2008. Utility of a Geographic Information System (AVATXIS) as a tool in the characterization of Texas Wine Regions. 2<sup>nd</sup> Annual National Viticulture Research Conference. Davis, California.

Hellman, E.W. and S. Shelby. 2005. Evaluation of abscisic acid for budburst delay of grapevine. Annual Conference of the American Society for Enology and Viticulture. June 20-24. Seattle, Washington.

Basinger, A., E.W. Hellman, and S. Shelby. 2004. Evaluation of grapevine 'Cabernet Sauvignon' response to two deficit irrigation strategies. Annual Conference of the American Society for Horticultural Science. July 17-20. Austin, Texas.

Hellman, E.W., G. Koskela, and W. Friedkin. 1997. Viticulture Extension program delivery on the world wide web. Annual Conference of the American Society for Enology and Viticulture. San Diego, California.

Hellman, E.W. 1993. Investigations of the role of epicuticular wax in resistance of grape berries to *Botrytis cinerea*. Annual Conference of the American Society for Horticultural Science. July 22-29, Nashville, Tennessee.

Hellman, E.W. and W. Reid. 1987. Effect of sawdust and pecan shell mulches on highbush blueberry growth. Annual Conference of the American Society for Horticultural Science. Nov. 6-12. Kissimmee, Florida.

Abdul-Kadir, S., C.B. Rajashekar, and E.W. Hellman. 1987. Cold hardiness and dormancy in blackberries. Annual Conference of the American Society for Horticultural Science. Nov. 6-12. Kissimmee, Florida.

Hellman, E.W. and J.N. Moore. 1982. Some effects of inbreeding on highbush and rabbiteye blueberries. Annual Conference of the American Society for Horticultural Science. Aug. 9-12. Ames, Iowa.

Hellman, E.W., R.M. Skirvin, and A.G. Otterbacher. 1979. Overcoming incompatibility associated with interspecific hybridization of red and black raspberries. Annual Conference of the American Society for Horticultural Science. Aug. 29-Sept. 4. Columbus, Ohio.

### **Conferences, Symposia or Workshops Organized**

National Viticulture & Enology Extension Leadership Conference. March 10-13, 2019. Fredericksburg, TX

Newsom Grape Day. April 28, 2017. Newsom Vineyards. Plains, TX

Effective Vineyard Spraying Workshop. June 22, 2016. Lubbock, TX

Newsom Grape Day. April 15, 2016. Newsom Vineyards. Plains, TX

Newsom Grape Day, April 17, 2015. Newsom Vineyards. Plains, TX

Update on the Dow AgroSciences Enlist Weed Control System. May 21, 2015. Lubbock, TX

Water Use Efficiency Symposium. Sixty-fifth National Conference of the American Society for Enology and Viticulture. June 24, 2014 Austin, TX

Newsom Grape Day. May 9, 2014. Newsom Vineyards. Plains, TX

Freeze Recovery Strategies. June 7, 2013. Diamonte Doble Vineyard, Tokio, TX

Newsom Grape Day. April 26, 2013. Newsom Vineyards. Plains, TX

Texas Wine & Grape Growers Association Annual Conference. February 16-18, 2012, San Marcos, TX.

Texas Wine & Grape Growers Association Grape Camp. November 6-7, 2011. Fredericksburg, TX.

Texas Wine & Grape Growers Association Grape Camp. November 7-8, 2010. Fredericksburg, TX.

Texas Wine & Grape Growers Association Grape Camp: New Grower Session. November 15, 2009. Fredericksburg, TX.

Texas Viticulture & Enology Research Symposium. June 2-3, 2009. Granbury, TX

National Viticulture & Enology Extension Leadership Conference. March 31-April 2, 2009. Oklahoma City, OK.

Texas Wine & Grape Growers Association Grape Camp: New Grower Session. November 15, 2008. Fredericksburg, TX.

National Viticulture & Enology Extension Leadership Conference. April 2-3, 2008. Albuquerque, NM.

Developing a Growing Industry. May 8, 2007. Brownwood, Texas.

National Viticulture & Enology Extension Leadership Conference. March 27-29, 2007. Nashville, TN.

Texas Viticulture Short Course. February 7-9, 2007. Fredericksburg, TX.

National Viticulture & Enology Extension Leadership Conference. March 28-30, 2006. San Antonio, TX.

Texas Viticulture Short Course. January 18-20, 2006. Junction, TX.

Texas Viticulture Short Course. January 12-14, 2005. Junction, TX.

Texas Wine & Grape Growers Association's Grape Camp. October 3-4, 2003, Junction, TX

Texas Wine & Grape Growers Association Harvest Festival. October 18-19, 2002. Dallas, TX

Taxation and Accounting for Vineyards and Wineries. March 21, 2002. Dallas, TX

Texas Wine & Grape Growers Association's Grape Camp. February 22-23, 2002, Junction, TX

Texas Wine & Grape Growers Association Harvest Festival. October 19-21, 2001. Dallas, TX

Problems with Grafted Grapevines Workshop, 2000, Corvallis, OR

Co-Chair, Winegrape Session, Oregon Horticultural Society Annual Meeting, 2000, Portland, OR

Co-organizer, Oregon State University Grape Day, Corvallis, OR, 2000

Co-Chair, Winegrape Session, Oregon Horticultural Society Annual Meeting, 1999 Portland, OR

Co-organizer, Oregon State University Grape Day, 1999, Corvallis, OR

Oregon Blueberry Growers Association Meeting, 1998, Aurora, OR

Sprayer Calibration Workshop, 1998, Aurora, OR

Co-Chair, Winegrape Session, Oregon Horticultural Society Annual Meeting, 1998 Portland, OR

Co-organizer, Oregon State University Grape Day, 1998, Corvallis, OR

Winegrape Disease Management Workshop, 1998

Grapevine Grafting Workshop, 1997, Wilsonville, OR

Oregon Blueberry Growers Association Meeting, 1997. Aurora, OR

Co-Chair, Winegrape Session, Oregon Horticultural Society Annual Meeting, 1997 Portland, OR

Co-organizer, Oregon State University Grape Day, 1997, Corvallis, OR

Blueberry Disease Management Workshop, 1997, Wilsonville, OR

Co-Chair, Winegrape Session, Oregon Horticultural Society Annual Meeting, 1996 Portland, OR

Oregon Blueberry Growers Association Meeting, 1996. Aurora, OR

Co-organizer, Oregon State University Grape Day, 1996, Corvallis, OR

Grape Powdery Mildew Workshop, 1995, Corvallis, OR

Canopy Management Workshop, 1995, Corvallis, OR

Grapevine Pruning Workshop, 1994, Corvallis, OR

Grape Juice Processing Workshop, 1991, Manhattan, Kansas.

### **Outreach and Extension Presentations**

#### Invited: National, and Regional

*The Vineyard Advisor Mobile App for Pest Management.* Virtual Tailgate Meeting. San Joaquin Valley Winegrowers Association. June 16, 2021. CA.

*Low-Hanging Fruit: Prioritizing Vineyard Mechanization Development.* Washington Association of Wine Grape Growers Convention. Feb. 7-9, 2017. Kennewick, WA.

*Useful Mobile Apps for Vineyards and Wineries.* Show Me Grape and Wine Conference. March 16-17, 2016. Columbia, MO.

*Diagnosing Grape Problems with the Vineyard Doctor Computer Application.* Arkansas Association of Grape Grower's Annual Conference. November 15, 2013. Ozark, AR.

*The Doctor Will See You Now: Introducing the Vineyard Doctor Diagnostic System.* Wineries Unlimited Trade Show & Conference. March 14, 2013. Richmond, VA.

*Introduction to the Yield versus Quality Debate.* Wineries Unlimited Trade Show & Conference. March 13, 2013. Richmond, VA.

*The Doctor is In: Introducing the Vineyard Doctor Diagnostic System.* Midwest Grape & Wine Conference & Trade Show. February 9, 2013. St. Charles, MO.

*Introduction to the Yield versus Quality Debate.* Midwest Grape & Wine Conference & Trade Show. February 8, 2013. St. Charles, MO.

*Water Requirements of Grapevines and Irrigation Management.* Midwest Grape & Wine Conference & Trade Show. February 7, 2013. St. Charles, MO.

*Exploring the Wine Regions of Texas with GIS.* 28<sup>th</sup> Annual New Mexico Vine and Wine Conference. February 28, 2009. Albuquerque, NM.

*Current Status of Pierce's Disease in Texas.* 28<sup>th</sup> Annual New Mexico Vine and Wine Conference. February 27, 2009. Albuquerque, NM.

*Overview of Texas Winegrowing Regions.* Tennessee Viticultural and Oenological Society Annual Conference. January 30, 2009. Nashville, TN.

*Monitoring Fruit Ripening Prior to Harvest.* Tennessee Viticultural and Oenological Society Annual Conference. January 30, 2009. Nashville, TN.

*Update on Pierce's Disease in Texas.* Tennessee Viticultural and Oenological Society Annual Conference. January 31, 2009. Nashville, TN.

*Water Management and Irrigation Scheduling.* Tennessee Viticultural and Oenological Society Annual Conference. January 31, 2009. Nashville, TN.

*Irrigation Scheduling using Evapotranspiration Data.* Colorado Grape Grower Workshop. November 8, 2008. Palisade, CO.

*The Winegrowing Regions of Texas.* Indiana Horticultural Congress. January 29, 2008. Indianapolis, IN.

*Frost Protection Techniques for Vineyards.* Indiana Horticultural Congress. January 29, 2008. Indianapolis, IN.

*Monitoring Grape Maturity.* Mid America Fruit Growers Conference. January 18, 2007. Excelsior Springs, MO.

*Irrigation Scheduling for Wine Grapes.* Annual Meeting of the Kansas Grape Growers and Wine Makers Association. January 5, 2007. Manhattan, KS.

*Monitoring Grape Maturity before Harvest.* Annual Meeting of the Kansas Grape Growers and Wine Makers Association. January 5, 2007. Manhattan, KS.

*Monitoring Water Status, Even in a "Wet Climate".* NC State Viticulture Workshop. November 17, 2006. Raleigh, NC.

*Irrigation Scheduling.* Eighth Annual Nebraska Winery and Grape Growers Forum and Trade Show. March 4-5, 2005. Kearney, NE.

*Adventures in Viticulture: growing grapes in diverse climates.* Eighth Annual Nebraska Winery and Grape Growers Forum and Trade Show. March 4-5, 2005. Kearney, NE.

*Canopy and Crop Management.* Kentucky Grape and Wine Short Course. January 6, 2004. Lexington, KY.

*Grape Flowering and Fruiting Physiology.* Kentucky Grape and Wine Short Course. January 6, 2004. Lexington, KY.

*Frost Control for Grapes.* Kentucky Grape and Wine Short Course. January 6, 2004. Lexington, KY.

*How to Judge Grape Ripeness before Harvest.* Southwest Regional Vine & Wine Conference. February 27-28, 2004. Albuquerque, NM.

*Tips on Growing Grapes in Arid and Semi-Arid Climates.* Southwest Regional Vine & Wine Conference. February 27-28, 2004. Albuquerque, NM.

*Viticulture and Enology Extension Programs in the Southwest and Midwest.* National Research and Extension Priorities Strategy Session. May 25, 2004. Chicago, IL.

*Recent Trends in the Texas Wine Industry.* Annual Meeting of the Oklahoma Grape Growers Association. 2002. Norman, OK.

*Viticultural lessons from Oregon and Texas.* 21<sup>st</sup> Annual Meeting of the New Mexico Grape Growers and Wine Makers. 2002. Rio Rancho, NM.

*Balancing yield and quality.* 21<sup>st</sup> Annual Meeting of the New Mexico Grape Growers and Wine Makers. 2002. Rio Rancho, NM.

*Lessons from the Oregon Wine Industry.* Annual Meeting of the Kansas Grape Growers & Winemakers Association. 1998. Salina, KS.

*The Internet as a Source for Viticulture and Enology Information.* Annual Meeting of the Kansas Grape Growers & Winemakers Association. 1998. Salina, KS.

*Viticulture Resources on the Internet.* Thirteenth Annual Midwest Regional Grape & Wine Conference. 1998. Osage Beach, MO.

*Wine grape varieties.* Twelfth Annual Oklahoma Horticulture Industries Show. 1993. Tulsa, OK.

*Bird control in small fruits.* Twelfth Annual Oklahoma Horticulture Industries Show. 1993. Tulsa, OK.

Invited: In-State

*Soil Variability in Vineyards – Consequences and Management.* Newsom Grape Day. April 30, 2021. Plains, TX.

*Vineyard Fertilization Timing.* Texas Wine & Grape Growers Association Annual Conference. February 24, 2021. Virtual Conference.

*Vineyard Crop Estimation.* Hill Country Wine Symposium. January 22, 2020. Horseshoe Bay, TX.

*Developing an American Viticultural Area (AVA).* Texas Wine & Grape Growers Association Grape Camp. November 4, 2019. Fredericksburg, TX.

*Pest Management – There’s an App for that!* Texas Wine & Grape Growers Association Grape Camp. November 3, 2019. Fredericksburg, TX.

*Grapevines in the Landscape: Considerations and Maintenance.* Texas Nursery and Landscape Expo 2019. August 8-10. San Antonio, TX

*Texas Vineyard Survey – Results and Interpretation.* Texas Wine and Grape Growers Association Annual Conference. February 21-24, 2019. San Marcos, TX.

*Texas Interpretations of Italian Wine Varieties.* Osher Lifelong Learning Institute, Texas Tech University at Fredericksburg. November 7, 2018.

*The Vineyard Advisor and Other Pest Management Resources.* Texas Wine & Grape Growers Association Grape Camp. November 4, 2018. Fredericksburg, TX.

*Considerations for Starting a Vineyard.* Kendall Soil & Water Conservation District Vineyard Field Day. May 16, 2018, Comfort, TX.

*Canopy Management Tools.* Newsom Grape Day, April 27, 2018, Plains, TX.

*Winery Startup Lessons Learned – Panel Discussion.* Texas Wine & Grape Growers Association Annual Conference. February 23, 2018, Irving, TX.

*Emerging issues: Escalation of herbicide drift problems.* Texas Wine & Grape Growers Association Annual Conference. February 17, 2017, San Marcos, TX.

*Texas Tech outreach programs supporting expansion of the Texas wine industry.* Americas Competitiveness Exchange on Innovation and Entrepreneurship. April 4, 2017, Fredericksburg, TX.

*Survey of Texas Vineyard Soils: Characteristics and challenges.* Texas Wine & Grape Growers Association Grape Camp. November 5-6, 2017. Fredericksburg, TX.

*Vineyard Site Evaluation.* 2016. Texas Wine & Grape Growers Association Grape Camp. November 6. Fredericksburg, TX.



*Grape Production in West Texas – Climatic Considerations.* 2016. Early Career Researcher Professional Development Training. June 23. South Central Climate Science Center. Lubbock, TX.

*Texas Tempranillo Symposium and Tasting.* 2016. Texas Wine & Grape Growers Association Annual Conference. February 18. Frisco, TX.

*Texas Interpretations of Italian Wine Varieties.* 2015. Osher Lifelong Learning Institute, Texas Tech University. November 16. Lubbock, TX.

*Vineyard Site Evaluation.* 2015. Texas Wine & Grape Growers Association Grape Camp. November 1. Fredericksburg, TX.

*Frost Damage Prevention and Protection Strategies for Texas.* 2015. Texas Wine & Grape Growers Association Annual Conference. February 19. San Marcos, TX.

*Vineyard Irrigation Strategies.* 2015. 23<sup>rd</sup> Annual Gulf Coast Grape Grower Field Day. February 6. Cat Spring, TX.

*The New Taste of Texas Wines.* 2014. Osher Lifelong Learning Institute, Texas Tech University. November 17. Lubbock, TX.

*Vineyard Soils.* 2014. Texas Wine & Grape Growers Association Grape Camp. November 3. Fredericksburg, TX.

*Developing a New Vineyard.* 2014. Texas Wine & Grape Growers Association Grape Camp. November 2. Fredericksburg, TX.

*High Plains Research Update.* Texas Wine & Grape Growers Association Grape Camp. November 4, 2013. Fredericksburg, TX.

*Overall Planning for Developing a New Vineyard: Site Assessment.* Texas Wine & Grape Growers Association Grape Camp. November 3, 2013. Fredericksburg, TX.

*Achieving Crop Balance for Yield and Quality.* Texas Wine & Grape Growers Annual Conference & Trade show. February 14, 2103. San Marcos, TX.

*The Texas Wine Industry.* 20<sup>th</sup> Century Club. November 28, 2012. Lubbock, TX

*Addressing Seasonal Nutritional Needs in the Vineyard.* Texas Wine & Grape Growers Association Grape Camp. November 5, 2012. Fredericksburg, Texas.

*Varieties and Rootstocks for Texas.* Texas Wine & Grape Growers Association Grape Camp. November 4, 2012. Fredericksburg, Texas.

*Texas Viticulture: Today and Tomorrow.* Muesebach Lecture Series. Gillespie County Historical Society. May 18, 2012. Fredericksburg, Texas.

*Can Texas Agriculture Support a Viable Wine Industry? Regional Benefits: Climate and Geographical Challenges.* Winery and Wine Distribution Law Conference. Oct. 8-9, 2010. San Antonio, TX.

*The Texas High Plains AVA.* Texas Department of Agriculture High Plains Planting Tour. March 27, 2009. Lubbock, TX.

*Sustainable Viticulture – Application and Implications for Texas.* (Keynote speaker) Texas Wine and Grape Growers Association Annual Conference. February 21, 2009. Austin, TX.

*Top Ten Keys to Growing High Quality Grapes in Texas.* Texas Wine and Grape Growers Association Annual Conference. February 19, 2009. Austin, TX

*The Winegrowing Regions of Texas.* Lunch & Learning. Division of Outreach & Distance Education, Texas Tech University. February 19, 2008. Lubbock, TX

*Grape Clones: Considerations for Texas Vineyards.* 2008. Texas Wine & Grape Growers Association Annual Conference. February 23, 2008. Houston, Texas.

*Economics of Vineyard Establishment.* Texas Wine and Grape Growers Grape Camp. November 10, 2007. Fredericksburg, Texas.

*Site Selection, Row Orientation, and Training Systems.* Texas Wine and Grape Growers Grape Camp. November 9, 2007. Fredericksburg, Texas.

*Frost Protection: Review of Techniques.* Texas Wine and Grape Growers Grape Camp. November 9, 2007. Fredericksburg, Texas.

*Emerging Wine Grape Varieties for Texas.* Texas Wine and Grape Growers Grape Camp. November 9, 2007. Fredericksburg, Texas.

*Economics of Vineyard Establishment.* Texas Department of Agriculture Training. August 16, 2007. Austin, Texas.

*Vineyard Economics and Current Market Situation.* Developing a Growing Industry. May 8, 2007. Brownwood, Texas.

*An Interactive GIS to Explore Texas Climates and Soils.* Texas Wine and Grape Growers Association Conference. February 23, 2007. Houston, Texas.

*Improving Grape Quality for Improved Wine Quality.* 30<sup>th</sup> Annual Meeting of the Texas Wine and Grape Growers Association. February 24, 2006. Austin, Texas.

*Climatic Analysis and Comparison of Texas Wine Regions.* Texas Wine and Grape Growers Association – Grape Camp. November 12 , 2005. Junction, Texas.

*The National Grape and Wine Initiative.* Texas Wine and Grape Growers Association – Grape Camp. November 12, 2005. Junction, Texas.

*The Problem of Phenoxy Herbicide Drift on Grapevines.* 52<sup>nd</sup> Annual Agricultural Chemicals Conference. September 7, 2004. Lubbock, Texas.

*Can Texas Grow Great Grapes?* Southwest Wine Symposium. 2003. Kerrville, TX.

*Viticultural Lessons from Oregon.* TWGGA Grape Camp. 2001. Junction, Texas

*Winegrape Pest Management.* IPM in Oregon: Achievements and Future Directions. 1999. Corvallis, Oregon.

*Jory is a Premier Winegrowing Soil.* Meeting of the Oregon Society of Soil Scientists. 1999. Salem, Oregon.

*Management of a Phylloxera-Infested Vineyard.* Phylloxera Summit. Oregon Wine Advisory Board. 1999. Eugene, Oregon.

*Top Ten Lessons Learned by a Webmaster.* OSU College of Agricultural Sciences Workshop on Applications of the Web for Program Delivery. 1999. Newport, Oregon.

*Grape Production.* Business of Horticulture Workshop, Clackamas Community College. 1999. Oregon City, Oregon.

*Searching the Web for Pest Management Info for Landscape Contractors.* Meeting of the Oregon Landscape Contractors Association. 1999. Canby, Oregon.

*Table Grape Varieties for Oregon.* Oregon Assoc. Nurserymen - Retail Chapter, Spring Meeting. 1997. Wilsonville, Oregon.

*The Northwest Berry and Grape InfoNet.* Sixth Northwest Biennial Blueberry Growers Meeting. 1996. Portland, Oregon.

*Berry Crops for the Small Farm,* Small Farming Workshop. 1996. Portland, Oregon.

*Growing Winegrapes - advanced topics,* Small Farming Workshop. 1996. Portland, Oregon.

*The Oregon Grape Industry*, Monthly meeting of the Rickreall Grange. 1996. Rickreall, Oregon.

*Growing Berry Crops in Western Oregon*, Small Farm Workshop. 1996. Portland, Oregon.

*Using the World Wide Web for winegrape information*, monthly meeting of the Salem area grape growers. 1996. Salem, Oregon.

*Table grapes and fall raspberries*, Tillamook County Master Gardeners Association. 1996. Aurora, Oregon.

*The Winegrape Industry in Oregon*. Elderhostel of Linn County. 1996. Corvallis, Oregon.

*Searching the Internet with the Northwest Berry and Grape InfoNet*. Willamette Field Representatives Monthly Meeting. 1996. Salem, Oregon.

*The Northwest Berry and Grape InfoNet*. Scenic Fruit Company Semi-annual Grower Meeting. 1996. Woodburn, Oregon.

*The Internet and the Nursery Industry*. Meeting of the Emerald Empire Chapter of the Oregon Association of Nurserymen. 1996. Eugene, Oregon.

*Using Netscape and the Northwest Berry & Grape InfoNet*. Internet Workshop. Oregon Wine Advisory Board. 1996. Salem, Oregon.

*Using the World Wide Web to Access Nursery Information*. 1995. Executive Committee Meeting of the Oregon Nurserymen Association. 1995. Aurora, Oregon.

*Blueberry Disease Control*. Meeting of the Oregon Blueberry Grower's Association. 1995. Aurora, Oregon.

*Petiole analysis for determining grapevine nutrient status*. Salem area winegrowers monthly meeting. 1995. Salem, Oregon.

*Introduction to winegrape production in Oregon*. Small Farm Workshop. 1995. Portland, Oregon.

*Blueberry pollination requirements and bees*. Meeting of the Oregon Blueberry Grower's Association. 1995. Aurora, Oregon.

*Sanitary precautions to prevent the spread of phylloxera in vineyards*. Consolidated Farm Service Agency, training session. 1995. Aurora, Oregon.

*Table grapes for home gardens.* Ornamentals Northwest Seminars. 1995. Portland

*Training Systems for Grapevines.* Kansas Grape Growers & Winemakers Association Annual Meeting. 1992. Topeka, Kansas.

*Controlling Bird Damage in Grapes.* Kansas Grape Growers & Winemakers Association Annual Meeting. 1992. Topeka, Kansas.

*Wine Grape Varieties for Kansas.* Kansas Grape Growers & Winemakers Association Annual Meeting. 1992. Topeka, Kansas.

*Managing Fruit Crops for Cold Hardiness.* Kansas Fruit Growers Association Annual Meeting. 1990. Manhattan, Kansas.

*Grape cultivar performance and utilization.* Kansas Fruit Growers Association Annual Conference. 1989. Manhattan, Kansas.

*Grafting Grapevines.* Kansas Fruit Growers Association Annual Conference. 1987. Manhattan, Kansas.

#### Extension Program Presentations

*Engaging the Emerging Texas Wine Industry to Enhance Rural Development.* Texas Tech 2017 Regional Academic Engagement Symposium. February 21-22, 2017, Lubbock, Texas.

*Vineyard Irrigation Scheduling.* Newsom Grape Day, April 28, 2017, Plains, TX.

*Negative Fruit Quality Impacts of Powdery Mildew.* Newsom Grape Day, April 15, 2016. Newsom Vineyards. Plains, TX

*Vineyard Water Management.* Viticulture Short Course, June 2, 2015. College Station, TX

*Grape Production in Chile.* Newsom Grape Day, April 17, 2015. Newsom Vineyards. Plains, TX

*Comparison of Tempranillo Growing Regions in Spain and Texas.* Newsom Grape Day. May 9, 2014. Plains, TX

*Vineyard Water Management.* 2014. Annual Conference of the Texas Wine & Grape Growers Assoc., Feb. 13, 2014. Frisco, TX.

*Alternative Grape Varieties.* 2013. Newsom Grape Day. April 26. Plains, TX

*Mythbusters: Debunking Popular Grape Growing Misconceptions.* 2012. Annual Conference of the Texas Wine & Grape Growers Assoc., Feb. 17. San Marcos, TX

*Maturity Monitoring and Harvest Timing.* 2011. Annual Gulf Coast Grape Grower Field Day, February 11, 2011. Cat Spring, TX

*Texas Terroir – Climates and Soils of Texas Winegrowing Regions.* 2011 Annual Conference of the Texas Wine & Grape Growers Assoc., March 3., San Marcos, TX

*The Grape Doctor problem diagnosis system.* 2011 Annual Conference of the Texas Wine & Grape Growers Association, March 3, 2011. San Marcos, TX

*eGrapes National Website.* 2011 Annual Conference of the Texas Wine & Grape Growers Association, March 3, 2011. San Marcos, TX

*Overview of Current and Future Viticulture Research.* 2011. Newsom Grape Day. April 29, 2011. Plains, TX

*What is a Balanced Vine and Why do We Care?* 2011. North Texas Grape & Wine Field Day. May 27, 2011. Burleson, TX

*Resources and Tools for New Growers.* 2011. Texas Wine & Grape Growers Association Grape Camp. November 6, 2011. Fredericksburg, TX

*Factors Influencing Bud Fruitfulness.* Newsom Vineyard Grape Day. Plains, Texas, April 30, 2010.

*Practical Irrigation Management in the Gulf Coast Region.* 18<sup>th</sup> Annual Gulf Coast Grape Day. Cat Spring, Texas, February 12, 2010.

*Small Acreage Grape Production.* Texas AgriLife Extension Webinar. Nov. 18, 2009. (multiple locations).

*Vineyard Site Selection.* Texas Wine & Grape Growers Association Grape Camp. Nov. 15-16, 2009. Fredericksburg, TX

*Grapevine Physiology in Relation to Frost Damage Risk.* Texas Wine & Grape Growers Association Grape Camp. Nov. 15-16, 2009. Fredericksburg, TX

*Evaluation of Regulated Deficit Irrigation in West Texas.* 2009 Texas Viticulture & Enology Research Symposium. June 2, 2009. Granbury, TX.

*Evaluation of Abscisic Acid to Delay Budburst of Grapevines.* 2009 Texas Viticulture & Enology Research Symposium. June 3, 2009. Granbury, TX.

*Soil and Vine Measurements for Irrigation Scheduling.* Davies Grape Day. May 15. Saint Jo, TX

*Calcium, Potassium, and Magnesium Nutrition.* 17<sup>th</sup> Annual Gulf Coast Grape Day. February 6, 2009. Cat Spring, Texas.

*Nursery Stock Issues.* Texas High Plains Pierce's Disease Education Meeting. January 20, 2009. Lubbock, Texas.

*Striking a Balance with Calcium, Potassium and Magnesium.* Texas Wine & Grape Growers Association Grape Camp. November 9-10, 2008. Fredericksburg, Texas.

*Vineyard Weed Management.* Texas Wine & Grape Growers Association Grape Camp. November 9-10, 2008. Fredericksburg, Texas.

*Water Management and Irrigation Scheduling.* Texas Wine & Grape Growers Association Grape Camp. November 9-10, 2008. Fredericksburg, Texas.

*Irrigation Scheduling.* Davies Grape Day. May 16, 2008. Saint Jo, Texas.

*Canopy Management for Improved Disease Control.* Gulf Coast Grape Day. February 8, 2008. Cat Spring, Texas.

*Post-Harvest Vineyard Management.* October 10, 2007. Brownfield, Texas.

*Update on the Texas Viticulture and Enology Program.* Newsom Vineyard Grape Day. April 27, 2007. Plains, TX.

*Grapevine Anatomy and the Cycle of Vine Growth.* Texas Viticulture Short Course. February 7, 2007. Fredericksburg, TX.

*Grapevine Physiology.* Texas Viticulture Short Course. February 7, 2007. Fredericksburg, TX.

*Grape Variety Selection.* Texas Viticulture Short Course. February 7, 2007. Fredericksburg, TX.

*Spacing and Trellis Considerations.* Texas Viticulture Short Course. February 7, 2007. Fredericksburg, TX.

*Crop Assessment and Thinning.* Texas Viticulture Short Course. February 8, 2007. Fredericksburg, TX.

*Pruning.* Texas Viticulture Short Course. February 8, 2007. Fredericksburg, TX.

*Irrigation Scheduling.* Texas Viticulture Short Course. February 8, 2007. Fredericksburg, TX.

*Monitoring Fruit Maturity.* Texas Viticulture Short Course. February 9, 2007. Fredericksburg, TX.

*Powdery Mildew and Bunch Rot Diseases.* Texas Viticulture Short Course. February 9, 2007. Fredericksburg, TX.

*Anthrachnose, Crown Gall, and Virus Diseases.* Texas Viticulture Short Course. February 9, 2007. Fredericksburg, TX.

*Nematodes and Phylloxera.* Texas Viticulture Short Course. February 9, 2007. Fredericksburg, TX.

*Insect and Mite Pests.* Texas Viticulture Short Course. February 9, 2007. Fredericksburg, TX.

*Developing a Pest Management Program.* Texas Viticulture Short Course. February 9, 2007. Fredericksburg, TX.

*Grapevine Canopy Management.* Gulf Coast Grape Day. January 12, 2007. Cat Spring, Texas.

*Monitoring Fruit Maturity.* Hill Country Grape Growers Field Day. July 11, 2006. Driftwood, TX.

*Airblast Sprayer Calibration.* Davies Grape Day. May 12, 2006. St. Jo, TX.

*Ask the Grape Expert.* Red Star Farms Grape Day. May 4, 2006. Midland, TX.

*Grapevine Acclimation and Deacclimation.* Newsom Vineyard Grape Day. April 28, 2006. Plains, TX.

*Grapevine Budburst Delay Research.* Newsom Vineyard Grape Day. April 28, 2006. Plains, TX.

*Viticulture Potential for the Rolling Plains.* February 27, 2006. Knox County, TX.

*Crop Estimation and Thinning for High Quality Winegrapes.* Gulf Coast Grape Day. February 16, 2006. Cat Spring, TX.

*Grapevine Anatomy and the Cycle of Vine Growth.* Texas Viticulture Short Course. January 18, 2006. Junction, TX.



*Grapevine Physiology*. Texas Viticulture Short Course. January 18, 2006. Junction, TX.

*Grape Variety Selection*. Texas Viticulture Short Course. January 18, 2006. Junction, TX.

*Spacing and Trellis Considerations*. Texas Viticulture Short Course. January 18, 2006. Junction, TX.

*Crop Assessment and Thinning*. Texas Viticulture Short Course. January 19, 2006. Junction, TX.

*Pruning*. Texas Viticulture Short Course. January 19, 2006. Junction, TX.

*Irrigation Scheduling*. Texas Viticulture Short Course. Jan. 19, 2006. Junction, TX.

*Monitoring Fruit Maturity*. Texas Viticulture Short Course. January 19, 2006. Junction, TX.

*Powdery Mildew and Bunch Rot Diseases*. Texas Viticulture Short Course. January 20, 2006. Junction, TX.

*Anthrachnose, Crown Gall, and Eutypa*. Texas Viticulture Short Course. January 20, 2006. Junction, TX.

*Nematodes and Phylloxera*. Texas Viticulture Short Course. January 20, 2006. Junction, TX.

*Insect and Mite Pests*. Texas Viticulture Short Course. Jan. 20, 2006. Junction, TX.

*Developing a Pest Management Program*. Texas Viticulture Short Course. January 20, 2006. Junction, TX.

*Viticulture Potential for the South Plains*. Floydada Lion's Club Meeting. August 18, 2005. Floydada, TX.

*Practical Irrigation Scheduling*. Viticulture Field Day. Aug.10, 2005. Canutillo, TX.

*Determining Optimal Harvest Time*. Viticulture Field Day. Aug 10, 2005. Canutillo, TX.

*Grape Nutrition Monitoring and Fertilization*. Viticulture Field Day. August 10, 2005. Canutillo, TX.

*Grape Disease and Pest Management.* East Texas Winegrape Field Day. June 13, 2005. Palestine, TX.

*Vineyard Management Practices for East Texas.* East Texas Winegrape Field Day. June 13, 2005. Palestine, TX.

*Irrigation Scheduling.* Hill Country Grape Field Day. June 10, 2005. Spicewood, TX.

*Vineyard Establishment.* Wine Grapes for South Texas Field Day. June 8, 2005. Monte Alto, TX.

*Grape Disease and Pest Management.* North Texas Grape Field Day. May 19, 2005. McKinney, TX.

*Vineyard Management Practices for North Texas.* North Texas Grape Field Day. May 19, 2005. McKinney, TX.

*Irrigation Scheduling.* Newsom Vineyard Field Day. April 22, 2005. Plains, TX.

*Research on Delaying Budburst of Grapevines.* Newsom Vineyard Field Day. April 22, 2005. Plains, TX.

*Irrigation Scheduling.* Gulf Coast Grape Growers Field Day. February 24, 2005. Cat Spring.

*Grape Production in East Texas.* East Texas Fruit & Vegetable Conference. February 15, 2005. Tyler, TX.

*Building a Geographic Information System for the Study of Pierce's Disease in Texas.* February 1, 2005. Texas Pierce's Disease Research Conference. Stonewall, TX.

*Effective Management of Bunch Rot.* Haak Winery Growers Meeting. January 15, 2005. Santa Fe, TX.

*Grapevine Anatomy and the Cycle of Vine Growth.* Texas Viticulture Short Course. January 12, 2005. Junction, TX.

*Grapevine Physiology.* Texas Viticulture Short Course. Jan. 12, 2005. Junction, TX.

*Grape Variety Selection.* Texas Viticulture Short Course. Jan. 12, 2005. Junction, TX.

*Spacing and Trellis Considerations.* Texas Viticulture Short Course. January 12, 2005. Junction, TX.

*Crop Assessment and Thinning.* Texas Viticulture Short Course. January 13, 2005. Junction, TX.

*Pruning.* Texas Viticulture Short Course. January 13, 2005. Junction, TX.

*Irrigation Scheduling.* Texas Viticulture Short Course. January 14, 2005. Junction, TX.

*Monitoring Fruit Maturity.* TX Viticulture Short Course. Jan 14, 2005. Junction, TX.

*Powdery Mildew and Bunch Rot Diseases.* Texas Viticulture Short Course. January 14, 2005. Junction, TX.

*Phomopsis, Anthracnose, Crown Gall, and Eutypa.* Texas Viticulture Short Course. January 14, 2005. Junction, TX.

*Nematodes and Phylloxera.* Texas Viticulture Short Course. January 14, 2005. Junction, TX.

*Insect and Mite Pests.* Texas Viticulture Short Course. January 14, 2005. Junction, TX.

*Developing a Pest Management Program.* Texas Viticulture Short Course. January 14, 2005. Junction, TX.

Optimal Water Use for Optimal Grape Production. Texas Wine and Grape Growers Association Annual Grape Camp. November 12, 2004. Junction, TX.

*Growing Grapes in Arid and Semi-Arid Climates.* Trans Pecos Grape Field Day. September 8, 2004. Chamberino, New Mexico.

*Canopy Management and Powdery Mildew Control.* Trans Pecos Grape Field Day. September 8, 2004. Chamberino, New Mexico.

*Growing Grapes in the Home Garden.* Lubbock Master Gardeners. July 6, 2004. Lubbock, TX.

*Powdery Mildew Management on the High Plains.* Newsom Vineyard Field Day. April 23, 2004. Plains, TX.

*Update on Bunch Rot Control.* Gulf Coast Grape Growers Meeting. February 12, 2004. Cat Spring, TX.

*Building a Geographic Information System for the Study of Pierce's Disease in Texas.* 2004 Texas Pierce's Disease Research Conference. Jan 13, 2004. Stonewall, TX.

*Grape Management Practices.* North Texas Grape Field Day, July, 2003. Valley View, TX.

*Irrigation Scheduling with Evapotranspiration.* Grape Irrigation Workshop. July, 2003. Plains, TX.

*Irrigation Scheduling Tools.* Hill Country Grape Field Day. June, 2003. Stonewall, TX.  
*Frost Damage to Grapes.* Newsom Vineyard Field Day. March, 2003. Plains, TX.

*Bunch Rot Management.* Gulf Coast Grape Growers Meeting. February, 2003. Cat Spring, TX.

*How Grapevines Work.* TWGGA Harvest Festival. October, 2002. Dallas, TX.

*Methods of Irrigation Scheduling.* TWGGA Harvest Festival. Oct., 2002. Dallas, TX

*Use of Soil and Tissue Analysis.* TWGGA Harvest Festival. October, 2002. Dallas, TX.

*Diagnosing Vineyard Problems.* TWGGA Harvest Festival. October, 2002. Dallas, TX.

*Canopy Management.* TWGGA Harvest Festival. October, 2002. Dallas, TX.

*Fruit Maturity Monitoring.* TWGGA Harvest Festival. October, 2002. Dallas, TX.

*Irrigation Scheduling.* Newsom Vineyard Field Day. March, 2002. Plains, TX.

*Monitoring Grapevine Nutrition.* TWGGA Grape Camp. February, 2002. Junction, TX.

*Soil and Tissue Analysis for Nutrition Management.* Second Horticultural Food Crops Symposium. October, 2002. College Station, TX.

*Viticulture Research Update.* TWGGA Region 3 meeting. March, 2002. Brenham, TX.

*Canopy Management and Crop Control.* Horticultural Food Crops Symposium. October, 2001. College Station, TX.

*Deficit Irrigation Strategies.* Newsom Vineyard Field Day. March, 2001. Plains, TX.

*Canopy Management.* Hill Country Grape Field Day. June, 2001. Willow City, TX.

*Balancing Yield and Quality.* TWGGA Harvest Festival. October, 2001. Dallas, TX.

*Effective Use of Fungicide Application Equipment.* TWGGA Harvest Festival. October, 2001. Dallas, TX.

*Effect of Irrigation and Soil Management Strategy on Grapevine Petiole Nutrient Content.* Oregon Wine Advisory Board Annual Grape Day. 2000.

*Pesticide Update.* Meeting of the Oregon Blueberry Growers Association. Aurora, Oregon. 1999.

*Blueberry Pruning Severity Research.* Blueberry/Caneberry Field Day. Oregon State University. Aurora, Oregon. 1999.

*Evaluation of Nitrogen Deficiencies in Oregon Grapevines, Musts and Wines.* Oregon Wine Advisory Board Annual Grape Day. 1999.

*Pruning Severity Research in blueberries.* Blueberry/Caneberry Field Day. Aurora, Oregon. 1998.

*The Effect of Pruning on Yield Components and Economics of Blueberry Production.* Annual Meeting of the Northwest Center for Small Fruits Research. 1998.

*Update on phylloxera in Oregon vineyards.* 112<sup>th</sup> Annual Meeting of the Oregon Horticultural Society. 1998.

*Pruning Severity Research in blueberries.* Blueberry Field Day. Aurora, Oregon. 1997.

*Use of Gibberellic acid to improve blueberry fruit set.* Blueberry/Caneberry Field Day. NWREC. Aurora, Oregon. 1997.

*Update on the Northwest Berry & Grape InfoNet.* OSU Winegrape Research Day. Corvallis, Oregon. 1997.

*Continued Development and Maintenance of the Northwest Berry & Grape InfoNet.* Oregon Raspberry & Blackberry Commission Progress Reports. Mt. Angel, OR 1997.

*Blueberry Disease Management.* Meeting of the Oregon Blueberry Growers Association. Aurora, Oregon. 1997.

*Continued Development and Maintenance of the Northwest Berry & Grape InfoNet.* Oregon Strawberry Commission Progress Reports. Wilsonville, Oregon. 1997.

*Accessing Viticulture and Enology information with the Northwest Berry & Grape InfoNet.* OSU Winegrape Research Day, Corvallis, Oregon. 1996.

*Blueberry Pollination and Fruit Set,* Meeting of the Oregon Blueberry Growers Association. Aurora, Oregon. 1996

*The Northwest Berry and Grape InfoNet.* 1996. Meeting of the Oregon Blueberry Growers Association. Aurora, Oregon. 1996

*Pruning Blueberries.* Meeting of Oregon Blueberry Growers Assoc. Aurora, OR. 1996

*Development of the Northwest Berry & Grape InfoNet,* Horticulture Department. Seminar, Oregon State University, Corvallis, Oregon. 1996.

*Pruning severity research in blueberries,* Blueberry Field Day. Aurora, Oregon. 1996.

*Introduction to the Internet and the World Wide Web workshop.* 1996. Seven workshops at different locations. 1996.

*Surfing the Internet with the Berry InfoNet.* Oregon Horticultural Society Annual Meeting. Portland, OR. 1996.

*The effect of pruning on yield components and economics of blueberry production.* Annual Meeting of the Northwest Center for Small Fruits Research. 1996.

*Introducing the Northwest Berry & Grape InfoNet web page.* Annual meeting of the Northwest Center for Small Fruit Research. Corvallis, Oregon. 1995.

*Calibrating boom sprayers.* Strawberry Field Day. Aurora, Oregon. 1995.

*Application equipment maintenance and calibration.* Grapevine Powdery Mildew Workshop. Corvallis, Oregon. 1995.

*Balanced pruning of grapevines.* Grapevine pruning workshop. Corvallis, OR. 1995.

## TEACHING

### Undergraduate and Graduate Courses

#### Texas Tech University

Number	Title of Course	Credits	Spring /Summer	Fall	Students
PSS 1311	Science of Wine	3	-	2021	53
PSS 3312	Sustain. Fruit & Nut	3	2021		36
PSS 1311	Science of Wine	3	-	2020	55
PSS 4310	Viticulture II	3	2020		13
PSS 3312	Sustain. Fruit & Nut	3	2020		28
PSS 4001	Spain Study Abroad	3	2019		9

PSS 4310	Viticulture II	3	2019		15
PSS 3312	Sustain. Fruit & Nut	3	2019		21
PSS 4310	Viticulture II	3	2018		14
PSS 3312	Sustain. Fruit & Nut	3	2018		21
PSS 4310/5312	Viticulture II	3	2017		16
PSS 4310/5312	Viticulture II	3	2016	-	12
PSS 1311	Science of Wine	3	-	2015	43
PSS 4310/5312	Viticulture II	3	2015	-	14
PSS 1311	Science of Wine	3	-	2014	66
PSS 4310	Viticulture II	3	2014	-	7
PSS 4001/5001	Vineyard Practices	3	2013	-	8
PSS 4310/5312	Viticulture II	3	2013	-	14
PSS 4310/5312	Viticulture II	3	2012	-	21
PSS 4310/5312	Viticulture II	3	2011	-	10

Kansas State University

Number	Title of Course	Credits	Fall	Spring	Avg. # Students
HORT 520	Fruit Production	3	1985-93	-	28
HORT 682	Pesticide Technology	3	-	1985-88	34
HORT 153	Home Horticulture	2	-	1989-94	55

**Undergraduate Advising**

Undergraduate Advisees:

2021 12  
2020 19  
2019 12  
2018 5  
2017 1

Viticulture & Enology Internship Coordinator, Texas Tech, 2013-present  
Faculty sponsor, Raiders Uncorked (student club), Texas Tech, 2016-2017

**Graduate Student Advising**

Chair or Co-Chair

Maureen Qualia Ph.D., (In progress), Texas Tech University  
Sherah Mills M.S., Horticulture, 2018, Texas Tech University  
Brent Pape M.S., Agricultural Education, 2016, Texas Tech University  
Elvis Takow Ph.D., Ecosystem Sci. & Mgt., 2016, Texas A&M University  
Cassandra Plank Ph.D., Plant & Soil Science, 2014, Texas Tech University

Michael Krawitzky	M.S., Horticulture, 2009, Texas Tech University
Ashley Basinger	M.S., Horticulture, 2004, Texas Tech University
Jean Travis	M.S., Horticulture, 1989, Kansas State University
Ping Huang	M.S., Horticulture, 1988, Kansas State University
Gary Yocum	M.S., Horticulture, 1987, Kansas State University

**Committee Member**

Sarah Timmons	M.A., Interdisciplinary Studies, 2021, Texas Tech University
Kenneth Ruland	M.S., (In progress), Texas Tech University
Matthias Bougreau	Ph.D., Food Science, 2018, Texas Tech University
Emily Graff	M.S., Plant & Soil Science, 2017, Texas Tech University
Mariah Deardorff	M.S., Interdisciplinary Studies, 2016, Texas Tech University
Christi Townsend	Ph.D., Geography, 2012, Texas State University
Yanmei Zhang	M.S., Plant & Soil Science, 2012, Texas Tech Univ.
Daniel Pate	M.S., Agric. & Applied Econ., 2011, Texas Tech Univ.
Elvis Takow	M.S., Rangeland Ecology & Mgt., 2008, Texas A&M
Mandi Vest	M.S., Plant Pathology, 2004, Texas A&M University
Leslie Viguers	M.S., Entomology, 2000 Oregon State University
Tyrone Hall	M.S., Plant Pathology, 1999, Oregon State University
Braja Datta	M.S., Horticulture 1996, Oregon State University
Tonye Numbere	Ph.D., Horticulture 1990, Kansas State University

**Outreach and Engagement Programs**

**Texas Viticulture Certificate Program** (17 CEU credits) 2007-present.

Certificates have been awarded to 210 students through 2020, many of whom have established new commercial vineyards and wineries in Texas or are employed in the Texas wine industry. Instructor: Kirk Williams

**Texas Winemaking Certificate Program** (18 CEU credits) 2014-present.

Certificates have been awarded to 70 students through 2020. This Program is designed for wine industry entrepreneurs, winemakers, cellar workers, and prospective winery employees seeking comprehensive knowledge of the principles of enology and commercial wine production practices. Instructor: Maureen Qualia

Texas Viticulture Short Course 2007, 10 lectures, 75 students

Texas Viticulture Short Course 2006, 12 lectures, 55 students

Texas Viticulture Short Course 2005, 12 lectures, 60 students

**PROFESSIONAL SERVICE AND ACTIVITIES**

**American Society for Enology and Viticulture**

Scholarship Committee – ASEV Eastern Section, 2015



Chair, Irrigation and Water Use Symposium Organizing Committee, 2014  
Winemaking for Challenging Environments Symposium Organizing Committee, 2014  
Technical Program Committee, 2011-2013  
Session Moderator, ASEV Annual Conference, 2013  
Technical Projects Committee, 2003-2009  
Program Committee, ASEV Annual Conference, 2006  
Student Poster Session Co-chair, 2006  
Student Poster Awards Committee, 2006  
Program Committee, ASEV Annual Conference, 2005  
Session Moderator, ASEV Annual Conference, 2005  
Secretary, ASEV–Northwest Chapter, 1999-2000  
Manuscript reviewer for American Journal of Enology and Viticulture; Catalyst

#### American Society for Horticultural Science

Outstanding Extension Educator Award Selection Committee, 2020-2022  
Chair, Outstanding Researcher Award Selection Committee, 2008  
Outstanding Researcher Award Selection Committee, 2006-2007  
Local Arrangements Committee for ASHS Annual Conference, 2004  
Tour leader, ASHS Annual Conference, 2004  
Chair, Viticulture & Small Fruits Working Group, 1988-89  
Chair-elect, Viticulture & Small Fruits Working Group, 1987-88  
Fruit Publications Award Committee, 1988  
Outstanding Horticulture Students Recognition Committee, 1988  
Manuscript reviewer: Journal of ASHS, HortScience, HortTechnology

#### American Pomological Society

Treasurer, 2017-2021  
Advisory Committee, 2015-2017  
Wilder Medal Committee, 2008-2010  
Manuscript reviewer: Journal American Pomological Society, Fruit Varieties Journal

#### **Other Professional Leadership**

##### National Viticulture & Enology Extension Leadership Group

Co-Chair 2019 annual conference  
Chair; 2007 annual conference, 2008 annual conference  
Hosted and Chaired first annual conference, 2006  
Manager, National Viticulture Extension listserv, 2006-2016

##### eXtension: Grape Community of Practice

Co-PI for SCRI grant (\$422,964 ) to develop the Grape Community of Practice  
Leadership Team, 2010-2013  
Chair, Ask-an-Expert Committee, 2010-2013

NE-1020: Multi-state Evaluation of Winegrape Cultivars and Clones

Chair and annual meeting host, 2007-2008

Vice-Chair, NE1020, 2006-2007

Secretary, NE1020, 2005-2006

Western group proposal lead PI - preparation and submission, 2009

Manager, NE-1020 listserv, 2007-2012

SERA-014: Development and Evaluation of Bunch and Muscadine Grapes

Chair 2003-2004

Host, annual meeting, 2004

Project Webmaster, 2003-2011

**Other Professional Service**

Organizing Committee, National Viticulture Research Conference, 2007, 2008

Guidance Committee, Viticulture Consortium – West, 2006-2009

Moderator, 2008 National Viticulture Research Conference

Co-chair, Winegrape Session, Oregon Horticultural Society, 1995-2000,

Viticulture & Enology Program Advisory Committee, Chemeketa C.C., 1998-2000

**International Activities**

Study Abroad Course Instructor - Wine Production and Culture in Spain. May 2019.

Invited Speaker, University of Talca. January 12-16, 2015. Talca, Chile.

Presenter, 18<sup>th</sup> International Symposium GiESCO. July 7-11, 2013. Porto, Portugal.

Speaker, IX International Terroir Congress. June 25-29, 2012. Dijon/Reims, France.

Speaker, VIII International Terroir Congress. June 14-18, 2010. Soave, Italy.

Invited Speaker, 105th Annual Meeting of the Cordilleran Section, Geological Society of America. Kelowna, B.C., Canada, May 7-9, 2009.

Consultant, Zaragoza Vineyards, San Miguel de Allende, Mexico. 2004-2006.

**Manuscript Reviews**

American Journal of Enology and Viticulture

Journal American Society for Horticultural Science

HortScience

HortTechnology

Catalyst: Discovery into Practice

Journal American Pomological Society

Fruit Varieties Journal

Advances in Strawberry Production

International Journal of Horticultural Science and Technology

Small Fruits Review

Environmental Modeling & Software

Journal of Plant Growth Regulation  
Journal of Maps  
Wine Business Journal  
Agronomy Journal

### **Book Manuscript Reviews**

*Wines of Oregon*. L. Hall. 2014. University of California Press

*Wine Grape Production Guide for Eastern North America*. A. Wolf, 2008. Natural Resource, Agriculture, and Engineering Service.

*At Home in the Vineyard*. S. Sokol-Blosser, 2006, University of California Press.

### **Book - Consulting Editor**

Ohmart, C.P. 2011. *View from the Vineyard: A Practical Guide to Sustainable Winegrape Growing*. Consulting Editors: T.E. Martinson, K. Striegler, M.L. Chien, and E.W. Hellman. Wine Appreciation Guild. San Francisco, California.

### **Research Proposal Reviews**

Partner University Fund, FACE Foundation, 2015

USDA-ARS National Program 305: Crop Production Panel, 2013

Unity through Knowledge Fund, Croatia, 2013

University of California ANR Competitive Grants Program, 2012

Ontario Research Fund - Research Excellence program; 2009, 2010

Missouri Grape and Wine Board, 2006-2008

Proposal Review Panel, Viticulture Consortium – West, 2005

Viticulture Consortium – East, 2004-2009

USDA Tropical and Subtropical Agricultural Research Program, 1999

US-Israel Bi-national Agricultural Research & Development program, 1990, 1991

### **Faculty Promotion and Tenure External Reviews**

Cornell University

Ohio State University

University of Florida

University of California-Davis

Washington State University

Oregon State University

Pennsylvania State University

Texas A&M University

Mississippi State University

University of Houston-Downtown  
Agricultural Research Organization, The Volcani Center, Bet Dagan, Israel  
Kuwait Institute for Scientific Research

### **University and Department Committees**

#### Texas Tech

Department of Economics Graduate Program Review Committee, 2020-21  
Chair, Enology and Brewing Science Lecturer Search Committee, 2019-20  
Chair, Small Farms Certificate Senior Teacher Search Committee, 2019-20  
Chair, Enology Instructor Search Committee, 2013  
Enology Faculty Mentoring Committee, 2008-2013  
Strategic Planning Committee, Dept. Plant & Soil Science, 2008  
Search Committee, Enology Faculty, Plant & Soil Science, 2006-2007  
Viticulture and Enology Curriculum Committee, 2007  
Department Website Committee, Plant & Soil Science, 2006-2007  
Recruitment and Retention Committee, Plant & Soil Science, 2005-2007

#### Texas A&M

Search Committee, Extension Enology Specialist, 2016  
Faculty Promotion and Tenure Mentoring Committee, 2016  
Search Committee, Extension Program Specialists (3 FTE), 2015  
Search Committee, Webmaster – Aggie Horticulture, 2014  
Search Committee, Viticulture Extension Specialist, 2013  
Horticultural Sciences Tenure and Promotion Committee, 2007-2017  
Search Committee, Enology Faculty, Nutrition & Food Science, 2006-2007  
Technology Committee, Lubbock Ag. Research & Extension Center, 2004-2006  
Web Committee, Lubbock Ag. Research & Extension Center, 2001-2003  
Pierce's Disease Task Force, 2001-2004

#### Oregon State University

College of Agricultural Sciences Web Planning Committee 1999-2000  
Awards Committee, Oregon State Extension Association, 1999-2000  
Search Committee for Extension Internet Educator, 1997  
Co-coordinator, Berry and Grape Extension Working Group, 1996-2000  
InterACTION: The Oregon Initiative for 21st Century Food Systems  
Education, 1994-1995  
Extension Annual Conference Committee, 1996  
Phylloxera Task Force, 1995

#### Kansas State University

College of Agriculture Academic Standards Committee  
Agricultural Product Development and Utilization Task Force

Faculty Development Committee  
Coordinator, Horticulture Research Farm  
Horticulture Department Undergraduate Course and Curriculum Committee  
Chair, Horticulture Department Facilities and Space Committee  
Graduate Committee, Horticulture Department  
Cultivar Release Committee, Horticulture Department  
Faculty Search Committees (3)  
Advisor, Undergraduate Horticulture Club, 1995-1996

## **SERVICE TO INDUSTRY**

### National Grape Research Alliance

Board of Directors, 2004-2021  
Chair, Extension and Outreach Committee; 2004-2009; 2012-2013  
Extension and Outreach Committee, 2004-present  
Research Committee, 2012-2013  
Executive Committee, 2007-2009  
Governance Committee, 2004-2005

### Texas Wine and Grape Growers Association

Strategic Planning Committee, 2021  
Education and Research Committee, 2008-2018  
2,4-D Committee, 2010-2011; 2015-present  
Board of Directors, 2003-2005

### Other Industry Service

Board of Directors, Texas Center for Wine and Culinary Arts, 2018-present.  
Strategic Planning Committee, Texas Center for Wine and Culinary Arts, 2018.  
Texas Wine Industry Development Program Advisory Committee, Texas Department  
of Agriculture, 2005-2009  
Wine Grape Investment Grant Program, Texas Dept. of Agriculture, 2008, 2010  
Board of Directors, Kansas Grape Growers and Winemakers Association, 1991-1994  
Board of Directors, Kansas Fruit Growers Association, 1989-1991

## **PUBLIC SERVICE**

Lubbock Uncorked Planning Committee, Lubbock Chamber of Commerce, 2016  
Troop Committee, Boy Scout Troop 536, Lubbock, TX, 2002-2005  
Newsletter Editor, Boy Scout Troop 536, Lubbock, TX, 2002-2004  
Boy Scout Troop 485, Silverton, OR, 2000  
Cub Scout Pack 113, Silverton, OR 1994-2000