

**Year-end Report
Virginia Wine Board, August 8, 2013**

Title: Enology Specialist

Principal Investigator:

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Type of Project: Extension

Amount funded: \$96,206

Objectives:

1. To support the technical growth and development of Virginia's wine industry through the expansion of educational extension programs and applied enological research.
2. To provide written and oral educational resources to existing and potential wine industry practitioners.
3. To provide an educational bridge between vineyard practices that directly impact wine quality potential, and the wine production practices that maximize that potential.

Progress:

With the continued growth of the Virginia winegrape industry, an Enology Extension specialist is needed to provide increased educational resources in the form of extension programs and field technical support provided by Virginia Cooperative Extension. This effort has been led by Dr. Bruce Zoecklein for the past twenty-five years. Bruce retired officially as of June 2013. Therefore, hiring of an Enology Extension Specialist is the first of a two-positions to be filled to provide educational, research and instructional support to the expanding Virginia wine and grape industry. This project provides salary and fringe benefits, travel and material support for Molly Kelly, at Virginia Tech's Food Science Department in Blacksburg. Molly Kelly was hired as Enology Extension Specialist in December 2012 and completed her PhD degree in Food Science at Virginia Tech in May 2013.

Molly Kelly conducted the following activities over the 2013 fiscal year as part of her 100% time commitment to enology extension activities:

- Conducted 28 on-site-winery visits for introduction, tour facility, advise clients on variety selection, evaluate processing difficulties and technical assistance concerning wine quality, etc.
- Approximately 13 telephone conversations with winemakers concerning winemaking questions/issues, establishing new wineries.
- Approximately 50 email conversations with winemakers concerning winemaking questions/issues, establishing new wineries.
- Organized and hosted three winery sanitation workshops for 45 winemakers/owners. May 30 Mt. Vale, June 19th Naked Mountain, July 30th Potomac Point, August 14th Blue Ridge.
- Conducted survey of VA wineries to determine enology issues and needs (63 responses).
- Participated in winemaker's roundtable with Bruce Zoecklein February 12 at King Family winery. Approximately 15 attendees.
- Participated and presented at Wineries Unlimited conference. Richmond, VA. March 12-14. Microbiology for the small winery; Pre-bottling quality control. Led small break-out session for 8 winemakers (3 from VA).
- Participated and presented at Midwest Grape and Wine conference. St. Charles, MO. Feb 7-9. Microbiology for the small winery. Led small break-out session for 6 winemakers (2 from VA).
- Participated and presented at Virginia Vineyard Association Annual meeting. Feb 1-2. Charlottesville, VA. Petit Manseng aroma and flavor profiling.
- Wrote an article for Enology notes list-serve on Microbial ecology during vinification. June 2013.
- Presented at NC cooperative extension in Boone, NC. Cold climate grape varieties and challenges in winemaking. June 17.
- Participated and presented at American Society of Enology and Viticulture Eastern Section Annual meeting. Winston-Salem, NC. Effect of foliar nitrogen and sulfur applications on aroma profile of *Vitis vinifera* Petit Manseng using modified quantitative descriptive analysis. July 15-18.
- Participated in Eastern Grapes SCRI meeting July 19th. Winston Salem, NC to get updated on funded projects and become involved in applied research projects.
- Participated in Planning for Harvest workshop at King Family vineyard. July 25th. Presented by Enartis Vinquiry.
- Participated in the strategic planning session "Beyond 2015 - A Blueprint for Virginia Wine" Richmond, July 10, 2013. Hosted by The Virginia Wine Board, in partnership with the Virginia Vineyards Association, Virginia Wineries Association, and the Virginia Wine Council. The session provided an opportunity for Virginia wine industry leaders to review, evaluate, and revise the Virginia wine industry strategic plan.

Travel expenses totaled \$2,137.13.

Supplies and materials (\$3,873.93)/Miscellaneous Contractual Services (\$3,129.97) purchased with project funds included workshop supplies: winery environmental sampling supplies (distributed at workshops), berry sensory analysis workbooks, wine aroma wheels, wine defect wheels etc.

Summary: Objectives listed above were achieved as proposed. The Virginia Wine Board has enabled Virginia Tech to provide greater educational resources and support to Virginia wineries by hiring an Enology Extension specialist and funding travel and material costs. The enhanced technical support of wine producers funded by this grant will assist Virginia winemakers in making the most appropriate winery decisions affecting wine production and wine quality.

Travel dates, location and nature of visit by Molly Kelly

Date	Point of travel	Nature of visit
2/12	King Family, Charlottesville	participate in winemaker's roundtable
2/7-2/9	St. Charles, MO	Midwest Grape and Wine conference/presenter
3/12-3/14	Richmond	Wineries Unlimited meeting/presenter
5/20	Belliveau, Blacksburg	Introduction, tour facility, varietals, assess needs
5/20	Attimo, Christiansburg	Introduction, tour facility, assess needs
5/21	West wind, Max Meadows	Introduction, tour facility, assess needs
5/22	Chateau Morrisette, Floyd	Introduction, tour facility, assess needs
5/24	Stanburn, Stuart	Introduction, tour facility, assess needs
5/25	Blacksnake, Dugspur	Introduction, tour facility, assess needs

5/28	Davis valley, Rural Retreat	Introduction, tour facility, assess needs
5/29	Abington, Abington	Introduction, tour facility, assess needs
5/29	Mountain Rose, Wise	Introduction, tour facility, assess needs
5/29	Vincent's, Lebanon	Introduction, tour facility, assess needs
5/29	Rappahannock, Huntly	Introduction, tour facility, assess needs
5/30	Mt. Vale, Galax	winery sanitation workshop
5/30	Mt. Vale, Galax	Introduction, tour facility, assess needs
6/19	Naked Mountain, Markham	winery sanitation workshop
6/19	Naked Mountain, Markham	Introduction, tour facility, assess needs
6/4	Richmond	VWB meeting
6/4	Cooper, Louisa	Introduction, tour facility, assess needs
7/10	Richmond	Beyond 2015-a Blueprint for VA wine strategic planning session
7/15-7/18	Winston-Salem, NC	ASEV Eastern Section annual meeting/presenter
7/19	Winston-Salem, NC	Eastern Grapes SCRI meeting
7/25	King Family, Charlottesville	Planning for harvest workshop
7/29	Early Mountain, Madison	Introduction, tour facility, assess needs
7/30	Potomac Point, Stafford	winery sanitation workshop
7/30	Potomac Point, Stafford	Introduction, tour facility, assess needs
7/31	Oak Crest, King George	Introduction, tour facility, assess needs
7/31	Ingleside, Oak Grove	Introduction, tour facility, assess needs, laboratory training

8/1	Hague, Hague	Introduction, tour facility, assess needs
8/1	Vault Field, Kinsale	Introduction, tour facility, assess needs
8/1	General's ridge, Hague	Introduction, tour facility, assess needs
8/1	Belle Mount, Warsaw	Introduction, tour facility, assess needs
8/2	Athena, Heathsville	Introduction, tour facility, assess needs
8/2	Good Luck, Kilmarnock	Introduction, tour facility, assess needs
8/2	Dog and Oyster, Irvington	Introduction, tour facility, assess needs
8/3	Jacey, Wicomico Church	Introduction, tour facility, assess needs