

Program Coordinator Report

OWRI asked the OSU Extension and Experiment Station Communications Service to produce short videos of our research and extension faculty so stakeholders and partners can see who we are and what we do. Research can have more impact when a face is attached to a project or paper, it becomes more personal and accessible. We also hope to enhance the understanding of the research process and what our scientists do in the field, labs and cellars. Of course, what is on display here is only the tip of the iceberg of a faculty member's overall research program, but it is representative of the way each person strives to serve the wine industry. In upcoming issues of *Vine to Wine* we will spotlight individual OWRI faculty. This month we focus on Dr. Bob Martin (see Faculty Focus). We hope you will enjoy these, and feel free to contact each scientist if you have questions or want to learn more. You can find more information about each person on his or her webpage under the [About us](#) tab on the OWRI website and in our stakeholder report. Get to know us, then visit us at Grape Day on April 3. We would like to thank Kym Pokorny, Stephen Ward, and Gail Wells for their incredible work in producing these video, and our faculty for agreeing to be "on camera."

Click [HERE](#) to watch the research and extension videos.

Do not forget to register for **GRAPE DAY** (see information below)!

Mark L. Chien



Faculty Focus

Dr. Bob Martin, a USDA-ARS research plant pathologist (virology) and an OWRI core faculty member, studies grapevine red blotch and other viruses in Oregon. He's helping fill in the knowledge gaps about red blotch in order to help growers develop a virus management plan. Click [HERE](#) for his video.

Viticulture and Physiology Research

Guidelines for assessing vine water status in Western Oregon

Tissue water potential from leaves and petioles, and stomatal conductance can be used to measure vine water status. This information can be collected in a variety of ways using different tools, and can be valuable for irrigation management. This article explores the different methods and devices, and their pros and cons so users can get the most accurate real-time assessment of vine water status. Click [HERE](#) to read more...

Pinot noir crop load project update for the 2018 season

Dr. Patty Skinkis, Viticulture Extension Specialist and Associate Professor at Oregon State University, leads a large industry-collaborative research project to study yield management

through cluster thinning. Click [HERE](#) to read more about the 2018 season results.

Sustainable biochar-based practices in vineyards

Pesticide residues in soil, and potentially in food products, is a concern to growers and consumers alike. Biochar, a charcoal-based product used as a soil amendment, has the potential to adsorb herbicides and improve soil microbial diversity, a win-win situation for growers. Trials in the Willamette Valley and Southern Oregon will test the value of biochar in Oregon vineyards. Click [HERE](#) to read more...

2019 Grape Day Registration Closing Soon

April 3, 2019 | 8:30 AM - 3:00 PM
LaSells Stewart Center, OSU Campus, Corvallis, OR

Topics to be covered include:

- The value of cooperative pest and disease management programs.
- Intelligent spray system explained and results discussed from the first year of trials.
- Role of bio-polymers such as polysaccharides to improve the understanding of non-volatile sensory active compounds and help control wine quality.
- Contribution of rootstock/scion combinations to confer excessive vigor to grapevines supplied with high levels of Nitrogen in Pinot noir.
- Smoke composition, timing of exposure and prospects for mitigation.
- Overview of the Grapevine red blotch research that is being done in Oregon on the virus, vectors, managing the impact of the virus on fruit development and quality, and managing the impact on fruit quality in the winery.

Registration: \$150 and includes lunch, research abstract booklet, and refreshments. Full program and speaker information can be found [here](#). **Registration closes Friday, March 22, 2019.** [Register to attend](#).

For more information, contact Denise Dewey at (541) 737-3620 or denise.dewey@oregonstate.edu

SURVEY! Oregon Growers: we need your input on fungicide resistance!

The [FRAME Network](#), a national research and extension team working on fungicide resistance in grape powdery mildew, is interested in hearing about how you approach powdery mildew management and fungicide selection. If you are a vineyard owner, manager, consultant, or someone who provides fungicide recommendations for vineyards in the United States, please take our survey [here](#)!

Last Chance to Join the OSU Statewide Crop Load Project!

This long-term, collaborative research project will enlist new vineyard and winery partners for the project this spring 2019 for the final three seasons. This project quantifies how yield (by way of cluster thinning) affects vine health, fruit composition, and wine sensory perception. The more diverse sites we have, the better it is to understand impacts. If you are interested in scientifically evaluating different crop levels in your Chardonnay or Pinot noir vineyard, please fill out an [application form](#) by April 30, 2019. If you have questions about the project, contact Dr. Patty Skinkis, OSU Viticulture Extension Specialist (patricia.skinkis@oregonstate.edu).

Education Offering

OSU Viticulture Extension - Vineyard Management Online Class, Spring 2019

Looking for an opportunity to increase your viticulture and winegrape production knowledge? This online, non-credit course begins on **April 2nd**, and is being taught by Dr. Patty Skinkis, OSU Viticulture Extension Specialist. The course covers key concepts in vineyard management and focuses on the importance of making informed management decisions in the vineyard by understanding impacts on grapevine physiology and economics. This is a great course for current industry professionals or those interested in entering the industry. Registration is required, and space is limited. Learn more about the class [here](#).

OWRI Enology Seminar on April 16

Using select wine microorganisms as bio-protectants against microbial spoilage during winemaking

Many microbial species are present during the winemaking process. While some contribute positively to wine quality, growth of others can result in spoilage. Sulfur dioxide (SO₂) is commonly used to prevent microbial spoilage but the use of this preservative during winemaking is being reduced and alternative microbial control strategies are being explored. One such strategy is the use of beneficial microbial cultures as bio-protectants. Our laboratory has two ongoing research projects in this area. One project is investigating the use of select non-*Saccharomyces* yeast to reduce growth of the spoilage yeast *Hanseniaspora uvarum* during cold soaking. A second project focuses on how malolactic fermentation conducted by the bacteria *Oenococcus oeni* can inhibit *Brettanomyces bruxellensis* growth and volatile phenol production. Results from these studies will be discussed as well as ongoing research.

Dr. James Osborne, OSU statewide extension enologist, will offer an enology seminar on Tuesday, April 16 at 3:00 PM in [Kidder 202](#) on the OSU campus in Corvallis, and as a live webinar. Stay tuned for connection information.

Extension Resources:

2019 Pest Management Guide for Wine Grapes now available!

This is the Oregon grape grower's go-to guide for updated information about timing pest management strategies in the vineyard. You can find fungicide efficacy information (pages 35-36) and much, much more for managing weeds, insects, and diseases. Click [HERE](#) to go to guide.

Grapevine Trunk Diseases in Oregon

A [summary of the trunk disease](#) status in Oregon vineyards is provided with information about prevention and management.

Prevent Herbicide Drift

The OSU Extension publication [Are Your Weed-control Products Damaging Nearby Vineyards?](#) was developed to help the public understand the damaging effects that common herbicides can have on grapevines. Share this document with your neighbors to help reduce herbicide drift damage to grapevines. Grapevines are most sensitive to certain herbicides in early spring through bloom (mid-June).

Upcoming Events

Chemeketa Wine Studies Experimental Wine Tasting | March 20, NW Wine Studies Center, Salem, OR

OSU Principles of Vineyard Management Course | April 2, online and Corvallis, OR (see above)

OWRI Grape Day | April 3, OSU LaSells Stewart Center, Corvallis, OR (see above)

LIVE Annual Meeting | April 17, Chehalem Cultural Center, Newberg, OR

OSU Spring Vineyard Mechanization Workshop | May 17, 1-4 PM, Central Point, OR. Program includes under-vine cultivation research and equipment demonstration, weed management, intelligent sprayer demonstration.

ASEV National Conference | June 17 - 20, Napa, CA

11th International Workshop on Grapevine Trunk Diseases | July 7-11, Penticton, BC, Canada

OSU Summer Vineyard Mechanization Workshop | July 11, Willamette Valley (site TBD)

Have a particular topic or question you would like to see addressed in the *Vine to Wine*? Please [contact us](#).

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