

# David Roy Hirzel

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## EDUCATION:

M.S. in *Agricultural and Environmental Chemistry*, June 2016  
University of California, Davis, CA 95616

“Impact of winery wastewater irrigation on soil, grape nutrition, and wine quality”

M.S. in *Viticulture and Enology*, July 2008  
University of California, Davis, CA 95616

“Development of a fluidized bed for crystallizing potassium bitartrate from wine”

B.S. in *Chemical Engineering*, 1989  
Washington State University, Pullman, WA 99164

## EXPERIENCE:

Assistant Winemaker (Aug. 2007 to 2012)

Turner Road Vintners, Lodi, CA

- Receive and crush both white and red grapes, clarify and inoculate juice, oversee fermentations, adjust nutrient levels, and filter the wine.
- Work with the analytical lab to review data to maintain wine health.
- Ensure finished product meets the customer’s safety and QA requirements.

Instructor (Fall 2008)

Sierra College Agriculture Dept. Rocklin, CA

“Introduction to Winemaking” (AG132) was intended for both hobbyists and cellar workers. Three hour lecture plus three hour lab sessions per week.

Crush Intern (07/06 to 12/06)

U.C. Davis Experimental Winery, Davis, CA

- Make research wines, track inventory, perform cellar maintenance and sanitation.
- Laboratory technician processing pH, TA, total and free sulfite, and more.

Process Engineer (2001 to 2004)

Bechtel National Inc., Richland, WA

Process Engineer (1997 to 2001)

Environmental Engineer (1989 to 1997)

Fluor Hanford Company, Richland, WA

Publications, Presentations, and Professional Memberships

Member of the American Society of Enology and Viticulture (ASEV) since 2005.

“Development of a Fluidized Bed for Crystallizing Potassium Bitartrate from Wine”,  
Hirzel, D. R. and R. B. Boulton., Am. J. Enol. Vitic. 2008 59:330A-351A  
(Presented at ASEV 2008 Annual Meeting, Portland OR)

“Impact of winery wastewater irrigation on soil, grape nutrition, and wine quality”,  
Hirzel, D. R., R. J. Stahel, K. Steenwerth, S. J. Parikh, & A. Oberholster.  
(Presented at ASEV 2015 Annual Meeting, Portland OR)

Teaching Assistant Experience

Fall 2006	VEN 124 Wine Production	TA	UC Davis
Spring 2007	VEN 135 Winery Systems	TA	UC Davis
Fall 2008	AGC132 Intro to Winemaking	Instructor	Sierra College
Fall 2012	VEN 124 Wine Production	TA	UC Davis
Winter 2013	VEN 128 Wine Microbiology	TA	UC Davis
Fall 2013	VEN 123 Wine Analysis	TA	UC Davis
Fall 2014	VEN 123 Wine Analysis	TA	UC Davis