



Stephen Sinclair Scott in Viticulture and Enology

Dr. Roger Boulton, Professor

Viticulture and Enology

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SAVE THE DATE

College Celebration

Friday
OCTOBER
2
2015

5:30-8:30 p.m.

Pavilion UC Davis

More details to follow soon. We hope you will be able to join us.

ENDOWMENT PURPOSE

The Stephen Sinclair Scott Endowed Chair in Enology was originally set up in 1984 by the Scott family and Scott Laboratories, Inc. as a research endowment in Stephen's memory. In 1998, a subsequent gift from Robert S. Scott (Stephen's father) and Scott Laboratories, Inc. was made to the campus and the fund was amended to become an endowed chair in the department of Viticulture and Enology. Income from the Scott endowment is to be made available to the chair holder in support of his teaching and research efforts.

RESEARCH

My two research themes at present are 1) the development of advanced sensors and sensor systems for wineries and 2) the mechanism and modeling of wine oxidation. We have developed and tested a flow through cells that can measure the total phenol concentration and the color extraction patterns in red wines using light emitting diodes. We are developing an assay for the measurement of hydrogen peroxide that is a key intermediate in wine oxidation. The equipment and supplies of both of these projects have been funded from the endowment.

TEACHING

A new graduate course, "Advanced Fermentation Data Analysis" was offered in Fall using real-time fermentation data and the PI software that is installed in the Winery. The senior Wine Stability (VEN 126 and 126L) course with 2 labs and the senior Separations and Unit Operations (ECH 158B) in Chemical Engineering during the Winter quarter and the graduate Winery Design course (VEN 235) in Spring.

STUDENTS

Nicolas Shrake (MS student in Electrical and Computer Engineering) worked on the Total Phenol and Color sensor for his thesis research.

Robert Coleman (PhD student in Agricultural Chemistry) is currently working on the peroxide assay and the oxidation mechanism project.

OUTREACH

A range of industry presentations from the Annual Meeting of the American Society for Viticulture and Enology to the Recent Advances in Viticulture and Enology (RAVE). International presentations describing the sensor project have been made in Japan and Australia in the last year.

NEW AND UNIQUE ENDOWMENT USE

These projects would not have been funded by industry organizations and without the endowment I would not have initiated either of them. The paper describing the sensor project was awarded the Outstanding paper in Enology for 2014 in the American Journal for Enology and Viticulture.

LEVERAGING ADDITIONAL FUNDING

The endowment funds have complimented student support from other groups such as a T J Rodgers Fellowship for Nick Shrake and financial support for Robert Coleman from Treasury Wine Estates and the Wine Spectator Scholarship fund.

THANKS

I greatly appreciate the opportunities that are developed by this endowment. We have been able to attempt and complete projects that would not be funded from industry organizations.