

A viticulture seminar honoring the retirement of David Smart: from root biology to carbon sequestration

When: Tuesday, December 3, 2019, 9:00 am until approx 5:00 pm

Where: UC Davis Activities and Recreation Center Ballroom, 760 Orchard Road, Davis, CA 95616

- 8:30-9:00 am Registration and Coffee
- 9:00-9:10 am **Welcome** - David Block, Professor and Chair, Department of Viticulture and Enology, UC Davis.
- 9:10-9:25 am **Tales from a Lab Manager and the Smart Lab Legacy**, Christine Armstrong (Stockert), Staff Researcher, Plant Sciences, UC Davis.
- 9:25-9:45 am **Continuing Dave Smart's work through application of his findings**, Kaan Kurtural, UC Cooperative Extension Specialist, Viticulture, Department of Viticulture and Enology, UC Davis.
- 9:45-10:15 am **Remote sensing-based irrigation management in grapevines: translating scientific advances to everyday decisions**, Maria del Mar Alsina Martí, Research Scientist, E&J Gallo Winery.
- 10:15-10:50 am **Unexpected relationships: photosynthesis, metals, climate change, and food security**, Arnold Bloom, Distinguished Professor, John B. Orr Endowed Professor, Plant Sciences, UC Davis.
- 10:50-11:10 am Break
- 11:10-11:45 am **Managing Crop Nitrogen in California**, Patrick Brown, Professor, Department of Plant Sciences, UC Davis.
- 11:45-12:20 pm **Factors affecting N₂O emission under fertigation**, Michael Wolff, Sr. Environmental Scientist, Office of Environmental Farming and Innovation, California Department of Food and Agriculture.
- 12:20-1:20 pm LUNCH
- 1:20-1:50 pm **The contribution of grapevine roots, trunks and cordons to vineyard carbon sequestration**, Larry Williams, Emeritus Professor, Department of Viticulture and Enology, UC Davis.
- 1:50-2:25 pm **NASA regenerative life support: plant growth in high CO₂ with a shallow root-zone**, Bruce Bugbee, Professor, Environmental Plant Physiology, Department of Plants, Soils, and Climate, Utah State University.
- 2:25-3:00 pm **Beyond the grape: adventures in vinecology with DR Smart**, Joshua Viers, Director of the Center for Information Technology Research in the Interest of Society (UC Merced) and Professor, UC Merced School of Engineering.
- 3:00-3:35 pm **The physiological ecology of grape roots**, David Eissenstat, Interim Head and Professor, Department of Ecosystem Science and Management, Penn State University.
- 3:35-3:45 pm **Closing Remarks**, Maria Truco
- 4:00-5:00 pm Reception