



Nelson J. Shaulis  
Symposium



AMERICAN SOCIETY FOR  
ENOLOGY AND VITICULTURE  
Eastern Section

## Digital Viticulture: New Tools for Precision Management Speakers

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Hobart and William Smith Colleges  
Geneva, NY



**Terry Bates** joined the Horticulture Department at Cornell in January 1998, conducting research on plant nutrition and root biology in Concord grapevines at the Fredonia Vineyard Laboratory. In 2009, Terry became director of the newly-constructed [Cornell Lake Erie Research and Extension Laboratory](#) (CLEREL). Since 2015, Terry has been the Director of the USDA Specialty Crop Initiative Research Program-funded [Efficient Vineyard](#) project.



**Nick Dokoozlian** is the Vice President of Viticulture, Chemistry and Enology at E&J Gallo Winery in Modesto, CA. Prior to joining E&J Gallo, Dokoozlian was a member of the Department of Viticulture and Enology at the University of California, Davis, where his research focused on the effects of cultural practices and environmental factors on grape and wine composition. Dr. Dokoozlian received his PhD in Plant Physiology from the University of California, Davis.



**Jackie Dresser** has served as research technician with the [Efficient Vineyard](#) project since July 2016, first with the Spatial Data Technology Group based at Newcastle University in the United Kingdom and most recently with Terry Bates, project leader at Cornell's Lake Erie Research and Extension Laboratory (CLEREL) in Portland, NY.



**Katie Gold** is a PhD candidate in Plant Pathology and MS candidate in Biometry at the University of Wisconsin-Madison. Katie's research combines precision agriculture, remote sensing, data science, and fundamental plant pathology to develop innovative disease detection and management tools that support the profitability and sustainability of stakeholders. She will be joining the Cornell Agritech Faculty as [assistant professor for grapevine disease ecology and epidemiology](#) in February 2020.



**Richard Hoff**, Director of Viticulture, Mercer Ranches, Prosser, WA is a native of Wisconsin and U.S. Navy veteran. He received his bachelor's degree in horticulture from the University of Wisconsin - River Falls and his master's degree in horticulture from Washington State University. Since then, he has worked as a viticulturist for Ste Michelle Wine Estates and is currently the director of viticulture for [Mercer Ranches](#).



**George Kantor** is a researcher and educator at the [Robotics Institute at Carnegie Mellon University](#). His technical interests lie in position estimation and mapping for mobile robots, control of robotic systems with nontrivial dynamics, and wireless networks for distributed sensing and control. His work translates ideas related to these technical interests into rugged systems that reliably solve real-world problems, especially in the application areas of agriculture and mining.



**Alan Lakso** is a fruit crop physiologist with expertise in the physiology and management of apple and grape growth and development, environmental responses, and the integration with cultural practices. He collaborated with Dr. Abraham Stroock in developing a microtensiometer that offers continual measurement of vine water status, which has been licensed and commercialized.



**Jim Meyers** has been working with wine grapes for 10 years, first as a Viticulture Ph.D. student at Cornell then as a research associate. He is currently Area Extension Viticulture specialist with the Eastern NY Commercial Horticulture Program. His viticultural research has focused on using computational tools for mapping canopy and vineyard variability, quantifying relationships between variability and fruit chemistry, and optimizing efficiency of vineyard operations.



**Andy Reynolds** is Professor of Viticulture at Brock Universities Cool Climate Oenology and Viticulture Institute (CCOVI). His research areas include viticultural practices and their influences upon wine and juice quality, characterization of impact of terroir on the sensory properties of Niagara wines and impact of irrigation and vine water status. Andy was a student of Nelson Shaulis.



**James Taylor**, with IRSTEA, Univ. Montpellier, France, received his Bachelor of Science in Agriculture at The University of Sydney and then completed a PhD in Precision Viticulture in 2004. James' expertise is in spatial agricultural data analysis and interpretation. James has held precision viticulture research positions in both the France and the USA. In all cases, James' research is strongly aligned with end-user requirements and ensuring that Agri-tech is accessible and informative to agronomists and producers.



As an Associate Professor in the Horticulture Section at Cornell University, [Justine Vanden Heuvel](#) is actively involved in both research and teaching. Her research focuses on optimizing flavors and aromas in wine grapes, and improving both the environmental and economic sustainability of wine grape production systems in cool climates. She teaches several undergraduate courses in Viticulture.



[Hakim Weatherspoon](#) is an associate professor in the Department of Computer Science at Cornell University. His research interests cover various aspects of fault-tolerance, reliability, security, and performance of large Internet-scale systems such as cloud computing and distributed systems. He is Associate Director of the [Cornell Initiative for Digital Agriculture](#).