



## Thelma Hansen Symposium to Explore the Future of Water in Agriculture

Webinar Series Presented by The Hansen Agricultural Research & Extension Center

### Agenda

Each webinar will open to participants 5 minutes before 4:00 PM.

#### Tuesday, May 23: Water Availability

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- 4:00 PM **Welcome**—Annemiek Schilder, PhD, Director UCCE/HAREC Ventura County
- 4:05 **Opening remarks**—Kelly Long, Supervisor Ventura County District 3
- 4:15 **Long-term forecasting of trends in California water management**—Erik Porse, PhD, Director, UC ANR, California Institute for Water Resources
- 4:50 **Groundwater level changes and water well drilling along California's Central Coast and around the globe**—Scott Jasechko, PhD, Bren School of Environmental Science & Management, UC Santa Barbara
- 5:30 **Closing**—Annemiek Schilder

#### Wednesday, May 24: Water Quality

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- 4:00 PM **Welcome**—Annemiek Schilder, Director UCCE/HAREC Ventura County
- 4:05 **Focus on regional water quality**—Norma Camacho, Chair, Los Angeles Regional Water Quality Control Board
- 4:20 **Nitrate, pesticides, and sustainable groundwater quality management in agricultural landscapes**—Thomas Harter, PhD, Department of Land, Air and Water Resources, UC Davis
- 5:05 **New regulations affect water quality management in Ventura County**—Jodi Switzer, Ventura County Agricultural Irrigated Lands Group
- 5:30 **Closing**—Annemiek Schilder

#### Thursday, May 25: Water Economics

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- 4:00 PM **Welcome**—Annemiek Schilder, Director UCCE/HAREC, Ventura County
- 4:05 **Economics of water in California agriculture**—Richard Howitt, PhD, Emeritus Professor, Center for Watershed Sciences, UC Davis
- 4:50 **Water Markets: the importance of good design**—Matthew Fienup, PhD, Executive Director, Center for Economic Research & Forecasting, California Lutheran University
- 5:30 **Closing**—Annemiek Schilder



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## Speakers

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Kelly Long is Ventura County Supervisor for District 3 and Vice Chair of the Board of Supervisors. She was first elected to the Ventura County Board of Supervisors in 2016 and re-elected in 2020. She has a BS degree in Mechanical Engineering from the University of California, Long Beach. She serves as chair of the board of directors of the Fillmore Piru Basin Groundwater Sustainability Agency (FPBGSA). In that capacity, she led a group of farmers, environmentalists, and water professionals to complete the final version of their Groundwater Sustainability Plan which will help preserve the Santa Clara River Watershed Basin. She currently also serves on the board of directors of the Fox Canyon Groundwater Management Agency (FCGMA).

**Erik Porse** is the Director of the California Institute for Water Resources. He has a PhD in Civil and Environmental Engineering from UC Davis and a Master of Public Policy degree from George Mason University. Most recently, Erik was a research engineer with the Office of Water Programs at California State University, Sacramento and an assistant adjunct professor with UCLA's Institute of the Environment and Sustainability. His professional experience includes international work and teaching in Mexico, Europe, Japan and East Africa. In California, he has contributed to state and regional studies for safe drinking water, efficient urban water use, sustainable groundwater management, water reuse, beneficial uses of stormwater, and environmental finance.



**Scott Jasechko** is an Associate Professor of Water Resources with the Bren School of Environmental Science & Management at UC Santa Barbara. He has an MS from the University of Waterloo, PhD from The University of New Mexico, and was on the faculty at the University of Calgary before joining UCSB in Nov 2017. Scott's research uses large datasets to understand how we can preserve the quality and quantity of river water and groundwater resources around the globe. Scott's work has been recognized by the Horton Hydrology Research Award from the American Geophysical Union (2013), the Young Scientist Award from the Canadian Geophysical Union (2016), and the Kohout Early Career Award from the Geological Society of America (2018).



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**Norma Camacho** is the Chair of the Los Angeles Regional Water Quality Control Board. She is also a member of the Stillwater Sciences Board of Directors. Stillwater Sciences uses scientifically based and cost-effective approaches to solve complex natural resources challenges and restore ecosystems. She is the former Chief Executive Officer of Valley Water, which provides safe, clean water for Silicon Valley. Prior to that she held several positions at the Ventura County Public Works Agency. She holds a BS degree in Civil Engineering from Stanford University. Her passion is developing creative and collaborative solutions withing watersheds to benefit the environment and communities.

**Thomas Harter** is the Nora S. Gustavsson Endowed Professor of Water Resources in the Dept. of Land, Air, and Water Resources at UC Davis. He has a BS and MS in Hydrology from the Universities of Freiburg and Stuttgart, Germany, and a PhD in Hydrology from the University of Arizona. His research and extension program focuses on groundwater and agriculture, such as nonpoint-source pollution of groundwater, sustainable groundwater management, groundwater resources evaluation under uncertainty, groundwater-surface water interaction, and contaminant transport. His research helps decision- and policy makers effectively address sustainable groundwater management and water quality issues in agricultural regions.



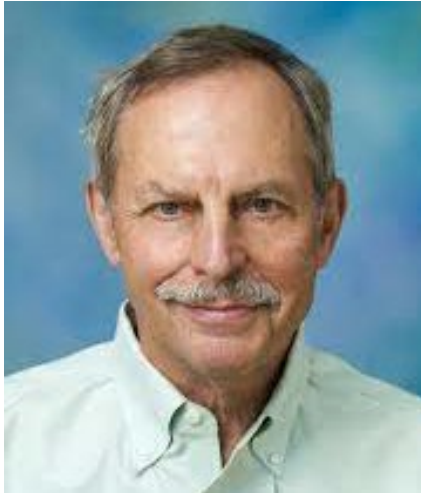
**Jodi Switzer** is the Water Program Director for the Farm Bureau of Ventura County. Her primary role is as manager of the Ventura County Agricultural Irrigated Lands Group (VCAILG), where she leads a 3rd party coalition aimed at helping agricultural landowners and growers comply with water quality regulations. With over 13 years of experience in water resource regulatory compliance, she previously served as the Environmental Compliance Manager at her alma mater, the University of California, Santa Barbara. There, she managed all air and water environmental regulatory programs for the campus. Prior to that she worked at an environmental consultancy firm assisting a variety of clients with environmental regulatory compliance needs.



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**Richard Howitt** is professor emeritus of Agricultural and Resource Economics at the University of California, Davis. He has a PhD in Economics from the University of California, Davis. He has published widely on agricultural and environmental resource allocation issues, with special emphasis on agricultural land use, water markets and the application of optimization models to resource allocation questions. He is a member of the Western Agricultural Economics Association, Watershed Center's Delta Solutions Group, and is currently engaged in an analysis of land use patterns in the Delta. His research interests include building computer models of how land and water are used, and their calibration to G.I.S-based data sets.

**Matthew Fienup** is Executive Director of the Center for Economic Research & Forecasting at California Lutheran University and Associate Professor of Economics. He earned his PhD from the Bren School of Environmental Science & Management at UC Santa Barbara. Matthew is an applied economist who specializes in econometrics, economic policy analysis, land use, and environmental markets. He was integral to the design and implementation of the Fox Canyon Water Market, the first groundwater market to be implemented in California under SGMA. Matthew has served as Exchange Administrator for the Fox Canyon market for five years and is now involved in the design of groundwater markets for three GSAs in the Central Valley.



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