



"The Voice of Water Quality in the Arid West"

WESTCAS 2019 Annual Conference

June 26-28, 2019 - San Diego, CA

Speaker Biographies

Leander DL Anderegg, Ph.D.

Dr. Leander DL Anderegg is an NSF Biological Collections and NOAA Climate and Global Change postdoctoral fellow at UC Berkeley, and the Carnegie Institution for Science. He received his BA from Stanford University in 2011 and his PhD from the University of Washington in 2017. Leander uses plant physiology to understand how warming temperatures and changing precipitation influence forests, with a goal of guiding forest management to foster ecosystem resilience in a changing world. Leander uses measurements ranging from plant tissue physiology to forest inventories to satellite images to study how forests respond to climate. He has developed field sites across the U.S. and Australia, but as a native Coloradan his heart lies in the arid Southwest.

Christine Arbogast, Principal, Kogovsek & Associates, Inc.

Christine Arbogast is a native Coloradan, born in Pueblo and a graduate of Southern Colorado State College, now Colorado State University at Pueblo. She earned a Bachelor of Arts degree with majors in both journalism and political science.

That educational focus has carried forward in Christine's professional life. Following graduation, she was a reporter and editor in Canon City, Colorado, and then a news and feature writer for the Durango Herald in the southwestern corner of the state. It was there that her interest in Native American issues and water resources began, and she was fortunate to be able to transfer that interest to a new career path in politics and government.

Christine began work with Congressman Ray Kogovsek in 1979, when he was elected to represent Colorado's sprawling Third District, which included nearly half of the state and reflected its diverse interests. She served as his press secretary and concentrated on legislative issues including Native American affairs, water, agriculture and local government.

She remained in Washington until July of 1984 and returned to Colorado to work as a special projects administrator for the Colorado Commissioner of Agriculture at the time the department was establishing its Always Buy Colorado program, now known as Colorado Proud.

In 1985, Christine returned to work for Ray Kogovsek, who had chosen not to run for re-election to Congress. Since then, the small firm has worked primarily in the Western states on resource and tribal issues as well as local government concerns, capital construction projects and public land use.

Christine serves on the board of directors of the Colorado Water Congress and serves on the policy/advocacy and federal affairs committees. She also is Vice President and Chair of the Federal Affairs Committee of the National Water Resources Association and has twice received the President's Award. In 2016, the NWRA gave Christine the John F. Sullivan/G. Thomas Choules Award for one "whose service, promoting the regulatory/legislative/judicial agenda of the Association, was above and beyond that expected of a member of the leadership." This award has only been bestowed to five NWRA members. Christine is also a member of the Colorado River Water Users' Association. She resides in Centennial, Colorado.

Thomas G. Farr, Ph.D., Jet Propulsion Laboratory, California Institute of Technology

Tom Farr received BS and MS degrees from Caltech, and a PhD from the University of Washington, all in Geology. After a short time as an engineering geologist, he joined the Radar Sciences Group at the Jet Propulsion Laboratory, where he has been since 1975. At JPL he helped develop the first geologic applications of imaging radar using aircraft, satellites, and the Space Shuttle. He was the Deputy Project Scientist on the Shuttle Radar Topography Mission in 2000 as well as the lead air-to-ground payload communicator. He has been a science investigator on European and Japanese satellite programs and has studied the geology of Mars, Venus, and recently Saturn's moon Titan.

His current projects include piecing together the history of water in the Sahara and monitoring of subsidence in the Central Valley of California with orbital radar. He has participated in or led geological expeditions to Tibet, northwestern China, the Egyptian Sahara, and American deserts, including geology training of Shuttle astronauts.

Peggy W. Glass, Ph.D., Principal, Alan Plummer Associates, Inc.

Peggy graduated from the University of Texas at Austin with a Ph.D. in Chemistry and an emphasis in Analytical Chemistry. Her first job was to manage a laboratory doing water-related analyses for an engineering firm. The firm had projects in the areas of water treatment, wastewater treatment, and water quality management studies of surface waters. This was her introduction to the world of water. She found it a fascinating subject—and still does.

Over her lengthy career, she has been functions in many capacities. She has worked for engineering firms both large (CH2M Hill, now part of Jacobs) and small (Alan Plummer Associates, Inc.) Although Alan Plummer Associates, Inc., is now a highly respected firm with close to 150 employees and eight offices, it had one office with less than 20 employees when she first went to work there). She had her own firm Glass Environmental Consultants, Inc., for seven years. Also, she worked for six years for the Texas state agency responsible for water quality standards, water quality management plans, TPDES permits, and other environmental programs related to water. She has served in a wide range of technical and management capacities, including Chair of the Board of Directors of Alan Plummer Associates, Inc., for five years.

Peggy is active in several technical societies including, of course, WESTCAS; the National Association of Clean Water Agencies and its Texas affiliate; the Water Environment Federation and its Texas affiliate, and the Texas Water Conservation Association, an affiliate of the National Water Resources Association, where she served in several offices, including as President.

Shawn D. Hagerty, Esq., Best, Best and Krieger

Shawn Hagerty is an attorney with Best, Best, and Krieger in San Diego, California. Mr. Hagerty provides both advisory and litigation services on both surface and groundwater water quality issues under federal and state law. He regularly advises clients regarding the obtaining of and compliance with NPDES permits and represents clients in administrative actions regarding such permits. Mr. Hagerty's clients include municipalities, special districts and private clients. His work includes municipal storm water permits, permits for publicly owned treatment works and construction related permits. It also includes advising water suppliers on issues related to water quality, endangered species and other water supply constraints. A particular focus of Mr. Hagerty's practice is the relationship between water quality, water supply and land use planning.

Sandra Kerl, Acting General Manager, San Diego County Water Authority

Sandra Kerl is Acting General Manager at the San Diego County Water Authority. Kerl joined the Water Authority as its Deputy General Manager in November 2009. Kerl has over 25 years of progressively responsible experience in all aspects of municipal management. She served as City Manager of La Mesa, California, and has broad experience with city management, extensive knowledge of organizational issues, and a pragmatic understanding of capital project management and delivery.

Throughout the professional career she has been active in the International County Management Association, and she has served as Chair of the San Diego City/County Managers Association and the San Diego Training Center. Kerl received her Bachelor of Political Science from California Polytechnic State University at San Luis Obispo and her Master of Business Administrative from the University of Redlands.

Ted Kowalski, Senior Program Officer, Colorado River Initiative Lead, Walton Family Foundation

Ted is a senior program officer, leading the Walton Family Foundation's Colorado River initiative. In this role, Ted supports work that promotes sustainable management of the Colorado River in order to benefit rivers and communities.

Prior to joining the foundation, Ted was the Chief of the Interstate, Federal and Water Information Section, for the Colorado Water Conservation Board. In this role, Ted represented the State of Colorado in State, Federal, inter-State, and international negotiations.

Ted is recognized for his deep expertise in Colorado River water management issues. He has testified before the U.S. Congress and before the Colorado General Assembly, and he has spoken at dozens of conferences. He started his career in the Colorado Attorney General's office working on water law issues. Ted has a law degree from the University of Colorado and an undergraduate degree from Cornell University.

Mehdi Nemati, Ph.D., Cooperative Extension Specialist, Professor in Water Resource Economics and Policy, University of California, Riverside

Mehdi Nemati is a Cooperative Extension (CE) specialist and professor in Water Resource Economics and Policy in the School of Public Policy at the University of California, Riverside. Dr. Nemati's role is to provide leadership throughout the state and the western US to develop mission-oriented research programs among colleagues and universities. He facilitates teamwork among government agencies, stakeholder groups, and private industry with a focus on promoting sustainable and cost-effective strategies for addressing water-related issues, such as water scarcity/drought. His policy-oriented research and extension program focuses on economic issues associated with urban/municipal water use, water conservation programs, water pricing and affordability, behavioral economics applications in water management, direct and indirect potable water reuse, design of enforcement and monitoring strategies, and incentives for the adoption of conservation practices and technologies. His forthcoming book chapter studies "Water Markets in the Western United States: Trends and Opportunities." His papers have appeared in a wide range of peer-reviewed publications, including the Plos one, ARE Update, and the Journal of Agricultural and Resource Economics.

David Pilz, Director, AMP Insights

David is a Director at AMP Insights, a consulting firm working with clients on some of the most vexing water and natural resources management issues in unique and creative ways. David grew up working on a cattle ranch in Northern Colorado and has fifteen years of experience in water rights transactions, water transaction program development and management, and water law and policy issues throughout the western U.S. At AMP, David has worked on economic and law and policy analyses of demand management in the Upper Colorado River Basin as well as specific transaction support work for water transactions on the Crystal River.

Additional engagements include developing a water bank in the Hood River Basin in Oregon, developing a voluntary groundwater mitigation program in the Verde River in Arizona and an agricultural water bank in the Snoqualmie Valley in Washington. Also, in Arizona, David is working with the AMP team to develop strategies for Central Arizona to adapt to Colorado River water shortages through increased flexibility via create water market strategies.

At the same time, David is working with The Nature Conservancy's Colorado River Program on developing and refining water transaction efforts and with the Washington Water Trust to design a groundwater mitigation program for the Skagit River Basin. David has also been involved in a range of other AMP projects including work to support the Colorado River Delta Water Trust in Mexico and an effort to investigate and develop a comprehensive water banking and brokerage framework in Oregon's Umatilla River Basin.

David is a member of the Oregon State Bar and lives in Bend, Oregon with his family.

Erika K. Powers, Esq., Partner, Barnes & Thornburg LLP

Erika Powers, a Partner in the Chicago office of Barnes & Thornburg LLP, chairs the firm's national Environmental Department. Ms. Powers represents clients across the country in a wide range of Clean Water Act matters and specializes in negotiating win-win solutions to wet weather enforcement cases brought by U.S. EPA, the Department of Justice, and state regulatory agencies against municipal and other public wastewater utilities across the country.

She graduated *cum laude* from the University of Michigan Law School and received her B.A. from Alma College *summa cum laude*. She has been recognized in *Best Lawyers in America* for environmental law. In addition, Erika serves on the Board of Trustees of Alma College, where she chairs the Academic Affairs Committee.

Phil Rosentrater, General Manager, Salton Sea Authority

Phil Rosentrater serves as the General Manager/Executive Director for the Salton Sea Authority. The Salton Sea Authority (SSA) is a Joint Powers Authority created in 1993 to oversee the revitalization of California's largest inland Sea. The SSA is comprised of two counties, two large water agencies and a tribal sovereign nation: Riverside and Imperial Counties, Imperial Irrigation District, Coachella Valley Water District and Torres Martinez Tribe.

Before assuming the GM responsibilities at SSA, Phil split his time with other duties at Riverside County Economic Development Agency in addition to providing advocacy support for SSA. Phil also provided direction for EDA Divisions of Aviation (five regional airports), Office of Foreign Trade, Energy Division (Water and Power), Economic Development, Office of Film & Television, Business Solutions, and EDA Marketing.

Phil's primary charge is now intensely focused on revitalizing the Salton Sea before massive water transfers deliver a series of environmental and economic shock waves to this region.

Phil currently serves on the Board of Directors for Cal Desal and on the Energy Committee for Association of California Water Agencies (ACWA). He also serves on the ACWA Region 9 Board of Directors, representing Imperial, San Bernardino and Riverside Counties. Phil also serves on the state legislative committee for ACWA.

Currently, Phil serves as Co-Chair on the International Boundary & Water Commission's Colorado River Citizen's Forum.

Previously, Phil has served on the state legislative committees for the Groundwater Resources Association (GRA), ACWA, California Special Districts Association (CSDA), and California Association of Sanitation Agencies (CASA). In addition, Phil earned a reputation as an effective defender of ratepayers and taxpayers in his service on the Legislative Task Force for the Southern California Water Committee. Phil serves on the Colorado River Task force for the SCWC. He is one of the founders of the California Groundwater Coalition (CGC) and served on its legislative committee plus the Association of Ground Water Agencies (AGWA). As Chairman of the ACWA Outreach Committee for three years, Phil was responsible for building strong interagency alliances needed to deal with the most serious challenges facing water communities across California.

James Salzman, MSc, J.D., Professor of Environmental Law, UCLA School of Law

James Salzman is the Donald Bren Distinguished Professor of Environmental Law with joint appointments at the UCLA School of Law and at the Bren School of the Environment at UC Santa Barbara. He formerly held joint appointments at Duke University as the Samuel F. Mordecai Professor of Law and Nicholas Institute Professor of Environmental Policy. In nine books and more than ninety articles and book chapters, his broad-ranging scholarship has addressed topics spanning drinking water, trade and environment conflicts, policy instrument design, and the legal and institutional issues in creating markets for ecosystem services. A 2012 study by Phillips and Yoo ranked him as the fifth most cited environmental law professor in the field. There have been over 100,000 downloads of his articles.

A dedicated classroom teacher and colleague, Salzman was twice selected as Professor of the Year by Duke students. He frequently appears as a media commentator and has lectured on environmental policy on every continent except Antarctica. He has served as a visiting law professor at Columbia, Harvard, Stanford, and Yale as well as at universities in Australia, China, Israel, Italy, Portugal, and Sweden.

An honors graduate of Yale College and Harvard University, Salzman was the first Harvard graduate to earn joint degrees in law and engineering and was named a Sheldon Fellow upon graduation. He has both government and private sector work experience. Prior to entering academia, he worked in Paris in the Environment Directorate of the Organization for Economic Cooperation and Development (OECD) and in London as the European Environmental Manager for Johnson Wax. His honors include election as a Fellow of the Royal Geographical Society, as well as appointments as a McMaster Fellow and Fulbright Senior Scholar in Australia, a Gilbert White Fellow at Resources for the Future, and a Bellagio Fellow at the Rockefeller Foundation, among others.

He has published five casebooks, including *International Environmental Law and Policy* (with D. Zaelke and D. Hunter, 5th ed. 2015), the leading casebook in the field with adoptions at over 200 schools. His articles have appeared in the *UCLA*, *California*, *NYU*, *Penn*, *Duke* and *Stanford Law Reviews*, as well as other legal, scientific and popular journals. A national survey of environmental law professors has voted his work among the top articles of the year on seven separate occasions. Salzman has been active in the fields of practice and policy, serving as a Member of the Trade and Environment Policy Advisory Committee and the National Drinking Water Advisory Committees, government-appointed bodies providing high-level counsel to the EPA Administrator, as well as advising several environmental non-profits.

His most recent book, *Drinking Water: A History*, was praised as a "Recommended Read" by *Scientific American* and reviewed in the *New York Times* and *Washington Post*. It is now in paperback in its second edition.

Abby Schneider, Ph.D., Senior Federal Relations Representative, ACWA

Abby is the Senior Federal Legislative Representative for the Association of California Water Agencies and is based in Washington, DC. She regularly meets with congressional offices and federal agencies to advocate for ACWA. Her work focuses on a variety of issues including infrastructure funding, the Safe Drinking Water Act, Clean Water Act, energy/water nexus, and invasive species.

Before joining ACWA in 2005, she was a science fellow in Senator Dianne Feinstein's office where she was first introduced to California water issues. She has also worked as a fellow for the Ocean Studies Board of the National Research Council.

Abby received her PhD in environmental chemistry from the University of Maryland. Her research focused on contaminant/sediment interactions and she spent lots of time on the Hudson River. Abby received her BS degree in environmental engineering from MIT.

Jack Simes, Lower Colorado Acting Area Manager, U. S. Bureau of Reclamation

Jack Simes is the Acting Area Manager for the Bureau of Reclamation's Southern California Area Office located in Temecula, California. That office has program responsibility in nine southern California counties for implementing water reclamation and reuse projects under the Title XVI authority, conducting water and related resources planning, water conservation field services, and Native American Affairs.

Jack earned a Bachelor of Science degree from the School of Public Health at the University of Maryland, College Park where he served as Co-Captain of the Varsity Fencing Team. He also earned graduate degrees from the University of Baltimore and Troy State University and completed Georgetown University's legislative studies certificate program. He's married to the former Karen Campbell of Bristol, Tennessee, and they have a son, Brandon who lives in Prescott, Arizona with his wife, Trina, and their two beautiful children, Scarlett, age 8, and Rhett, age 5.

Derral Van Winkle, Environmental Restoration Manager, NAVFAC Naval Facilities Engineering Command

Derral Van Winkle has more than 30 years of experience planning and conducting environmental investigations at hazardous waste sites under CERCLA and SARA, RCRA, and several different state regulatory systems, including extensive experience with local and state regulatory agencies in California.

Current responsibilities include managing NAVFAC Southwest's Environmental Restoration Program, a \$55M per year program which conducts cleanup of Navy chemical and munitions sites throughout the southwestern United States. Position requires setting cleanup priorities, implementing technology and administrative requirements and guidelines, planning and programming funding, regulatory interaction and negotiation, and acquisition planning.

Responsibilities at BC included: planning, proposing, and implementing hydrogeological, geochemical, and geophysical investigations for Site Investigations, Remedial Investigations, RCRA Facility Investigations, and Site Characterizations. In addition, I also mining and construction materials business areas through assisting clients with environmental problems, reclamation planning, mine planning, water resource evaluations, and resource assessments.

Derral's project experience includes collection and interpretation of subsurface geology and hydrogeology information, contaminant transport and fate, aquifer testing data, geophysical data, and report preparation.

Specialties: Fate and transport of chemicals; background analysis of trace metals; hydrogeology.