

WATER TECHNOLOGY & THE CALIFORNIA DROUGHT

Speaker, Moderator, and Facilitator Biographies

Teveia Barnes, Executive Director, California Infrastructure and Economic Development Bank

Teveia Barnes was appointed by Governor Brown as Executive Director of the California Infrastructure and Economic Development Bank (IBank) on July 12, 2013. IBank's mission is to finance infrastructure, economic expansion, clean energy and water projects and to promote small business in California through the Small Business Finance Center. IBank's statutory powers include the authority to issue bonds, make loans and provide financing and credit enhancements for a variety of infrastructure, clean energy, water and economic expansion projects to state and local governments, municipalities, universities, schools and hospitals. Prior to joining IBank, Ms. Barnes was commissioner of the California Department of Financial Institutions, the chief state regulator of depository financial institutions responsible for the licensing, examination and supervision of banks, credit unions, savings associations, trust companies, foreign banking organizations, industrial development companies and money transmitters. Barnes was a partner at the law firm of Foley and Lardner LLP. Barnes worked at the Bank of America NT&SA as associate general counsel and senior vice president.

Chuck Bonham, Director, California Department of Fish and Wildlife

Charlton "Chuck" Bonham was appointed as Director of the California Department of Fish and Wildlife, effective September 6, 2011. Prior to his appointment as Director of Fish and Wildlife, Mr. Bonham served in a number of roles for Trout Unlimited over ten years, including since 2004 as the organization's California director. Mr. Bonham was responsible for developing, managing, and implementing TU's programs in California. These programs include the California Water Project, Sportsmen's Conservation Project, and restoration and watershed projects in both northern and Southern California. In addition, Mr. Bonham was a senior attorney for the organization. Mr. Bonham also served on the Board of Directors of the Delta Conservancy, whose mission is to conserve, sustain and enhance the cultural, agricultural, recreational, wildlife and natural habitat resources of the River Delta region, as well as develop and promote sustainable protection, management and stewardship programs through research and education. Mr. Bonham received his J.D. and Environmental and Natural Resources Law Certificate from the Northwestern School of Law of Lewis and Clark College, in Portland, Oregon. Before Trout Unlimited, he was a Peace Corps volunteer in Senegal, West Africa, and an instructor and guide at the Nantahala Outdoor Center, in Bryson City, N.C.

Scott Bryan, Chief Operating Officer, Imagine H2O

Scott manages core programming and partnerships at Imagine H2O, a nonprofit organization that inspires and empowers people to turn water challenges into opportunities. The organization's global competition and accelerator program identifies and supports promising water entrepreneurs by connecting them to a network of investors and customers. The participating startups collectively represent 1 in every 10 dollars of early-stage financing in the water sector. Prior to joining Imagine H2O, Scott was a financial consultant specializing in sustainable investment strategies for institutional and private clients at Royal Bank of Canada and Piper Jaffray. He has a BA in Economics from Colorado College.

Charles M. Burt, Professor Emeritus of Irrigation, and Chairman and Founder, Irrigation Training and Research Center, California Polytechnic State University, San Luis Obispo

Dr. Burt received a B.S. in Soil Science from Cal Poly, an M.S. in Irrigation and Drainage Engineering from Utah State University, and a Ph.D. in Engineering from USU. Experiences include professional

work in 27 countries, three tours in Vietnam as a combat demolition specialist, work as a farm laborer in the San Joaquin Valley as a youth, designer/sales/installation in a major irrigation dealership in Fresno, partner in a consulting agricultural engineering firm, and 36 years at Cal Poly where he previously taught core irrigation classes, but now focuses on applied technical assistance (with some research) through ITRC. He has written and worked extensively regarding on-farm irrigation system design, water balances, irrigation efficiency, the energy-water nexus, canal automation, and irrigation project modernization. He is a Diplomate, Water Resources Engineer with the American Academy of Water Resources Engineers and is a Registered Professional Engineer in California in both Civil and Agricultural Engineering.

Don J. Cameron, General Manager, Terranova Ranch, Inc.

Don is a graduate of California State University, Fresno with a degree in Biology. Since 1981, Don has been the Vice President and General Manager of Terranova Ranch, Inc. southwest of Fresno, California, farming approximately 7,200 acres. The farm has a mix of conventional, organic and biotech crops. In all, 25 crops are grown on the farm. Don has worked to obtain grants for the study and implementation of an On-Farm Flood Flow Capture and Groundwater Recharge Project on the Kings River in Central California. In 2014, Don was appointed to the California State Board of Food and Agriculture. Additionally, in 2011, Don was appointed by State Secretary of Agriculture Karen Ross to the California Department of Food and Agriculture's Science Advisory Panel and currently serves as Chairman.

Alexander R. Coate, General Manager, East Bay Municipal Utility District

Alexander R. Coate has 30 years of experience with public agencies, engineering consulting firms, research and law. Mr. Coate has worked for more than 22 years with the East Bay Municipal Utility District (EBMUD) and currently serves as EBMUD's General Manager. Previously he was Director of Water and Natural Resources with responsibility for water supply planning, water rights, and watershed management including recreation and fisheries. Mr. Coate also managed the District's implementation of the \$900M Freeport Regional Water Project in partnership with the Sacramento County Water Agency. Mr. Coate is a member of the American Water Works Association and the Association of California Water Agencies. He currently serves on the boards of the California Urban Water Agencies, the California WaterReuse Association and the Water Research Foundation.

Heather Cooley, Water Program Director, Pacific Institute

Heather Cooley is Director of the Pacific Institute's Water Program. She has authored numerous scientific papers and been a contributing author in five books, including *The World's Water, A 21st Century U.S. Water Policy*, and *The Water-Energy Nexus in the American West*. Ms. Cooley has received the U.S. Environmental Protection Agency's Award for Outstanding Achievement for her work on agricultural water conservation and efficiency in 2011. She holds a B.S. in Molecular Environmental Biology and an M.S. in Energy and Resources from the University of California, Berkeley. Ms. Cooley currently serves on the Board of the California Urban Water Conservation Council and the state's Urban Stakeholder Committee.

Wade Crowfoot, Deputy Cabinet Secretary and Senior Advisor, Office of Governor Edmund G. Brown Jr.

Wade Crowfoot serves as Deputy Cabinet Secretary and Senior Advisor to Governor Brown. He joined the Brown administration in May 2011. Wade's portfolio includes transportation, infrastructure, emergency preparedness and response, military and veterans issues. Wade co-chairs the Governor's Drought Task Force, which directs state response to drought. He also coordinates state efforts to build long-term drought resilience. Prior to joining Governor Brown's Administration, Wade served as Regional Director for the Environmental Defense Fund (EDF), where he helped to lead EDF's 40 western regional staff and advanced key climate, water and oceans policy. Wade also served as San Francisco Mayor Gavin Newsom's environmental policy advisor.

Jeff Dozier, Professor and Founder, Bren School of Environmental Science and Management at the University of California, Santa Barbara

Jeff Dozier is a professor in the Bren School of Environmental Science & Management at the University of California, Santa Barbara, where he has taught since 1974 after earning his PhD from the University of Michigan. He founded the Bren School and served as its first dean for six years. His research interests are in the fields of snow hydrology, Earth system science, remote sensing, and information systems. He led interdisciplinary studies in two areas: one addresses hydrologic science, environmental engineering, and social science in the water environment; the other is in the integration of environmental science and remote sensing with computer science and technology. From 1990-1992, he was the senior project scientist for NASA's Earth Observing System when the configuration for the system was established.

Randy Fiorini, Chair, Delta Stewardship Council

Delta Stewardship Council Chair Randy Fiorini is a native of California's Central Valley where he was raised on his family's tree fruit and wine grape farm. Interested in agricultural affairs, Randy was elected chairman of the California Canners and Growers, chairman of the California Cling Peach Advisory Board, and was appointed by two Presidents to serve on the U.S. Agricultural Technical Advisory Committee for Fruits and Vegetables. Randy's public involvement in water began in 1992 when he was elected director of the Turlock Irrigation District where he served for 16 years. During that time he was also president of the San Joaquin River Group Authority, president of the California Farm Water Coalition, and president of the Association of California Water Agencies. In March 2010, Governor Schwarzenegger appointed Randy to serve on the Delta Stewardship Council. He was initially elected by his colleagues to a four year term as Vice-Chair, and following that term was elected Chair.

Peter H. Gleick, Co-founder and President, Pacific Institute

Dr. Peter H. Gleick is co-founder and president of the Pacific Institute for Studies in Development, Environment, and Security in Oakland, California. His research and writing address the critical connections between water and human health, the hydrologic impacts of climate change, sustainable water use, privatization and globalization, and international conflicts over water resources. Dr. Gleick is an internationally recognized water expert and was named a MacArthur Fellow in October 2003 for his work. In 2001, he was dubbed a "visionary on the environment" by the British Broadcasting Corporation. In 1999, Dr. Gleick was elected an Academician of the International Water Academy, in Oslo, Norway and in 2006, he was elected to the National Academy of Sciences, Washington, D.C.

Max Gomberg, Climate Change Advisor, State Water Resources Control Board

Max Gomberg is the climate change advisor to the State Water Resources Control Board, where he has helped to develop emergency water conservation regulations among other initiatives. He is also a member of the Water-Energy Team of the state's Climate Action Team ("WETCAT"), and was the lead author for the water section of the AB32 Scoping Plan update. Previously, he worked for the Office of Ratepayer Advocates at the California Public Utilities Commission where he was engaged on a range of water and energy rate-setting and rulemaking proceedings. Mr. Gomberg holds a Masters degree in Public Policy from UCLA and a BA in Environmental Studies from the University of Chicago.

Sarge Green, Water Management Specialist, California Water Institute

Sarge Green is a water management specialist at the California Water Institute and Center for Irrigation Technology at California State University, Fresno. His main focus has been water policy and integrated regional water management planning in the San Joaquin Valley. Recently he has been assisting two San Joaquin Valley counties with groundwater ordinances designed to assure availability of groundwater for County users while also meeting the goals of the new State groundwater law. Green served previously as General Manager of Tranquility Irrigation District in western Fresno County for 18 years, and also worked 13 years at the Central Valley Region Water Quality Control Board. He's currently a member of: the California Water Quality Monitoring Council, the PPIC Water Policy Center advisory network, the California Roundtable

for Water and Food Security and serves as the Chair of the “Clean Water Subcommittee” for the Association of California Water Agencies.

P. Joseph (Joe) Grindstaff, General Manager, Inland Empire Utilities Agency

Mr. Joe Grindstaff has served as General Manager for the Inland Empire Utilities Agency (IEUA) since 2013. He has over thirty years of experience in management and planning in the field of water, wastewater, and resource management. Prior to working with IEUA, Mr. Grindstaff served as the Executive Officer for the Delta Stewardship Council from 2010 to 2012, where he helped establish the Delta Conservancy. From 2005 to 2010, Mr. Grindstaff served as Director of the California Bay-Delta Authority and also served as Deputy Secretary for Water Policy for the Natural Resources Agency from 2006 to 2010. As Deputy Secretary for Water Policy, Mr. Grindstaff took part in the historic 2009 legislative reform package, coordinated water policy, supported Delta Vision, helped CALFED transition to the new paradigm of co-equal goals, and oversaw many resource management activities for the State. Mr. Grindstaff has also served in various management positions including General Manager for the Santa Ana Watershed Project Authority, General Manager of Monte Vista Water District, Assistant Operations Branch Manager for Easter Municipal Water District, Wastewater Systems Manager for the City of Riverside, and Wastewater Plant Operations Manager for Salt Lake City.

Kamyar Guivetchi, Manager, Division of Statewide Integrated Water Management, California Department of Water Resources

Kamyar Guivetchi was appointed Manager of the Division of Statewide Integrated Water Management in August 2008 with the California Department of Water Resources (DWR). Before that, he managed DWR’s Strategic Water Planning since November 2000. During his 37 years with DWR, Kamyar has worked on many technical and planning projects with the North-Central Region Office, Division of Planning, Bay-Delta Office, and the Division of Environmental Services as Manager of the Suisun Marsh Program. More recently, Kamyar managed DWR staff work and coordinated the participation of numerous government agencies, Native American Tribes, stakeholders, and public to prepare the *California Water Plan Updates 2005, 2009 and 2013* using a collaborative and consensus-seeking approach. He now chairs the 28-member State Agency Steering Committee for Water Plan Update 2018 and co-chairs the California Biodiversity Council’s Executive Committee.

John Laird, Secretary, California Natural Resources Agency

John Laird was appointed California Secretary for Natural Resources by Governor Jerry Brown on January 5, 2011. He has spent nearly 40 years in public service, including 23 years as an elected official. Continuing his public service as California’s Secretary of Natural Resources, Laird has made climate change adaptation, water conservation and supply reliability, enhanced relationships with tribal governments, State Parks access, farmland conservation, and oceans sustainability among other issues top priorities. As Secretary, he provides administrative oversight to thirty departments, commissions, councils, museum, boards and conservancies – and is a sitting member of sixteen conservancies, councils, boards and commissions within the purview of the Agency.

Marc Levine, Assembly Member and Chair of the Assembly Committee of Water, Parks, and Wildlife, California State Assembly

Marc Levine was elected to the Assembly in 2012 to represent Marin County and Southern Sonoma County. A former San Rafael City Councilmember, he has held leadership posts throughout his career and helped develop award winning software that documented human rights abuses around the globe. He currently chairs the Assembly Committee on Water, Parks, and Wildlife. Governor Brown has signed into law 23 bills authored by Mr. Levine including historic Marin County housing legislation. Other laws written by Mr. Levine support online education at CSU campuses, increase use of recycled water, create new charging stations for electric vehicles, increase access to the California Coastal Commission meetings, expand markets for local businesses, and protect victims of violent crime. Assemblymember Levine lives in San Rafael with his wife Wendy and their two children.

Frank Loge, Director, UC Davis Center for Water-Energy Efficiency

Frank Loge is Director of the UC Davis Center for Water-Energy Efficiency, a professor in the Department of Civil and Environmental Engineering, and the current holder of the Ray B. Krone Endowed Professorship in Environmental Engineering. He began his career studying water and wastewater treatment, and has developed a strong interest in the relationship between energy, water, and health. Frank advocates performing fundamental research to advance knowledge and developing and deploying technologies and policies that improve environmental quality and human life. His research efforts focus on the energy and health implications of engineered and natural systems, designing sustainable systems and technologies, and entrepreneurship and finance. He received a PhD in Civil and Environmental Engineering from UC Davis and is a licensed Professional Engineer in California.

Karl Longley, Director of the California Water Institute, CSU Fresno

Karl E. Longley, of Fresno, is an emeritus professor and dean of engineering and he is the founding director of the California Water Institute at California State University, Fresno. Dr. Longley is a member of the American Water Works Association, the American Society of Civil Engineers, the Nature Conservancy, the American Academy of Environmental Engineers, and the Water Environment Federation. Dr. Longley earned a Bachelor of Science degree from the University of New Mexico, a Master of Science degree and Doctor of Science degree from the Johns Hopkins University, and he is a Board Certified Environmental Engineer. Dr. Longley's professional practice has focused upon water and wastewater treatment and supply.

Jeff Mosher, Executive Director, National Water Research Institute

Jeff Mosher serves as Executive Director of the National Water Research Institute (NWRI), a non-profit research institute located in Fountain Valley, CA with water and wastewater agency members. He manages NWRI's research program, which address scientific and policy issues associated with water recycling, desalination, treatment technologies, criteria, regulations, public health, and water quality. He has a background in the all aspects of the implementation of potable and nonpotable recycled water projects, including both indirect and direct potable reuse. He has worked with cities, districts, and state agencies on implementing and permitting recycled water projects.

Tamin Pechet, Founder and Director, Banyan Water, and Co-Founder and Chairman, Imagine H2O

Tamin Pechet is Founder & Director of Banyan Water, a leading software and data analytics business that optimizes water systems across the U.S. He is also the Co-Founder & Chairman of Imagine H2O, the largest global water business accelerator, whose portfolio companies represent more than \$1 in \$10 of venture capital water investment. He serves as a board director or advisor to four venture-backed software and data businesses. Previously, Tamin was a venture capitalist at Catamount Ventures and an investor at Goldman Sachs where he co-founded and managed a \$200 million energy subsidiary, and helped launch the firm's Specialty Lending Group. He advises several of the world's largest investment firms on water and energy, and co-authored the book "Water Tech: A Guide to Investment, Innovation, and Business Opportunities in the Water Sector." Tamin holds an AB from Harvard University and an MBA from Harvard Business School, where he was featured in two recent case studies taught on water.

Karen Ross, Secretary, California Department of Food and Agriculture

Karen Ross was appointed Secretary of the California Department of Food and Agriculture on January 12, 2011, by Governor Edmund G. Brown Jr. Secretary Ross has deep leadership experience in agricultural issues nationally, internationally, and in California. Prior to joining CDFG, Secretary Ross was chief of staff for U.S. Agriculture Secretary Tom Vilsack, a position she accepted in 2009. Prior to that appointment, she served as President of the California Association of Winegrape Growers from 1996-2009, and as Vice-President of the Agricultural Council of California from 1989-1996. Before moving to California, Secretary Ross served as Director of Government Relations for the Nebraska Rural Electric Association and as Field Representative for U.S. Senator Edward Zorinsky.

Catherine J.K. Sandoval, Commissioner, California Public Utilities Commission

Catherine J.K. Sandoval was appointed by Governor Jerry Brown in January 2011 to serve as a Commissioner at the California Public Utilities Commission (CPUC). She is the lead Commissioner on many water issues for the CPUC, is the Assigned Commissioner of the CPUC Water Energy Nexus Proceeding, and Co-Chairs the Inter-Agency Water Energy Team of the Climate Action Team. She serves as the National Association of Regulatory Utility Commissioners (NARUC) Telecommunications Committee Co-Vice-Chair. She is the State Chair of the Federal Communications Commission (FCC) Federal-State Joint Conference on Advanced Telecommunications Services. She is a tenured law professor at Santa Clara University School of Law where she taught Telecommunications and Internet Law, Antitrust Law, and Contracts.

William “Bill” Steele, Area Manager of the Southern California Office of the US Bureau of Reclamation

Bill Steele is the Area Manager of the Southern California Area Office for the US Bureau of Reclamation. He oversees implementation of Reclamation’s program which includes: Title XVI Reclamation Water Reuse and Recycling; desalination research; water conservation; drought assistance; planning activities covering water reuse and recycling, conjunctive use of ground and surface water resources, storm water runoff augmentation, watershed modeling to address both water quantity and quality issues, and the development of new water sources; and technical assistance to Native American Tribes.

Jennifer West, Managing Director, WateReuse California

Jennifer joined WateReuse California as Managing Director in September 2014. WateReuse California is a branch of the national WateReuse Association. Its mission is to promote responsible stewardship of California's water resources by maximizing the safe, practical and beneficial. Jennifer has worked for almost 20 years in water, recycled water and resource advocacy in California’s capitol. Before joining WateReuse California, Jennifer served as Director for Water for the California Municipal Utilities Association. From 1996 to 2010, she worked as a contract legislative advocate representing a variety of clients on issues from recycled water, wetlands policy, groundwater and habitat preservation.

Robert Weisenmiller, Chair, California Energy Commission

Chair Robert Weisenmiller was appointed as a commissioner and designated as the Chair to the California Energy Commission in January 2011 by Governor Jerry Brown and re-appointed in January 2015. He fills the Engineer/Scientist position on the five-member Commission. Commissioner Weisenmiller brings more than 30 years energy experience to the Commission including expertise in electricity and gas markets and California regulatory policies. Chair Weisenmiller has served as an expert witness in more than 100 state and federal regulatory commission proceedings and has authored numerous publications on electricity and natural gas markets.

Bob Wieckowski, Senator and Chair of the Senate Environmental Quality Committee, California State Senate

Senator Bob Wieckowski was elected on November 4, 2014 and represents the 10th Senate District in the California State Legislature. The district stretches from southern Alameda County into Santa Clara County and shares the member’s focus on job creation, clean technologies, protecting our environment and creating economic equity and financial stability for working-class families. Mr. Wieckowski serves as chair of the Environmental Quality Committee. He is also a member of the Senate committees on Business, Professions and Economic Development; Insurance; Judiciary; and Transportation and Housing. He was appointed by Senate President Pro Tem Kevin de Leon to serve on the Energy and Environment Committee of the Council of State Governments West. In his first four years in the Legislature, Senator Wieckowski passed 35 bills that were signed into law by Governor Brown. Reflecting his collaborative style, most of these bills were approved with strong, bipartisan support. Statewide organizations have selected him Legislator of the Year and the California Judges

Association gave him its “Scales of Justice Award” for his steadfast support for increased court funding. Tech America also named him “Legislator of the Year.”

Peter Williams, Chief Technology Officer, Big Green Innovations, IBM

Dr. Peter Williams is the Chief Technology Officer, Big Green Innovations, at IBM. His focus areas are resilience to natural disasters and chronic stresses; Smarter Cities, with special reference to water management, covering entire water resources (for example entire rivers or aquifers), utility infrastructures, and enterprise water management; and cloud computing for government. He has had a major role in developing the intellectual foundation for IBM's "Smarter Planet" and "Smarter Cities" initiatives, and in identifying and integrating their technological components - both IBM-originated and from outside the company.

David Zoldoske, Director, Center for Irrigation Technology and the California Water Institute at California State University Fresno

Dr. David Zoldoske serves as the director of the Center for Irrigation Technology and the California Water Institute at California State University Fresno, where he has been actively working on water use efficiency issues for over 30 years. He recently served as vice-chair of the California Department of Water Resources strategic planning caucus for New Water Technology, served as a member of the California Department of Food and Agriculture Nitrogen Tracking and Reporting Task Force and served as a member of the A-2 subcommittee to the SBx7-Agriculture Stakeholders Committee.