

Stanford Workshop on Water Governance and Climate Change September 25-26, 2014

SPEAKER BIOGRAPHIES



Lee Addams

Lee Addams is the Senior Vice-President, Corporate Strategy (Chief Strategy Officer) at Valmont Industries, Inc. based in Omaha, Nebraska, USA. Valmont is a leading global manufacturer of high-productivity and water-conserving mechanized irrigation equipment and engineering infrastructure products. Prior to joining Valmont, Dr. Addams held various positions with McKinsey & Company from 2006-2012, with project activity focusing on water resources, water technology, energy and agriculture. Dr. Addams has held research posts at the Earth Institute at Columbia University, New York and has worked as a geophysicist for Exxon Exploration Corporation and at Los Alamos National Laboratory. Dr. Addams holds a Ph.D. in Earth and Environmental Sciences from Stanford University, specializing in hydrology and water resources.



Michael Anderson

Michael Anderson works for the California Department of Water Resources (DWR) and is currently serving as the State Climatologist for California. Dr. Anderson began working in the DWR's Division of Flood Management Forecasting Section in July 2005. He came to DWR after extensive graduate and postgraduate work at the University of California, Davis, in the area of hydroclimate system modeling and monitoring. Dr. Anderson received a B.S. in Civil Engineering from Colorado State University, and both a M.S. and Ph.D. in Civil and Environmental Engineering from the University of California, Davis.



John Andrew

John Andrew is Assistant Deputy Director of the California Department of Water Resources (DWR), where since 2006, he has overseen all of DWR's climate change activities. His previous management positions with the Department have included Chief of Fish Facilities and Chief of Special Planning Projects; in the latter position, he was an editor of the *California Water Plan Update 2005, the State's strategic plan for water resources*. From 2000-03, Andrew served concurrently as water quality manager and Southern California regional coordinator for the CALFED Bay-Delta Program. Prior to joining DWR, John spent eight years in research and field assignments with the drinking water program at the California Department of Health Services in Berkeley. From 1991-98, Mr. Andrew was also a publicly elected director of the Stege Sanitary District in Contra Costa County, which serves the communities of El Cerrito, Kensington, and the Richmond Annex. Andrew has over 25 years of experience in water resources and environmental engineering and holds degrees in civil engineering and public policy from the University of California at Berkeley.



Chuck Bonham

Charlton “Chuck” Bonham is the Director of the California Department of Fish and Wildlife (previously the Department of Fish and Game). The Department maintains native fish, wildlife, plant species and natural communities for their intrinsic and ecological value and their benefits to people. Prior to his appointment as Director in September 2011, Bonham served in a number of roles for Trout Unlimited (TU) for over ten years, including as the organization’s California director and as a senior attorney. He was responsible for developing, managing, and implementing TU’s programs in California, including the California Water Project, Sportsmen’s Conservation Project, and restoration and watershed projects in both northern and Southern California. Bonham has 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. 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.



Bill Croyle

Bill Croyle is the Drought Manager for the California Department of Water Resources. Director Mark Cowin appointed Mr. Croyle as the Department’s Drought Manager in December 2013 to oversee the 2014 drought. Mr. Croyle represents the Department on various task forces, work groups, and oversees the Department’s Drought Manager Operations Team and its drought preparedness and response activities. As the DWR Drought Manager, Mr. Croyle leads the Department’s Drought Management Team of over one hundred and fifty water management professionals dedicated to monitoring and reducing the impacts of drought on California. In addition, he represents the Department at Governor Brown’s Interagency Drought Task Force meetings, which coordinate drought assessment, response and mitigation actions among a multitude of local, State and federal agencies. Since 2007, Mr. Croyle served as Chief of the Flood Operations Branch where he gained extensive experience in emergency management. As Chief of Flood Operations, he directed the Department’s flood and high water emergency preparedness, response and recovery activities Statewide. Mr. Croyle’s State service began with over thirty years at the Central Valley Water Control Board where he served in a variety of capacities. Mr. Croyle is a registered professional engineer and received a B.S. degree in Civil Engineering from California State University, Sacramento.



Noah Diffenbaugh

Dr. Noah Diffenbaugh is an Associate Professor and Senior Fellow at Stanford University. He studies the climate system, including the processes by which climate change could impact agriculture, water resources, and human health. Dr. Diffenbaugh is currently an Editor of the peer-review journal *Geophysical Research Letters*, and a Lead Author for Working Group II of the Intergovernmental Panel on Climate Change (IPCC). Dr. Diffenbaugh is a recipient of the James R. Holton Award from the American Geophysical Union, a CAREER award from the National Science Foundation, and a Terman Fellowship from Stanford University. He has also been recognized as a Kavli Fellow by the U.S. National Academy of Sciences, and as a Google Science Communication Fellow.



Holly Doremus

Holly Doremus is the James H. House and Hiram H. Hurd Professor of Environmental Regulation at the University of California, Berkeley; Director of the Berkeley Law Environmental Law Program; and Co-Faculty Director of the Center for Law, Energy, and the Environment. She is a Member Scholar of the Center for Progressive Reform and serves on the Board of Directors of Defenders of Wildlife. She received her B.S. in biology from Trinity College (Hartford, CT), Ph.D. in plant physiology from Cornell University, and J.D. from the University of California, Berkeley. After law school, she clerked for Judge Diarmuid O'Scannlain of the United States Court of Appeals for the Ninth Circuit and practiced law in Corvallis, Oregon. Doremus has written extensively about environmental and natural resources law; the primary focal points of her research work are biodiversity protection, the intersection between property rights and environmental regulation, and the interrelationship of environmental law and science.



Brian Gray

Brian Gray is a Professor of Law at the University of California, Hastings College of the Law, in San Francisco. Professor Gray is the author of numerous books and articles in the fields of environmental law, water resources, public lands and natural resources, property rights and the constitution, and related subjects. He also has argued environmental and water resources cases before the California Supreme Court, the U.S. Court of Appeals for the Ninth Circuit, and other courts. Professor Gray is a recipient of the William Rutter Award for Excellence in Teaching, the UC Hastings Outstanding Teacher Award, and the Nature Conservancy's Volunteer Service Award. Professor Gray is engaged in a series of interdisciplinary studies of California water policy with scientists, economists, and public policy specialists from the University of California, Stanford, and the Public Policy Institute of California. With colleagues from the UC Hastings Haiti Justice Initiative and New York University's Center for Human Rights & Global Justice, he also is currently working on a study of gold mining in Haiti.



Ellen Hanak

Ellen Hanak is a senior fellow at the Public Policy Institute of California (PPIC), a non-partisan research institute dedicated to informing and improving public policy in the State. Since joining PPIC in 2001, she has built an influential, multi-disciplinary water policy research program involving scholars from across California. PPIC's water publications (available at www.ppic.org) address key challenges facing the management of this important resource, including water supply and quality, flood protection, aquatic ecosystem health, and financing and governance solutions. Before joining PPIC, Ellen held research positions with the French agricultural research system, the U.S. President's Council of Economic Advisors, the World Bank, and the Brookings Institution. She holds a Ph.D. in economics from the University of Maryland.



David Hayes

David J. Hayes is a distinguished visiting lecturer at the Stanford Law School. Prior to teaching at Stanford, Hayes served as the Deputy Secretary and Chief Operating Officer of the Department of the Interior. As the Senate-confirmed #2 official at Interior from 2009 until July 2013, he had line authority over Interior's 70,000 employees, its \$12 billion dollar budget, and the Department's ten major bureaus and agencies, including the Bureau of Reclamation – the largest water supplier in the United States. Hayes previously served as counselor to the Secretary of the Interior and then as Deputy Secretary from 1997 to 2001 in the Clinton Administration. Before and between his service in the Clinton and Obama Administrations, Hayes worked in the private sector where he chaired the Environment, Land and Resources Department at Latham and Watkins, an international law firm. He is a former Chairman of the Board of the Environmental Law Institute, Chairman of the Board of Visitors for Stanford Law School and Vice-Chair of the Board of American Rivers. He also formerly served as a Senior Fellow for the Hewlett Foundation and for the World Wildlife Fund. Hayes graduated summa cum laude from the University of Notre Dame and received his J.D. from Stanford University.



Tom Iseman

Tom Iseman serves as Deputy Assistant Secretary for Water and Science in the U.S. Department of the Interior. The Water and Science office provides oversight for the U.S. Geological Survey and the Bureau of Reclamation. Tom's responsibilities include serving as the primary policy lead for the Bureau of Reclamation, coordinating the Department's efforts to advance sustainable hydropower generation, developing strategies to build drought and climate resilience in our water supplies, and leading Interior's WaterSMART initiative. Prior to joining Interior, Tom was the Water Program Director for the Western Governors' Association, which represents the governors of 19 Western states on key regional policy issues. Tom also directed the water program at The Nature Conservancy of Colorado and worked in the Office of Policy at the U.S. Department of the Interior. Tom has extensive experience in water resource planning and policy in the Western United States, and he has led projects on drought and climate adaptation, water markets, and the energy-water nexus. Tom earned a B.A. in history in 1991 from Princeton University and an M.S. in freshwater ecology in 1997 from the University of Michigan.



Jeff Kightlinger

Jeffrey Kightlinger is the General Manager of The Metropolitan Water District of Southern California. As General Manager, he reports to Metropolitan's Board of Directors and is responsible for carrying out the policy directives of the Board and for managing the agency's staff and resources. Metropolitan has an annual operating budget of over \$1.7 billion and is the largest wholesale provider of treated water in the United States. Metropolitan provides water to over 19 million people across six counties covering over 5,200 square miles. On average, Metropolitan delivers nearly 2 billion gallons of water a day. Kightlinger was appointed General Manager in 2006. Prior to his appointment as General Manager, he was General Counsel for Metropolitan, overseeing the agency's legal department. Before coming to Metropolitan, Kightlinger was in private practice specializing in environmental law. Kightlinger earned a bachelor's degree from the University of California at Berkeley and a law degree from the University of Santa Clara School of Law. He was appointed by Governor Schwarzenegger to California's Bay Delta Vision Blue Ribbon Task Force, Stakeholder Committee and has served on numerous boards including the Climate Action Reserve, the UCLA Continuing Education Sustainability Advisory Board, the University of Southern California Keston Institute, and the Coro Foundation.



Yusuke Kuwayama

Yusuke Kuwayama is a Fellow at Resources for the Future. His research focuses on the economics of environmental regulation, with an emphasis on water resources and ecosystems. His current work includes analysis of agricultural groundwater use and surface water pollution from agricultural activities, the water resource impacts of unconventional fossil fuel development, interactions between water resource use and ecosystem service function, and issues related to water reuse and wastewater treatment. Kuwayama's research often integrates economic analysis with physical modeling of water resources and draws on methods from numerical optimization and economic dynamics. His work has been published in outlets such as the *Journal of Environmental Economics and Management* and *Hydrogeology Journal*. He received his Ph.D. in Agricultural and Applied Economics and M.S. in Economics from the University of Illinois as well as an A.B. in Economics from Amherst College.



Jay Lund

Dr. Jay Lund is Director of the Center for Watershed Sciences and a Professor of Civil and Environmental Engineering at the University of California – Davis. He has long enjoyed teaching, research, and engagement on many aspects of theory and practice for water management and policy, usually trying to integrating economics and operations research with traditional engineering. Dr. Lund has become particularly engaged in working on the wide range of water problems in California with many collaborators, and remains enthusiastic about the potential of optimization to provide understanding and insights. He is on the editorial board of several water resources publications and served as President of the Universities Council on Water Resources. In California Dr. Lund was on the Advisory Committee for the 1998 and 2005 California Water Plan Updates, has served as Convenor of the California Water and Environment Modeling Forum, and is on the Delta Independent Science Board. He has long been involved in applying economic and optimization ideas to provide insights on California's water problems, including the development and use of the CALVIN model of California's water supply system. He is a lead author of *Comparing Futures for the Sacramento-San Joaquin Delta* (UC Press 2010) and *Managing California's Water: From Conflict to Reconciliation* (PPIC 2011).



Peter Moyle

Peter Moyle has been working on the ecology California's freshwater and estuarine fishes since 1969, culminating in his 2002 book, *Inland Fishes of California* (UC Press). He has co-authored numerous papers on the ecology, status and trends of California's diverse and endemic fishes, including evaluations of effects of climate change. He also is a co-author of a book published by the Public Policy Institute of California, *Managing California's Water: from Conflict to Reconciliation*. He is lead author of the just-published *Suisun Marsh: ecological history and possible futures* (UC Press), which reflects his 40 years of study of fish and water issues in the San Francisco Estuary. International experience includes studies of fishes in the Okavango Delta, Botswana, and in streams of Sri Lanka. He is a professor in the Department of Wildlife Fish and Conservation Biology and associate director of the Center for Watershed Sciences, UC Davis.



David Murillo

David Murillo was named the director of the Mid-Pacific Region of the Bureau of Reclamation in December 2012. He oversees management of the Region's 11 water projects in an area encompassing the northern two-thirds of California, most of western Nevada and part of southern Oregon. The Region's headquarters is located in Sacramento, California. Five area offices are located in Redding, Folsom, and Fresno, all in California; Klamath Falls, Oregon; and Carson City, Nevada. Three specialized offices are the Mid-Pacific Construction Office in Willows, California; and the Bay-Delta Office and Central Valley Operations Office, both in Sacramento. The Region includes the multi-purpose Central Valley Project (CVP), one of the nation's most complex and highest-profile network of dams, reservoirs, canals and hydroelectric power plants. Extending 400 miles through northern and central California, the CVP provides an average of about 5.5 million acre-feet of water annually for agriculture, municipal and environmental uses in the Sacramento and San Joaquin valleys, California's central coast region, and southern and eastern San Francisco Bay area. The CVP's 11 hydropower plants generate an average of about 4.5 billion kilowatt-hours a year. Beginning in September 2010, Murillo served as Reclamation's deputy commissioner for operations, overseeing operations in five regions across 17 western states; the Native American and International Affairs Office; and Technical Resources, which includes the Technical Service Center, Research and Development Office, Power Liaison, and Dam Safety Office/Design, Estimating and Construction. Murillo is originally from Yakima and graduated from Washington State University with a Bachelor of Science degree in mechanical engineering in 1984.



David Orth

David Orth has more than 28 years of experience in California water policy and management. Orth is currently the general manager for the Kings River Conservation District. He also serves on the California Water Commission. Prior to his current position, Orth was the Director of Finance and General Manager for Westlands Water District and managed water and gas portfolios for a large San Joaquin Valley farming operation. Orth is deeply involved in the development of sustainable policies for local groundwater management and water quality protection. He serves on the board of directors of the Association of California Water Agencies as the Region 6 chair. Prior to his time in the water management arena, Orth served in various accounting and finance positions with the County of Fresno. Orth is a native of Porterville. He has a Bachelor of Science degree in Accounting from California State University, Fresno.



Jacqueline Peel

Jacqueline Peel is a Professor of Law at the Melbourne Law School, University of Melbourne in Australia where she has taught for the past 12 years. Jackie's expertise lies in the areas of environmental law, climate change law and risk regulation. She has published widely on these topics including six books on *The Precautionary Principle in Practice*, *Environmental Law: Scientific, Policy and Regulatory Dimensions*, *Science and Risk Regulation in International Law*, *Principles of International Environmental Law*, *Australian Climate Law in Global Context* and *Climate Change Litigation: Pathways to a Cleaner Energy Future* (in press). Jackie is currently a Visiting Scholar with the Stanford Water in the West program working on topics related to climate change adaptation governance and law reform. Prior to taking up an academic position at the Melbourne Law School, Jackie served as an intern to Special Rapporteur James Crawford on the UN International Law Commission and practiced as an environmental and natural resources lawyer in Australia. She has a Bachelor of Science and Bachelor of Laws (Hon I) from the University of Queensland, a Master of Laws from NYU and a PhD in Law from the University of Melbourne.



Frances Spivy-Weber

Frances Spivy-Weber of Redondo Beach was first appointed to the State Water Resources Control Board in 2007, reappointed and elected Vice-Chair of the Board in 2009, and reappointed by Governor Brown in 2013 to a four-year term. Before being appointed to the Board, she served as the executive director of the Mono Lake Committee since 1997. From 1983 to 1992, Ms. Weber served as the director of international programs for the National Audubon Society. She previously was a legislative assistant for the Animal Welfare Institute from 1978 to 1982. Ms. Weber was a member of the Bay-Delta Public Advisory Committee and co-chair of its Water Use Efficiency Committee. She also served as co-chair of the Southern California Water Dialogue and convener of the California Urban Water Conservation Council. She has served on many boards, including the Water Education Foundation, California Council of Land Trusts, and Clean Water Action/Clean Water Fund.



Will Stelle

William Stelle is the Regional Administrator of the West Coast Region, effective October 1st, 2013. Prior to the establishment of the new region, Will was appointed as the Regional Administrator for NOAA Fisheries Northwest Region in June 2010, and was designated as the Acting Southwest Regional Administrator in April 2013 pending the creation of the new West Coast Region. Before joining the Obama Administration, he was a partner at the law firm of K&L Gates. His practice concentrated on projects involving complex Federal and State environmental regulatory challenges, specializing in freshwater and marine habitat issues and endangered species, CERCLA, CWA and NEPA issues. He served as NOAA Fisheries Northwest Regional Administrator from 1994 until 2000, where he managed the listings of salmon and steelhead populations under the Endangered Species Act in Washington, Oregon, Idaho, and California. He has extensive experience in state, Tribal and Congressional relations. Before settling in the Northwest, Will held a variety of policy positions dealing with a range of environmental and natural resource programs in Washington, D.C. Within the Federal Executive Branch, he served as the Associate Director for Natural Resources with the White House Office on Environmental Policy overseeing Federal lands, endangered species and natural resource policies. Before that he was Special Assistant to the Secretary of the Interior where he helped promulgate and implement the Northwest Forest Plan, governing federal Forest Service and BLM lands in California, Oregon, Washington and Idaho. Prior to entering the Executive Branch, Will served as Chief Counsel for the House Committee on Merchant Marine and Fisheries, as General Counsel for the House Fish and Wildlife Subcommittee, and as staff counsel to the Senate Select Committee on Indian Affairs. Will received the Department of Commerce Gold Medal Award in 1997, and the NOAA Administrator's Award in 2000. His education includes: LL.M., Marine Resource Law, University of Washington School of Law, 1981; J.D., Coastal and Marine Law, University of Maine Law School, 1978; and a B.A. from Boston University, 1974 (magna cum laude). He also studied international marine resource law at Dalhousie University Law School in Halifax, Nova Scotia.



Leon Szeptycki

Leon Szeptycki, Executive Director of Water in the West, is an attorney who specializes in water quality, water use and watershed restoration. His work includes issues related to stream flow restoration in the context of the western appropriative rights system and increasing human demands on water. Over his career, Leon has worked on a broad range of matters related to the restoration of river health and water quality on a landscape scale. From 2006 until 2012, Leon taught at the University of Virginia School of Law, where he ran the Environmental Law and Conservation Clinic and helped create an interdisciplinary course in conservation for students in the environmental sciences department and the law school. Prior to that, he spent 10 years with Trout Unlimited, a national conservation organization devoted to the protection and restoration of trout and salmon rivers. While at Trout Unlimited, Leon helped develop innovative legal and policy tools for voluntary watershed restoration by a variety of means, including dam removal and reclamation of abandoned mine sites. He has also worked in private law practice and at the U.S. Department of Justice. Leon received his B.A. from the University of Kansas and his J.D. from Yale Law School.



Buzz Thompson

Buzz Thompson is the Robert E. Paradise Professor in Natural Resources Law at Stanford Law School and the Perry L. McCarty Director of the Woods Institute for the Environment at Stanford University. He is also a senior fellow in both the Woods Institute and the Freeman-Spogli Institute for International Studies. Professor Thompson helped found the Woods Institute for the Environment and has served as director since the institute's creation in 2004. He previously served as Vice Dean of Stanford Law School and started the Law School's Environmental and Natural Resources Law & Policy Program (ENRLP). Professor Thompson is an expert in water law and has written dozens of articles and books on the subject. His recent books include *Legal Control of Water Resources*, which is now in its fifth edition, as well as *Managing California's Water: From Conflict to Reconciliation* with Ellen Hanak, Jay Lund, and others. Much of his scholarship has focused on water markets and alternatives to traditional water regulation. He currently serves as Special Master for the United States Supreme Court in *Montana v. Wyoming*, an original jurisdiction dispute involving the waters of the Yellowstone River system. Professor Thompson chairs the boards of the Resources Legacy Fund and the Resources Legacy Fund Foundation, serves as a California trustee for The Nature Conservancy, and is a member of the boards of the American Farmland Trust and the Sonoran Institute. He is a former member of the Science Advisory Board of the United States Environmental Protection Agency. He received his A.B. (Economics and Political Science), M.B.A., and J.D. degrees from Stanford University. Prior to joining the Stanford faculty, he clerked for then-Justice William Rehnquist of the United States Supreme Court and was a partner with O'Melveny & Myers in Los Angeles.



Rob Verchick

Rob Verchick holds the Gauthier-St. Martin Chair in Environmental Law at Loyola University New Orleans, where he is Faculty Director of the Center for Environmental Law. He is also a Senior Fellow in Disaster Resilience Leadership at Tulane University. Professor Verchick recently served in the Obama administration as Deputy Associate Administrator for Policy at the U.S. Environmental Protection Agency. In that role he helped develop climate adaptation policy for the EPA and served on President Obama's Interagency Climate Change Adaptation Task Force. In the fall of 2012, he investigated several climate resilience projects in India as a Fulbright Scholar and is now working on a book about that. Professor Verchick received his bachelor's degree from Stanford and his law degree from Harvard.



Bob Wilkinson

Dr. Robert C. Wilkinson is Adjunct Professor at the Bren School of Environmental Science and Management at the University of California, Santa Barbara, and he is a Senior Lecturer in the Environmental Studies Program at UCSB. Dr. Wilkinson is also a Senior Fellow with the Rocky Mountain Institute. Dr. Wilkinson advises government agencies, businesses, and non-governmental organizations on water and energy policy, climate research, and environmental policy issues. He co-chairs the U.S. Sustainable Water Resources Roundtable and serves on a number of advisory boards including the Task Force on Water and Energy Technology for the California Climate Action Team, and the advisory committee for California's State Water Plan on water, energy, and climate issues. In 1990, Dr. Wilkinson established and directed the Graduate Program in Environmental Science and Policy at the Central European University based in Budapest, Hungary. He has worked in every country of Central Europe from Albania through the Baltic States, and throughout the former Soviet Union including Siberia and Central Asia. He has also worked in Australia, New Zealand, Canada, Japan, South Africa, Mongolia, and China.