

Carpe Diem West

Colorado River Futures Project

Kitchen Cabinet Members

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Robert Adler

Professor

University of Utah Law School

Robert is the James I. Farr Chair in Law at the University of Utah S.J. Quinney College of Law. Professor Adler urges a broader, more holistic approach to the restoration and protection of aquatic and other ecosystems than is used in traditional environmental laws alone, which focus on discrete kinds of environmental harm. After completing a B.A. from Johns Hopkins University and a J.D. from Georgetown University Law Center (cum laude), Professor Adler practiced environmental law for 15 years. He has published dozens of articles and reports in law, policy, and science journals, including Vanderbilt Law Review, Harvard Environmental Law Review, Utah Law Review, and George Washington Law Review. He has published two books with Island Press, one on the history and impact of the Clean Water Act and the other on restoring Colorado River ecosystems. He also published an environmental law casebook with Aspen Publishers, co-authored with David Driesen and Kirsten Engel. Professor Adler regularly teaches courses in environmental law and water law, and recently launched a new environmental clinic in cooperation with Western Resource Advocates. He loves to spend time in Utah's outdoors, and in 2005 and 2008 completed the Wasatch Front 100-mile trail race through Utah's beautiful Wasatch Mountains.



Sarah Bates

Senior Fellow, Center for Natural Resources and Environmental Policy
University of Montana

Sarah Bates has written and spoken extensively on western water law and policy through university research appointments, conservation advocacy positions, and consulting work. She currently works as a senior fellow with the Center for Natural Resources and Environmental Policy and adjunct professor of law at the University of Montana. Sarah is a member of the advisory board of the Natural Resources Law Center at the University of Colorado Law School, where she previously worked as the associate director. She recently completed two terms as a member of the governing board of the Montana-based Clark Fork Coalition and the advisory board of the Ruckelshaus Institute of Environment

and Natural Resources at the University of Wyoming. Sarah's publications include six books and many articles and research reports. Her most recent work includes *Bridging the Governance Gap: Strategies to Integrate Water and Land Use Planning* (http://cnrep.org/documents/montana_policy_reports/26910-Public-Policy-Water-Land-Use-Report-2011.pdf) and *Thinking Like a River Basin: Leaders' Perspectives on Options and Opportunities in Colorado River Management* (<http://www.carpediemwest.org/colorado-report>). Bates has been a Carpe Diem West team member since 2008.



Taylor Hawes

Colorado River Program Director
The Nature Conservancy

Ms. Hawes serves as the Colorado River Program Director for The Nature Conservancy. The Program's goal is to conserve the freshwater biodiversity of the Colorado River Basin, encompassing parts of seven states and Mexico, while also meeting human demands for water. Her responsibilities include coordinating freshwater conservation efforts across the Colorado River basin, synthesizing priority strategies, promoting the vision to key donors and partners, and reaching out to key stakeholders (internal and external) who are critical to conservation success across the Colorado River Basin.

Ms. Hawes previously held the position of Associate Counsel at the Colorado River Water Conservation District in Glenwood Springs. Her responsibilities there included working on water quality, water policy, environmental permitting, and water rights litigation. Prior to her work at the River District, she served as Co-Director of Northwest Colorado Council of Governments' Water Quality and Quantity Committee (QQ) from 1997 to 2004. During that time, Ms. Hawes managed the Upper Colorado River Project (UPCO), which was a six-year study and solutions-oriented project in Summit and Grand Counties to address impacts associated with diversions to the Front Range from the West Slope. She served as a consultant to various towns and counties on land use and water related issues from 1998 to 2004 and acted as town attorney for Montezuma in Summit County, Colorado. Ms. Hawes serves on the Boards of the Colorado Foundation for Water Education, the Colorado Water Trust and was appointed by the Governor to the Inter-basin Compact Committee in Colorado in 2009.



Holly Hartmann

Director, Arid Lands Information Center
University of Arizona/CLIMAS

Dr. Holly Hartmann is Director of the Arid Lands Information Center at the University of Arizona (UA). She is a co-investigator within the Climate Assessment for the Southwest (CLIMAS) and leads the scenario development team within the UA Science and Technology Center for the Sustainability of Semi-Arid Hydrology and Riparian Areas (SAHRA). Holly is a national leader in research related to the development of

decision support tools for climate, water, and other resource management applications, especially linking research with the needs of decision makers and moving research into agency operations. Current research projects include quantitative verification of climate and hydrologic forecasts; improving communication of probabilistic forecasts and uncertainty; incorporating complex integrated models and climate change within a scenario planning framework; and decision support tool development. Her research led to the development of a framework for evaluating forecasts from the perspective of decision makers, which has been implemented as a series of assessment tools available online.

She currently serves on the Board of the International Environmental Modeling and Software Society, and the American Meteorological Society's Board on Economic Enterprise Development, and the AMS Committee on Climate Services. Holly received her MS degree in water resources management from the University of Michigan and her PhD in hydrology and water resources from the University of Arizona. Dr. Hartmann has been a Carpe Diem West team member since 2008.



Robert Johnson

Water Consult

Bob Johnson is currently a partner in Water Consult, a planning and engineering consulting firm focusing on western water. Bob also serves as a Senior Consultant to HDR Engineering, providing water consulting services nationwide. Prior to Bob's work with Water Consult and HDR he served as Commissioner of Reclamation where, as the agency head, he oversaw the water and power development and management program of the nation's largest wholesaler of water and second largest producer of hydropower. Before becoming Commissioner in 2006, Bob spent 30 plus years with Reclamation where worked most extensively in the Colorado River Basin, serving as the Secretary of the Interior's senior manager responsible for managing water and hydropower resources on the Colorado River. Bob was extensively involved in a number of significant changes in the management of the Colorado River, including; development of interstate water banking guidelines, negotiation of the California Quantification Settlement Agreement, development of water surplus and shortage guidelines, development of operating guidelines for Colorado River reservoir operations, and development of the Lower Colorado River Multi Species Conservation Program.



Doug Kenney

Director, Western Water Policy Program
University of Colorado

Dr. Doug Kenney is a Senior Research Associate and Director of the Western Water Policy Program of the Natural Resources Law Center, located within the University of Colorado Law School. He has written extensively on several water-related issues, including law and policy reform, river basin and watershed-level planning,

the design of institutional arrangements, water resource economics, and alternative strategies for solving complex resource issues. Among his publications are *In Search of Sustainable Water Management: International Lessons for the American West and Beyond* (2005, Edward Elgar Publishing), and *The Water-Energy Nexus in the Western United States* (in press, Edward Elgar Publishing). He also teaches in the University of Colorado Environmental Studies Program, and is affiliated with the CU/NOAA Western Water Assessment, exploring the link between climate change/variability and western US water management.

Dr. Kenney has served as a consultant to a variety of local, state, multi-state, and federal agencies, including several Interior Department agencies, EPA, the US Forest Service, and special commissions (e.g., the Western Water Policy Review Advisory Commission); the states of Georgia, Alabama and Florida; and national governments and NGOs in Asia and Africa. Additionally, he has made presentations in (at least) 17 states, 6 nations, and 4 continents. He has a B.A. in biology from the University of Colorado, a M.S. in Natural Resources Policy and Administration from the University of Michigan, and a Ph.D. in Renewable Natural Resource Studies from the University of Arizona. Dr. Kenney has been a Carpe Diem West team member since 2007.



Eric Kuhn

General Manager
Colorado River Water Conservation District

In July 1996, Eric assumed his current duties as General Manager of the Colorado River Water Conservation District. From 1994 through 2001, Eric served on the Colorado Water Conservation Board representing the Colorado River mainstem. In 2006, Eric was appointed by Governor Owens as an at-large representative on the Colorado Interbasin Compact Commission. Eric is currently serving as one of the technical panel co-chairs of the Colorado Climate project.

Eric started employment with the River District in 1981 as Assistant Secretary-Engineer. His responsibilities since then have included technical management of River District activities such as Taylor Draw Dam and Reservoir, Wolford Mountain Reservoir, water marketing, interstate water issues, and integrated project operations. He has served on the Engineering Advisory Committee of the Upper Colorado River Compact Commission since 1981.

He earned his Bachelor's degree from the University of New Mexico in 1972 and a Masters degree in Business Administration from Pepperdine University in California in 1980. Prior to working for the River District, he served as an engineer officer aboard nuclear submarines in the U.S. Navy and worked as a nuclear start-up engineer for Bechtel Power Corporation. Eric has authored a number of papers and technical presentations on the Colorado River system. Eric, his wife and two daughters live in Glenwood Springs.

**John Leshy**

Professor

U.C. Hastings School of Law

John D. Leshy, the Harry D. Sunderland Distinguished Professor at the University of California, Hastings College of the Law in San Francisco, is an expert in federal lands, natural resources, water, and American Indian Law.

After graduating from Harvard Law School, Leshy litigated civil rights cases for the United States Department of Justice out of Washington, D.C, and then moved to the Bay Area to work for the Natural Resources Defense Council. After another stint in Washington as the Interior Department's associate solicitor for energy and resources in the Carter Administration, he was a Professor of Law at Arizona State University from 1980 until 1992, when he returned to Washington as special counsel to the chairman of the House Natural Resources Committee.

Leshy then joined the Clinton administration as Interior Solicitor, becoming the second-longest serving solicitor in the department's 160-year history, before joining the UC Hastings faculty in 2001. He chaired and co-chaired the Interior Department transition teams for the Clinton and Obama Administrations, respectively.

**John Shepard**

Senior Advisor

Sonoran Institute

John Shepard is a Senior Adviser at the Sonoran Institute, responsible for ensuring that the mission and vision of the organization are realized through long-range strategic planning and effective program development,

implementation, and evaluation. John is currently leading the Institute's efforts to appropriately site utility-scale solar projects in Arizona and more effectively integrate local land-use policies and water management in the Colorado River basin. In prior years, he launched the Institute's training programs on community land-use planning for rural western county commissioners and partnership building for public land managers and gateway communities. He also established Building from the Best of Tucson, a project that promotes development consistent with Tucson's building traditions and appropriate for a desert community. Before joining the Institute, John worked for seven years in resource development at The Wilderness Society. John has been a Carpe Diem West team member since 2008.

**Brad Udall**

Director

Western Water Assessment

Brad is director of Western Water Assessment, one of seven RISA (Regional Integrated Sciences and Assessments) programs funded by the Office of Global Programs at NOAA. These programs are designed to develop partnerships with regional stakeholders and tailor NOAA data products to meet their needs. Lessons learned here are also contributing to NOAA's emerging "National Climate Service," the climate analog to the existing National Weather Service.

WWA was created in 1999 and is a joint effort between CIRES and the Climate Diagnostics Center. Using multidisciplinary teams of experts in climate, water, law, and economics, the Western Water Assessment provides information about natural climate variability and human-caused climate change. This information - usually in the form of climate forecasts and regional vulnerability assessments - is designed to assist water-resource decision makers such as Denver Water.

David Wegner

Staff Director, Water Subcommittee

House Transportation & Infrastructure Committee

David Wegner currently serves as on the Senior Democratic staff for the Water Resources and Environment Subcommittee, Transportation and Infrastructure Committee for the 112th Congress. He was formerly Staff Director of the Water and Power Subcommittee, Natural Resources Committee. Current oversight responsibilities include coordination on Corps of Engineers and EPA related water projects, coordination with the Administration on the revision of the Principles and Guidelines for water projects, and evaluation of climate change impacts on the hydrologic resources of the United States. He has a long history in working for and with the Department of the Interior, the Corps of Engineers, the National Academy of Sciences and academic institutions across the country and internationally.

Wegner began his professional career with the Bureau of Reclamation working on the Central Utah Project. From their subsequent work included working for the U.S. Fish and Wildlife Service, Instream Flow Group and the Upper Colorado Region, Bureau of Reclamation on limnological and instream flow surveys of the reservoirs and tail waters of the Colorado River system. From 1982 through 1996 he coordinated the development and implementation of the Glen Canyon Environmental Studies and the NEPA compliance on the operations of Glen Canyon Dam. From 1997 through 2008 he started his own scientific consulting firm focusing on native American, water, energy and the application of science to natural resources issues. He has worked with the National Academy of Sciences on technical reviews of scientific questions and with numerous independent review teams. Current research interests lie in the evaluation of climate impacts on the management of rivers and reservoirs.