An independent, scientific voice for the future of the Colorado River

An Introduction to the Colorado River Research Group: Purpose, Membership and Contact Information

The Colorado River Research Group (CRRG) is a self-directed team of veteran Colorado River scholars assembled to provide a non-partisan, academic voice on matters pertaining to science, law and policy on the Colorado River, helping all those with a stake in the river identify, justify and implement actions consistent with long-term sustainable management. The CRRG provides an independent and knowledgeable voice that is insulated from political constraints, sectoral alliances, and other pressures that might impede the full consideration of relevant ideas and viewpoints.

Membership in the CRRG is limited to members of the academic community with a long and well-established involvement in Colorado River scholarship. Members in the CRRG do not represent their universities or other affiliations; participants serve as individuals. Participation in the CRRG is at the discretion of the initial cohort of Executive Committee members, namely:

- Robert Adler, University of Utah (Professor of Law and Dean)
- Bonnie Colby, University of Arizona (Professor of Agricultural and Resource Economics)
- Karl Flessa, University of Arizona (Professor of Geosciences)
- Doug Kenney, University of Colorado (Director, Western Water Policy Program)
- Dennis Lettenmaier, University of California, Los Angeles (Professor of Geography)
- Larry MacDonnell, University of Colorado (Adjunct Professor of Law)
- Jonathan Overpeck, University of Arizona (Professor of Geosciences)
- Jack Schmidt, Utah State University (Professor of Stream Geomorphology)
- Brad Udall, Colorado State University (Senior Water and Climate Research Scientist)
- Reagan Waskom, Colorado State University (Director, Colorado Water Institute)

Biographies of CRRG members are provided in the following pages. Over time, the Executive Body will recruit additional members from the academic community as Affiliates. The CRRG is currently chaired by Doug Kenney (University of Colorado) (with assistance from Karl Flessa (University of Arizona)). The CRRG Chair assumes primary responsibility for the production of CRRG products, the scheduling and management of CRRG meetings, and is the point of initial contact with outside constituents. The CRRG is self-governing by unanimous consent, and will modify participation and activities as desired in order to best achieve the organization’s purposes. Inquiries regarding the purpose, membership or structure of the CRRG should be directed to the Chair: Doug Kenney: 303-492-1296; douglas.kenney@colorado.edu.
Robert Adler (University of Utah)
James I. Farr Presidential Chair and Dean, College of Law

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Research Interests & Background:

As a scholar, 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. He also explores the many ways in which environmental law and water law will have to respond to a rapidly changing climate. After completing a B.A. from Johns Hopkins University and a J.D. from Georgetown University Law Center, Professor Adler practiced environmental law for 15 years.

Selected Colorado River Publications


Bonnie Colby (University of Arizona)
Professor, Department of Agricultural and Resource Economics

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Research Interests & Background

Dr. Colby’s research career is in natural resource and environmental economics, specifically focusing on public policy and water resource economics. She is an expert in evaluating economic tradeoffs in competing uses of natural resources, the economics of climate change adaptation, and arenas of water and energy management. Among her honors include an Outstanding Publication award from the National Academy of Sciences, and the Distinguished Scholar Award of the WAEA (Western Agricultural Economics Association). She has been at the University of Arizona since 1983, but has also taught at Harvard’s Kennedy School of Government, in continuing education programs for U.S. judges, and in an intensive leadership training program for conservation professionals from over 30 countries. Over the past 20 years, she authored over one hundred journal articles, eight books and developed dozens of water and habitat acquisition programs and climate change adaptation plans for cities, states, tribes, private firms and non-profit advocacy groups. Her Ph.D. is from the University of Wisconsin.

Selected Colorado River Publications


Karl W. Flessa (University of Arizona)
Professor of Geosciences

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Research interests and background

Karl Flessa and his students have been conducting research on the Colorado River delta since 1992. They have documented the effects of upstream water diversions on the fauna of the river’s estuary and estimated flows necessary for their restoration. Flessa directed the NSF-supported Research Coordination Network: Colorado River Delta, the environmental monitoring program for the Ciénega de Santa Clara during the test run of the Yuma Desalting Plant, and is currently the co-Chief Scientist for the Minute 319 Monitoring Program for the Colorado River Delta. He was recently a Distinguished Visiting Scientist at Australia’s CSIRO, where he studied river management in the Murray-Darling Basin. He received his undergraduate degree at Lafayette College and his Ph.D. from Brown University.

Selected Colorado River Publications


Doug Kenney (University of Colorado)
Director, Western Water Policy Program, CU Law School
Getches-Wilkinson Center for Natural Resources, Energy and the Environment

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Research Interests and Background

Dr. Kenney researches and writes extensively on several water-related issues, including law and policy reform, river basin and watershed-level planning, climate change adaptation, and water resource economics, and is the founder of the Colorado River Governance Initiative. He 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); and national governments and NGOs in Asia and Africa. Additionally, he has made presentations in 20 states (and the District of Columbia), 7 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.

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**Dennis Lettenmaier (UCLA)**  
Distinguished Professor of Geography, UCLA Institute of Environment and Sustainability

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**Web:** n/a

**Research Interest & Background**

Dr. Lettenmaier’s research primarily focuses on large-scale hydrology, hydrologic aspects of remote sensing, and hydrology-climate interactions. Professor Lettenmaier recently joined the faculty at UCLA after nearly four decades at the University of Washington’s Civil & Environmental Engineering department. Along with his university responsibilities, he has been involved in a variety of other agencies and associations. He was the Program Manager of NASA’s Land Surface Hydrology Program and is a member of the American Geophysical Union, the American Water Resources Association, the European Geosciences Union, the American Meteorological Society, the American Society of Civil Engineers, and the American Association for the Advancement of Science. He was a recipient of ASCE’s Huber Research Prize in 1990, and the American Geophysical Union’s Hydrology Section Award in 2000.

**Selected Colorado River Publications**


Larry MacDonnell (University of Colorado)
Adjunct Professor of Law; Senior Fellow, Getches-Wilkinson Center for Natural Resources, Energy and the Environment

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Research Interests and Background

Professor MacDonnell's research and writing focus on water, natural resources and the environment, with a particularly focus on strategies for making development and use of natural resources more environmentally sustainable. He was the first director of the Natural Resources Law Center at the University of Colorado School of Law (now known as the Getches-Wilkinson Center for Natural Resources, Energy and the Environment), a position he held between 1983 and 1994. Between 1995 and 2009 he worked as an attorney and consultant in Boulder, Colorado. Most recently he was a professor at the University of Wyoming College of Law where he taught water law, public land law, and natural resources law. He has also been instrumental in the organization and establishment of community-based watershed protection and restoration groups including the Colorado Watershed Assembly and the Colorado Water Trust. His publications include numerous books, law review articles, other journal articles, and research reports. He has given over 250 invited presentations.

Selected Colorado River Publications


Jonathan Overpeck (University of Arizona)
Professor, Department of Geosciences and Department of Atmospheric Sciences

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Research Interests and Background

Professor Overpeck (“Peck”) is a climate scientist who has written over 180 papers on climate and the environmental sciences, served as a Coordinating Lead Author for the Nobel Prize winning IPCC 4th Assessment (2007), and also as a Lead Author for the IPCC 5th Assessment (2014). Other awards include the US Dept. of Commerce Gold Medal, a Guggenheim Fellowship, the Walter Orr Roberts award of the American Meteorological Society, and the Quivira Coalition’s Radical Center Award for his work with rural ranchers and land managers. Peck has active climate research programs on five continents, loves trying to understand drought and megadrought dynamics (and risk) the world over, and is also the lead investigator of CLIMAS and the SW Climate Science Center – two major programs focused on regional climate adaptation. He has appeared and testified before Congress multiple times, is a Fellow of the AAAS, and tweets about climate-related issues @TucsonPeck.

Selected Colorado River Publications


Professor Schmidt has devoted 30 years of research to the Grand Canyon and the Colorado River that flows through it, focused on the relationship of ecosystem health and the dams, reservoirs, and diversions associated with river management. He recently stepped down as chief of the U.S. Geological Survey's Grand Canyon Monitoring and Research Center, a position he had held since 2011. In both his university and government research, Schmidt has worked to encourage collaboration between federal and state agencies, tribal interests, non-governmental organization and academic institutions. He recently received the National Park Service’s Director’s Award for Natural Resource Research.

Selected Colorado River Publications


Brad Udall (Colorado State University)
Senior Water & Climate Research Scientist, Colorado Water Institute

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Research Interests and Background

Brad Udall has an extensive background in water and climate policy issues, including as Director of the Western Water Assessment (University of Colorado), as the first Director of the Getches-Wilkinson Center for Natural Resources, Energy and the Environment (University of Colorado), and currently as the first senior water and climate research scientist/scholar at the Colorado Water Institute (Colorado State University). He has written extensively on the impacts of climate change on water resources in the American West. He was the lead author of the water sector chapter of the Global Climate Change Impacts in the United States (2009), a publication of the United States Global Change Research Program, and was an author of the Western Water Assessment’s Climate Change in Colorado Report. He was formerly a consulting engineer and the managing partner at Hydrosphere Resource Consultants. The California Department of Water Resources awarded him its Climate Science Service Award for his work in facilitating interactions between water managers and scientists, and the Department of Interior bestowed the Partner in Conservation Award on the Western Water Assessment for his work on the groundbreaking 2007 EIS on Colorado River shortages and coordinated reservoir operations. He has an engineering degree from Stanford and an MBA from Colorado State University.

Selected Colorado River Publications


Reagan M. Waskom (Colorado State University)
Director, Colorado Water Institute

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Research Interests and Background

Dr. Waskom currently serves as the Director of the Colorado Water Institute and as Director of the Colorado State University Water Center, where his responsibility is to address water research and information needs for the State of Colorado. His current research focus is on agricultural water conservation in the Colorado River basin, surface and groundwater interactions in the S. Platte Basin, and impacts of oil & gas production on water resources in Colorado. Past research activities include phosphorus runoff from irrigated fields, impacts of meadow management on stream water quality, irrigation management practices in Colorado, irrigation runoff, aquifer sensitivity and vulnerability, and producer adoption of BMPs. He is currently co-chair of the Agricultural Conservation workgroup, formed as a “next step” from the Colorado River Basin Water Supply and Demand Study.

Selected Colorado River Publications


