



## **DOUGLAS S. KENNEY, Ph.D.**

Natural Resources Law Center  
University of Colorado Law School (401 UCB)  
Wolf Law Building, Room 322J  
Boulder, CO 80309-0401  
(303) 492-1296 ■ [douglas.kenney@colorado.edu](mailto:douglas.kenney@colorado.edu)

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### **RESEARCH INTERESTS**

The design and functioning of institutional arrangements for the allocation, management and use of western US water resources, given stressors associated with population growth, climate variability and change, energy development, and other factors.

### **EDUCATION**

- Ph.D. University of Arizona, School of Renewable Natural Resources: Renewable Natural Resource Studies (Minor: Political Science)
- M.S. University of Michigan, School of Natural Resources: Natural Resource Policy and Administration
- B.A. University of Colorado, Department of Biology: Environmental, Population, and Organismic Biology

### **PROFESSIONAL EXPERIENCE**

**University of Colorado Law School, NATURAL RESOURCES LAW CENTER**, 1996 to present  
Director, Western Water Policy Program: 2007 to present  
Senior Research Associate: 2005 to present  
Research Associate: 1996 to 2005.

**University of Colorado Environmental Studies Program**  
Lecturer & Core Faculty Member: 2005 to present.

**Western Water Assessment, CU-CIRES/NOAA**  
Researcher: 2000 to present  
Deputy Director: 2005 to 2008  
Management Team: 2003 to 2005.

#### **Other University of Colorado Academic Affiliations:**

**Center for Science & Technology Policy Research (CU-CIRES):** Faculty Affiliate, 2003 to present

**Renewable and Sustainable Energy Initiative (RASEI),**  
Faculty Affiliate, 2008 to present

**Universities Council on Water Resources**, Lead CU Delegate (formerly Delegate), 2009 to present.

#### **Independent Consultant**, 1994 to 1996

ACF/ACT Comprehensive Study, Phase 2 – August 1995 to December 1996  
IDB Water Management Study – July to September 1995  
ACF/ACT Comprehensive Study, Phase 1 – March 1994 to June 1995.

**University of Arizona**, 1990 to 1993; Graduate Research Associate, 1990 to 1993

**MAJOR PUBLICATIONS**

- Kenney, Douglas S., and Robert Wilkinson (editors). *In press* [January 2012]. *The Water-Energy Nexus in the Western United States*. Cheltenham: Edward Elgar Publishing.
- Kenney, Douglas S., et al. 2011. *Relative Costs of New Water Supply Options for Front Range Cities: Phase 2 Report*. Report to the Colorado Water Conservation Board.
- Kenney, Douglas S. 2011. "The Water-Energy Nexus and the Downfall of the Supply-Side Paradigm." *The Water Leader*, Issue 3, pages 14-15. Institute of Water Policy, National University of Singapore.
- Kenney, Douglas S. 2010. *Rethinking the Future of the Colorado River. Interim Report of the Colorado River Governance Initiative*. Boulder: Natural Resources Law Center, Western Water Policy Program. <http://www.rlch.org/archive/wp-content/uploads/2010/12/CRGI-Interim-Report.pdf>
- Kenney, Douglas S., Michael Mazzone, and Jacob Bedingfield. 2010. Relative Costs of New Water Supply Options for Front Range Cities: Phase 1 Report." *Colorado Water*, 27:5(2-5), September/October. (A more detailed white paper also published online at [www.waterpolicy.info](http://www.waterpolicy.info))
- Kenney, Doug, Andrea Ray, Ben Harding, Roger Pulwarty, and Brad Udall. 2010. Rethinking Vulnerability on the Colorado River. *Journal of Contemporary Water Research & Education*, 144:5-10, March.
- Kenney, Doug. 2009. The Colorado River: What Prospect for "A River No More"? *in River Basin Trajectories: Societies, Environments and Development*, pages 123-146. Francois Molle and Philippus Wester (editors). CAB International: Wallingford, England.
- Kenney, Douglas S. 2008. History of River Governance in the United States. *in Sustainability in River Basins*, pp. 109-134. A. Dehnhardt and U. Petschow (editors). Munich: Oekom.
- Kenney, Douglas S., et al. 2008. Residential Water Demand Management: Lessons from Aurora, Colorado. *Journal of the American Water Resources Association*, 44(1):192-207, February.
- Klein, Roberta, and Doug Kenney. 2006. *Use of Climate Information in Municipal Drought Planning in Colorado*. WWA Research Report WWA01-06.
- Kenney, Douglas S. 2005. Prior Appropriation and Water Rights Reform in the Western United States. *in Water Rights Reform: Lessons for Institutional Design*, pages 167-182, Bryan R. Bruns et al. (editors). Washington, DC: International Food Policy Research Institute.
- Kenney, Douglas S. (editor). 2005. *In Search of Sustainable Water Management: International Lessons for the American West and Beyond*. Cheltenham: Edward Elgar Publishing.
- Kenney, Douglas. et al. 2004. *Evaluating the Use of Good Neighbor Agreements for Environmental and Community Protection*. Boulder, CO: Natural Resources Law Center, University of Colorado School of Law.
- Kenney, Douglas S., Roberta A. Klein, and Martyn P. Clark. 2004. Use and Effectiveness of Municipal Water Restrictions during Drought in Colorado. *Journal of the American Water Resources Association*, 40(1)77-87.
- Nichols, Peter D., and Douglas S. Kenney. 2003. Watering Growth in Colorado: Swept Along by the Current or Choosing a Better Line? *University of Denver Law Review*, 6(2):411-452, Spring.
- Mutz, Kathryn M., Gary C. Bryner, and Douglas S. Kenney (editors). 2002. *Justice and Natural Resources: Concepts, Strategies, and Applications*. Washington, DC: Island Press.
- Nichols, Peter D., Megan Murphy, and Douglas Kenney. 2001. *Water and Growth in Colorado: A Review of Legal and Policy Issues*. Boulder, CO: Natural Resources Law Center, University of Colorado School of Law.

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- Kenney, Douglas S. 2001. *Collaborative Water Development in Colorado: The Eagle River Assembly*. Report prepared for the Liz Claiborne / Art Ortenberg Foundation. <http://www.redlodgeclearinghouse.org/stories/eagle.pdf>
- Kenney, Douglas S. 2001. Collaborative Approaches to Environmental Protection: Exploring the Concerns of the Skeptics. in: *Managing Western Resources: The Emergence of Collaboration*, Matthew McKinney (editor).
- Kenney, Douglas S. 2000. *Are Community Watershed Groups Effective? Confronting the Thorny Issue of Measuring Success*. in: *Across the Great Divide: Explorations in Conservation and the American West*, pages 188-193. Philip Brick, Donald Snow, and Sarah Van de Wetering, eds. Washington, DC: Island Press.
- Kenney, Douglas S. 2000. Assessing the Effectiveness of Watershed Initiatives: The Current State of Knowledge. Report to the U.S. Environmental Protection Agency. Boulder, CO: Natural Resources Law Center, University of Colorado School of Law.
- Kenney, Douglas S. 2000. *Laws Influencing Community-Based Conservation in Colorado and the American West: A Primer*. Boulder, CO: Natural Resources Law Center, University of Colorado School of Law.
- Kenney, Douglas S., Sean McAllister, William Caile, and Jason Peckham. 2000. *The New Watershed Source Book*. Boulder, CO: Natural Resources Law Center, University of Colorado School of Law.
- Beaver, Elizabeth, Gary Bryner, Parke Godar, Ian Kalmanowitz, Doug Kenney, Kathryn Mutz, and Adam Peters. 2000. *Seeing the Forest Service for the Trees: A Survey of Proposals for Changing National Forest Policy*. Boulder, CO: Natural Resources Law Center, University of Colorado School of Law.
- Kenney, Douglas S. 2000. *Arguing About Consensus: Examining the Case Against Western Watershed Initiatives and Other Collaborative Groups Active in Natural Resources Management*. Boulder, CO: Natural Resources Law Center, University of Colorado Law School.
- Kenney, Douglas S. 1999. Historical and Sociopolitical Context of the Western Watersheds Movement. *Journal of the American Water Resources Association*, 35(3):493-503, June.
- Kenney, Douglas S., and William B. Lord. 1999. *Analysis of Institutional Innovation in the Natural Resources and Environmental Realm: The Emergence of Alternative Problem-Solving Strategies in the American West*. Boulder, CO: Natural Resources Law Center, University of Colorado School of Law.
- Tarlock, Dan, Sarah Van de Wetering, Lawrence MacDonnell, Douglas Kenney, Jo Clark, Curtis Brown, Charlene Dougherty, and Donald Glaser. 1998. *Water in the West: Challenge for the Next Century*. Report of the Western Water Policy Review Advisory Commission. June.
- Kenney, Douglas S., Gabriel D. Carter, and Joshua M. Kerstein. 1998. *Values of the Federal Public Lands*. Boulder, CO: Natural Resources Law Center, University of Colorado School of Law.
- Kenney, Douglas S., Kathryn M. Mutz, Frank Gregg, and Teresa Rice. 1998. *The State Role in Western Watershed Initiatives*. Boulder, CO: Natural Resources Law Center, University of Colorado School of Law.
- Kenney, Doug. 1997. *The Western Watershed Movement: A Primer*. Report of the Natural Resources Law Center (University of Colorado, Boulder). Prepared under contract to the U.S. Bureau of Reclamation, Department of the Interior.
- Kenney, Douglas S. 1997. *Resource Management at the Watershed Level: An Assessment of the Changing Federal Role in the Emerging Era of Community-Based Watershed Management*. with Appendix: *Regional Water Resources Management in the Western United States: A Historical Review of Institutional Issues and Experimentation*. Boulder, CO: Natural Resources Law Center, University of Colorado School of Law; and Denver, CO: Western Water Policy Review Advisory Commission, U.S. Bureau of Reclamation.

- Kenney, Douglas S. 1995. Institutional Options for the Colorado River. *Water Resources Bulletin*, 31(5):837-850, October.
- Lord, William B., James F. Booker, David M. Getches, Benjamin L. Harding, Douglas S. Kenney, and Robert A. Young. 1995. Managing the Colorado River in a Severe Sustained Drought: An Evaluation of Institutional Options. *Water Resources Bulletin*, 31(5):939-944, October.
- Lord, William B., and Douglas S. Kenney. 1995. Evaluation of Two Institutional Arrangements for Resolving Interstate Water Disputes. *in Water Quantity/Quality Management and Conflict Resolution: Institutions, Processes, and Economic Analyses*, pages 5-20. A. Dinar and E. Tusak-Loehman (editors). Westport, CT: Praeger.
- Lord, William B., and Douglas S. Kenney. 1993. Resolving Interstate Water Conflicts: The Compact Approach. *Intergovernmental Perspective*, 19(1):19-23, Winter.
- Kenney, Douglas S. 1993. *River Basin Administration and the Colorado*. Dissertation. School of Renewable Natural Resources, University of Arizona.
- Kenney, Douglas. 1991. Severe Sustained Drought in Arizona: An Examination of the Potential Impacts on Water Supplies and Demands. *in Severe, Sustained Drought in the Southwestern United States: Phase 1 Report*, pp. 172-202. Frank Gregg and David H. Getches (principal investigators). Tucson: University of Arizona, School of Renewable Natural Resources.
- Kenney, Douglas S., and Frank Gregg. 1991. From Fiat to Management: Interstate Water Allocation of the Delaware River During Periods of Scarcity. *in Institutional Response to a Changing Water Policy Environment*, Appendix E. Frank Gregg, Stephen M. Born, William B. Lord, and Marvin Waterstone (editors). Tucson: University of Arizona, Water Resources Research Center.

#### MISCELLANEOUS PUBLICATIONS (conference papers, consulting reports, newspaper articles)

- Klein, Roberta, and Douglas Kenney. 2009. *The Land Use Planning, Water Resources and Climate Change Adaptation Connection: Challenges and Opportunities -- A Review*. Western Water Assessment white paper.
- Kenney, Doug, Roberta Klein, and Christopher Goemans. 2009. Preliminary Findings from Western Water Assessment's "Water Rights and Climate Change Project." *Intermountain West Climate Summary*. March, 5(2).
- Kenney, D., R. Klein, C. Goemans, C. Alvord, and J. Shapiro. 2008. *The Impact of Earlier Spring Snowmelt on Water Rights and Administration: A Preliminary Overview of Issues and Circumstances in the Western States*. Western Water Assessment White Paper and Final Project Report.
- Kenney, Doug. 2008. Divining the Future, Dividing the River. *in Citizen's Guide to Colorado Climate Change*. Prepared by the Colorado Foundation for Water Education, for the Colorado Water Conservation Board.
- Kenney, Doug. 2007. Book Review of *Drought and Water Crises* (by Donald Wilhite). *Bulletin of the American Meteorological Society*, September.
- Kenney, Doug, Chris Goemans, Roberta Klein, Jess Lowrey, and Kevin Reidy. 2007. Residential Water Demand Management in Aurora: Learning from the Drought Crisis. *Colorado Water*. February/March, pp. 14-16.
- Kenney, Douglas S. 2005. *The Watershed Management Movement in the United States*. Paper prepared for the International Watershed Management Seminar; October 26, 2005; Seoul, South Korea.
- Kenney, Douglas S. 2005. Book Review of *Common Waters, Diverging Streams* (by Blomquist et al.). *Journal of the American Water Resources Association*, June, pp. 746-747.
- Kenney, Douglas. 2005. The Greenhouse Effect. *American Nurseryman*. 12(201):36-39, June 15.

- Kenney, Douglas S., and Doug Cannon. 2005. *Gila Box Area: Gila Box Riparian National Conservation Area, and the Fishhooks and Needle's Eye Wilderness Areas*. Boulder, CO: Natural Resources Law Center, University of Colorado School of Law.
- Udall, Brad, and Doug Kenney. 2005. *Drought, the Colorado River Compact and Your Water*. Ditch and Reservoir Company Alliance Report. Spring.
- Kenney, Douglas S., and Doug Cannon. 2004. *Saguaro National Park: Case Study*. Boulder, CO: Natural Resources Law Center, University of Colorado School of Law.
- Kenney, Douglas S. 2004. "Water, Growth, and the Future of Agriculture in the American West." *Prairie Peaks News*. October.
- Kenney, Douglas S. 2003. *Climate Information and Western Water Institutions: Round Pegs in Square Holes?* Paper presented at the "Insights and Tools for Adaptation: Learning from Climate Variability" conference, Washington, DC, November 18.
- Kenney, Douglas S. 2002. *Water Allocation Compacts in the West: An Overview*. Paper presented at the Law of the Aquifer conference, Gonzaga University School of Law, Spokane, WA, September 19.
- Kenney, Douglas S. 2002. "Water Can't be Used to Control Growth, but Growth has Profound Effects on Water." Special "perspective" article, commissioned and posted by *Headwaters News* (<http://www.headwatersnews.org/>) and the Writers on the Range series. July 17.
- Kenney, Douglas S. 2002. "Tapping out a Resource." Guest Opinion. *Boulder Sunday Camera*, January 27, page 2E.
- Kenney, Douglas S. 2001. *Two Decades of Water Law and Policy Reform: A Retrospective and Agenda for the Future*. Conference Report. Boulder, CO: Natural Resources Law Center, University of Colorado School of Law.
- Genskow, Kenneth D., and Douglas Kenney. 2000. "Building State-Local Watershed Partnerships." *River Voices*, 11(2):1, 4-9.
- Kenney, Douglas S. 1999. "Are Community-Based Watershed Groups Really Effective?: Confronting the Thorny Issue of Measuring Success." *Chronicle of Community*, 3(2):33-38. Publication of the Northern Lights Institute.
- Kenney, Douglas S. 1998. *Some Institutional Options for CALFED Program Implementation*. Report of the Natural Resources Law Center (University of Colorado, Boulder) prepared under contract to the CALFED Program and the Department of the Interior, Sacramento, CA, April 13.
- Kenney, Douglas S. 1998. *Design of a New Regional CALFED Environmental Restoration Implementation Organization: Preliminary Considerations*. Report of the Natural Resources Law Center (University of Colorado, Boulder) prepared under contract to the CALFED Program and the Department of the Interior, Sacramento, CA, February 3.
- Kenney, Douglas S. 1996. *Coordination Mechanisms for Interstate Water Resources -- An Overview of Lessons and Options with Potential Applicability to the ACT-ACF River Basins*. ACT/ACF Comprehensive Study report.

## TEACHING

- Water Resources and Environmental Sustainability* (formerly *Climate, Resources and Environmental Sustainability*) (ENVS 5810). Co-taught with John Pitlick and Martyn Clark, Spring 2003; and with John Pitlick, Spring 2004 and Fall 2004. Taught solo in Fall 2005, Spring 2007, Fall 2008, Fall 2009, and Spring 2011. University of Colorado, Environmental Studies Program.
- Independent Studies in Environmental Studies* (ENVS 5909). Supervised 4 students from Environmental Studies, Law, and Engineering on independent study projects. Spring 2008.
- Advanced Seminar in Natural Resources*. Co-taught with Gary Bryner and Kathryn Mutz. University of Colorado School of Law. Fall, 2001.

**STUDENT COMMITTEES**

Roberta Klein, M.S., Political Science (1998)  
 Tammi Laninga, M.S., Geography (circa 2000)  
 Ralph Longobardi, Ph.D., School of Public Affairs, CU-Denver (circa 2000)  
 Carly Jerla, M.S. Engineering (2005)  
 Jordan Clayton, Ph.D., Geography (2005)  
 Scott Coulson, M.S., Urban and Regional Planning (CU-Denver) (2005)  
 Michael Davidson, B.A., Honors Thesis, Environmental Studies (2006) (chair)  
 Elizabeth Russell, M.A., Geography (2006)  
 Laura Makar, M.S, Environmental Studies (with JD) (2008) (chair)  
 Josh Taylor, M.S., Environmental Studies (with JD) (2008)  
 Sarah Stapleton, Ph.D., Environmental Studies (2009)  
 Michael Mazzone, B.A., Honors Thesis, Geography (2010) (chair)  
 Luke Ward, Ph.D., Geography (2010)  
 Kelsey Cody, M.S., Environmental Studies (ongoing) (chair)  
 John Berggren, Ph.D., Environmental Studies (ongoing) (chair)  
 Crystal Bergemann, Ph.D., Environmental Studies (ongoing) (chair)

**PRESENTATIONS & OTHER SPEAKING ENGAGEMENTS**

“Cost of New and Conserved Water.” 22<sup>nd</sup> Annual South Platte Forum, Longmont, CO; October 20, 2011.

“Enhancing Water Conservation Through Improved Efficiency.” Presentation at the Johnson Foundation *Charting New Waters* Workshop, Denver, CO; October 18, 2011.

“Cost of Water Conservation on Colorado’s Front Range.” Presentation at the Annual Joint Conference of the American Water Works Association (Rocky Mountain Section) and the Rocky Mountain Water Environment Association, Loveland, CO; September 19, 2011.

“Policy and Legal Implications of Reduced Colorado River Flows.” Presentation at the Annual Conference of the Universities Council on Water Resources and the National Institutes of Water Resources (UCOWR/NIWR), Boulder, CO; July 12, 2011.

“How Does Climate Change Impact the Need for, and Direction of, Institutional Reform?” Presentation at the annual conference of the Natural Resources Law Center, Boulder, CO; June 9, 2011.

(Radio Guest). Featured interviewee on Colorado River issues. *How on Earth* program, KGNU (Denver-Boulder) radio, Boulder, CO; May 31, 2011.

“Water Conservation in the Gallatin Valley: Can We Afford It?” Keynote presentation at the annual meeting of the Greater Gallatin Watershed Council, Bozeman, MT; January 27, 2011.

“Rethinking the Future of the Colorado River.” Presentation to the Colorado River Water Users Association, Las Vegas, NV; December 16, 2010.

“Relative Costs of New Water Options on Colorado’s Front Range.” Presentation to the Colorado Water Institute Advisory Board, Denver, CO; November 5, 2010.

“Reinventing Governance: The Case of Western US Interstate River Basins.” Presentation to the Center for the Study of Conflict, Collaboration & Creative Governance *Reinventing Governance Conference*, University of Colorado, Boulder, CO; October 9, 2010.

“Colorado River Issues and Options: An Overview of the Colorado River Governance Initiative.” Presentation at the CLE Colorado Water Law Conference, Denver, CO; May 20, 2010.

(Panel Moderator and Program Co-Host). *Setting the Stage: Water, Energy and Climate Change Convening*. Presentation at the Carpe Diem Western Water and Climate Change Project, San Francisco, CA; March 2, 2010.

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- “Interstate Water Allocation in the United States.” Presentation to the General Institute for Water Planning (GIWP), People’s Republic of China, Beijing, China; October 27, 2009.
- “With Stupidity Comes Great Wisdom: The Growing Reach of the NRLC’s Western Water Policy Program.” Presentation at the University of Colorado Law School Colloquium, Boulder, CO; October 16, 2009.
- “The Last Drop: Colorado River Drought and Climate Change.” Presentation to the National Center for Atmospheric Research (NCAR) Journalism Fellows, Boulder, CO; August 19, 2009.
- “Some Lessons from Aurora’s Drought Response.” Presentation to the Boulder Water Resources Advisory Board, Boulder, CO; June 15, 2009.
- “Demand-Oriented Water Planning: What Would it Look Like?” Presentation to the Hydrologic Sciences and Water Resources Engineering Seminar Series, University of Colorado; April 22, 2009.
- “Residential Water Demand: Lessons from Aurora.” Presentation at the 2009 Colorado WaterWise Inaugural Event, *The Water Conservation Yardstick: Measuring Success*, Denver, CO; April 2-3, 2009.
- (Speaker and Program Co-Host). “Summary of Themes and Findings.” Carpe Diem Project — *Western Water and Climate Change: Federal Policy Convening*, Las Vegas, NV; March 6, 2009.
- “Voluntary Mechanisms for Coping with Scarcity and Managing Conflict.” Presentation at the Workshop on *Drought in a Changing Climate: Sharing Management Approaches*. Australian National University, Canberra, Australia; November 17, 2008.
- “Water Scarcity on the Colorado River.” Presentation to the Murray-Darling River Basin Commission, Canberra, Australia; November 19, 2008.
- “Success Stories in Urban Water Demand Management During Drought.” Presentation at the Governor’s Conference on *Managing Drought and Climate Risk*, Denver, CO; October 9, 2008.
- “Climate Change Adaptation and Water Rights.” Presentation at the Western Governors’ Association, Western States Water Council, and California Department of Water Resources *Climate Change Adaptation Policy Workshop*, Irvine, CA; September 25, 2008.
- “Statutory and Institutional Challenges to Climate Change Adaptation.” Presentation at the Carpe Diem’s New Mexico Convening: *Western Water and Climate Change*, Albuquerque, NM; May 29, 2008.
- “Interstate Water Apportionment: An Overview of Options and Examples.” Presentation at the Meeting of the Catawba-Wateree River Basin Commission, Huntersville, NC; February 8, 2008.
- “Climate and Management of the Colorado River: What Does the SSD Study Tell Us About Scenario Analysis?” Presentation on the annual conference of the American Geophysical Union, San Francisco, CA; December 11, 2007.
- “Climate Change and Water Resources: Trends, Projections, and Implications for the Western USA.” Presentation at the 64<sup>th</sup> Annual Conference of the National Congress of American Indians, Denver, CO; November 13, 2007.
- (Poster Presenter.) “Managing Residential Water Demand During Drought in Aurora.” South Platte Forum, Longmont, CO; October 24, 2007.
- “Collaboration and Restoration of the Colorado River Delta.” Presentation at the Boyd School of Law, University of Nevada conference: *Collaboration and the Colorado River*, Las Vegas, NV; October 12, 2007.
- “Residential Water Demand in Aurora, Colorado: Lessons Learned and Remaining Questions.” Presentation at the 2007 Regional Water Symposium of the Arizona Hydrological Society, Westin La Paloma Resort, Tucson, AZ; August 31, 2007.
- “Managing Residential Water Demand: Lessons from Aurora.” Presentation at the Center for Science and Technology Policy Research, University of Colorado, Boulder, CO, March 8, 2007.

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- “Informing and Influencing Western Water Management (in theory and practice): The Natural Resources Law Center.” Presentation at the Colorado Institute of Public Policy Conference: *Taking the Plunge—Research as a Tool for Stakeholders*, Copper Mountain, CO; October 2006.
- “Policy Considerations in the Development of a Regional Water Action Plan.” Presentation at the Meeting of the Western States Water Council and Western Governors’ Association, Washington, DC; March 27, 2006.
- “The Iron Triangle of the CBC Movement.” Presentation at the CBC Seminar Series, Colorado State University, Fort Collins, CO; March 8, 2006.
- (Keynote address). “The Watershed Management Movement in the United States: An Overview.” International Watershed Management Seminar National Assembly, Seoul, South Korea; October, 26, 2005.
- “Similarities and Differences between Western US and South Korean Water Issues.” Presentation to the Korean Water Resources Corporation (KOWACO), Seoul, South Korea; October 27, 2005.
- “Water’s for Fighting: Colorado River Case Study.” Presentation to the Office of Global Programs, NOAA, Silver Springs, MD; October 12, 2005.
- “Reconciling Science Supply and Demand in the Western Water Assessment.” Presentation at the SPARC workshop, Honolulu, HI, August 15, 2005.
- “Uneasy Times Along the Colorado River.” Presentation at the 30<sup>th</sup> Colorado Water Workshop, Gunnison, CO; July 28, 2005.
- “Assessing the Effectiveness of Lawn Watering Restrictions During the Drought of 2002.” Presentation at the Center for Science and Technology Policy Research conference *Science and Decision-Making*, University of Colorado, Boulder, CO; February 25, 2005.
- “Climate Change Impacts on the Green Industry.” Presentation at the *ProGreen Expo*, Colorado Convention Center, Denver; January 13, 2005.
- “The Future of Water Supply and Management in Colorado’s South Platte Basin: Modeling Results.” Presentation at the Annual Conference of the American Water Resources Association, Orlando, FL; November 1, 2004.
- “Modeling the Future of Water Resources in Colorado’s South Platte Basin: SPRAT.” Presentation at the 29<sup>th</sup> Annual Colorado Water Workshop, Gunnison, CO; July 29, 2004.
- “Public Roles in Addressing Water Scarcity Conflicts.” Presentation at the *Confronting Water Scarcity Conference*, Lethbridge, Ontario (Canada); July 15, 2004.
- “Trends in US Environmental Performance.” Presentation to the Organization for Economic Cooperation and Development (OECD), Denver, CO; June 2, 2004.
- “Colorado Water Restrictions Study.” Presentation at the American Water Works Association. *Water Sources conference*, Austin, TX; January, 14, 2004.
- “Lessons from Variability: Observations from the Recent Drought in Colorado.” Presentation at the NOAA Climate Adaptations Workshop, Washington, DC; November 18, 2003.
- “Water Politics in a Drought Year: What Did the Colorado Legislature Do in 2003?” Presentation at the 28<sup>th</sup> Annual Colorado Water Workshop, Gunnison, CO; July 23, 2003.
- “Quenching Colorado’s Thirst: What Did the Legislature Do in 2003?” Presentation at the Conference of the Colorado Municipal League, Pueblo, CO; June 19, 2003.
- (Conference Host.) “Water, Climate and Uncertainty: Implications for Western Water Law, Policy, and Management.” 24<sup>th</sup> Summer Conference of the Natural Resources Law Center, University of Colorado; June 11-13, 2003.
- “Overview of South Platte Water Issues.” Presentation at the conference on *Assessing the Impacts of Prolonged Severe Drought on Aquatic Ecosystems and Water Quality of the South Platte River Basin, Colorado*, Colorado State University, Fort Collins, CO; April 3, 2003.

- (Moderator.) "Water in the West." National conference of the American Planning Association, Denver, CO; April 1, 2003.
- "Building Regional Research Capacity: The Western Water Assessment Perspective." Presentation at the Regional Integrated Sciences and Assessments (RISA) National Program Meeting, convened by NOAA Office of Global Programs, Scottsdale, AZ; March 12, 2003.
- "Water Rights in the Western United States." Presentation at the *International Workshop on Water Rights*. Organized by the International Food Policy Research Institute, the Asian Development Bank, and others, Hanoi, Vietnam; February 13, 2003.
- "Municipal Response to Drought in Colorado, Summer 2002." Presentation at the Western Water Assessment lecture series, NOAA Offices, Boulder, CO; November 22, 2002.
- "Interstate Water Agreements from Around the United States." Presentation at the *Law of the Aquifer* conference, Gonzaga University School of Law; September 19, 2002.
- "Regional Compacts and Conflicts: Implications for the Tribes." Presentation at the *Conference on Tribal Water Rights*, organized by the Great Plains Office of the Bureau of Indian Affairs, Pierre, SD; August 28, 2002.
- "Adapting for Sustainability: Can Western Water Law and Policy and the Management of Water Resources be Ecologically and Economically Sustainable?" Presentation at the Conference of the Western Knight Center for Specialized Journalism, University of Southern California, Los Angeles, CA; June 28, 2002.
- (Keynote Address) "Building the Foundations for Successful Water Management." *Water Summit VIII*, organized by the Southwest Georgia Water Resources Task Force, Darton College, Albany, GA; June 20, 2002.
- (Poster Session Presenter.) "Impacts of Climate Variability on Western USA Water Resources." Prepared in conjunction with Susan Avery, Martyn Clark, Chris Goemans, Rutherford Platt, Andrea Ray, Robin Webb, and Connie Woodhouse. Presented at the *Environmental Summit of the West II*, sponsored by the Western Governors' Association and the Council on Environmental Quality, Salt Lake City, UT; April 24-26, 2002.
- "Myths, Misperceptions, and Fightin' Words in Western Water Management." Presentation to the Department of Environmental Analysis and Design, School of Social Ecology, University of California, Irvine; April 15, 2002.
- "Water Resources Decision-Making in Colorado in a Period of Growth and Climate Change." Presentation to the Center for Science and Technology Policy Research, University of Colorado; March 8, 2002.
- "Growth, Water, Climate and Western Water Assessment Partnerships." Presentation at the University of Colorado Law School; February 22, 2002.
- (Host) "The Federal Land Policy and Management Act in a Changing West: A Balancing Act Turns 25." Presentation at the University of Colorado Law School; November 15, 2001.
- (Guest Lecturer) "Ability of the Prior Appropriation Doctrine to Address Social, Economic and Environmental Needs of Colorado Citizens." Presentation at the *Water Resources Seminar* (GS 592), Colorado State University, Fort Collins, CO; October 9, 2001.
- "An Examination of the South Platte Water Situation." Presentation at the review of the Western Water Assessment of the Cooperative Institute for Research in the Environmental Sciences (CIRES) contract with the Office of Global Programs, National Oceanic and Atmospheric Administration; University of Colorado, Boulder, CO; September 25, 2001.
- "Climate Variability and Human Adaptation: Some Thoughts on the Water Law and Policy Environment." Presentation at the *Climate and Water Policy Workshop*, sponsored by the University of Washington, Skamania Lodge, WA; July 16, 2001.
- "How Instream Flow Protection is (and is not) Accomplished in the West: Lessons for the East." Presentation at *The Future of Flow: Instream Flow Protection Issues and Approaches in the*

*Eastern United States* (an event of the National Parks and Conservation Association), Morgantown, WV, April 19, 2001.

“Modern Collaborative Efforts in Western Water Management: Have We Moved Beyond the Water Wars?” Presentation at the *Distinguished Speaker Series* of the Institute of Environment and Natural Resources, University of Wyoming, Laramie, WY; April 9, 2001.

“Water and Growth in Colorado.” Presentation at the *Environmental and Behavior Lecture Series*, sponsored by the Institute for Behavioral Studies, University of Colorado, Boulder, CO; February 5, 2001.

“Law and Policy Across the Great Divide: The Upper Colorado and South Platte River Systems.” Presentation at the lecture series of the Cooperative Institute for Research in Environmental Sciences, University of Colorado, Boulder, CO; December 15, 2000.

“Overview of Observed Trends in Watershed Partnerships in the Western United States.” Presentation at the 8<sup>th</sup> biennial conference of the Watershed Management Council, Asilomar, CA; November 29, 2000.

“Defining and Measuring Success in Community Based Environmental Management.” Presentation at the 22<sup>nd</sup> annual conference of the Association for Public Policy Analysis and Management (APPAM), Seattle, WA; November 3, 2000.

“Collaborative Approaches to Solving Complex Water Issues: The Challenge of ESA Compliance.” Presentation at the Annual Conference and Exposition of the American Water Works Association, Denver, CO, June 13, 2000.

“State Approaches to Watershed Management: Transferring Lessons Between the Northeast and Southwest.” Paper presented (by co-author Sarah Michaels) to the *Watershed Management 2000 Conference*, American Society of Civil Engineers; June 21, 2000.

(Moderator – multiple sessions). *Water and Growth in the West*, 21<sup>st</sup> Annual Conference of the Natural Resources Law Center, Boulder, CO; June 7–9, 2000.

(Guest Lecturer) “The Role of Science in Natural Resources Governance and Community-Based Initiatives.” *Governance and Natural Resources* (PSCI 5108) seminar, University of Colorado Department of Political Science, Boulder, CO; November 15, 1999.

“Western Watershed Initiatives: What We Think We Know.” Presentation at the *California Watershed Management Forum*, organized by the California Watershed Council, Davis, CA; September 1, 1999.

“History of Western Water Law and Policy.” Presentation at the Southwest Earth Studies Program; Fort Lewis College; Durango, CO; June 29-30, 1999.

“Collaboration: Values and Limits.” Presentation at *Strategies in Western Water Law and Policy — Courts, Coercion and Collaboration*, Natural Resources Law Center, University of Colorado School of Law, Boulder, CO; June 11, 1999.

(Moderator.) “Hot Topics”: Acid Mine Drainage Issues in the San Juan Mountains. Denver, CO; May 4, 1999.

(Moderator.) “Hot Topics”: Ongoing Efforts at Lynx Reintroduction in Southwestern Colorado. Denver, CO; March 30, 1999.

(Moderator.) “Hot Topics”: Current Ballot Items Pertaining to Regulation of Large-scale Hog Farms in Colorado. Denver, CO; October 20, 1998.

(Moderator.) “Hot Topics”: Review of Recent Supreme Court Cases Pertaining to Takings and Property Rights Issues. Denver, CO; September 15, 1998.

“What’s At Stake: The Challenge of the West.” Presentation at the *Southeast Water Resources: Management and Supply* conference, sponsored by the University of Tennessee, Chattanooga, TN; August 24, 1998.

- “The Western Watershed Movement.” Presentation at *Watershed Management: Moving From Theory to Implementation*, sponsored by the Water Education Foundation, Denver, CO; May 4, 1998.
- (Moderator) Natural Resources Law Center conference on *Dams: Water and Power in the New West*. Boulder, University of Colorado, Boulder, CO; June 4, 1997.
- “Overview of Findings of the Western Water Policy Review Advisory Commission.” Presentation to the American Water Resources Association, Keystone, CO; June 1, 1997.
- “The Relationship between the Watershed Movement and Public Participation.” Presentation to the International Association of Public Participation, Boulder, CO; May 20, 1997.
- (Moderator.) “Hot Topics”: Mineral Development in Federal-Protected Areas, Denver, CO; May 2, 1997.
- “Federal Role in Western Watershed Initiatives.” Report to the Western Water Policy Review Advisory Commission, Boulder, CO; April 17, 1997.
- (Moderator.) “Hot Topics”: Federal Divestiture of Water Projects, Denver, CO; March 31, 1997.
- “Lessons of Success and Failure in Watershed Initiatives.” Presentation to the Upper Arkansas Watershed Council, Salida, CO; February 6, 1997.
- “Western Climate Variability.” Presentation at the 6<sup>th</sup> Annual *Global Change and Environmental Quality Program Symposium*, Boulder, CO; April 26, 1996.
- Research Presentations to Stakeholders. Approximately 10 major presentations to stakeholder groups in Alabama, Georgia, and Florida during 1995 and 1996 in conjunction with the *ACT/ACF Comprehensive Study*.
- “Resolving Interstate Water Allocation Conflicts: Tools, Strategies, and Administrative Options.” Presentation at the Southern Regional Information Exchange Group annual conference, Natural Resources Economics Committee (SRIEG-10), Auburn University; Auburn, AL, May 18, 1995.
- “Institutional Options for the Colorado River.” Presentation at the 29<sup>th</sup> Annual Conference of the American Water Resources Association, Tucson, AZ; August 31, 1993.

### **SELECTED CONSULTATIONS AND ADVISORY POSITIONS (since 1999)**

- Strategic Planning Advisor to the Great Western Institute. Summer, 2010.
- Advisory Board member for the *Climate Change Law and Policy Reporter*, a production of the Argent Communications Group. May 2008 to present.
- Project Team Member for Carpe Diem West, an initiative examining the relationship between western water and climate change. 2007 to present.
- Editorial Board Member for the on-line journal *Water Alternatives* ([www.water-alternatives.org](http://www.water-alternatives.org)), 2007 to present.
- Workshop Participant to “Energy and Water in a Warming World: Informing Sustainable Energy Choices” workshop convened by the Union of Concerned Scientists. November 18-20, 2009; Racine, WI.
- Workshop Participant and Outside Advisor to the General Institute for Water Planning (GIWP) (People’s Republic of China) and the World Wildlife Fund exploring options for interstate/inter-provincial water allocation and basin planning. Beijing, China; October 26-27, 2009.
- Workshop Participant and Advisor to the *Multi-state Transportation Institutions Roundtable* (studying institutional options for the I-95 Corridor expansion). June 2009, Washington, DC.
- Advisor to “Water in 2025” project of the Colorado Institute of Public Policy. 2005. (CIPP Faculty Affiliate, 2006 to 2007.)
- Member of the Coordinated Research Consortium for the Colorado River Delta. Participated in first meeting (August 8-9, 2005) in Tucson.

- Member of the NOAA-funded CU-CIRES program entitled, "Western Water Assessment" (formerly Western Water Initiative) focused on the relationship between research applications in the field of climate change/variability and the challenges of water management in the American West. 2000 to present.
- Research team member on a project "Future of the Rangelands," sponsored primarily by CUBES (Columbia University/UNESCO Joint Program on Biosphere and Society). Involved in meetings throughout Kenya during the week of October 6-16, 2002.
- Workshop participant for a project designing an "Integrated South Platte Assessment." Meeting organized by Colorado State University, the U.S. Geological Survey, the Natural Resource Ecology Laboratory, and the Western Water Assessment. Pingree Park, Colorado; September 29 – October 1, 2002.
- Workshop Participant and Advisor to the U.S. Environmental Protection Agency regarding methods for evaluating watershed partnerships. November 5-6; 2001; Washington, DC.
- Workshop Participant and Advisor to the Liz Claiborne Art Ortenberg Foundation's "Workshop on Collaborative Resource Management in the Interior West." October 18-22, 2001; Red Lodge, Montana.
- Workshop Participant and Advisor to the Tellus Institute and Water Environment Research Foundation project addressing "Global Lessons for Watershed Management in the United States," October 14, 2001; Atlanta, Georgia.
- Program advisor to the School and Institute of Environment and Natural Resources, University of Wyoming. Laramie; April 10, 2001.
- Workshop participant for a project on collaborative natural resources problem-solving. Convened by the Bolle Center for the Liz Claiborne-Art Ortenberg Foundation. Salmon Lake, Montana; March 30 - April 1, 2001.
- Member of an advisory group convened for the William and Flora Hewlett Foundation on the Evaluation of Collaborative Ecosystems Initiatives. Palo Alto, California. March 5, 2001.
- Member of the Advisory Group for the National Watershed Forum, organized by the Meridian Institute under contract with EPA (beginning December, 2000).
- Participant in the "Watershed Researchers Workshop," organized jointly by the University of Wisconsin and Trout Unlimited. Madison, Wisconsin. July 20-21, 2000.
- Participant at the meeting of the Policy Analysis Advisory Board of the U.S. Forest Service. Santa Fe, New Mexico. June 26-28, 2000.
- Member of Advisory Committee associated with the group producing "A Guide to Environmental Advocates Considering Collaborative Approaches to Resources Management," co-sponsored by The Wilderness Society and Audubon Society, and convened by the Institute for Environmental Negotiation, University of Virginia. Participated in committee meeting at Rex Ranch (near Tucson, Arizona); May 18-19, 2000.
- Advisor to the U.S. Forest Service Collaborative Stewardship Task Force; meeting of May 22-24, 2000; Washington, DC.
- Consulting Scholar for the "Water in the West" public radio series, produced by KGNU Boulder County Community Radio. (1999-2000).
- Steering Committee member for the Consortium for Research and Assessment of Community-Based Collaboratives, headquartered at the Institute for Environmental Negotiation, University of Virginia. (1999 to 2001).
- Workshop Participant and Project Advisor leading to publication of "Reclaiming NEPA's Potential: Can Collaborative Processes Improve Environmental Decision-Making?" Event and publication organized jointly by the O'Conner Center for the Rocky Mountain West and the Institute for Environment and Natural Resources, University of Wyoming. Workshop held at Florissant, CO; March 20-23, 1999.