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Strategies in Western Water Law and Policy:
Courts, Coercion and Collaboration (Summer
Conference, June 8-11)

1999

6-8-1999

AGENDA: Strategies in Western Water Law and Policy: Courts, Coercion and Collaboration

University of Colorado Boulder. Natural Resources Law Center

University of Colorado Boulder. Center of the American West

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STRATEGIES IN WESTERN WATER LAW AND POLICY: COURTS, COERCION AND COLLABORATION

TUESDAY, JUNE 8, 1999

6:30-9:30pm Conference Pre-registration

A FREE PUBLIC FORUM:

CO-SPONSORED BY THE CENTER OF THE AMERICAN WEST

7:00pm **Western Water Policy Review Advisory Commission: An Agenda for Action**

Secretary of the Interior Bruce Babbitt

Denise Fort, Chair, Western Water Policy Review Advisory Commission

Craig Bell, Executive Director, Western States Water Council

William deBuys, Author of Salt Dreams: Land and Water in Low-Down California

WEDNESDAY, JUNE 9, 1999

8:30-9:30 Continental Breakfast and Registration

9:30-9:45 Welcome and Logistics

Kathryn Mutz, Interim Director, Natural Resources Law Center

SESSION 1:

THE NINETIES: MAJOR DEVELOPMENTS IN WESTERN WATER LAW

Moderator: Gary Bryner, Director-Designate Natural Resources Law Center

9:45-10:30 **The Nineties: Major Developments In Western Water Law**

David Getches, Raphael J. Moses Professor of Natural Resources Law

10:30-11:30 **Western Water and the Environment**

Patricia Beneke, Assistant Secretary of the Interior for Water and Science

11:30-11:45 Discussion

11:45-1:00 Buffet Lunch Provided

SESSION 2:

CONTENTION IN THE COURTS

Moderator: Kathryn Mutz, Interim Director, Natural Resources Law Center

1:00-1:30 **Colorado Water Courts: Where Are They?**

Judge Jonathan Hays, Division 1 Water Court

1:30-2:00 **Colorado Water Courts: Are They Changing?**

Justice Gregory Hobbs, Jr., Colorado Supreme Court

2:00-2:30 **Colorado Water Courts: Should They Change?**

Melinda Kassen, Trout Unlimited

2:30-2:45 Discussion

2:45-3:15 Break

3:15-4:00 **Basin-Wide Adjudications in the West: What Works, What Doesn't?**

Ramsey Kropf, Special Master, Big Horn River Adjudication, Patrick & Stowell, P.C.

4:00-4:45 **Do Basin-Wide Adjudications Work, for Tribes or Anyone Else?**

Reid Chambers, Sonosky, Chambers, Sachse and Endreson

4:45-5:00 Discussion

EVENING EVENT:

6:15 Buses leave Law School

6:30-8:00 Barbecue on Flagstaff Mountain

8:00-8:45 **Reflections from the Downstream West**

William deBuys, New Mexico

THURSDAY, JUNE 10, 1999

8:00-8:30 Coffee/Tea

SESSION 3:

SNAKE RIVER BASIN ADJUDICATION: A WINDOW ON THE FUTURE OF WESTERN WATER LAW

Moderator: Charles Wilkinson, Moses Lasky Professor of Law

8:30 - 9:00 **Reflections on the Snake River**

Charles Wilkinson, Moses Lasky Professor of Law

9:00-9:45 **Federal Water Rights in the Snake River Basin Adjudication**

Michael Gheleta, General Litigation Section, Environment and Natural Resources Division, Department of Justice

9:45-10:30 **Indian Water Rights and the Snake River Basin Adjudication**

Peter Monson, Assistant Chief, Indian Resources Section, Environment and Natural Resources Division, Department of Justice

10:30-11:00 Break

11:00-11:45 **Idaho's Snake River Basin Adjudication: A Window on Western Water Law**

Jeffrey Fereday, Givens & Pursley, LLP

11:45-12:00 Discussion

12:00-1:00 Lunch on Your Own

SESSION 4:

CHANGING FACE OF COMMAND-AND-CONTROL

Moderator: James Corbridge, Jr., Professor, University of Colorado School of Law

1:00-1:30 **The Clean Water Act: Clean Water Action Plan**

Sylvia Baca, Acting Assistant Secretary of the Interior for Land and Minerals Management

1:30-2:00 **The Clean Water Act: TMDL Implementation Under the Clean Water Act**

Bruce Zander, TMDL Coordinator, Region 8, Environmental Protection Agency

2:00-2:30 **The Clean Water Act: States' Perspectives**

David Holm, President for National Association of State and Interstate Water Pollution Control Administrators, Colorado Department of Public Health and Environment

2:30-3:00 Discussion

3:00-3:30 Break

SESSION 5:

A NEW BREED OF FEDERAL BUREAUCRACY

Moderator: James Corbridge, Jr., Professor, University of Colorado School of Law

3:30-4:15 **The ESA: Oil and Water?**

Joseph Sax, Boalt Law School, University of California

4:15-5:00 **Federal Facilitation of Water Rights Negotiations in the West**

David Hayes, Counselor to the Secretary and Chair of the Working Group on Indian Water Settlements, Department of the Interior

EVENING EVENT:

5:00-6:30 Reception on the West Lawn

Sponsored by Hydrosphere Resource Consultants

COLLABORATION IN WESTERN WATER

FRIDAY, JUNE 11, 1999

7:30 - 8:15 Coffee/Tea
Registration

SESSION 6:

COLLABORATION: VALUE AND LIMITS

Moderator: Douglas Kenney, Natural Resources Law Center

- 8:15 - 8:30 Welcome and Introduction
Douglas Kenney, Natural Resources Law Center
- 8:30 - 9:15 **Collaborative Approaches to Conservation: A Critical Look**
Larry MacDonnell, Stewardship Initiatives
- 9:15 - 9:45 **Regional Water Planning in Texas**
John Folk-Williams, Public Decisions Network
- 9:45 - 10:15 Break
- 10:15 - 10:45 **An Environmental Perspective on Collaboration in Large Ecosystem Restoration Processes**
Daniel Luecke, Regional Director, Environmental Defense Fund
- 10:45 - 11:15 **Native Americans and Collaborative Efforts**
Ted Strong, Columbia River Intertribal Fish Commission
- 11:15 - 11:30 Discussion
- 11:30 - 12:15 Buffet Lunch Provided
- 12:15 - 1:15 **Collaboration in the Making of Natural Resource Policy in the West**
Michael Leavitt, Governor of Utah

SESSION 7:

THE PLATTE RIVER WATERSHED: COLLABORATION IN CONTEXT

Moderator: David Getches, Raphael J. Moses Professor of Natural Resources Law

- 1:15 - 1:45 **A Laboratory for Collaboration: Where, Why and Why Not?**
*Ken Salazar, Attorney General, Colorado, with
Felicity Hannay, Deputy Attorney General, Natural Resources and Environment Section, and
Steve Sims, First Assistant Attorney General, Colorado*
- 1:45 - 2:15 **Platte River Endangered Species Partnership: Collaboration or Coercion in Disguise?**
Dale Strickland, Executive Director, Platte River Endangered Species Partnership
- 2:15 - 3:15 **Nebraska v. Wyoming: The End of Collaboration?**
*Wendy Weiss, First Assistant Attorney General, Federal and Interstate Water Unit, Colorado
James Montgomery, Moses, Wittemyer, Harrison & Woodruff for Wyoming
Ann Bleed, State Hydrologist, Nebraska*
- 3:15 - 3:45 Break
- 3:45 - 4:15 **Collaboration Among Municipal Water Providers: Meeting Metro Water Demand**
Lee Rozaklis, Hydrosphere Resource Consultants
- 4:15 - 4:45 **A Western Slope Perspective: Endangered Species and Municipal Water**
David C. Hallford, General Counsel, Colorado River Water Conservation District
- 4:45 - 5:15 Discussion and Closing Remarks

STRATEGIES IN WESTERN WATER LAW AND POLICY: COURTS, COERCION AND COLLABORATION

TWENTIETH ANNUAL SUMMER CONFERENCE

sponsored by the
NATURAL RESOURCES LAW CENTER
University of Colorado School of Law

June 8-11, 1999

CONFERENCE ORGANIZERS AND SESSION MODERATORS

GARY C. BRYNER is the director-designate for the Natural Resources Law Center (NRLC). Bryner comes to NRLC after serving 17 years at Brigham Young University (BYU), where he was the director of the Public Policy Program since 1991. In addition to holding a law degree from BYU, he also possesses a Ph.D. in Government from Cornell University and a B.A. and M.S. in Economics from the University of Utah. Bryner's wide array of publications include work in the areas of air pollution and global environmental issues, and his more thematic works examine the interplay of science, law, markets, administrative behavior, and regulatory policy.

Bryner is no stranger to NRLC; he served as NRLC's El Paso Energy Corporation Law Fellow in the spring of 1997, during which he studied issues of mineral development in federal protected areas. He has also been involved in various ways with several other research institutions, including the Brookings Institution, the National Academy of Public Administration, and the Natural Resources Defense Council. In these and many other positions, Bryner has not only distinguished himself as a gifted scholar and teacher, but also as a thoughtful and responsible colleague able to build upon NRLC's tradition of honest and balanced research, broadly focused collaborations, and service to diverse constituencies.

JAMES N. CORBRIDGE, JR. has been an accomplished professor of law at the University of Colorado at Boulder since 1973. He has served the University in various capacities over the years, including several teaching positions, Vice President for Student and Minority Affairs, Interim Vice Chancellor for Academic Services, Vice Chancellor for Academic Affairs and Dean of Faculties, and Chancellor from 1986 to 1994. As Chancellor, Corbridge supervised the management of nine schools and colleges, nine major research institutes and laboratories, an annual budget of \$400 million, and a student enrollment of approximately 25,000. Corbridge received an A.B. from Brown University in English and American Literature, and an LL.B. from

Yale Law School. He has been a visiting scholar at the University of Linköping in Sweden, and at the Institute for Advanced Legal Studies at the University of London in England.

Corbridge has authored several scholarly works, including *Water Resources Management: A Casebook in Law and Public Policy* (with Tarlock and Getches, 1993), edited "The Mineral Law Newsletter" for the Rocky Mountain Mineral Law Foundation, and presented numerous lectures at conferences and commencements. He is presently a member of a myriad of boards, and chairman of several. When not teaching or engaging in a multitude of activities, Corbridge enjoys his home in Boulder, Colorado.

DAVID H. GETCHES is the Raphael J. Moses Professor of Natural Resources Law at the University of Colorado School of Law. He teaches, writes and consults on matters related to water, public lands, environmental and American Indian law. Getches has authored or co-authored ten books and numerous articles and book chapters. His work appears in scholarly and popular sources.

In 1983, Governor Richard D. Lamm appointed Getches executive director of the Colorado Department of Natural Resources, a post which he held until 1987. The Department includes ten divisions that deal with land, wildlife, parks, water and minerals. During his tenure on the cabinet, Getches spoke out on the importance of recreation and wildlife to the state's economy, worked on new approaches to funding parks and fish and wildlife programs, urged expansion of designated wilderness areas, and advocated water conservation and groundwater reform.

Getches was the founding executive director of the Native American Rights Fund (NARF). He developed the staff, funding and program of this national, non-profit law firm, and worked on several significant cases involving water rights, treaty fishing and hunting rights, environmental issues, land claims, education and civil rights on behalf of Native American clients throughout the West.

Currently, Getches chairs the Board of Trustees of the Grand Canyon Trust and the Board of Directors of the Land and Water Fund of the Rockies (LAW Fund) and is a trustee of the Rocky Mountain Mineral Law Foundation. He also is on advisory boards and committees for several organizations including American Rivers, River Network, the Center for Natural Resources and Environmental Law (CEDARENA) in Costa Rica, the Natural Resources Law Center and the Colorado Journal of International Law and Policy. He is Secretary of Agriculture Dan Glickman's designee to the Farm Bill Task Force on Water Rights. In the past Getches has served on the Colorado Water Conservation Board, Colorado River Salinity Control Forum, Colorado Ground Water Commission, Colorado Commission of Indian Affairs, Colorado Mined Land Reclamation Board and Rocky Flats Environmental Monitoring Council.

Getches speaks and consults widely with governmental agencies and non-governmental organizations throughout the United States and in several foreign countries.

DOUGLAS S. KENNEY joined the research staff of the Natural Resources Law Center (NRLC) in July of 1996. He has a broad interdisciplinary background in natural resources, beginning with a B.A. in Environmental, Population and Organismic (EPO) Biology from the University of Colorado in 1987, an M.S. in Natural Resources Policy and Administration from the University of Michigan's School of Natural Resources in 1989 and a Ph.D. in Renewable Natural Resources Studies from the University of Arizona's School of Renewable Natural Resources in 1993. Prior to joining the NRLC, he was employed as an independent consultant, primarily working on the Alabama-Coosa-Tallapoosa and Appalachicola-Chattahoochee-Flint (ACT/ACF) River Basin study in the southeastern United States.

KATHRYN M. MUTZ, a native of Colorado, joined the staff of the Natural Resources Law Center (NRLC) in September 1996 with a background in both law and natural resources management. Presently Mutz is NRLC's interim director. She holds a B.A. in Geography from the University of Chicago, an M.S. in Biology/Ecology from Utah State University, and a J.D. from the University of Colorado, concentrating in natural resources and environmental law. For the 12 years preceding law school, Mutz worked throughout the West for state and federal government and private industry on scientific and public policy issues related to natural resource development. As a biologist she specialized in wetlands, endangered species and reclamation of disturbed lands. At the NRLC her work focuses on forestry, minerals and environmental justice issues. She has authored several publications ranging from government reports on rare plants and riparian communities to a book chapter on state-federal interactions in coal mining program administration and an article on home rule city regulation of oil and gas development.

CHARLES F. WILKINSON (B.A. Denison University; LL.B. Stanford University) is the Moses Lasky Professor of Law at the University of Colorado School of Law. He was formerly Professor of Law at the University of Oregon and staff attorney with the Native American Rights Fund. His books include *Federal Public Land and Resources Law*, (3rd ed. 1993) (with Coggins and Leshy); *Cases and Materials on Federal Indian Law* (3rd ed. 1994) (with Getches and Williams); *Land and Resource Planning in the National Forests* (1987) (with Anderson); *American Indians, Time and the Law - Native Societies in a Constitutional Democracy* (1987), *The Eagle Bird - Mapping A New West* (1992); and *Crossing the Next Meridian - Land, Water and the Future of the West* (1992). He has received teaching awards from students at Colorado, Michigan and Oregon. He received the University of Oregon's Faculty Excellence Award in 1986 and the University of Colorado's Overall Faculty Excellence Award in 1988. The National Wildlife Federation awarded him its 1990 National Conservation Achievement Award.

CONFERENCE SPEAKERS

BRUCE BABBITT was sworn in as 47th Secretary of the Interior on January 22, 1993. Babbitt was Governor of Arizona for nine years, 1978–1987, and Attorney General of Arizona, 1975–1978. In 1988, he was a candidate for the Democratic Party nomination for President of the United States.

Born June 27, 1938, Babbitt grew up in Flagstaff, Arizona, where his family pioneered a ranching and trading business in the 1880s. After graduating from the University of Notre Dame, where he was Student Body President, he received a Masters degree in Geophysics from the University of Newcastle in England, which he attended as a Marshall Scholar. He graduated from Harvard Law School in 1965.

Babbitt, who was in the private practice of law at the time of his nomination to be Interior Secretary, also was national president of the non-partisan, non-profit League of Conservation Voters. In 1978, he served as a member of the Presidential commission to investigate the nuclear accident at Three Mile Island. He was a founding member of the Democratic Leadership Council and served as chairman of the Democratic Governors Association in 1985. He has been a member of the Advisory Council on Intergovernmental Relations and was a member of the Council on Foreign Relations and the Grand Canyon Trust.

Described by the *Almanac of American Politics* as one of America's "most original" governors, his advocacy led to passage of a nationally acclaimed state water management code in 1980, and in 1986 of a water quality act described by the *Los Angeles Times* as perhaps "the nation's toughest law to protect underground water."

Babbitt's wife, Harriet, also an attorney, has been appointed Ambassador to the Organization of American States. They have two children, Christopher and T.J.

SYLVIA V. BACA is presently the Acting Assistant Secretary for Land and Minerals Management for the United States Department of the Interior. Ms. Baca was named Deputy Assistant Secretary of the Interior for Land and Minerals Management in January 1995 and Acting Assistant Secretary in November 1998. In that position she has direct supervisory responsibility for three principal bureaus of the Department of the Interior: the Bureau of Land Management, the Minerals Management Service and the Office of Surface Mining Reclamation and Enforcement.

Her duties include policy and management direction for: maintenance, preservation and public use of 270 million acres of onshore public land; mineral development of the 1.4 billion acre Outer Continental Shelf; and regulatory activities governing surface mining and reclamation.

From January 1997 to August 1997, Ms. Baca served as the Acting Director of the Bureau of Land Management, where she was responsible for leadership and management of an agency of 10,000 employees, a budget of \$1.2 billion, and a statutory mandate for the maintenance of 270 million acres of public lands and 570 million acres of subsurface minerals.

A native of New Mexico, Ms. Baca served in a variety of posts in state government in Santa Fe and municipal government in the City of Albuquerque prior to joining the Department of the Interior. She is a graduate of the University of New Mexico and holds a Master's degree in Public Administration.

D. CRAIG BELL is the executive director for the Western States Water Council. Bell graduated with honors from the University of Utah Law School in 1973, where he served as a member of the Board of Editors of the *Utah Law Review*. Bell joined the Western States Water Council in 1974 as Assistant Director, and has been involved in many activities concerning federal/state relations in water law. He has written several briefs which have been endorsed and filed by many of the western states before the United States Supreme Court in water rights litigation. On November 1, 1980, Bell was appointed as Executive Director of the Council where he supervises the staff work of analyzing and evaluating developments in a broad range of water policy issues affecting the sixteen states affiliated with the Council, and responding to those developments as directed by the Council's representatives.

PATRICIA J. BENEKE was confirmed as Assistant Secretary for Water and Science in December 1995. Prior to this time she had served as Deputy Assistant Secretary for Water and Science, and Associate Solicitor for Energy and Resources at the U.S. Department of the Interior.

Ms. Beneke came to the Department of the Interior after serving as a counsel to the Senate Committee on Energy and Natural Resources for over seven and one-half years. Prior to that time, from 1983 to 1985, she was a litigation associate at the law firm of McDermott, Will & Emery; from 1981 to 1983 she was Trial Attorney for the Land and Natural Resources Division of the United States Department of Justice; and from 1979 to 1980 she served as an attorney advisor in the Office of the General Counsel of the United States Department of Agriculture. Her expertise includes policy and legal issues relating to energy and natural resources, western water matters, public lands, and the environment.

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Ms. Beneke resides in McLean, Virginia, with her husband and their two daughters.

ANN SALOMON BLEED was born and raised in New York but since 1972 has been living in Lincoln, Nebraska, with her husband and two sons, who are now fledged from the nest. Since 1988 she has been the State Hydrologist with the Nebraska Department of Water Resources. Before that she was an assistant professor at the University of Nebraska, Lincoln. Ms. Bleed has a Ph.D. from the University of Wisconsin and Master's degrees from Pennsylvania State University and the University of Nebraska. She is a registered professional engineer in Nebraska. In her spare time she serves on the Lincoln-Lancaster County Planning Commission.

REID PEYTON CHAMBERS is a founding partner of Sonosky, Chambers, Sachse & Endreson, which began in 1976. Chambers received a B.A. from Amherst College in Political Science, a M.A. from Oxford University in Politics, Philosophy and Economics, and a J.D. from Harvard University. He also served two years as an editor of the *Harvard Law Review*.

After his studies, Chambers worked for the Washington, D.C. law firm of Arnold and Porter for three years, and then was an acting professor at the UCLA School of Law for three years where he taught Real Property, Administrative Law, Legal Process and Federal Indian Law. He also taught a seminar in Federal Indian Law as an adjunct professor at Antioch Law School, and at Georgetown University Law Center, where he still teaches today.

From 1973 to 1976, Chambers was the Associate Solicitor for Indian Affairs at the United States Department of the Interior. In 1988, he was the Chapman Distinguished Visiting Professor at Tulsa Law School and taught Federal Indian Law and American Legal History.

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WILLIAM ENO DEBUYS, JR. is a writer and conservationist based in Santa Fe, New Mexico. Born and raised in Baltimore, Maryland, deBuys graduated with highest honors from the University of North Carolina at Chapel Hill in 1972.

Later that year he moved to northern New Mexico to work as a research assistant for Dr. Robert Coles of Harvard University, becoming a long-term student of southwestern environments and cultures. In 1979 he entered the graduate program of the Department of American Civilization at the University of Texas, Austin. He was awarded an M.A. in December 1980 and a Ph.D. in May 1982.

In June 1982 he became director of the North Carolina Nature Conservancy in Chapel Hill, North Carolina. His subsequent work for The Nature Conservancy and for The Conservation Fund in North Carolina, Arizona, and New Mexico has led to the protection of public and private lands totaling over 150,000 acres. At present, deBuys directs The Conservation Fund's Valle Grande Grass Bank, a cooperative effort involving ranchers, conservationists, and public agency personnel in the rehabilitation of public rangelands in northern New Mexico.

DeBuys' first book, *Enchantment and Exploitation: The Life and Hard Times of a New Mexico Mountain Range* (University of New Mexico Press), combines the cultural and natural history of northern New Mexico. *Enchantment and Exploitation*, now in its sixth printing, won a Southwest Book Award in 1986 and was hailed by the New York Review of Books as "elegant, eloquent, and continuously informative."

Receipt of a Lyndhurst Prize in 1986 allowed deBuys to return to New Mexico and to write *River of Traps*, a collaboration with photographer Alex Harris which combines memoir, biography and photography in an intimate view of life in a northern New Mexico village. *River of Traps* was listed among the *New York Times* Notable Books of 1990 and was one of three finalists for the 1991 Pulitzer Prize in general non-fiction.

DeBuys' third book, *Salt Dreams: Land and Water in Low-Down California*, is an environmental and social history of the land where the Colorado River comes to an end—the former Colorado Desert stretching from Palm Springs south through the Imperial Valley to the head of the Gulf of California in Mexico. *Salt Dreams* will be published in the fall of 1999 by University of New Mexico Press. DeBuys' shorter work has appeared in a variety of publications including *DoubleTake*, *High Country News*, *Audubon*, *New York Times Book Review*, *Geo*, *Northern Lights* and *Story*.

DeBuys lives in Santa Fe where he divides his time between writing, conservation work and civic duties. He spends his free time in El Valle, New Mexico on the small farm described in *River of Traps*.

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WILLIAM ENO DEBUYS, JR. is a writer and conservationist based in Santa Fe, New Mexico. Born and raised in Baltimore, Maryland, deBuys graduated with highest honors from the University of North Carolina at Chapel Hill in 1972.

Later that year he moved to northern New Mexico to work as a research assistant for Dr. Robert Coles of Harvard University, becoming a long-term student of southwestern environments and cultures. In 1979 he entered the graduate program of the Department of American Civilization at the University of Texas, Austin. He was awarded an M.A. in December 1980 and a Ph.D. in May 1982.

In June 1982 he became director of the North Carolina Nature Conservancy in Chapel Hill, North Carolina. His subsequent work for The Nature Conservancy and for The Conservation Fund in North Carolina, Arizona, and New Mexico has led to the protection of public and private lands totaling over 150,000 acres. At present, deBuys directs The Conservation Fund's Valle Grande Grass Bank, a cooperative effort involving ranchers, conservationists, and public agency personnel in the rehabilitation of public rangelands in northern New Mexico.

DeBuys' first book, *Enchantment and Exploitation: The Life and Hard Times of a New Mexico Mountain Range* (University of New Mexico Press), combines the cultural and natural history of northern New Mexico. *Enchantment and Exploitation*, now in its sixth printing, won a Southwest Book Award in 1986 and was hailed by the New York Review of Books as "elegant, eloquent, and continuously informative."

Receipt of a Lyndhurst Prize in 1986 allowed deBuys to return to New Mexico and to write *River of Traps*, a collaboration with photographer Alex Harris which combines memoir, biography and photography in an intimate view of life in a northern New Mexico village. *River of Traps* was listed among the *New York Times* Notable Books of 1990 and was one of three finalists for the 1991 Pulitzer Prize in general non-fiction.

DeBuys' third book, *Salt Dreams: Land and Water in Low-Down California*, is an environmental and social history of the land where the Colorado River comes to an end—the former Colorado Desert stretching from Palm Springs south through the Imperial Valley to the head of the Gulf of California in Mexico. *Salt Dreams* will be published in the fall of 1999 by University of New Mexico Press. DeBuys' shorter work has appeared in a variety of publications including *DoubleTake*, *High Country News*, *Audubon*, *New York Times Book Review*, *Geo*, *Northern Lights* and *Story*.

DeBuys lives in Santa Fe where he divides his time between writing, conservation work and civic duties. He spends his free time in El Valle, New Mexico on the small farm described in *River of Traps*.

JEFFREY C. FEREDAY is a partner with the Boise, Idaho, law firm of Givens Pursley LLP. Fereday has an undergraduate degree in political science from Columbia University and a law degree from Northwestern School of Law of Lewis & Clark College. He was associate editor of *Environmental Law* while at the Law School. He is admitted to practice in Idaho, Washington and Colorado. Before joining Givens Pursley in 1985, Fereday worked as a staff attorney in the Interior Department Solicitor's Office in Washington, D.C., and as an associate with the Denver firm of Davis, Graham & Stubbs.

Fereday served as the Idaho State Bar Association's representative on the Board of Trustees of the Rocky Mountain Mineral Law Foundation and is the Idaho Reporter for the Rocky Mountain Mineral Law newsletter. He served on the Governor's Irrigation Water Conservation Task Force, the Department of Water Resources' Advisory Committee on Conjunctive Groundwater-Surface Water Management Rulemaking, and the Special Steering Committee of the Snake River Basin Adjudication. He is past President of the Idaho State Bar Association's Water Law Section. Fereday practices primarily in the areas of water, natural resources and environmental law. He has litigated numerous cases in state and federal courts in these areas, and has written extensively in the water and environmental law fields. Fereday frequently gives speeches and seminars on these subjects, and is listed in the "Best Lawyers in America" in the fields of environmental and natural resources law.

JOHN A. FOLK-WILLIAMS, from 1982 to 1998, served as a full-time partner of Western Network, a non-profit organization dedicated to neutral intervention in disputes about natural resources and the environment in the western states. Folk-Williams now has an independent practice in San Antonio, Texas, and is also affiliated with the national dispute resolution services provider, Public Decisions Network.

His areas of special expertise include water resources, water and air quality regulation, Native American rights, forestry and cross-cultural process design. Folk-Williams has written three books and numerous shorter studies on decision-making and conflict resolution about water resources in the western states. In collaboration with the Russian American Program on Conflictology, he designed a Center for Public Involvement Training and Practice in St. Petersburg, Russia, and currently serves as a senior mediator on an USAID-sponsored project dealing with domestic water issues in several countries of the Middle East.

Major water resource cases include four successive projects dealing with various aspects of water management in the Edwards Aquifer region of south central Texas. Currently, he is working as a facilitator and public involvement specialist for the North East Texas Regional Water Planning Group and as facilitator for the South Central Texas Regional Water Planning Group. Past projects include several dealing with water quality issues in New Mexico and Arizona, including facilitation of the public involvement process for the Arizona triennial review of surface water

quality standards. Folk-Williams co-facilitated a national air quality regulatory negotiation for the development of the small off-road engine program.

His major areas of practice include: environmental and natural resources mediation, public policy dialogue facilitation, regulatory negotiation, community participation in public agency planning and decision-making, and cross-cultural communication.

DENISE D. FORT is a member of the faculty of the University of New Mexico's School of Law. She has been a member of the New Mexico Bar since 1976. Professor Fort has extensive experience in environmental and natural resources law and policy. She served as chair of the Western Water Policy Review Advisory Commission, a Presidential commission that prepared a report on western water policy concerns. She is also a member of the National Research Council's Water, Science, and Technology Board. In earlier positions, Fort served as director of New Mexico's Environmental Improvement Division, as a staff representative to the National Governors Association, as an environmental attorney, and in other capacities concerned with environmental and natural resource matters.

Another area of experience and research has been governmental finance. Fort was the secretary of New Mexico's Finance and Administration Department, and a special assistant attorney general in the state's Taxation and Revenue Department. She has written and lectured on the subject of economic development.

Fort received her B.A. from St. John's College (Annapolis and Santa Fe, New Mexico) and her J.D. from the Catholic University of America's School of Law.

MICHAEL A. GHELETA is a trial attorney with the United States Department of Justice, Environment and Natural Resources Division, General Litigation Section, in its Denver field office. His practice focuses on litigation of water rights, public lands, and environmental issues in federal and state courts throughout the western United States. Among his clients are the Forest Service, Bureau of Land Management, National Park Service, Fish and Wildlife Service, and Bureau of Reclamation. He also represents top federal officials in natural resources litigation, including the Secretary of the Interior and the President, whom he is currently defending in litigation challenging creation of the Grand Staircase-Escalante National Monument in Utah.

He received a B.A. in Political Science from the University of California, Berkeley in 1982, a J.D. from the University of Colorado School of Law in 1988, and an M.A. in Political Science with an emphasis in environmental policy from Colorado State University in 1988. During 1989 and 1990, he was an associate in the Water and Power Section of the Sacramento, California, law firm of McDonough, Holland and Allen. He began his career with the Justice Department in 1990 in its Sacramento field office handling litigation of reclamation law issues associated with the Central Valley Project. Since moving to the Justice Department's Denver field office he has

emphasized litigation of federal reserved water rights in comprehensive water adjudications. Between 1995 and 1996, he served as associate director of the Natural Resources Law Center at the University of Colorado School of Law.

Gheleta has been an avid white water river rafting guide for over twenty years, and has guided two first descents of rivers in southwestern China in recent years. He has also recently published a law review article on Chinese water law, environmental policy, and river preservation, and has lectured in China on the subject.

DAVID C. HALLFORD has served as General Counsel for the Colorado River Water Conservation District in Glenwood Springs, Colorado, since August 1993. The "River District" is the major water policy organization for western Colorado; its mission is to protect and promote the development of the state's Colorado River Compact entitlement and current and future beneficial uses of water within the District.

He holds a J.D. from the University of Denver College of Law, and a B.A. in English and Speech from Oklahoma Panhandle State University. From 1980 to 1993, Hallford was a private practitioner in Denver, Colorado, and represented private and municipal clients concerning water rights and related matters. Also, from 1984 to 1993, he was an instructor at the University of Denver College of Law, teaching Colorado Water Law, a CLE program.

Hallford grew up in Oklahoma and Northern New Mexico, and became a Colorado resident in 1977. He is married and has two children.

FELICITY HANNAY was appointed by Colorado Attorney General Ken Salazar in January 1999 as Deputy Attorney General for Natural Resources and Environment. She supervises approximately 40 lawyers who represent the environmental agencies, boards, and commissions within the Colorado Department of Public Health and Environment and Department of Labor, and the water and other natural resource agencies, boards, and commissions within the Colorado Department of Natural Resources.

Ms. Hannay obtained her undergraduate degree in 1969 from Vassar College, and her law degree in 1975 from Boalt Hall School of Law, University of California at Berkeley. Her first law job was with the Denver law firm of Davis, Graham & Stubbs LLP where she started as an associate straight out of law school in 1975, became a partner in 1981, and stayed until she joined the Colorado Attorney General's Office in 1999—a rare story these days! Then and now, her practice has been in the area of natural resources law including water law, mining law, public land law, environmental law, and land use law.

Ms. Hannay has written for and spoken at a number of conferences on natural resources law subjects, particularly water law and water quality law. She is a past trustee and an active participant on several working committees of the Rocky Mountain Mineral Law Foundation,

is a past Vice-Chairman for Environmental Affairs of the Colorado Mining Association, and is a member of the Advisory Board for the *Water Law Review* of the University of Denver College of Law.

From April 1993 through March 1999, Ms. Hannay served as a member of the Jefferson County (Colorado) Planning Commission (Chairman 1995-96). Partly as a result of that experience, in 1998 Ms. Hannay embarked upon a master's degree program in urban and regional planning at the University of Colorado at Denver, a project which she is still pursuing, but slowly. Ms. Hannay is married to Denver lawyer James F. Wood, and has two daughters, aged 13 and 15. She spends her spare time in the car.

DAVID J. HAYES is the Acting Deputy Secretary of the Interior, pending his confirmation by the United States Senate.

As the Acting Deputy Secretary, Mr. Hayes is the second in command at the Department of the Interior. He is responsible for assisting Secretary Babbitt in supervising and administering the Department's bureaus and offices, including the National Park Service, the U.S. Fish and Wildlife Service, the Bureau of Reclamation, the U.S. Geological Survey, the Bureau of Indian Affairs, the Bureau of Land Management, and the Minerals Management Service. The Department has a total of approximately 70,000 employees, and an annual budget of approximately \$8 billion dollars.

Mr. Hayes also has responsibility for addressing legal and policy issues of special importance to the Department. By way of example, Mr. Hayes led the Department team that acquired the Headwaters old-growth redwood forest in northern California. He also is leading Department initiatives related to the Lower Colorado River (including southern California, Nevada and Arizona water supply issues), salmon recovery, hydro power regulation, Indian water rights matters and a number of eco-system projects, including the Salton Sea (CA), Trinity River (CA), Walker Lake (NV), and others.

Before entering the administration in early 1997, Mr. Hayes practiced law for nearly twenty years in the environmental and natural resources field. Immediately prior to his federal service, he was a partner in the Washington, D.C. office of the national law firm of Latham & Watkins where he chaired the office's environmental department. Mr. Hayes is a former chairman of the board of the Environmental Law Institute, a non-profit research and publication center for environmental law and management professionals.

Mr. Hayes received an A.B. from the University of Notre Dame in 1975, summa cum laude, and a J.D. from Stanford Law School in 1978. He clerked for Judge William Jones and Judge Louis Oberdorfer on the United States District Court for the District of Columbia. He lives in Arlington, Virginia with his wife, Elizabeth, and their three children.

JONATHAN W. HAYS became a Weld County Court judge in 1973 and district judge in 1975. He was one of the two public defenders who opened the Greeley office in January 1970 and later served as a deputy district attorney until his appointment to the bench. Judge Hays currently hears 40 percent of the felony criminal cases, and is Water Judge for Water Division 1.

J. DAVID HOLM is the incoming president of the Association of State and Interstate Water Pollution Control Administrators. He is also the director of the Colorado Water Quality Control division of the Colorado Department of Public Health and Environment.

MELINDA KASSEN opened Colorado's Western Water Project office in June 1998. Her water experience began with the Colorado Attorney General, where she represented water quality and water rights clients, including the Water Conservation Board for its instream flow program. Ms. Kassen next worked at the Environmental Defense Fund, Rocky Mountain office. There, she split her practice between the Water Program, where she was involved in the fight to stop Two Forks Dam, and the Federal Facilities Program. Her years at EDF also included a one-year sabbatical during which she taught Environmental and Administrative Law courses at the University of Denver Law School. Ms. Kassen left EDF to serve as Environmental Counsel to the House Armed Services Committee during the 103rd Congress. After two years in Washington, she returned to Colorado to work for ICF Kaiser International, an environmental engineering firm, primarily on the clean-up of the former Rocky Flats nuclear weapons production site.

She started her legal career trying domestic violence cases in Los Angeles. Born and raised in Cleveland, Ohio, she attended Dartmouth College and Stanford Law School.

RAMSEY LAURSOO KROPF is an attorney at Patrick & Stowell, P.C., a Colorado law firm with its practice limited to water law. She also serves as the Special Master for the Fifth Judicial District Court in Wyoming's Big Horn River General Adjudication, acting as a judicial officer and conducting hearings as necessary in the adjudication. The Big Horn River Adjudication has and continues to determine the water rights for thousands of water users, including rights of the Wind River Reservation.

Prior to her work in Wyoming, Ms. Kropf assisted John Thorson as case administrator and staff attorney in the Arizona General Stream Adjudication. While in law school, Ms. Kropf worked as a research assistant to Professor David Getches.

She is a member of the American Bar Association, the ABA section on Natural Resources and Environment Water Committee, the Wyoming Bar Association, the Colorado Bar Association, and the Pitkin County Bar Association.

Ms. Kropf received her joint J.D./M.B.A. degree from the University of Colorado in 1991. Her B.S. was earned at the University of Denver, where she majored in marketing. She is admitted to the bar in Arizona, Wyoming, and Colorado.

MICHAEL O. LEAVITT, since being elected governor in 1993, has enhanced education, reformed welfare, expanded health care, protected open space, renovated highways, cut taxes, and led the state in an era of unprecedented prosperity.

Utah was named the best managed state in America by *Financial World Magazine* in 1995. One year later, Governor Leavitt was reelected by the largest margin in Utah history. He is a co-founder of Western Governors University, which unites 18 states to deliver higher education through technology. He negotiated the biggest public land exchange in the continental United States since the Louisiana Purchase, benefitting Utah school children and protecting spectacular land throughout the state.

A leader in western politics, Governor Leavitt became chairman of the National Governors' Association in 1999. He has chaired the Western Governors' Association, Republican Governors' Association, and has been president of the Council of State Governments. He is leading the effort to establish a Western States Primary to give the West a stronger voice in national politics.

The governor is married to Jacalyn Smith Leavitt, and they are the parents of five children.

DANIEL F. LUECKE is the senior scientist with the Environmental Defense Fund and director of its Rocky Mountain Regional office. A graduate of Notre Dame, he completed his Ph.D. in Environmental Sciences at Harvard University. He worked as a senior environmental engineer with a Cambridge, Massachusetts environmental firm and taught at Harvard University's Center for Studies in Education and Development. His articles have appeared in numerous publications on resource use, environmental management and mathematical modeling of public policy issues.

Luecke has served on several advisory committees including the following: Colorado Water Resources Research Institute Advisory Committee on Water Policy Research; Denver Metropolitan Water Roundtable; California Department of Water Resources Technical Advisory Committee on Desalination; Advisor to the Food and Agriculture Organization of the United Nations; and EPA Integrated Environmental Management Program Advisory Committee. He currently serves as president of the board of the Colorado Conservation Foundation and of the High Country News Foundation. He is also on the advisory boards of the Colorado Journal of International Environmental Law and Policy and the Colorado State University Environment and Natural Resources Institute, and is the chair of the executive committee of the Colorado Environmental Caucus.

The Environmental Defense Fund is a charitable, non-profit, public membership organization composed of scientists, lawyers, economists, educators and other concerned citizens dedicated to the protection and enhancement of human health and the environment through research and education and through judicial, legislative and administrative action. Organized under the laws of the state of New York, EDF maintains regional offices in Boulder, Colorado; Washington, D.C.; New York City; Oakland, California; Raleigh, North Carolina, and Austin, Texas. EDF has over 300,000 active members nationwide.

LAWRENCE J. MACDONNELL is an attorney and consultant in Boulder, Colorado. He has more than 20 years experience working on a wide range of natural resources issues including water, public lands, oil and gas and mining. Much of this work has involved market-based approaches for achieving environmental and resource objectives. Much also has focused on policy analysis related to resources use and protection. He has worked internationally and across the U.S., with special attention to natural resources issues in the American West. He combines a Ph.D. in mineral economics from the Colorado School of Mines with a J.D. from the University of Denver College of Law. His undergraduate degree is from the University of Michigan.

MacDonnell returned to private practice in 1995 after 11 years as the director of the Natural Resources Law Center at the University of Colorado School of Law. While Center director, he taught courses at the law school in water law, public land law, oil and gas law and mining law. As the Center's first director, he shaped and developed its activities to include a variety of conferences and workshops, a visiting scholar's program, and an extensive program of funded research and publication. While at the Center, MacDonnell served as principal investigator for 19 funded research projects, with grants from seven different foundations and six different government agencies.

He has more than 40 publications, including books, law review articles and articles in other journals. He has authored or co-authored 26 research reports and given over 100 invited presentations. Clients in 1996 and 1997 include: the Metropolitan Water District of Southern California, the German Foundation for International Development, the Bureau of Land Management, the San Diego County Water Authority, the Western Water Policy Review Advisory Commission, the U.S. Fish and Wildlife Service, the Southwest Florida Water Management District, the California Business Roundtable and the National Forum on Nonpoint Source Pollution.

PETER C. MONSON is an assistant section chief of the Indian Resources Section and the managing attorney of the Denver Field Office, Environment and Natural Resources Division, U.S. Department of Justice. He has been a trial attorney with the Indian Resources Section since his graduation from Northwestern School of Law of Lewis and Clark College in Portland, Oregon, in 1982. He received his undergraduate degree from Williams College, Williamstown,

Massachusetts, in 1979. He has represented the United States in the *Snake River Basin Adjudication (SRBA)* since its inception in 1987, and has been involved in numerous other cases representing the United States as trustee for Indian tribes, many of which involve Indian water rights and Indian fishing rights. He was awarded the Attorney General's John Marshall Award in 1995 for his work on the *SRBA* and *United States v. Washington*.

KEN SALAZAR is a fifth generation Coloradoan elected as the 36th Colorado Attorney General in November, 1998. As Colorado Attorney General, he oversees the Colorado Department of Law and works on behalf of the people of the State of Colorado on many legal issues including water and environmental, criminal justice, and consumer protection matters. As Attorney General, he also serves on the Colorado Water Conservation Board and is chairman of the Peace Officer Standards and Training Board.

Salazar and his family have been ranchers and farmers in the San Luis Valley since the 1850s. He attended St. Francis Seminary and graduated from Centauri High School in 1973, received his political science degree from Colorado College in 1977, and his law degree in 1981 from the University of Michigan. He also received an honorary doctorate of laws from Colorado College in 1993.

Salazar has been a farmer, natural resources lawyer, and small business owner in Colorado. He has served as chief legal counsel to the Governor (1987-1990), executive director of the Department of Natural Resources (1990-1994), and chairman of the Rio Grande Compact Commission. Salazar has also practiced water, environmental and public lands law for eleven years at the Denver law firms of Sherman & Howard and Parcel, Mauro, Hultin & Spaanstra.

As executive director of the Colorado Department of Natural Resources, Salazar managed a \$90 million budget and two thousand employees with responsibilities over Colorado's land, water, wildlife, mineral resources, and state parks and trails. He worked to protect Colorado's water, crafted legislative reforms in mining and oil and gas, and created the Youth in Natural Resources program where hundreds of Colorado's youth have had the opportunity to work and learn about natural resources. Salazar was one of the architects of the Great Outdoors Colorado Trust and served as the first chairperson of the Great Outdoors Colorado Board until March 1994.

Salazar has served on many boards and commissions including the Colorado Water Conservation Board, the Local Government Mineral Impact Fund Advisory Committee, the State Board of Equalization, and selection committees for Denver District Attorney, United States Attorney, and Federal District Court judges in Colorado. He has also served on many nonprofit boards including the University of Colorado Natural Resources Law Center Advisory Board, the American-Israel Friendship League, and the Board of Director of one of Denver's public non-commercial FM radio stations. Salazar is a member of the American Farmland Trust President's Council.

He has been active in bar association activities and has served as second vice-president of the Denver Bar Association. Ken and his wife, Hope, have two daughters, Melinda, age 11, and Andrea, age 10.

JOSEPH L. SAX is the James H. House & Hiram H. Hurd Professor at the University of California, Berkeley, School of Law (Boalt Hall), where he has served since 1986. He is a graduate of Harvard College and University of Chicago Law School.

He practiced law in Washington, D.C., and has been on the faculties of the University of Colorado and the University of Michigan. He served as counselor to the Secretary of the Interior in 1994-6. He is a fellow the American Academy of Arts and Sciences, and holds an honorary degree, Doctor of Laws, from Chicago-Kent College of Law. Among other awards, he has received the Elizabeth Haub Award (Gold Medal) from the Free University of Brussels, the Professional Achievement Citation of the University of Chicago, the Distinguished Faculty Achievement Award from the University of Michigan, the Resource Defense Award from the National Wildlife Federation, and the William O. Douglas Legal Achievement Award from the Sierra Club.

Sax is the author of many articles and several books, including *Defending the Environment, Mountains Without Handrails, Legal Control of Water Resources* (co-author), and *Playing Darts With A* (forthcoming, July 1999).

He teaches courses on water law, federal land law, the public trust, and the takings doctrine.

STEVE SIMS is the First Assistant Attorney General supervising the Water Unit of the Colorado Attorney General's Office. The Water Unit represents the State and Division Engineers, the Groundwater Commission, Well Driller's Board, the Colorado Water Conservation Board, the Division of Wildlife, the Division of Parks and Outdoor Recreation and a dozen other state agencies with water rights issues. Currently the six attorneys in the Water Unit handle over 1000 active cases. Sims has been with the Attorney General's Office since 1989 and has been licensed to practice law in Colorado since 1979. He is lead counsel in the *Union Park* litigation and has tried over 30 water law cases and has been counsel of record in a number of Colorado Supreme Court appeals including *Board of County Commissioners of Arapahoe County v. United States*, *Thornton v. Bijou*, *Midway Ranches* and *Turkey Canon Ranch*. Sims received his B.A. from the University of Colorado in 1975 and his J.D. from the University of Puget Sound in 1979. He is married to Karen Burns and lives in Boulder with his three horses and two German Shepherd dogs.

DALE STRICKLAND received a Ph.D. in Zoology from the University of Wyoming, an M.S. in Wildlife Biology and B.S. in Zoology from the University of Tennessee. Dr. Strickland is vice president and senior ecologist for Western EcoSystems Technology, Inc. in Cheyenne, Wyoming. Prior to starting WEST, Inc. with his partner Dr. Lyman McDonald, he worked for the Game and Fish Department for more than 16 years. Dr. Strickland also served on the faculty of the University of Wyoming, Department of Statistics and is adjunct faculty at the university. He is a certified senior ecologist by the Ecological Society and a certified wildlife biologist by The Wildlife Society. While with the Wyoming Game and Fish Department he served as Wyoming's representative on the Central Flyway Council and the Interagency Grizzly Bear Committee and served as chair and vice chair of both groups. Dr. Strickland is currently serving as the executive director for the Platte River Endangered Species Partnership, implementing the cooperative agreement among the states of Nebraska, Wyoming, Colorado, and the United States Department of Interior.

TED STRONG has served as the executive director of the Columbia River Inter-Tribal Fish Commission for 10 years. The Commission is a professional agency owned by four Columbia River Treaty Tribes and provides such services as: litigation support, hydrology, legislative analysis, policy review, public relations, economics, genetics, computer modeling, environmental sciences and Native American rights protection. Strong provided powerful and articulate cultural advocacy for preserving and protecting salmon and natural resources reserved by the Columbia River Treaty Tribes in treaties with the United States. This advocacy represented tribal spiritual values and practices that evolved and were perfected over thousands of years. Artful portrayals of timeless indigenous knowledge combined with precise interpretations of federal and state policy contributed to consensus building in an unprecedented fashion. Strong created and implemented scientific management principals and programs that raised the effectiveness, productivity and efficiency of CRITFC to the highest professional standards.

Strong's consulting company, Ted Strong Associates, provides such services as: tribal tax codes, finance and investments, economic development, forestry management, business feasibility studies, grant writing, capital formation and international trade.

He is active on numerous environmental boards and has received several appointments, including a 1993 appointment by President Clinton to serve on the President's Council on Sustainable Development, a 1995 appointment by the EPA administrator to serve on the Grand Canyon Visibility Transport Commission, and a 1996 appointment by the Secretary of the State to serve as an alternate commissioner to the Pacific Salmon Commission for a four-year term.

WENDY WEISS has been with the Colorado Attorney General's office since 1980. She has a bachelor's degree in Philosophy from Tufts University, and earned her J.D. from Boston University. Before joining the Attorney General's office, Weiss clerked for Judge Zita Weinshienk in the Denver District Court. She then worked for the Environmental Protection

Agency in Denver for three years. Weiss is now the First Assistant Attorney General for the Federal and Interstate Water Unit.

BRUCE ZANDER is an environmental engineer for the Office of Ecosystems Protection and Remediation for the U.S. Environmental Protection Agency, Region VIII. Prior to working for the U.S. EPA, Zander worked for private consulting engineering firms in the western United States as well as the U.S. Department of Agriculture/Soil Conservation Service in Colorado. He has worked for the Environmental Protection Agency in Denver, Colorado since 1975 as an environmental engineer and has been involved in many phases of water quality assessment and modeling on a practical basis.

Zander is currently classified by the U.S. EPA as a national expert for the Clean Water Act program on Total Maximum Daily Loads (TMDLs). This program relates to the statutory responsibility of states and EPA to implement surface water quality standards. TMDLs provide the crucial link between ambient water quality standards and controls for point and nonpoint sources of pollution. As a national expert, he serves as a technical reference and administrative resource in the field of water quality standards implementation.

Zander is also currently serving as an expert witness for the U.S. EPA on some of the cases related to the TMDL program of the Clean Water Act. He has served as an expert witness for the Nebraska Game and Parks Commission in proceedings associated with the Commission's in-stream flow filing for the central Platte River. As a principal contributor, Zander assists national work groups associated with development of technical guidance and structuring of EPA regulation and policy. One recent effort was Zander's participation on an Agency team to develop a draft framework for watershed-based pollutant trading.

Zander's involvement in the TMDL program involves the application of water quality mathematical models to predict and describe fate and transport of pollutants in surface waters. He has written several PC-based water quality models which have been used by numerous governmental and private groups including other EPA regions, and Environment Canada. His models have been used throughout the U.S. and, most recently, have been used in Indonesia.