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(Summer Conference, June 14-16)

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AGENDA: Water Organizations in a Changing West

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WATER ORGANIZATIONS IN A CHANGING WEST

Fourteenth Annual Water Conference
Natural Resources Law Center
University of Colorado School of Law
Boulder, Colorado

June 14-16, 1993

Monday, June 14

Morning sessions: Introduction and Overview

8:45 **Welcome and introduction**

8:55 **Water Organizations in the West**

This presentation will introduce the broad array of water supply and management organizations that exist in the western U.S.

Prof. Barton H. (Buzz) Thompson, Jr., Stanford Law School, California

9:30 **Panel Discussion: Water Organizations in the West**

Representatives of a variety of water organizations will explain the powers, duties, and concerns of their organizations. Audience questions will be encouraged during this informal discussion, and presentations will be brief.

Ron Bishop, Manager, Central Platte Natural Resources Dist., Grand Island, Nebraska

Wayne Bossert, Manager, Northwest Kansas Groundwater Management District No. 4, Colby, Kansas

Dennis Chavez, Rio Mimbres Acequia Association, Mimbres, New Mexico

Duane Georgeson, Assistant General Manager, Metropolitan Water District of Southern California, Los Angeles, California

Patricia Mulroy, General Manager, Las Vegas Valley Water District and Southern Nevada Water Authority, Las Vegas, Nevada

Teresa Showa, Director, Dept. of Navajo Water Resources, Navajo Nation, Arizona

Larry Simpson, Manager, Northern Colorado Water Conservancy District, Loveland, Colorado

10:30 **Break**

10:50 **Panel Discussion (cont'd)**

12:00 Lunch talk: **Thomas C. Jensen**, Vice President and Executive Director, Grand Canyon Trust, Flagstaff, Arizona (formerly counsel to the U.S. Senate Water and Power Subcommittee), **Winners and Losers in HR 429 (The Omnibus Water Bill): the Consequence of Denial**
Kittredge Dining Room

Afternoon Sessions: Making Better Use of Existing Water Supplies

1:30 **Innovative Approaches to Irrigation Water Conservation**

Two representatives of water organizations will describe how their organizations encourage more efficient irrigation water use.

Prof. David E. Kromm, Kansas State University, Manhattan, Kansas
(moderator)

Wayne Bossert, Manager, Northwest Kansas Groundwater Management District No. 4, Colby, Kansas

Larry Simpson, Manager, Northern Colorado Water Conservancy District, Loveland, Colorado

2:15 **Innovative Approaches to Urban Water Conservation**

This discussion will feature water organizations that have adopted innovative strategies to encourage urban water conservation or are facing new pressures to conserve water. Topics will include integrated resources planning, cooperative approaches to metropolitan water conservation, and the conservation requirements in the 1992 Omnibus Reclamation Act.

Kirt Carpenter, Assistant Project Director, Central Utah Water Conservancy District, Orem, Utah

Tom Griswold, Director of Utilities, City of Aurora, Colorado

Lorna Stickel, Planner, Portland Water Bureau, for **Jeanne McKeever**, Director of Strategic Planning and Public Involvement, Portland Water Bureau, Oregon

Sterling Schultz, Utilities Manager, City of Arvada, Colorado

3:05 Break

3:25 **Urban Water Conservation (cont'd)**

4:00 **Who "Owns" Water Rights?**

In an age of water marketing and water adjudications, water users and water organizations often do not know who "owns" water rights.

Speakers will help sort out the confusing nature of water ownership.

Jeff Fereday, Attorney, Givens Pursley & Huntley, Boise, Idaho
Prof. Barton H. (Buzz) Thompson, Jr., Stanford Law School

- 5:00 End of day
- 6:15 Cookout on Flagstaff Mountain

Tuesday, June 15

Morning sessions: Water Supply Issues

8:30 **Strategies for Acquiring New Urban Water Supplies**

Cities have assumed the responsibility for supplying surrounding suburban areas, seeking new water from sometimes-distant sources. Today, however, with environmental and fiscal concerns limiting access to new sources, some cities are reconsidering their strategies. Representatives from several urban water suppliers will discuss their approaches (including the recently-formed Western Urban Water Coalition) to meet projected demands.

Guy Martin, Attorney, Perkins Coie, Washington, DC (moderator and panelist)

Hamlet J. (Chips) Barry, Manager, Board of Water Commissioners, Denver, Colorado

Jan Matusak, for **Duane Georgeson**, Assistant General Manager, Metropolitan Water District of Southern California, Los Angeles, California

Patricia Mulroy, General Manager, Las Vegas Valley Water District and Southern Nevada Water Authority, Las Vegas, Nevada

- 10:25 Break

10:45 **Meeting Water Quality Needs**

Growing concerns with protection of water quality are prompting new water management strategies. Panelists will discuss examples involving the use of pricing, new institutional arrangements, and coordinating water withdrawals with water quality standards.

David Cone, Manager, Broadview Water District, Firebaugh, California

Chelsea Congden, Environmental Defense Fund, Oakland, California

Robert Helwick, Chief of Resources Law, East Bay Municipal Utilities District, Oakland, California

- 12:15 Lunch (on your own)

Afternoon sessions: Responding to New Concerns

1:45 Providing for Fisheries, Recreation, and Other Instream Benefits

Recognizing the importance of water for instream values, a variety of organizations are now initiating actions to protect water for these uses. Panelists will discuss initiatives on the Platte, the Columbia, and the Cache la Poudre rivers.

Ron Bishop, Manager, Central Platte Natural Resources Dist., Grand Island, Nebraska

Bill Frank, Jr., Chairman, Northwest Indian Fisheries Commission, Olympia, Washington

Kari V. Henderson, A.I.C.P., Senior City Planner, City of Fort Collins, Colorado

3:30 Break

3:50 Water Organizations: Public or Private Management?

The focus of this panel will be on financial and bonding capability, operation liability, public utility regulation, and management efficiency under private or public control, particularly in the area of urban water delivery.

Lee Kapaloski, Attorney, Parsons, Behle and Latimer, Salt Lake City, Utah (moderator and panelist)

Timothy J. De Young, Modrall, Sperling, Roehl, Harris & Sisk, Albuquerque, New Mexico

Duane Brown, Modrall, Sperling, Roehl, Harris & Sisk, Albuquerque, New Mexico

5:00 End of day; reception

Wednesday, June 16

New Approaches for a Changing West

8:30 Water and Communities: Emerging Issues for Water Organizations

In the past, water organizations have served fairly limited constituencies -- irrigators and suburban homeowners, for example. Today, however, many more people are concerned with water use and management. This session will introduce the changing relation between traditional water organizations and the communities they affect.

Prof. A. Lee Brown, Grossmont College, El Cajon, California
(moderator)

Donald Snow, Director, Northern Lights Research and Education
Institute, Missoula, Montana

9:20

Organizing From the Ground Up: Watershed Initiatives

Locally-oriented natural resource management has gained favor in recent years. Will new watershed initiatives influence or reshape water organizations? This panel features people who have been involved in watershed-oriented management efforts, and will explore the promise and limitations of these emerging approaches.

Robert S. Pelcyger, Attorney, Fredericks, Pelcyger, Hester & White,
Boulder, Colorado (Pyramid Lake/Truckee-Carson Basin, Nevada and
California)

Kenneth Slattery, Senior Policy Analyst, Washington State Department
of Ecology, Olympia, Washington (regional water planning in
Washington)

Donald Snow, Director, Northern Lights Research and Education
Institute, Missoula, Montana (Clark Fork, Montana)

10:00

Break

10:20

Watershed Initiatives (Cont'd)

11:20

New Legislative Approaches

This session will feature an elected representative who has demonstrated leadership in introducing new legislative approaches to meet the changing needs of water organizations and communities in the West.

Larry Morandi, Program Manager for Energy, Science and Natural
Resources, National Conference of State Legislatures, Denver,
Colorado

Senator Laird Noh, State Senator and Chairman of the Senate
Resources and Environment Committee, Twin Falls, Idaho

12:20

Lunch talk: **Betsy Rieke**, Assistant Secretary for Water and Science,
Washington, DC
Kittredge Dining Room

1:45

Future Directions: Water Organizations Serving a Changing West

This wrap-up session will consider the changing views of water in the West, the challenges presented to traditional water organizations, and emerging directions for water organizations to meet these challenges.

James N. Corbridge, Jr., Chancellor, University of Colorado, Boulder, Colorado (moderator)

Hamlet J. (Chips) Barry, Manager, Board of Water Commissioners, Denver, Colorado

J. William McDonald, Bureau of Reclamation, Denver, Colorado

Larry MacDonnell, Natural Resources Law Center, Boulder, Colorado

3:00

End of Program

WATER ORGANIZATIONS IN A CHANGING WEST June 14-16, 1993

CONFERENCE ORGANIZERS

LAWRENCE J. MacDONNELL (B.A.'66, Univ. of Michigan; J.D. '72, Univ. of Denver, Ph.D.'75 Colorado School of Mines) is Director of the Natural Resources Law Center and an adjunct professor at the Univ. of Colorado School of Law. He has taught at the Colorado School of Mines and the Univ. of Denver and has been a research economist at the Denver Research Institute. He is presently at work on a book about irrigated agriculture in the western U.S. He is a co-author of the forthcoming Island Press book, Searching Out the Headwaters: Change and Rediscovery in Western Water Policy.

SARAH F. BATES (B.S. Colorado State University, '84; J.D. Univ. of Colorado School of Law, '88) joined the Natural Resources Law Center as Assistant Director in 1991, where her research work has focused on water and public land issues. She is the co-author (with Getches, MacDonnell, and Wilkinson) of the book Searching Out the Headwaters: Change and Rediscovery in Western Water Policy, (to be published by Island Press in 1993), and is a contributing editor (with MacDonnell) of Natural Resources Policy and Law: Trends and Directions (to be published by Island Press in late 1993). Previously she practiced law with the Sierra Club Legal Defense Fund in San Francisco. She was co-author, with Marc Reisner, of Overtapped Oasis: Reform or Revolution for Western Water (1990).

DAVID H. GETCHES is Professor of Law at the University of Colorado School of Law, teaching environmental, water, public land, and Indian law. He has published seven books, including Controlling Water Use: The Unfinished Business of Water Quality Control, with MacDonnell and Rice (1991), Water Law in a Nutshell (1990), and Water Resource Management, with Meyers, Tarlock and Corbridge (1988). He served as Executive Director of the Colorado Department of Natural Resources from 1983-86. He was the founding Executive Director of the Native American Rights Fund (NARF) in Boulder and has litigated Indian water law cases. He serves on the boards of the Grand Canyon Trust, the Land and Water Fund of the Rockies (LAW Fund), and the Rocky Mountain Mineral Law Foundation. He spent the academic year 1989-90 living and working in Costa Rica under a Ford Foundation grant, providing assistance to non-profit organizations dedicated to the pursuit of sustainable use of natural resources, and helping to establish CEDARENA, a center for natural resources and environmental law.

CONFERENCE FACULTY

HAMLET J. (CHIPS) BARRY, III, Manager of the Denver Water Department since January 1991, was formerly Executive Director of the Colorado Dept of Natural Resources (1987-90). His degrees are from Yale and from Columbia Law School. He has lived and practiced law in Alaska, Micronesia and Colorado, and counts among his ancestors a Colorado Supreme Court justice, who was one of the first persons in Colorado to fill a wetland for sub-division development and then sue the Denver Water Co. to get water service to that area, (a neighborhood now known as Montclair in East Denver, where Barry still lives).

RON BISHOP was born and raised on irrigated and dryland farms in south central and eastern Nebraska. He has two B.S. degrees, the first in Water Resource Management and a second in Geography with a minor in Economics. In 1972 Nebraska reorganized several hundred local soil and water organizations into multi-purpose Natural Resource Districts. Bishop was hired as General Manager of the Central Platte Natural Resources District when it was first formed in 1972 and has remained in that position with the District since that time. His career in soil and water conservation began in 1957, and from then to 1972 he served in several positions including manager of the Mid Platte Valley Watershed, an organization established to deal with flooding problems in south central Nebraska.

WAYNE A. BOSSERT became Manager of the Northwest Kansas Groundwater Management, District No. 4 in Colby, Kansas, in 1977. Before that Bossert, who has a B.S. in Geology from the University of Oklahoma (1975), served as a Groundwater Geologist with the Oklahoma Water Resources Board in Oklahoma City (1975-77). He has been a member of the board of the Groundwater Management Districts Association since 1977, serving as Executive Secretary for 6 years and as Association President in 1980.

PROF. A. LEE BROWN, JR. is a native Texan who grew up in southern California. He is a professor of government at Grossmont College in San Diego, specializing in natural resources issues. His original graduate work was in political science (University of Minnesota), but he later retooled (University of Texas) for a doctorate in water resources with an emphasis on groundwater. Over the past 25 years he has been a Fulbright Exchange Professor to the United Kingdom, and Director of the U.S. Department of Energy's Summer Institute for Water and Energy. At present, Dr. Brown is working on a study of communities and their water organizations, funded by the Ford Foundation.

DUANE E. BROWN, a Colorado native, graduated from Colorado State University in 1979 and received his law degree from Duke University School of Law in 1983. Since joining the firm Modrall, Sperling, Roehl, Harris & Sisk in Albuquerque, he has concentrated in public finance. He is a member of the National Association of Bond Lawyers. His general public finance practice has recently included several special assessment district financings and FmHA water and sanitary sewer system financing. Over the past 10 years, he has frequently testified at state legislative committees on pending legislation affecting public finance in New Mexico and has made presentations throughout New Mexico to various issuers of tax exempt bonds.

P. KIRT CARPENTER joined the staff of the Central Utah Water Conservancy District as Project Manager, Provo River/Utah Lake Studies in 1991. Previously he served as the Bureau of Reclamation's Projects Manager, Utah Projects Office, and was responsible for Reclamation projects in the State of Utah, including the Central Utah Project. Prior to that he worked on the Weber Basin Project and served as a coordinator and director of Reclamation's Youth Programs, Civilian Conservation Centers. He has authored papers and additionally is recipient of many awards including recognition from the American Fishery Society. Kirt has a B.S. from the Univ. of Utah School of Geological Engineering and an M.B.A. from the University of Utah.

DENNIS CHAVEZ is an apple grower in the Mimbres Valley, a rural location 200 miles south of Albuquerque and 80 miles away from the Mexican border. He is an advocate for Chicano community rights, traditional water rights, education, and young peoples' issues at the grassroots level. Dennis is a member of the Congreso de Pueblos Mimbrenos, and a founder of the Rio Mimbres Acequia Association, the New Mexico Acequia Association, and a member on the Board of Directors of the Tonantzin Land Institute. He has been the primary resource person for the acequia members in the Rio Mimbres Adjudication suit.

DAVID G. CONE (B.A. in Field Biology, California State University, '74) has been Manager of the Broadview Water District, Firebaugh, California since 1987. Broadview, a California Water District serving over 9,000 acres of highly productive farmland, was awarded the Bureau of Reclamation's Water Conservation Award for improvements made in water management in 1992. Cone spent 23 years with the Bureau of Reclamation working on water management, water contracting, and water studies in California and Oregon. Eight years of that were as Land Manager on the Klamath Project, managing 23,000 acres of farmland in two wildlife refuges. Among other professional affiliations, he is a member of the Board of the Association of California Water Agencies.

CHELSEA H. CONGDON is a Resource Analyst with the Environmental Defense Fund in its Oakland, California office. She works primarily on issues of water resource management and policy in California and the West. At EDF, she is involved in efforts related to water marketing and transfer policy, agricultural water use and drainage management, and protection and restoration of aquatic ecosystems. Prior to joining EDF, she worked as a consultant with the Natural Heritage Institute on a number of projects, including the restoration of flows in the Trinity River and an institutional analysis for the San Joaquin Valley Drainage Program. Her B.A. is from Yale ('82) and Master's in Energy and Resources from the University of California at Berkeley ('89).

JAMES N. CORBRIDGE, JR. (B.A. Brown Univ., '55; LL.B Yale Law, '63) was appointed Chancellor of the University of Colorado at Boulder in July 1986. He came to the University of Colorado as an Assistant Professor of Law in 1965, was named Vice President for Student Affairs in 1970, and has served in several administrative positions, while continuing to teach water law, mining law, and real property at the Law School. He has been a Visiting Scholar at the Institute for Advance Legal Studies at the University of London, and also at the University of Linköping, Sweden. He is a past mining law editor of the Rocky Mountain Mineral Law Foundation newsletter, and has published extensively in the area of water law, including coauthor of Water Resources Management, with Getches and Tarlock (4th edition due summer 1993), and ed. of Special Water Districts: Challenge for the Future, (1984).

TIMOTHY J. DE YOUNG, a native of California, has lived in New Mexico since 1979. He holds a J.D. from the Univ. of New Mexico and a Ph.D. in Government from the Claremont Graduate School. Before practicing law, he taught at Pennsylvania State University and the University of New Mexico. In 1989 he joined the law firm Modrall, Sperling, Roehl, Harris & Sisk in Albuquerque, where he is a member of the firm's Natural Resources section. His practice is primarily in the areas of water law, oil and gas, and commercial litigation. He has authored several articles and books, primarily in the area of water resources law and administration.

JEFFREY C. FEREDAY (B.A. Political Science, Columbia; J.D. Lewis & Clark Law School) is a partner with the Boise law firm of Givens Pursley & Huntley, practicing primarily in water, natural resources and environmental law. He is admitted to practice in Idaho, Washington, and Colorado. Before joining Givens Pursley in 1985, he worked as a staff attorney in the Interior Department Solicitor's Office in Washington, D.C., and as an associate with the Denver firm, Davis, Graham & Stubbs. Jeff is Idaho's representative on the Board of Trustees of the Rocky Mountain Mineral Law Foundation, a member of the Governor-appointed Idaho Irrigation Water Conservation Task Force, and was President of the Idaho State Bar Association's Water Law Section in 1991.

BILL FRANK, JR., has been Chairman of the Northwest Indian Fisheries Commission for 11 years, serving as the key natural resources representative for the 20 Treaty Indian Tribes of western Washington. He was Vice-Chairman of the Commission for three years, and has been the Medicine Creek Treaty Area representative for 12 years. He also served as Fisheries Manager for the Nisqually Tribe for more than a decade and has been a fisherman on the Nisqually all his life. He was a Commissioner to the Washington State Centennial Commission, and Chairman of the Native American Committee. Among other honors, he has received The Albert Schweitzer Award for Humanitarianism and the American Indian Distinguished Service Award.

DUANE L. GEORGESON is one of three assistant general managers of the Metropolitan Water District of Southern California, in charge of Metropolitan's resources, planning, water quality, conservation and State Water Project activities. Before joining the district in 1990, he worked with the Los Angeles Dept. of Water and Power, as director of the water system since 1982. Since 1989 he has served on the Colorado River Board. He has served on the California Desert Advisory Board and on the U.S. EPA's National Drinking Water Advisory Council. Currently he is chairman of the board of the American Water Works Association Research Foundation. He has a B.S. in engineering from the UCLA.

TOM GRISWOLD has worked with the City of Aurora Utilities Department for 20 years, currently serving as Director of Utilities, responsible for executive management, direction and control of the City's water, wastewater, and storm drainage system. Previously he served for seven years with the Denver Water Department. He has a B.S. in Civil & Environmental Engineering and a second B.S. in Business, both from the University of Colorado. He is Past President of the Board of the Colorado Water Congress, Vice Chairman of the Metropolitan Water Providers, and on the Board of the Metropolitan Sewage Disposal District.

ROBERT C. HELWICK (B.A., Univ. of California at Santa Barbara, '70; J.D. Univ. of Calif. Hastings College of the Law, '73) has been with the Office of General Counsel of the East Bay Municipal Utility District since 1976. In his current position as Chief of Resources Law he is responsible for legal work related to EBMUD water rights, water supply operations and long range planning, environmental compliance, reclaimed water use, water transfers, among other things. Previously he practiced with the law firm Donahue, Gallagher, Thomas & Woods in Oakland (1975-76). He has been President of the Alameda County Bar Association, and also President of the Alameda County Bar Association Volunteer Legal Services Corporation.

KARI V. HENDERSON, A.I.C.P., is Senior City Planner with Fort Collins, Colorado. A Colorado native, she has family roots in ranching and western conservation. Her goals include coalition building for complex policy issues. Emphasizing the importance of community dialogue about natural and cultural resource matters, she works with diverse constituencies to articulate a community vision for the Cache La Poudre River. Her work in community relations, legislative affairs, and long-range planning helps with innovative local and regional river projects. She serves on the Executive Board of the Colorado Chapter of the American Planning Association, and is a member of the American Institute of Certified Planners.

THOMAS C. JENSEN is Vice President and Executive Director of the Grand Canyon Trust, a non-profit conservation organization for sustainable development of the Colorado Plateau. From 1989-1992 he served as majority counsel to the U.S. Senate Committee on Energy and Natural Resources, Subcommittee on Water and Power. He bore staff responsibility for several dozen bills related to western water projects, including the Truckee-Carson-Pyramid Lake settlement, the Reclamation States Drought Emergency Assistance Act, the Central Valley Project Improvement Act, and the Elwha River Restoration Act. Earlier he served as Deputy Executive Secretary of the U.S.-Canada Pacific Salmon Commission in Vancouver, B.C., and policy analyst for the Columbia River Inter-Tribal Fish Commission in Portland.

LEE KAPALOSKI is a shareholder partner in the firm of Parsons Behle & Latimer in Salt Lake City, with a practice concentrated in water resources and local government law. He was born and raised in Payson, Utah (at the end of an irrigation ditch). He attended the University of Utah, receiving two B.S. degrees, in geography and economics. His M.A. is from San Diego State University, and he was a Ph.D. candidate at the University of Colorado. He then received his J.D. from the University of Utah College of Law. He has worked in many public and private positions related to water resources before practicing law, including Utah State Environmental Coordinator and special consultant to the Bureau of Land Management. He is currently a member of the Grand Canyon Visibility Transport Commission Public Advisory Board.

DAVID E. KROMM is Professor of Geography at Kansas State University, where he has taught since 1967. He has authored or coauthored publications dealing with water management and policy in the U.S. High Plains, the Canadian Prairie West, and Great Britain. He is co-editor with Professor Stephen E. White of Groundwater Exploitation in the High Plains (1992).

GUY R. MARTIN has over 25 years of leadership, management and representational experience on behalf of federal, state and local governments, public interest organizations and private sector clients in the areas of natural resources, energy and environmental law. Early in his career he served as administrative assistant to the late Alaska Congressman Nick Begich, and later in the cabinet of Alaska Governor Jay Hammond as Commissioner of Natural Resources. He also served as Assistant Secretary of the Interior for Land and Water Resources under President Jimmy Carter. In 1981 he became a partner in the Washington, DC office of Perkins Coie, a Pacific Northwest law firm with offices in several western states. He serves as National Counsel to the Western Urban Water Coalition, and recently authored the Overview chapter of the Natural Resources Law Handbook. His bachelor's ('64) and law ('67) degrees are from the University of Colorado.

JAN P. MATUSAK is a Principal Engineer in the resources division of the Metropolitan Water District of Southern California, responsible for ensuring that the district's Colorado River water supply is maximized each year. In 1987 Mr. Matusak was appointed to the Colorado River Floodway Task Force - a committee advising the Secretary of Interior and Congress on matters related to restoring and maintaining a floodway along the river. Prior to joining MWDSC in 1982, he served on the staff of the California Department of Water Resources. He has a B.S. and M.S. in Civil Engineering from California State University Long Beach.

J. WILLIAM (BILL) McDONALD (B.S., Colorado College; J.D. University of Chicago Law School, and M.S. in Natural Resources Management, University of Michigan) has worked in water resources at both the federal and state levels, currently as Assistant Commissioner - Resources Management with the U.S. Bureau of Reclamation (as of 1990). In 1971-73 he was in the Civil Works Directorate, Office of the Chief of Engineers, U.S. Army Corps of Engineers. Later he was on the staff of the Great Lakes Basin Commission. In 1976 he joined the Executive Director's staff in the Colorado Dept. of Natural Resources, involved in various water resources matters. From 1979-90 he was Director of the Colorado Water Conservation Board. He is past chairman of the Western States Water Council.

JEANNE McKEEVER has been with the City of Portland for 21 years and with the Water Bureau since 1986. As the Director of Strategic Planning and Public Involvement she has responsibilities for directing the development of a regional water supply plan, using an integrated resources planning approach to meet water demand to the year 2050. She also directs the development and implementation of the Bureau's Public Involvement Plan and the Bureau's Conservation Plan, as well as coordinating the Bureau's regional affairs. She has an undergraduate degree in sociology and a master's in education and psychology. She is Chair of the American Water Works Association Conservation Committee; and the Chair-Designee of the AWWA Public Information Committee.

LARRY MORANDI is Senior Fellow for Environment and Natural Resources with the National Conference of State Legislatures in Denver, and director of NCSL's western water policy project. His previous publications in the area include Moving Western Water: At Whose Cost? (1991), and Reallocating Western Water: Equity, Efficiency and the Role of Legislation (1988). Prior to joining NCSL in 1979, he served as staff with the Colorado and Connecticut legislatures. He holds a bachelor's degree and a master's in political science from the State University of New York.

PATRICIA MULROY was appointed General Manager of the Las Vegas Valley Water District in 1989. She had been the District's Deputy General Manager since 1985. She was also appointed General Manager of the Southern Nevada Water Authority, of which the District is a member, in January 1993. Prior to joining the District, she was Assistant to the County Manager for Clark County (1979-84). She attended the University of Munich before earning a Master's degree from the University of Nevada, Las Vegas, and later pursuing doctoral work at Stanford University. Her memberships include the American Water Works Association and the Association of Metropolitan Water Agencies, among others. She is the initial Chair of the Western Urban Water Coalition, and is also a member of the Colorado River Water Users Association.

SENATOR LAIRD NOH (B.S. Business and Agriculture, Univ. of Idaho; M.B.A., Univ. of Chicago) has served in the Idaho State Senate since 1980, with 11 years as Chair of the Resources and Environment Committee. Since 1965 he has been president of Noh Sheep Co., a third-generation family sheep ranching-farming operation in south-central Idaho. Prior to entering the legislature, he was active in public lands-livestock organizations on the local, state and national level. He has served as President of the National Lamb Feeders Association, Chairman of the Predatory Animal Committee of the National Woolgrowers Association, and as the livestock representative on the National Forest Service Advisory Committee to the Secretary of Agriculture.

ROBERT S. PELCYGER has since 1982 been an Owner-Partner with the Boulder firm Fredericks, Pelcyger, Hester & White, which specializes in all facets of Indian law and Indian related natural resources issues, with special emphasis on water, land, energy, jurisdictional and sovereignty issues. From 1971-81 he was a Senior Attorney with the Native American Rights Fund in Boulder, and before that, with California Indian Legal Services. His B.A. ('63) is from the University of Rochester, and LL.B ('66) from Yale Law School. He was a Fulbright Scholar in London. Publications include "Indian Water Rights: Some Emerging Frontiers" (1976), "The Winters Doctrine and the Greening of the Reservations" (1977), and he is a contributing author for Felix S. Cohen Revised Handbook of Indian Law (1982). His work on the Truckee-Carson-Pyramid Lake settlement was featured in the April 1993 issue of Resource Law Notes.

ELIZABETH ANN (BETSY) RIEKE was confirmed as Assistant Secretary for Water and Science, Department of Interior, in May 1993. Prior to joining the Clinton administration she was Director of the Arizona Department of Water Resources (1991-93), where she worked to achieve the far-reaching goals in Arizona's Groundwater Code and sought protection for Arizona's remaining riparian areas, on which so much of Arizona's wildlife is dependent. From 1987-91 she was an attorney with Jennings, Strouss & Salmon in Phoenix. She has taught "Problems in Arizona Water Law" as an Adjunct Professor at Arizona State University College of Law. Her B.A. in Political Science is from Oberlin ('65) and J.D. from Univ. of Arizona College of Law ('81), from which she received the Distinguished Alumnus Award in 1986.

STERLING E. SCHULTZ, P.E., Ph.D. has been employed with the City of Arvada for the past ten years as the Utilities Manager. He is a graduate of the University of Arizona (B.S./M.S.) and University of Florida (Ph.D.) Prior to working with Arvada he completed a career in the U.S. Air Force as a civil engineer including seven years as a professor at the Air Force Academy. He has numerous awards including the Legion of Merit. He has had numerous professional papers published, co-authored AWWA/WPCF and USAF manuals, served on AWWA committees, and as Post president of the Society of American Military Engineers. He is a registered Professional Engineer and a Diplomat in the American Academy of Environmental Engineers.

TERESA M. SHOWA is a 1983 graduate from the University of Arizona with a B.S. in Geological Engineering. She has worked for the Navajo Nation for almost ten years in several capacities. She worked as a geologist with the Division of Resources, Minerals Department, for one year, and as a Civil Engineer in the Planning and Design Department of the Division of Water Resources for three years. Within the Division of Natural Resources, she has worked as a Coal Program Manager in the Navajo Abandoned Mines Lands Department (3.5 years) and is currently Director of the Water Resource Management Department.

LARRY D. SIMPSON has been with the Northern Colorado Water Conservancy District since 1971 in various capacities, including as General Manager since 1982. Previously he was Assistant Chief of Operations with the Los Angeles County Flood Control District (1962-71), and was an officer with the U.S. Army Corps of Engineers (1960-62). He holds a Professional Engineering Degree from the Colorado School of Mines ('59), and an M.B.A. in finance from Calif. State University, Los Angeles ('67), with graduate engineering studies at the Univ. of Southern California. He is a Director and Past President of the Colorado Water Congress, and a member of the Four-State Irrigation Council, as well as numerous other water related professional organizations. He currently operates a small farm near Windsor, Colorado.

KENNETH SLATTERY is a graduate of Western Washington University with a B.A. in Geography. He has been employed by the Water Resources Program of the Washington State Department of Ecology since 1976. Currently he is Senior Policy Analyst in that organization. He has been involved in instream flow, water conservation, and planning issues during his tenure. He has authored a number of legislative bills including one authorizing state acquisition and reallocation of conservation water savings. He is also coauthor of pending federal legislation to authorize a \$100 million water conservation and fishery restoration program for the Yakima River Basin.

LORNA STICKEL is a chief planner for the Portland, Oregon Water Bureau where she has been working on developing an Integrated Resources Water Supply Plan for the Portland Metropolitan area for the last two and a half years. Before she came to the Water Bureau she was a land use planner in Oregon for 17 years. She currently serves as the Chair of Oregon's Water Resources Commission and is a member of the Western States Water Council. She has a Bachelor's Degree from Portland State University and a Master's Degree from the University of Alberta, Canada, both degrees in Geography. She is an avid fly fisher and loves to cross country ski in the winter with her family.

PROFESSOR BARTON H. THOMPSON, JR. has taught environmental, water, and natural resources law at Stanford Law School since 1986. His scholarship focuses on two areas: constitutional protections of economic interests and water policy. He has written major articles on the application of the "takings protections" to judicial actions. He has written a textbook on the Legal Control of Water Resources (with Sax and Abrams) and articles on geothermal development and the important role of local water organizations in shaping water policy. In 1991-92 he joined other Stanford faculty in examining the economic impact on California agriculture of reduced water supplies. Current research focuses on water markets, the insights that water law provides on notions of "community," constitutional protection of water and other resource rights, and environmental enforcement. He graduated from Stanford Law and the Stanford Graduate School of Business in 1976, clerked for Chief Justice William H. Rehnquist of the U.S. Supreme Court, and in 1978 joined the law firm of O'Melveny & Myers, where he litigated natural resource, environmental and other cases.