

❖ STEERING COMMITTEE ❖

Gordon Brittan, Burton K. Wheeler Center
Susan Higgins, Montana Water Center
Julie Hitchcock, Burton K. Wheeler Center
Shaun McGrath, Western Governors' Association
Matt McKinney, Public Policy Research Institute, University of Montana
MJ Nehasil, Montana Water Center
Michelle Rutledge, Inland Northwest Research Alliance
Gretchen Rupp, Montana Water Center
Mary Sexton, Montana Department of Natural Resources & Conservation
Fred Sica, Inland Northwest Research Alliance
Bill Yellowtail, former EPA Region VIII Director
(and thanks to Sarah Van de Wetering, Public Policy Research Institute)



About the Inland Northwest Research Alliance

INRA is a coalition of eight universities, working in cooperation with the Department of Energy and other partners to combine intellectual strength and competencies.
<http://www.inra.org>; (208) 524-4800.



About the Montana Water Center

One of 54 Water Research Institutes in the U.S., the Montana Water Center's mission is to investigate and resolve Montana's water problems through research and education.
<http://watercenter.montana.edu>; (406) 994-6690



About the Burton K. Wheeler Center

Named for the late Burton K. Wheeler, U.S. Senator from Montana from 1923 to 1947, the Center fosters enlightened discussion of public policy issues that affect Montana and the region.
<http://www.montana.edu/wheeler>; (406) 994-0336

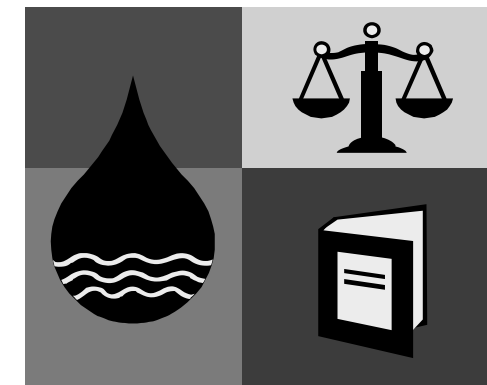


About the Cinnabar Foundation

Preserving the memory and legacy of Leonard and Sandy Sargent through environmental grant making in Montana and the Greater Yellowstone Ecosystem.

2006 Northwest Water Policy & Law Symposium

September 18-20, 2006
Holiday Inn, Bozeman, Montana



AGENDA

❖ Monday, September 18 ❖

- 4:00 PM Registration opens, Sunken Lobby at Entry
- 5:00 No-host Reception, Gallatin Room
- 6:00 Dinner, Gallatin Room
- 7:00 Dessert and Coffee Bar, Montana State University Room, hosted by the Stegner Lecture Series
- 7:30 Keynote Speaker:
Donald Worster, Professor and Author, University of Kansas
Water and Empire in the American West: Past, Present and Future
Introduction by **Jim Posewitz**, Executive Director, Cinnabar Foundation

❖ **Tuesday, September 19** ❖

7:30 AM	Registration, Sunken Lobby at Entry
7:30	Continental Breakfast, Outside Gallatin Room
8:30	Welcome and Call to Conference Geoff Gamble , President, Montana State University, Bozeman Gretchen Rupp , Director, Montana University System Water Center
9:10	Opening Plenary Address: Warren Muir , Executive Director, Division on Earth and Life Sciences, National Academies, Washington, D.C. <i>Water Science and Technology Studies at the National Academies</i> Introduction by Whitney MacMillan , CEO Emeritus, Cargill, Minnesota
10:00	Break, Outside Gallatin Room
10:30	PANEL: Infrastructure Matters <i>Across the Northwest, the physical infrastructure by which public agencies store and convey water is aging and changing ownership. It is possible that the very hydrology around which water infrastructure is designed is now altering as a response to climate change.</i> Bill Yellowtail, Moderator , former Director of EPA Region VIII Dan Jewell , Montana Area Manager, USDI Bureau of Reclamation Dan Keppen , Executive Director, Family Farm Alliance, Oregon John Tubbs , Acting Water Division Administrator, Montana Department of Natural Resources and Conservation Craig Bell , Executive Director, Western States Water Council, Utah
12:00	Lunch Buffet, Montana State University Room Luncheon speaker: Dan Tarlock , Professor and Author, Chicago-Kent College of Law <i>Needed Reforms in Land and Water Policy</i> Introduction by Steve Billingsley , Executive Director, Inland Northwest Research Alliance
1:30 PM	PANEL: Surface Water and Ground Water: Their Relation in Nature and Policy <i>Fresh waters, whether above or below ground, are one resource. State laws may acknowledge the physical connection, but the associated regulations frequently do not, and surface and ground water are often managed at cross purposes.</i> Barbara Cosens, Moderator , Associate Professor, University of Idaho College of Law Donna Cosgrove , Hydrogeologist, University of Idaho Bruce Aylward , Water Bank Director, Deschutes River Conservancy, Oregon Mary Sexton , Director, Montana Department of Natural Resources and Conservation Laura Ziemer , Director, Trout Unlimited's Western Water Project, Montana
3:00	Break, Outside Gallatin Room

Ryan Shaffer, Shaffer Law Office, Missoula, (406) 207-5423, ryan@shafferlawoffice.net
Paul Shennum, Bozeman, pdshennum@aol.com
David Shively, University of Montana, Geography Dept., Missoula, (406) 243-6478, david.shively@umontana.edu
Fred Sica, Inland Northwest Research Alliance, Idaho Falls, (208) 524-4800, fsica@inra.org
Jay Sinnott, US EPA, Helena, (406) 457-5017, sinnott.jay@epa.gov
Roger Smith, Geophysical Institute, UAF, Fairbanks, (907) 474-7282, jmc@gi.alaska.edu
Bradley Snow, Wheeler Center, Livingston, ocqui@montana.com
Anika Stern, Montana Water Court, Bozeman, (406) 586-4364, astern@mt.gov
Anna Stradley-Rodman, Montana Water Court, Bozeman, (406) 586-4364, astradley-rodman@mt.gov
Cam Stringer, Geomatrix Consultants, Inc., Missoula, (406) 542-0129, cstringer@geomatrix.com
Amber Sundsted, Billings Association of Realtors, Billings, (406) 248-7145, amber@billings.org
Larry Susskind, Massachusetts Institute of Technology, Boston, (617) 253-2026, susskind@mit.edu
Dan Tarlock, Chicago-Kent College of Law, Chicago, (312) 906-5000, dtarlock@kentlaw.edu
John Tubbs, Montana DNRC, Helena, (406) 444-2074, jtubbs@mt.gov
Linda Vance, Montana Natural Heritage Program, Helena, (406) 444-3380, livance@mt.gov
Jill Walsh, Pacific Groundwater Group, Olympia, (360) 412-1510, jill@pgwg.com
Wendy Weaver, Engineering, Inc., Bozeman, (406) 522-9876, wwweaver@enginc.com
Willis Weight, Montana Tech, Butte, (406) 496-4329, wweight@mtech.edu
Albert Wells, Wheeler Center, Bozeman, albertwells956@earthlink.net
Kendall Wheeler, Wheeler Center, Chevy Chase, wheeler@montana.edu
Hilary & Edward Wheeler Smith - Dzedzic, Wheeler Center, Livingston, hilwsdawg@yahoo.com
Steve White, Bozeman, (406) 587-6163, white@imt.net
Jason Whiteman, Northern Cheyenne Tribe, Lame Deer, (406) 477-6503, ncnaturalresources@rangeweb.net
Linton Wildrick, Pacific Groundwater Group, Tumwater, (360) 570-8244, linton@pgwg.com
Gordon Williams, Bozeman, (406) 599-2953, gwatty@imt.net
Franke Wilmer, Montana State University, Bozeman, (406) 994-5246, franke@montana.edu
Brian Wilson, Bozeman, (406) 599-1447, bwilson3148@bresnan.net
Brady Wiseman, Montana State Legislature, Bozeman, (406) 586-1815, repwiseman@yahoo.com
Ann Yates, Montana DNRC, Helena, (406) 444-0503, ayates@mt.gov
Bill Yellowtail, Wheeler Center, Bozeman, byellowtail@hotmail.com
Ruben Yupanqui, Junta Administradora de Agua Potable Rachacpallana, Jauja, vlayuro8@yahoo.es
Debra Zarnt, Montana Watercourse, Bozeman, dzarnt@montana.edu
Laura Ziemer, Trout Unlimited, Bozeman, 406-522-7291, lziemer@tu.org



Bob Hawks, Montana State Legislature, Bozeman, (406) 587-1403, r_hawks@imt.net
Susan Higgins, Montana Water Center, Bozeman, (406) 994-1772, shiggins@montana.edu
Verne House, Bozeman, (406) 586-8604, vwhouse@mac.com
Laura Huggins, PERC, Bozeman, (406) 587-9591, laura@perc.org
Wade Irion, HKM Engineering Inc., Billings, (406) 656-6399, wirion@hkminc.com
Scott Irvin, Montana DNRC, Lewistown, (406) 538-7459, sirvin@mt.gov
Dan Jewell, Bureau of Reclamation, Billings, (406) 247-7298, djewell@gp.usbr.gov
Ralph Johnson, Montana State University, Bozeman, (406) 994-4650, ralphj@montana.edu
Thomas Kareem, Bozeman, (406) 586-1986, thomas@karemlaw.com
Eloise Kendy, Kendy Hydrologic Consulting, LLC, Helena, (406) 495-9910, ek65@cornell.edu
Dan Keppen, Family Farm Alliance, Klamath Falls, (541) 850-9007, keporama@gmail.com
Keith Kerbel, Montana DNRC, Billings, (406) 247-4415, kkerbel@mt.gov
Roger King, Rancher, Augusta, (406) 562-3213, bjs@3riversdbs.net
Jan Langel, Montana DNRC, Helena, (406) 444-6602, jlangel@mt.gov
Bob Larson, Montana DNRC, Havre, (406) 265-5516, blarson@mt.gov
Donald Leal, PERC, Bozeman, (406) 587-9591, don@perc.org
Allan Lien, West Gallatin Canal Company, Gallatin Gateway, (406) 763-4268, debern@imt.net
Beverly Lingle, Inland Northwest Research Alliance, Coeur d'Alene, (208) 292-2533, blingle@inra.org
Lora Lucero, American Planning Association, Albuquerque, (505) 247-0844, loralucero@aol.com
Carol Macbeth, 1000 Friends of Oregon, Bend, (541) 382-7557, carol@friends.org
Susan Macgrath, Bozeman, 406-587-8440, sue@maczab.com
Douglas Mann, Montana DNRC, Lewistown, (406) 538-7459, dmann2@mt.gov
Mary McCrea, Perkins Coie LLP, Olympia, (360) 352-3179, mmccrea@perkinscoie.com
Matt McKinney, Public Policy Research Institute, Helena, (406) 457-8475, matt.mckinney@mso.umt.edu
Laurie McKinnon, Teton County Attorney's Office, Choteau, (406) 466-2860, Pannamck@3rivers.net
Bill Meadows, MT Farm Bureau Federation, Trout Creek, (406) 827-3578, meadows168@tfalls.net
Tom Michalek, MCS Environmental, Inc., Bozeman, (406) 624-6741, t.michalek@mcs-environmental.com
Kathy Moore, Lewis and Clark County Office, Helena, (406) 457-8926, moore@co.lewis-clark.mt.us
Warren Muir, The National Academies, Washington, D.C., (202) 334-2500, wmuir@nas.edu
Bill Murdock, Gallatin County, Bozeman, (406) 578-1521, bmurdock@co.gallatin.mt.us
MJ Nehasil, Montana Water Center, Bozeman, (406) 994-7636, nehasil@montana.edu
Sandi Nichols, Butte, (406) 782-1693
William Ogden, IFFG, Plymouth, (763) 449-8610, wfogden@alumni.princeton.edu
Glenn Oppel, Montana Association of Realtors, Helena, (406) 443-4032, goppel@montanarealtors.org
Kara Palm, Michael Brandman Association, Irvine, (714) 508-4100, kpalm@brandman.com
Adam Perine, Geomatrix Consultants, Missoula, (406) 542-0129, aperine@geomatrix.com
Mike Phillips, Turner Enterprises, Inc., Bozeman, (406) 556-8500, mike.phillips@retranches.com
Jay Porteen, Montana Water Court, Bozeman, (406) 586-4364, jporteen@mt.gov
Jim Potts, HKM Engineering, Bozeman, (406) 586-8834, jpotts@hkminc.com
David Pruitt, Gallatin County, Bozeman, (406) 579-0002, pruittd@in-tch.com
Brianna Randall, Montana Water Trust, Missoula, (406) 721-0476, brianna.randall@montanawatertrust.org
Ryan Rittal, Engineering, Inc., Bozeman, (406) 522-9876, rrittal@enginc.com
Doug Ritter, Montana Water Court, Bozeman, (406) 586-4364, dritter@mt.gov
Gretchen Rupp, Montana Water Center, Bozeman, (406) 994-6690, grupp@montana.edu
Michelle Rutledge, Inland Northwest Research Alliance, Idaho Falls, (208) 524-4800, mrutledge@inra.org
Brandon Scarborough, PERC, Bozeman, (406) 587-9591, perc@perc.org
David Schmidt, Water Right Solutions, Inc., Helena, (406) 443-6458, dschmidt@water-rightsolutions.com
Bill Schultz, Montana DNRC, Missoula, (406) 721-4284, bischultz@mt.gov
Mary Sexton, Montana DNRC, Helena, (406) 444-1948, msexton@mt.gov



❖ **Tuesday, September 19** ❖

3:30 **PANEL: Water Regulation vs. Land-Use Regulation**
With population growing in many Northwestern communities, much attention is paid to how development affects water. Unfortunately, land-use regulation may be in conflict with water regulation, and long-term, large-scale evaluations often simply cannot be conducted.
Jan Brown, Moderator, Executive Director, Yellowstone Business Partnership, Montana
Bill Murdock, Gallatin County Commissioner, Montana
Carol Macbeth, Central Oregon Advocate, 1000 Friends of Oregon
Gail Achterman, Director, Institute of Natural Resources, Oregon
Lora Lucero, Attorney and Consultant, Albuquerque, New Mexico

5:00 Plenary Session Adjourns

5:30 No-Host Bar, Montana State University Room

6:15 Dinner, Montana State University Room

7:15 Keynote Speaker:
Lawrence E. Susskind, Professor and Author, Massachusetts Institute of Technology
Science, Politics and Deliberative Democracy
 Introduction by **Matthew McKinney**, Director, Public Policy Research Institute, Montana

❖ **Wednesday, September 20** ❖

7:30 AM Continental Breakfast, Outside Gallatin Room

8:30 Concurrent Facilitated Discussions
Infrastructure Matters, Montana Room
 Facilitator: **Dorothy Bradley**, Court Administrator, Gallatin County Court
Surface Water and Ground Water, University Room
 Facilitator: **Lorents Grosfield**, Former Legislator, Sweetgrass County, Montana
Water Regulation vs. Land-Use Regulation, Jefferson Room
 Facilitator: **Don Dixon**, Director of Agriculture for Idaho Senator Mike Crapo

10:00 Break, Outside Gallatin Room

10:30 Plenary Session: Bringing It All Together, Gallatin Room
 Assimilator: **Gordon Brittan**, Director, Burton K. Wheeler Center
 10:30: Reports from Concurrent Sessions from the Facilitators
 11:00: Discussion led by Gordon Brittan
 11:30: Conclusions and Recommendations led by Gordon Brittan

12:00 Adjourn

❖ PRESENTER BIOGRAPHICAL SKETCHES ❖

Gail L. Achterman is the Director of the Institute for Natural Resources at Oregon State University. She received her undergraduate degree from Stanford University in economics and then attended the University of Michigan where she received her J.D. in 1974 and an M.S. in natural resource policy and management in 1975. She started her career working for the Department of the Interior in Washington, D.C. before returning to Oregon in 1978 to join a private law firm where she practiced natural resource and environmental law. From 1987-1991 she served as Governor Neil Goldschmidt's Assistant for Natural Resources before returning to private practice where her work focused primarily on water law. She left Stoel Rives LLP in 2000 to become Executive Director of the Deschutes Resources Conservancy in Central Oregon before joining OSU in 2003 as the first full time director of the Institute for Natural Resources. Gail served on the Oregon Water Policy Review Board from 1981 to 1985 and currently serves as a member of the Oregon Transportation Commission. She was a member of the Board of Directors of 1000 Friends of Oregon from 1996 to 2000 and served as Board President.

Bruce Aylward is an economist working on collaborative, market-based approaches to integrated water resource management. Bruce works part-time as the Water Bank Director at the Deschutes River Conservancy (DRC), a non-profit organization working to restore streamflow and water quality in the Deschutes Basin of Oregon. Bruce is also a consultant to the Columbia Basin Water Transactions Program, the World Bank, the World Conservation Union (IUCN) and FAO, and previously served as a Senior Advisor for Development Economics and Policy at the World Commission on Dams. Bruce has a M.A. and Ph.D. from the Fletcher School of Law and Diplomacy, with concentrations in international economics, and a bachelor's degree in Human Biology, with a concentration in energy and environmental policy and planning, from Stanford University.

Craig 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. Craig 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, Craig 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 eighteen states affiliated with the Council, and responding to those developments as directed by the Council's representatives.

Steve Billingsley has acted as the Executive Director for the Inland Northwest Research Alliance since August 2004. Prior to moving to INRA in 2001 as Chief of Staff, Steve was the Vice President of Engineering at a small company in California that designed and deployed groundwater treatment systems and chemical vapor recovery systems. Prior to that, Steve worked at Pacific Northwest National Laboratory where, among other activities, he managed groundwater treatability studies for the U.S. Army Corps of Engineers, and performed research on catalyzed electrochemical oxidation of torpedo fuel for the U.S. Navy. Steve has a Bachelor's Degree in Chemical Engineering from the University of Washington.

Dorothy Bradley grew up in Bozeman, Montana, received her B.A. from Colorado College in 1969 in Anthropology, and her J.D. from American University in 1983. Starting at age 22, she served in the Montana House of Representatives for eight terms, and was the Democratic nominee for Governor in 1992. Since that time she was the Director of the Montana University Water Center, and presently is the District Court Administrator and staff for the Gallatin County Criminal Justice Coordinating Council.

Gordon "Corky" Brittan is the Executive Director of the Burton K. Wheeler Center for Public Policy, a position he has held since 1991. He also is professor of philosophy at Montana State University with 40 years of teaching experience. He lives on a ranch in Park County and is deeply involved with environmental issues (including wind and water) locally, statewide and nationally.

Janice Brown became the Executive Director of the Bozeman-based Yellowstone Business Partnership in July 2003 after 27 years of involvement in the Idaho conservation community. She holds a B.S. degree in Resource Recreation Management from Oregon State University and has 30 years of professional experience in the public, private and nonprofit sectors. Ms. Brown was executive director of the Henry's Fork Foundation in Ashton, Idaho, from 1991-2000, which included seven years as co-facilitator of the Henry's Fork Watershed Council. For 10 years Jan was owner/operator of Lucky Dog Retreat, a small guest lodge and Nordic ski center in Island Park, Idaho. Her government service includes serving as natural resource advisor to former Idaho Governor John V. Evans and two tours of duty at the Idaho National Laboratory in ecological sciences and radioactive waste management. On January 1, 2000, the editorial board of *The Idaho Statesman* identified Jan Brown as one of 10 Idahoans predicted to be catalysts for change in the 21st century.

Barbara Cosens recently joined the law faculty at the University of Idaho as an Associate Professor. She teaches Water, Environmental, and Property Law and is a PI on development of the new Water Resources graduate degree program which will include options for concurrent J.D./M.S. and J.D./Ph.D. degrees. She was previously an Assistant Professor in the Environmental Studies Program at San Francisco State University. She is also currently mediating efforts to settle water distribution disputes on the Walker River in California and Nevada. Barbara is a member of the Montana, Colorado and California bars. She received her LL.M. from Northwestern School of Law at Lewis and Clark College in 2003, Summa cum laude in Natural Resource and Environ-

❖ REGISTERED MEETING PARTICIPANTS ❖

As of September 14, 2006

Gail Achterman, Oregon State University, Corvallis, (541) 740-3190, Gail.Achterman@oregonstate.edu

Judy Adler, Turner Foundation, judya@turnerfoundation.org

George Alberda, Bozeman, (406) 580-5555, george@littleappletech.com

Linda Angeloni, Montana DNRC, Helena, (406) 444-0489, Langeloni@mt.gov

Bruce Aylward, Deschutes River Conservancy, Bend, (541) 382-4077, bruce@deschutesrc.org

Robin Azqueta, Wheeler Center, West Palm Beach, rvomail@yahoo.com

Craig Bell, Western States Water Council, Midvale, (801) 561-5300, cbell@wswc.state.ut.us

Steve Billingsley, Inland Northwest Research Alliance, Idaho Falls, (208) 524-4800, sbillingsley@inra.org

Jennifer Boyer, Sonoran Institute, Bozeman, (406) 587-7331, jboyer@sonoran.org

Dorothy Bradley, Law & Justice Center, Bozeman, (406) 582-2091, dobradley@mt.gov

Charles Brasen, Montana DNRC, Helena, (406) 444-6625, cbrasen@mt.gov

Seth Broesder, Office of Rep. Dennis Rehberg, Great Falls, (406) 454-1066, seth.broesder@mail.house.gov

Janice Brown, Yellowstone Business Partnership, Bozeman, (406) 522-7809, jbrown@yellowstonebusiness.org

Kristina Brucia - Davis, Office of Senator Max Baucus, Great Falls, (406) 761-1574, kristina_davis@baucus.senate.gov

Andy Brummond, MT Fish, Wildlife & Parks, Lewistown, (406) 538-4658, abrummond@mt.gov

Clinton Cain, Bozeman, (406) 586-7767, we2spirits@msn.com

Barbara Campbell, Utility Solutions, LLC, Bozeman, (406) 585-4166, dbltree1@qwest.net

John Carron, Hydrosphere Resource Consultants, Boulder, (303) 443-7839, jcc@hydrosphere.com

Jo Casey, Hendrickson Law Firm, Billings, (406) 245-6238, jo@henwlaw.com

Dennis Cash, Montana State University, Bozeman, (406) 994-5688, DCASH@montana.edu

Teresa Cohn, Montana State University, Bozeman, (406) 994-7023, tcohn@montana.edu

Tom Colman, Wheeler Center, Winter Park, tcolman@cfl.rr.com

Scott Compton, Montana DNRC, Bozeman, (406) 586-3136, scompton@mt.gov

Diane Conradi, Diane Conradi Law, Whitefish, (406) 863-9681, diane@wildgriz.net

Yvette Converse, US Fish and Wildlife Service, Bozeman, (406) 994-9903, yvette_converse@fws.gov

Barbara Cosens, University of Idaho College of Law, Moscow, (208) 885-6298, bcosens@uidaho.edu

Donna Cosgrove, University of Idaho, Idaho Falls, (208) 282-7914, cosgrove@if.uidaho.edu

Colleen Coyle, Montana Water Court, Bozeman, (406) 522-4129, ccoyle@mt.gov

Tammy Crone, Gallatin Local Water Quality District, Bozeman, (406) 582-3145, tammy.crone@gallatin.mt.gov

Don Dixon, U.S. Senator Mike Crapo, Washington, D.C., (202) 224-6142, don.dixon@crapo.senate.gov

Ronald Elliott, Land West Real Estate, Three Forks, (406) 285-6511, relliott@mcn.izet

Alan English, Gallatin Local Water Quality District, Bozeman, (406) 582-3148, alan.english@gallatin.mt.gov

Krista Lee Evans, Montana Legislative EQC, Helena, (406) 444-1640, kevens@mt.gov

Peter Fischer, Montana Water Court, Bozeman, (406) 327-0109, pfischer@mt.gov

Holly Franz, Franz & Driscoll, PLLP, Helena, (406) 442-0005, hollyjo@franzdriscoll.com

Peter Fritsch, Montana Water Court, Bozeman, (800) 624-3270, pfritsch@mt.gov

Adam Fruh, Bozeman, (406) 599-2962, adamfruh@yahoo.com

Kevin Furey, Montana State Legislature, Missoula, (406) 829-1539, kevin-the-furey@excite.com

Kathleen Gallagher, Summerfield Professional Services, Inc., Bozeman, (406) 587-8207, kghydro@aol.com

Liz Galli-Noble, Montana Water Center, Bozeman, (406) 994-4841, lgnoble@montana.edu

Geoffrey Gamble, Montana State University, Bozeman, (406) 994-2341, ggamble@montana.edu

Gene Gilbert, Bozeman, (406) 582-9034, agroenviro@earthlink.net

Frances Graham, Montana Watercourse, Bozeman, (406) 994-1910, fmoore@montana.edu

Kurt Hafferman, Montana DNRC, Kalispell, (406) 752-2288, khafferman@mt.gov

Barbara Hall, Montana Water Trust, Missoula, (406) 721-0476, barbara.hall@montanawatertrust.org

Tim Hall, Montana DNRC, Helena, (406) 444-6702, thall@mt.gov

Donald Worster is the Hall Distinguished Professor of American University at the University of Kansas. A leader in the field of environmental history, his research areas include North American environmental history, the history of the American West, the history of evolution, ecology, and exploration, and 19th- and early 20th-century U.S. history. As a leader in the field of environmental history, he has served as president of the American Society for Environmental History, sits on a number of editorial boards, and is general editor of the Cambridge University monograph series, "Studies in Environment and History." He has published numerous works, including *A River Running West: The Life of John Wesley Powell* (Oxford University Press, 2001), for which he won the Byron Caldwell Smith Award; *Rivers of Empire* (1985) which deals with the development of water resources in the West and was nominated for the Pulitzer Prize; *Dust Bowl* (1979), a study of the Southern Plains in the "dirty thirties," which won the Bancroft Prize; and *Nature's Economy* (1994, second edition), which traces the evolution of ecology from the eighteenth century to the present. Worster has also received numerous honors, fellowships, and awards, among which are the Distinguished Achievement Award from the Society for Conservation Biology (1997)—he is the first nonscientist to receive it; a Guggenheim Fellowship (1981-82); and American Council of Learned Societies Fellowship (1975-75); and a Mellon Fellowship at the Aspen Institute for Humanistic Studies (1974.)

Bill Yellowtail grew up on his family's cattle ranch on the Crow Indian Reservation in Montana. Holding a degree in geography from Dartmouth College, Bill has been a rancher, educator, fishing guide, Montana State Senator and congressional candidate. An expert canoeist and fly fisherman, he was named Angler of the Year for 1991 by *Fly Rod and Reel* magazine. From 1994 to 2001 he served as Regional Administrator for the U.S. Environmental Protection Agency, with responsibility for six western states and 27 Indian Tribes. He serves on the boards of directors of the Burton K. Wheeler Center for Public Affairs and the National Audubon Society. Bill lives in Bozeman, where he works at the Cook Center for Sustainable Agriculture.

Laura Ziemer opened the Montana Water Project office for Trout Unlimited in August of 1998. The Western Water Project works in six western states to restore and maintain streamflows for healthy coldwater fisheries by addressing water allocation issues. In Montana, Laura has expanded Trout Unlimited's water leasing program through legislative improvements to the program and has completed several stream restoration projects by converting irrigation water rights to instream flow rights. She has helped close the Bitterroot River Basin to new diversions, initiated a successful drought response plan on the Blackfoot River, and obtained favorable rulings from the Montana Supreme Court recognizing instream flow rights under the prior appropriation doctrine and reforming groundwater management in Montana. Before joining Trout Unlimited, Laura had been practicing public-interest environmental law since 1993 as an attorney with the Sierra Club Legal Defense Fund (now Earthjustice Legal Defense Fund). She litigated a variety of public lands issues, including protecting grizzly bear habitat, managing northern spotted owl habitat, and challenging the dioxin discharges of the pulp and paper industry. She tackled litigation over water rights in the Washington's Methow Valley, weighing in on water transfers that violated state law and served rapid development at the expense of fish and wildlife. She also challenged the grant of groundwater pumping permits which harmed instream flows in nearby streams and rivers. Prior to working with the Sierra Club Legal Defense Fund, Laura served as a judicial clerk for two years to the Honorable Barbara J. Rothstein of the United States District Court for the Western District of Washington in Seattle. She is a graduate of the University of Michigan, graduating *cum laude* from the Law School while earning a Master's Degree in Resource Ecology *with honors* from the School of Natural Resources.

mental Law, and her J.D. from the University of California Hastings College of the Law in 1990, Magna cum laude. She clerked for Justice Lohr of the Colorado Supreme Court and joined the staff of the Montana Reserved Water Rights Compact Commission in 1991 where she served as chief legal counsel for several water right negotiations including those with the National Park Service, which resulted in protection of the hydrothermal system within Yellowstone National Park. Law is Barbara's second career; she received her M.S. in Geology from the University of Washington in 1982, and her B.S. in Geology from the University of California at Davis in 1977. As a geologist, she conducted applied research in the exploration and development of geothermal energy in California, Japan and the Philippines.

Donna M. Cosgrove has been a faculty member of the Biological and Agricultural Engineering Department of the University of Idaho at Idaho Falls since May of 2002. She is a hydrogeologist who specializes in water supply issues on the eastern Snake River Plain in southeastern Idaho and teaches courses in Environmental Science. Dr. Cosgrove has a Ph.D. and M.S. degree in hydrogeology from the University of Idaho in Idaho Falls, Idaho and an M.S. degree in Industrial Engineering and a B.S. degree in Mathematics from the University of Illinois in Champaign, Illinois.

Don Dixon was born, raised, and educated in the Idaho Falls area. He graduated from Idaho State University with a BA in Business Administration, and then served two years in the military. He farms west of Idaho Falls and ranches of Lima, Montana. Don is active in Idaho Cattleman, Farm Bureau, Idaho Potato Commission, New Sweden Irrigation District, and commodity groups. He is current President of the Board of Directors for the Eastern Idaho State Fair and has worked for twelve years for Senator Mike Crapo as his State Director of Agriculture. He and his wife, Georgia, have four children, one of which is carrying on the farm and ranch activities.

Geoffrey Gamble became the 11th president of Montana State University in December of 2000. Dr. Gamble was the Provost and Senior Vice President at the University of Vermont and served as Chief Academic Officer. Prior to his service at the University of Vermont, Dr. Gamble was at Washington State University where he served as Department Chair, Director of the Museum of Anthropology, Vice Provost and Interim Provost. Dr. Gamble is the author of two books and a dozen articles on Native American languages. He has won grants from the National Endowment for the Arts and the National Endowment for the Humanities. Dr. Gamble holds a B.A. in English from Fresno State College, an M.A. in Linguistics from California State Fresno and a Ph.D. in Linguistics from the University of California, Berkeley.

Lorents Grosfield is a third-generation cattle rancher from Big Timber. He served in the Montana Senate for three terms. During that time, he chaired the Senate Natural Resource Committee for two sessions, and sat on the Environmental Quality Council for eight years. He was appointed to the state's Reserved Water Right Compact Commission nearly 15 years ago, and now is chair of the Forest Service negotiating team, which has just finalized surface and ground water compacts for all of Montana's federal forest lands (subject to legislative approval).

Dan Jewell, P. E., is the Area Manager for Reclamation's Montana Area Office located in Billings, Montana. A native Montanan, he is a registered professional engineer and holds a B.S. in agricultural engineering from Montana State University at Bozeman. Jewell began his Reclamation career in 1980 as a rotation engineer at the Missouri-Souris Projects Office (now Dakota's Area Office) in Bismarck, North Dakota. Since that time, he has held technical and management positions at locations within both the Mid-Pacific and Great Plains Regions. Immediately prior to joining the Montana Area Office in 2001 as Deputy Area Manager, Jewell was assigned as a special staff assistant to the Great Plains Regional Director. While there, he served as the U. S. Section secretary of two International Joint Commission boards, the Garrison Joint Technical Committee, and the Garrison Consultative Group.

Dan Keppen is Executive Director for the Family Farm Alliance (Alliance), a non-profit association that advocates for family farmers, ranchers, irrigation districts and allied industries in 17 Western States. The Alliance is a grassroots-based organization that puts Congressional and Administration staff members into direct contact with water users and local water agencies. He has over 17 years experience in association management, water resources, power and environmental policy, facilities design, planning, economic analyses and contract administration in the public and private sectors. He has represented agricultural water users in previous advocacy positions with the Northern California Water Association and the Klamath Water Users Association, worked one year as the special assistant to the Bureau of Reclamation regional director in Sacramento, California, and worked as a water resources engineer in California and Oregon. He currently lives in the Klamath Basin of southern Oregon with his wife and two children.

Lora Lucero, AICP, Esq. is a land use attorney and city planner with a consulting practice in Albuquerque, New Mexico. She is the Editor of *Planning and Environmental Law*, a monthly journal published by the American Planning Association, and is staff attorney for the APA's Research Department and *Amicus Curiae* Committee. She is also Contributing Editor to Thomson West's *Zoning and Planning Law Report*. Ms. Lucero has consulted with the New Mexico Attorney General's Office in drafting reforms to the N.M. Subdivision Act; consulted with numerous municipalities and counties in N.M. on growth and development issues; and was a founding board member of 1000 Friends of New Mexico. Ms. Lucero has a B.A. in Urban and Regional Planning from the University of Washington (Seattle) and a J.D. from Santa Clara University School of Law (California).

Carol Macbeth is the Central Oregon Advocate for 1000 Friends of Oregon, a nonprofit organization dedicated to the support of Oregon's land use planning system as a means for enhancing the quality of life for all Oregonians by building livable urban and rural communities, protecting family farms and forests, and conserving natural and scenic areas. Ms. Macbeth is based in Bend, Oregon, where she is actively involved in protecting the land base of the working family farms and ranches of Central Oregon. The region is experiencing a period of rapid population growth and increasing demands for water and water rights which compete with traditional and still dominant agricultural water use. Ms. Macbeth holds a master's degree from the Duke University School of Forestry and a B.A. in Chemistry/Biology from Wellesley College. Prior to joining 1000 Friends of Oregon, she worked as an ecosystem ecologist in the private and nonprofit sectors in the United States and Europe, specializing in ecological assessment and wildlife habitat restoration.

Whitney MacMillan is a businessman and philanthropist. He is a member of the Yale College class of 1951 and has served on the Yale President's Council on International Activities. He retired in 1995 as chairman and CEO of Cargill, the world's largest privately owned company, responsible for more than a quarter of the world's grain trade. He has served on many boards, including the Trilateral Commission, the Council on Foreign Affairs, CARE International and The Mayo Foundation, and was chairman of the EastWest Institute. Whitney and Betty MacMillan Center for International and Area Studies at Yale is the University's focal point for encouraging and coordinating teaching and research on international affairs, societies, and cultures around the world.

Matthew McKinney is Director of the Public Policy Research Institute at The University of Montana. The Institute fosters collaborative governance to sustain communities and landscapes. Prior to his current position, Matthew served as the founding director of the Montana Consensus Council for 10 years. During the past 20 years, he has designed, facilitated, and mediated over 50 public dialogues, including citizen participation and multi-party negotiations on issues related to federal land management, water policy, fish and wildlife, land use planning and growth management, public health, tax policy, and campaign finance reform. Mr. McKinney received a Ph.D. in Natural Resource Policy and Conflict Resolution from The University of Michigan. He has published numerous articles in journals and books, and is co-author of *The Western Confluence: A Guide to Governing Natural Resources* (Island Press, 2004). Matthew serves on the board of advisors for the Rocky Mountain Land Use Institute and the International Chapter of the International Association for Public Participation. He is a Senior Lecturer at The University of Montana's School of Law; a faculty associate at the Lincoln Institute of Land Policy; and a senior partner with the Consensus Building Institute. Matthew was a research fellow at the John F. Kennedy School of Government, Harvard University in 2000 and 2002. He lives with his wife and three daughters in Helena, Montana.

Warren Muir is Executive Director of the Division on Earth and Life Studies of the National Academies. Chartered by the U.S. Congress in 1863 to honor top scientists, engineers, and doctors with membership, the National Academies are a non-governmental, non-advocacy, non-profit national organization. The Division on Earth and Life Studies includes twelve boards that produce reports on all aspects of the environment; the life, geological and chemical sciences and technology; agriculture; global change and sustainable development; natural resources; radiation; laboratory animals; natural and human-caused disasters; as well as homeland security issues. Warren received his B.A. from Amherst College. He was awarded M.S. and Ph.D. degrees from Northwestern University in Chemistry. He has postdoctoral training in epidemiology from The Johns Hopkins University. From 1971-77, he was Senior Staff Member for Environmental Health for the Executive Office of the President, Council on Environmental Quality. Dr. Muir served at USEPA from 1977 to 1981, as first Deputy Assistant Administrator for Testing and Evaluation and then as Director of the Office of Toxic Substances. From 1981 until he joined the staff of the Academies in 1999, he was President of the Hampshire Research Institute and of Hampshire Research Associates, Inc. and was principal investigator and/or author on many studies on risk assessment, pollution prevention, toxic chemicals in commerce, and environmental data. During that time he also was a member of the adjunct faculty of The Johns Hopkins School of Hygiene and Public Health.

Bill Murdock has been a Gallatin County Commissioner for nine years. He and his wife Maggie have three children – Pete, Winnie and Lee. He has been a resident of Gallatin County for 33 years. He was the Executive Director of the Big Sky Owners Association for seven years and owned a ski shop in Bozeman for 12 years. Prior to becoming a Commissioner, he was also a Gallatin County planner for five years. Commissioner Murdock was instrumental in the creation of the County's Open Lands Board and is an advocate for county planning. He has a B.S. in Business from Syracuse University and a Masters in Public Administration from Montana State University. He is an avid cross-country skier, runner and climber, and loves the outdoors and Greater Yellowstone ecosystem.

Jim Posewitz was born in 1935. After introducing himself to the joys of hunting, fishing and trapping he moved to Montana in 1953 pursuing fish and wildlife management studies. After graduation from Montana State University he spent 32 years with the Montana Department of Fish, Wildlife and Parks, leading the agency's ecological program for 15 years. In 1993 Jim founded Orion: The Hunter's Institute, a nonprofit conservation organization dedicated to the preservation of ethical hunting and wild resources. In association with that work Jim has published three books: *Beyond Fair Chase; Inherit the Hunt;* and his latest, *Rifle in Hand*. Jim has been executive director of the Cinnabar Foundation since its inception in 1983. Cinnabar awards environmental protection and wildlife conservation grants in Montana and the Greater Yellowstone Ecosystem. Jim has pursued an intense interest in the essence of the hunt and the history of the hunter-conservationist. As a result, he holds an appointment as adjunct

professor of history and philosophy at Montana State University. His awards include the American Motors Conservation Award; Montana State University's Blue-Gold Award for "*distinguished services which have contributed to benefit mankind*" and, the 2004 Outdoor Life Conservation Award for his contribution to our national conservation effort.

Gretchen Rupp is Director of the Montana University System Water Center, one of the 54 water research and education institutes that are based at land grant universities throughout the nation. Gretchen has an undergraduate degree in biology from Carleton College and an MS in Civil & Environmental Engineering from Utah State University. She has worked as a marine biologist, a consulting biologist and engineer, and an Extension engineering specialist. She has served as Director of the Water Center, based at Montana State University-Bozeman, since 2000. Gretchen is a licensed professional engineer whose chief professional focus in recent years has been water quality and treatment.

Mary Sexton is from Great Falls, Montana where she graduated from CM Russell high school. She holds degrees from Stanford University and the University of Montana. She taught high school in Hamilton, Montana and was administrator of The Nature Conservancy's Pine Butte Swamp Preserve, west of Choteau. She is involved with agriculture and tourism businesses. Sexton has served on boards including the Public Wildlife/Private Lands Council, BLM Resource Advisory Council, and the Ravalli County Planning Board. Sexton was a Teton County Commissioner from 1999-2004, and she is currently Director of the Department of Natural Resources and Conservation (DNRC). She has been involved with the DNRC Water Resources Division working group on Groundwater/Surface water issues

Lawrence E. Susskind is Ford Professor of Urban and Environmental Planning at the Massachusetts Institute of Technology (MIT) where he has served on the faculty for 35 years and currently directs the Graduate Program in Environmental Policy and Planning. He is also Vice-Chair for Instruction at the Program on Negotiation at Harvard Law School which he helped to found in 1982 and where he heads the Public Disputes Program and teaches advanced negotiation courses. In 1993, Professor Susskind created the Consensus Building Institute, a not-for-profit company that provides mediation services in complicated disputes around the world. At present, he is leading CBI's efforts to mediate Bedouin land claims in the southern desert in Israel. In Canada, Australia, New Zealand, and the United States, Professor Susskind has been involved in a wide range of effort to address the land claims of First Nations. Professor Susskind's most recent book, "Breaking Robert's Rules: The New Way to Run Your Meeting, Build Consensus and Get Results" (Oxford University Press, 2006), synthesizes what he has learned about consensus building techniques and strategies that work most effectively in the public arena. He is the author of 15 other books including "Environmental Diplomacy" (Oxford, 1995), "Negotiating Environmental Agreements" (Island Press, 1999), "Dealing with an Angry Public" (Free Press, 1994), and the award-winning "Consensus Building Handbook" (Sage, 1999). Professor Susskind has mediated more than fifty disputes and has served as a court-appointed special master, and helped to facilitate negotiations on a range of global environmental treaties. He offers several executive training programs each year and has served as a guest lecturer at more than two dozen universities around the world.

A. Dan Tarlock is currently a Distinguished Professor of Law at the Chicago-Kent College of Law. He holds an A.B. and LL.B. from Stanford University. His teaching and research interests include environmental law, property, land use controls, biodiversity conservation and water law. He has previously been a permanent member of the faculties of the University of Kentucky and Indiana University, Bloomington. He is the author of numerous articles and books on environmental law, land use controls and water law including "Environmental Protection: Law and Policy" (4th edition, Aspen Publishing, 2003 with Frederick Anderson, Robert Glicksman, David Markell, Daniel R. Mandelker); "Water Resources Management" (with James Corbridge and David Getches, 5th edition, 2002); and "Law of Water Rights and Resources" (1988 with annual updates). Professor Tarlock has served on several National Research Council/National Academy of Sciences committees studying the protection and recovery of stressed aquatic ecosystems, including a ten-year review of the operation of Glen Canyon Dam on the Colorado River and a study of the restoration of the Missouri River ecosystem, published as "The Missouri River Ecosystem: Exploring the Prospects for Recovery" (2002). From 2001-2004 he was a member of an NRC/NAS committee to assess the future of the U.S. Army Corps of Engineers. In 1998, he was the chief report writer for the Western Water Policy Review Advisory Commission report, "Water in the West," which was one of the first major federal publications to examine the relationship between urban growth and water use.

John Tubbs is the Chief of the Resource Development Bureau of the Department of Natural Resources and Conservation. John has worked for the State of Montana for 22 years and currently administers grant and loan programs including the Renewable Resource Grant and Loan, Reclamation and Development Grants, Irrigation Development, State Revolving Fund, and Regional Water System programs. He works closely with local governments, state agencies, the Legislature, tribal governments, federal agencies, and Congressional staff. Before managing financial assistance programs for the department, John was an economist in the Energy and Water Resources divisions. John was the Vice-President of Ambrose Tubbs, Inc from 1993 to 2001. John received a M.A. in Economics and a B.S. in Forestry, both from the University of Montana, Missoula. He is married to Stephenie Ambrose Tubbs and they have two sons. John and Stephenie met at the Gates of the Mountains marina in 1976 when the Ambrose family was following the Lewis and Clark Trail through Montana. The Tubbs family enjoys Montana's rivers and landscapes as active hikers, birders, skiers and sportsmen.