

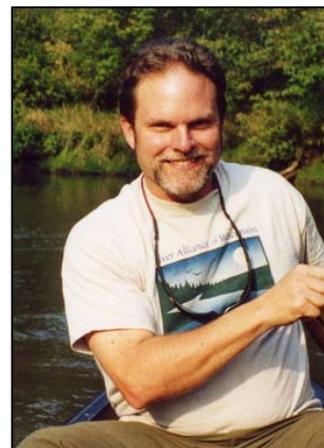
## Nutrients and Water Quality: A Region 8 Collaborative Workshop

February 15-17, 2011 Salt Lake City, Utah

### *Speaker Biographies*

#### **Todd Ambs**

Todd Ambs is President of River Network. For more than 30 years, Todd has worked in the environmental policy field. From 2003 until becoming President of River Network in May, 2010, Todd ran the Water Division for the Wisconsin Department of Natural Resources. His extensive experience in both state government and nonprofit organizations includes serving as Executive Director of two statewide river organizations, Policy Director for the Ohio Attorney General and Senior Policy Analyst for the Wisconsin Department of Justice. Todd has served on a number of water-related boards and commissions and was the lead negotiator for the State of Wisconsin during the development of the Great Lakes Compact. Todd still serves on the Great Lakes Protection Fund.



#### **Walt Baker**

Walt graduated with a B.S. Degree in Civil and Environmental Engineering from Utah State University. He worked for a consulting engineering firm before joining the Division of Water Quality in 1984. He was appointed Division Director and Executive Secretary of the Water Quality Board in April 2005. He serves as chair of the Water Quality Committee on the Western States Water Council, as Vice-president of the Association of State and Interstate Water Pollution Control Administrators (ASIWPCA), and as a Commissioner on the Utah Lake Commission. He is a licensed professional engineer in Utah.



#### **Al Basile**

Al is a biologist with EPA Region 8. His educational background includes degrees from Cobleskill College, Colorado State University, and the University of Connecticut with a focus in aquatic biology. He has worked for the Colorado Division of Wildlife, Connecticut Department of Environmental Protection, as an environmental consultant, and for the past 12 years for the EPA where he has spent most of his time on TMDL and nutrient criteria development. Prior to joining Region 8 in July of last year, he served as the nutrient criteria coordinator for EPA Region 1, which encompasses the six New England states.



**Thomas Bass**

Tommy Bass is a Livestock, Environment Associate Specialist for Montana State University Extension. Tommy’s current responsibilities include providing education and technical assistance to producers and other stakeholders regarding manure and nutrient management, AFO/CAFO compliance, and matters of air and water quality related animal agriculture. For seven years he served producers as an animal waste specialist with Cooperative Extension at the University of Georgia and has worked on projects and provided education across the U.S. and Canada. He joined MSU in July of 2007. His experience includes work with all livestock species as well as poultry. Tommy’s research and outreach interests also include mortality management, composting, minimum technology waste and water treatment systems, manure and fertilizer equipment calibration, and agriculture’s role in watershed planning.



**Robert Brobst**

Robert Brobst is employed as an environmental engineer for the USEPA in Denver, CO. He has conducted inspections and process evaluations of wastewater facilities and land application sites for the last 30 years. Currently his responsibilities include Regional Biosolids Program Manager, National Center of Excellence in Biosolids and member of EPA’s Pathogen Equivalency Committee. Bob has conducted research in beneficial use of biosolids in the reclamation of arid lands and areas devastated by wildfires. He is currently in a Ph.D. program at Colorado State University, Department of Soils and Crop Sciences. He received a master’s of science in Civil Engineering from the University of Colorado-Denver in 1996, a bachelor of science in Engineering from Michigan Technological University in Houghton, MI, in 1977 and a bachelor of science in Environmental Science from Lake Superior State University, Sault Ste. Marie, MI, in 1976. He is a registered Professional Engineer in Colorado and Wisconsin.



**David Clark**

David is HDR’s National Director of Wastewater and leads strategic efforts in understanding wastewater market issues as they affect HDR clients. David has recently prepared a Nutrient Regulatory Issues White Paper for the Water Environment Research Foundation Nutrient Challenge project addressing wastewater utility issues with surface water discharges and appropriate discharge permit structures for nutrients. Recently, David has managed the facilities planning effort for Spokane County for a new 8 mgd state-of-the-art membrane water reclamation facility discharging to the Spokane River to meet some of the most restrictive effluent phosphorus limits in the nation at 42 ug/l. This project includes treatment at the limits of technology, in combination with point source/nonpoint source water quality trade, to off-set phosphorus loading to the Spokane River by elimination of 15,000 on-site septic systems.



**Russ Clayshulte**

Russ holds a Master of Science degree in Biology, University of Guam, where he spent 12 years as a marine biologist and water resources specialist. After his Island adventures, he was the Environmental Resource Manager/Director with the Denver Regional Council of Governments for over 16 years. He now owns and operates a small water and environmental resource consulting business, RNC Consulting LLC. Russ has over 24-years of experience in the environmental and water resources fields. Research and professional expertise includes ecosystem ecologist, marine and freshwater biologist, lake & reservoir limnologist, and extensive work in the fields of geology, paleontology, water chemistry, hydrology, and species systematics. Russ has testified before the Colorado Water Quality Control Commission in over 78 rulemaking and informational hearings and assisted in proposing changes to 49 regulations. Russ is the manager of the Bear Creek Watershed Association and has assisted with its watershed management program for 23 years.

**Bob Clement**

Bob received his M.S. Degree in Environmental Engineering from the University of Colorado, and his Bachelors Degree in Molecular, Cellular, and Developmental Biology and Biochemistry from University of Colorado. Bob also holds an Associates Degree in Water and Waste Water Technology from Red Rocks Community College in Denver. Bob is a "A" licensed operator in water treatment in the State of Colorado and has 6 years of experience as an operator for City of Englewood's 34 MGD surface water treatment plant. For the last 22 years, Bob has worked with EPA Region 8 providing technical assistance in the arena of drinking water treatment. He has worked with the National Microbial/Disinfection Byproduct workgroup since its inception 18 years ago assisting in the development of 8 rules. Bob was responsible for creating regulations that ensured that open finished water reservoirs were either treated or covered, a public health hazard that impacted tens of millions at some of their largest PWSs.

**Mike Ell**

Mike currently administers the Surface Water Quality Management Program in the North Dakota Department of Health's-Division of Water Quality. The Surface Water Quality Management Program has responsibility for surface water quality monitoring and assessment, including the Section 305(b) reporting, the Section 319 Nonpoint Source Management Program and TMDL development. The program also supports the water quality standards program, including the development of nutrient criteria. Mike was first employed by the Department of Health in 1985 where he worked in the Atmospheric Deposition Program. Mike has been in the Division of Water Quality since 1987 and in his current position as Program Administrator since May 1991. Mike graduated from NDSU with a BS in Zoology in 1982 and MS degree in 1988 where he studied the effects of weed harvesting on the biota of Lake Metigoshe.

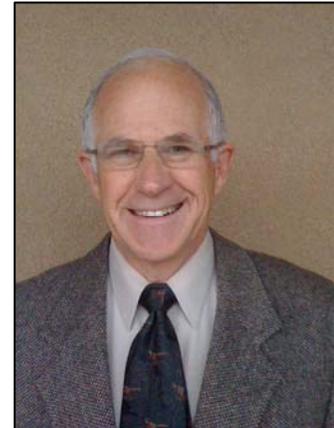


**Rick Fasching**

Since 2009, Rick has provided direct assistance and training to employees and producers ensuring that the latest and most effective agronomic technology is appropriately utilized to treat various resource concerns throughout the western U.S. He specializes in providing technology transfer of agronomic principles and practices that enable conservationists and consultants to effectively assist producers in adopting environmentally sound conservation measures. Rick was previously the USDA NRCS State Agronomist in Montana for 18 years where he was responsible for developing and implementing the agronomics programs and practices across the state. Rick also spent time in Minnesota, North Dakota, and Oregon as an agronomist and district conservationist during his 31 years of service with NRCS. Born on a dairy farm in central Minnesota, Rick graduated from NDSU with a degree in Agriculture majoring in Agronomy and received his M.S. in Agronomy from Montana State University.

**Tad Foster**

Tad is co-counsel to the Colorado Nutrient Coalition which was created to develop a voice for the regulated community on anticipated nutrients standards being considered by the Water Quality Control Division. Colorado has had a long history of contested rule making hearings as well as consensus-based rulemaking processes. Tad has been a part of that history since the late 1970s. Including membership on the Water Quality Control Commission from 1981-1987, and representation of clients from around the state on nearly every major rulemaking before the Commission. He is also licensed in California and participated in defending a \$300 million lawsuit derived from stringent nutrients standards preventing discharge to a stream, which precluded delivery of reuse water for downstream reuse.

**Kristin Gardner**

Kristin Gardner has been serving as Executive Director of the Blue Water Task Force, since 2007. The Blue Water Task Force, based in Big Sky, Montana, is a non-profit watershed group promoting stewardship of the Gallatin River through community education, citizen involvement in water quality monitoring, and scientific data collection. Kristin recently completed a PhD in Environmental Science and Ecology at MSU in which her doctoral research informed the development of the Upper Gallatin Nutrient TMDL. Originally from Portland, Maine, she has a Master's in Water Resource Engineering and Environmental Policy from Tufts University and experience working for nonprofit organizations. For her Master's research she worked closely with the Nantucket Land Council, a non-profit land trust in Nantucket, Massachusetts, and the Nantucket community on groundwater quality issues. In her free time, Kristin enjoys playing outdoors, listening to live music and traveling with her family.



### **Jay Gilbertson**

Jay Gilbertson is the Manager of the East Dakota Water Development District, a position he has held since 1994. The District encompasses 10 counties along the eastern edge of SD, centered on the watershed of the Big Sioux River. District activities promote the conservation, development, and proper management of district water resources, and it provides technical, organizational, and financial assistance to prospective and existing projects. Previously, Jay worked for the South Dakota Geological Survey, where he specialized in mapping glacial deposits and landforms, along with aquifer delineation. He holds degrees in geology from the University of Wisconsin-River Falls (BS) and the University of Minnesota (MS). In his spare time, he is a soccer referee and has recently taken up disc golf.



### **Steve Gunderson**

Steve Gunderson has directed the Water Quality Control Division at the Colorado Department of Public Health and Environment (CDPHE) since 2005. The Division implements and enforces the drinking water and water quality policies and regulations established by the Governor-appointed Water Quality Control Commission. It functions primarily under the auspices of 2 federal laws: the Clean Water Act and the Safe Drinking Water Act. Steve joined the CDPHE in 1989. From 1992 through 1998, Steve was director of the department's Emergency Management Program, which prepared for and responded to public health and environmental emergencies in Colorado. From 1998 to 2005, Steve managed the state's oversight of the environmental cleanup of the former Rocky Flats nuclear weapons plant, located 14 miles northwest of downtown Denver. At a total cost of almost \$7 billion, Rocky Flats is the largest successful site cleanup in the history of the federal Superfund legislation. Steve has a Bachelor of Arts degree in geology from Augustana College in Rock Island, Illinois, graduating magna cum laude and Phi Beta Kappa. He has a Master of Science degree in geology from the University of California, Berkeley.

### **Mary Jo Kealy**

Mary Jo Kealy has over 28 years experience as a professional economist, specializing in the valuation of environmental amenities and ecological services using cost-benefit analysis, risk-benefit analysis, Habitat Equivalency Analysis (HEA), and Net Environmental Benefit Analysis (NEBA). Dr. Kealy's experience with valuing ecological assets and/or evaluating ecological trade-offs covers a variety of contexts including, land asset management, water resource management, managing natural resource assets for sustainability, NEPA documentation, regulatory compliance (e.g., NRDA, CWA, RCRA), FERC licensing, and permitting. She is involved in several on-going water resource and natural resource allocation projects involving diverse stakeholder interests, ecological values, and incentive-based solutions. Examples include California Delta Plan EIS, Utah nutrient water quality benefit-cost analysis, City of Damascus ecological services protection implement plan, developing a comprehensive least cost approach to statewide transportation planning for Oregon Department of Transportation and developing a methodology for conducting a sustainable development business case evaluation.



### **Paul Krauth**

Paul is a native Utahan, born and raised in Salt Lake City. After a long and *undistinguished* career as a professional student earning three engineering degrees (a geek cubed), he went to work for the Utah Division of Water Quality in 1989. He worked for two and a half years in the UPDES permits program, writing discharge permits, during this time he also was involved with pretreatment, sludge and storm-water issues. In September 1992, Paul began working as the Outreach Coordinator for the Division. In this capacity he is involved in providing technical and operational assistance to all of Utah's wastewater facilities. Additionally he does the process reviews for all proposed wastewater facilities within the State. He holds wastewater certifications in small lagoons systems, grade IV collection and grade IV treatment. He is also a licensed professional engineer in the state of Utah. And was the 5 time winner of the *clean lunch plate* award at Hillview elementary.



### **Bill Lewis**

William Lewis is Professor of Biology, Director of the Center for Limnology and Associate Director of the Cooperative Institute for Research in Environmental Sciences on the Boulder Campus of the University of Colorado, where he has been since 1974. Dr. Lewis and his students have studied lakes, streams, and wetlands in Colorado and in the American and Southeast Asian tropics. His interests include biogeochemistry of inland waters and their associated watersheds, foodwebs and biotic productivity, and environmental factors controlling structure and function of aquatic ecosystems.



### **Michael Luers**

Mike Luers has over thirty years of experience in working with environmental issues. He holds the position of General Manager of the Snyderville Basin Water Reclamation District (SBWRD). The Reclamation District provides wastewater services to the Park City and Snyderville Basin area and is responsible for reclaiming over 1.2 billion gallons of wastewater per year. The Reclamation District currently operates one of the first tertiary reclamation facilities in the State of Utah. Mike holds a Bachelors Degree in Fisheries and Wildlife Management, a Master Degree in Environmental Biology and a MBA. He is a member of numerous professional associations and has served on a number of local boards. Mike is active with a number of community organizations including the Swaner Eco Center, East Canyon Watershed Group and the Park City Sunrise Rotary Club.



### **Jim Martin**

James Martin oversees EPA Region 8, comprising of CO, MT, ND, SD, UT and WY and 27 tribal nations. He has worked in the environmental field for nearly 30 years, most recently as the executive director of the CO Department of Natural Resources and the executive director of the Colorado Department of Public Health and Environment. Prior to his career in public service, James managed a nonprofit focused on energy, public lands, and water issues, and spent a decade as the senior attorney for the Environmental Defense Fund. He also headed the Natural Resources Law Center at the University of CO School of Law where he managed an interdisciplinary public policy think tank and taught advanced seminars on energy law, policy and land-use planning. He started his legal career working for four Columbia River treaty tribes in efforts to secure their treaty fishing rights. James has a bachelor's degree from Knox College and a law degree from Northwestern Law School, Lewis and Clark College.



### **Mac McKee**

Mac McKee has been active in domestic and international water resources planning and management projects for more than 30 years. His diverse experience has included assignments in more than a dozen countries in such diverse areas as flood control planning and design (Philippines), development of a national environmental baseline document (Uzbekistan), water quality management (Samoa), integrated river basin planning and management (India), and development of a comprehensive water resources master plan (West Bank and Gaza Strip). His current research is focused on the improvement of irrigation canal and reservoir operation efficiency through the use of statistical learning theory and remote sensing. Dr. McKee is the director of the Utah Water Research Laboratory at UT State University, and he teaches graduate and undergraduate courses in water resources systems analysis, water resources engineering, open channel hydraulics, and water resources planning and management.



### **Jennifer Meints**

Jennifer is the Agriculture Advisor for Region 8 of the U.S. EPA, located in Denver, CO. In this capacity, she serves as a liaison between the agricultural community and the Region, and provides expert advice on agricultural environmental programs and policies. Jennifer has worked as an Environmental Engineer for EPA Region 8 for over seven years. During this time, the majority of her work has been with the water group where she worked with Concentrated Animal Feeding Operations. Prior to joining EPA in 2002, Jennifer worked at the Rocky Flats Environmental Technology Site as a Pollutant Source Control Engineer, where she helped ensure the site's compliance with environmental regulations. From 1996 to 2002, Jennifer worked in the Environment, Health, and Safety Division for Kodak in Windsor, CO, helping to ensure the plant's compliance with numerous environmental regulations. Jennifer obtained a Bachelor of Science degree in Environmental Engineering from Colorado State



University in 2002, and a Master of Science in Environmental Science and Engineering from the Colorado School of Mines in Golden, Colorado in 2005.

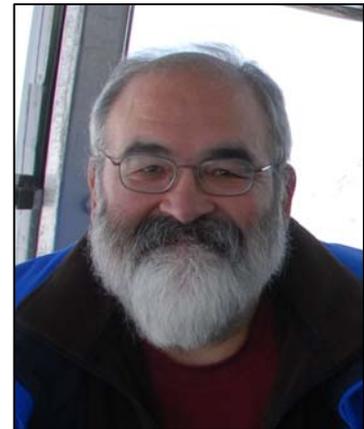
### **Nancy Mesner**

Nancy Mesner is an Associate Professor in the Department of Watershed Sciences and the Associate Dean of the College of Natural Resources at Utah State University. She conducted her graduate work in limnology and environmental engineering at the University of Washington and worked for several regional and state agencies and as a private consultant before coming to Utah State University in 1999. Nancy teaches, conducts research and is USU's Extension Specialist in water quality. Her extension and research programs focus on improved monitoring to better evaluate impacts to our waters, and on development and assessment of water quality and watershed K-16 education programs.



### **Leland Myers**

Leland Myers is General Manager of Central Davis Sewer District. He has been involved in the sewer industry for a long time and serves on the Water Quality Board, The Blue Stakes Board, and the Great Salt Lake Advisory Council. He is happy to have his head in a manhole where he can monitor sewer on a close personal basis. He has a master's degree in Environmental Engineering and is a registered professional engineer. He is also a certified wastewater operator and owns two plungers if you ever need to borrow one.



### **Nanette Nelson**

Nanette has completed a variety of economic valuation studies over the last 10 years. She has used the contingent valuation method to estimate visitors Willingness to Pay (WTP) for improved air quality in national parks and the choice experiment method to estimate WTP for improved water quality in a north Georgia watershed. She is currently involved in estimating the benefits associated with implementing nutrient criteria in Utah. Ms. Nelson has also worked on several projects surveying the public on a variety of topics from energy development in Wyoming to proper food storage in bear country. She has been involved in all aspects of economic valuation studies including questionnaire design, focus group testing, implementation, econometric analysis and reporting. Since 2006, Ms. Nelson has been employed as an Assistant Research Scientist at WYSAC, a research unit of the University of Wyoming. She received M.S. degrees in 2000 from the University of Georgia in both Agricultural Economics and Conservation Ecology.



### **Jeff Ostermiller**

Jeff Ostermiller currently works for Utah's Division of Water Quality where he has played a number of roles. He initiated the development and implementation of a scientifically rigorous biological monitoring and assessment program. He also managed DWQ's Monitoring Section, who collects the majority of chemical, biological, and habitat data for Clean Water Act programs. Jeff currently directs the Water Quality Management Section with responsibilities that include Water Quality Standards, assessment of beneficial use support, and other related programs. He is currently working with staff and cooperators on implementing several research projects to support the development and implementation of nutrient criteria for Utah's streams and lakes.



### **Ginger Paige**

Ginger Paige is an Associate Professor in the Department of Renewable Resources and Water Resources Specialist for the Cooperative Extension Service at the University of Wyoming. Ginger received a BA in Political Science from the Colorado College. Following three years with the Peace Corps in Mali, West Africa, she earned a MS degree in Soil Physics from the University of Massachusetts and a Ph.D. in Watershed Hydrology and Management from the University of Arizona. Prior to joining the faculty at the University of Wyoming, Ginger worked as a research scientist for the USDA –ARS Southwest Watershed Research Center in Tucson, Arizona. Currently, Ginger is working on several water related issues in Wyoming including assessment of the impacts of energy development on soil and water resources and improved implementation of hydrologic instrumentation within the state. She leads the Water Quality Monitoring Training and Certification program for the Conservation Districts in Wyoming. Her professional interests include measurement and modeling of hydrologic processes, development of watershed management and assessment tools, and evaluation of fire effects on rangeland hydrologic and erosion processes.

### **Mark Petersen**

Mark Petersen graduated from Utah State University with degrees in Range Ecology and Watershed Hydrology with an emphasis on water quality. Mark had a 32 year career with the USDA NRCS where he worked as a rangeland specialist, stream/riparian restoration specialist, watershed planning specialist, and water quality specialist. After 32 years with USDA, Mark retired from federal service and went to work helping Utah Farm Bureau develop a proactive program to help farmers and ranchers assess their operations and correct any environmentally unacceptable conditions. Environmental issues that he works on with farmers and ranchers in Utah include water quality, air quality, sensitive species, and stream/riparian health. In his capacity with Utah Farm Bureau, Mark helped develop the Utah Strategy to Address Pollution from Animal Feeding Operations, which the Utah Division of Water Quality published in 2000. This Strategy has guided the AFO/CAFO program in Utah for the past 10 years. Mark has coordinated implementation of the Agricultural Partners portion of the Strategy.



**Florence Reynolds**

Florence Reynolds has a BS in Biology and a Masters degree in Management. Florence has been in the water/wastewater field since 1973. Starting with Salt Lake City Department of Public Utilities in 1987, she is currently employed as Water Quality and Treatment Administrator. While working in the utility, Florence has had the opportunity to work in water, wastewater and storm water. Florence has been active in AWWA at the local and national level, serving as Intermountain AWWA Chair in 2010.

**Trace Robinson**

Trace Robinson is the Public Works Director and City Engineer for Riverton City, UT. He has 27 years of experience dealing with all aspects of stormwater infrastructure design and has a strong commitment to the stormwater protection program. He has been involved with the development of many of the UPDES programs for Cities throughout the State including serving as a committee member, chairman, and trainer for the State RSI Program (Registered Stormwater Inspector Program). Mr. Robinson has worked in the local government sector and has experience in the development of stormwaters utilities, along with the management of MS4 and General Construction Permits. He has written several stormwater ordinances, SWPPS, and managed SWPP compliance inspections for several Cities. He has a Bachelors Degree in Civil Engineering and a Masters Degree in Water Resources Engineering from Brigham Young University. Mr. Robinson currently serves on the UT LTAP Board, UT Strom Water Advisory Committee, RSI training committee, and the UTAPWA Specification Committee.

**Don Rutledge**

Don Rutledge has been in production agriculture since graduation from Colorado State University, where he earned his B.S. in Animal Science. He has served on several boards including president of Colorado Corn Growers Association and president of Colorado Livestock Association. At the present time, he represents northeast Colorado on the Colorado State Ag Commission. Don is married, has two sons that farm with him, and one daughter. He enjoys marketing and traveling.

**Adam Sigler**

Adam Sigler is the Extension Water Quality Associate Specialist in the Land Resources and Environmental Sciences Department at MSU Bozeman. Adam has an MS in LRES from MSU, a BS in Watershed Science from UT State University and has been conducting water quality research, education, and outreach with MSU Extension since 2005. Adam is the MT coordinator for the USDA National Institute of Food and Agriculture National Water Program, teaches a junior level water quality course at MSU, works with watershed groups and tribes around MT to build water quality monitoring capacity, collaborates with the National Park Service's Greater Yellowstone Inventory and Monitoring team on water quality monitoring and conducts educational programming for private well and septic owners in MT.



### **Amanda Smith**

Prior to being appointed as Executive Director of the Utah Department of Environmental Quality, Amanda was the Legislative Director and Rural Advisor to Governor Huntsman. In this capacity she has worked on a broad array of natural resource, energy, water and economic development issues. Additionally, she has worked closely with the State Legislature on Governor Huntsman's priority issues. Before joining Governor Huntsman's office, Amanda was the Government Relations Director for The Nature Conservancy of Utah. Amanda received her under-graduate degree in Political Science from the University of Utah and her Juris doctorate degree from Gonzaga University School of Law. She is licensed by the Utah State Bar. Amanda has worked professionally on conservation issues regarding public lands, preservation of private lands, water resources and community planning. She has been a member of the Bureau of Land Management Resource Advisory Council, as well as the State Institutional Trust Lands Board of Trustees.



### **MaryLou Smith**

MaryLou Smith provides water policy collaboration services through the Colorado Water Institute at Colorado State University. She designs and facilitates group process for stakeholder groups working through complex water policy issues throughout Colorado and the West. Agricultural/urban/environmental water sharing strategies and the integration of land use planning with water supply planning are of prime interest. MaryLou grew up on an irrigated cotton and alfalfa farm in eastern New Mexico. She earned a master's degree in educational psychology from New Mexico State University and received facilitation and mediation training from CDR Associates. She served twelve years on the Fort Collins Water Board, and currently serves on CSU's Water Archives Advisory Board. She will be presenting a paper in October in Tehran for the International Committee on Irrigation and Drainage.

### **Patrick Snyder**

Patrick Snyder is an Environmental Senior Scientist with the South Dakota Department of Environment and Natural Resources. He has worked for the department for 20 years. Patrick is the department's water quality standards coordinator and team leader for his program's water quality monitoring team. This team of scientists are responsible for ambient water quality monitoring, fish flesh monitoring, fish kill investigations, water quality complaint investigations, environmental reviews, use attainability analyses, on-site wastewater regulations and wastewater treatment plant inspections. It has been twenty years since he kidnapped his wife from the big city life of St. Paul, Minnesota, and hustled her back to the prairies of South Dakota. They have five boys and one girl. Patrick is the First Assistant Chief of the Pierre Volunteer Fire Department and a firefighter on the Pierre Rural Fire Department. He helps head the local little league baseball association and coaches a number of youth sports including baseball, football, soccer and wrestling. He is also a certified high school football official.



### **Lori Sprague**

Lori Sprague is a hydrologist with the U.S. Geological Survey in Denver, Colorado. She currently conducts national nutrient studies for the National Water-Quality Assessment Program of the USGS, which collects information on water chemistry, stream habitat, and aquatic life to provide science-based insights on surface and ground water issues throughout the U.S. Prior to her work with the NAWQA program, she researched nutrient transport in the Chesapeake Bay watershed, drought effects on water quality in Colorado, and the fate of endocrine-disrupting chemicals downstream from municipal wastewater treatment facilities.



### **Cody Stanger**

Cody Stanger is a Senior Management Consultant with CH2M HILL. For more than a decade, he has worked with clients around the country to develop innovative analytical techniques that meet a variety of financial management and water resource planning needs. As lead technical consultant for the State of Virginia's Chesapeake Bay Pollutant Trading Program, he manages development of a regulatory compliance plan and organizes revenue sharing for one of the nation's largest nitrogen and phosphorus credit markets for municipal and industrial point source dischargers. He recently crafted a framework for the Utah Division of Water Quality to assess the local and state-wide economic impacts of implementing various nutrient standards for the state's wastewater treatment plants. He enjoys solitary time on the rivers and streams of the intermountain west, quietly pursuing wary trout with a fly rod. He lives in Herriman, Utah with his wife and three children.



### **John Stednick**

John Stednick is a professor of watershed science at Colorado State University. His area of expertise is the understanding of natural disturbances and land use effects on water quality and quantity. He earned a B.S in Forest Sciences and a Ph.D. in Forest Resources, both from the University of Washington. Recently-funded research projects include: streamflow mixing analysis using water isotopes, the effects of bark beetles on water resources; effects of coal bed natural gas water discharge on receiving waters; conjunctive use effects on water quality; and the applicability of temperature standards in undisturbed watersheds; Before coming to CSU he worked as a U.S. Forest Service hydrologist in Alaska, with other professional experiences as a commercial fisherman, fire fighter, EMT, and logger.

**Mike Suplee**

Michael Suplee has worked in the fields of fisheries and water-quality since the mid 1980s. He received his doctoral degree from Texas A&M University in 2000, where he had conducted research on mechanisms regulating phosphorus retention and release from lake sediments. While at Texas A&M, Dr. Suplee was also involved with research in the Gulf of Mexico on nutrient cycling and its effects on the nuisance brown tide. He has worked for the Montana Department of Environmental Quality since 1998. Over the past ten years Dr. Suplee has carried out a number of nutrient-related studies in Montana, including nutrient affects in prairie streams and public perception of what constitutes nuisance algal growth. At present, his focus is on the development of numeric nutrient criteria for the state's streams, rivers, and lakes. He also is actively working with a diverse group of stake holders on practical implementation procedures for nutrient standards.

**John Wagner**

John Wagner has been the Administrator of Wyoming Water Quality Division since 2003. He earned his Masters Degree in Water Resources from University of Wyoming. John has held various positions in the Water Quality and Land Quality Divisions of the Wyoming Department of Environmental Quality from 1971-2003.

**Reagan Waskom**

Reagan Waskom currently serves as the Director of the Colorado Water Institute and as Director of the Colorado State University Water Center. Dr. Waskom is a member of the Department of Soil & Crop Sciences faculty with a joint appointment to the Department of Civil and Environmental Engineering at CSU. In addition, Reagan currently serves as the Regional Director of the USDA-NIFA Integrated Water Program. Reagan received his BS and MS degrees from Texas A&M University and his PhD from Colorado State University in Environmental Soil Science. Dr. Waskom's recent research and outreach projects include: Irrigation water optimization in water limited environments, evaluation of alternatives to Ag water transfer, evaluation of Western households' perceptions and preferences for water use and acquisition, evaluation of municipal water conservation programs, development of best management practices for crop production, survey of current irrigation management practices to evaluate constraints to adoption. Current teaching responsibility at CSU is for GRAD592 – Graduate Water Resources Seminar. In addition, Dr. Waskom supervises the CSU Extension Water Outreach program and personnel.



### **David Waterstreet**

David Waterstreet has been working with Wyoming DEQ's Watershed Program for a little more than four years. His primary role is developing and administering surface water quality standards and managing other surface water programs for the Water Quality Division including: TMDLs, Nonpoint Source Grants, Section 305(b) and Section 303(d) listings of impaired streams, Section 404 permits and Section 401 certifications, the National Environmental Policy Act (or NEPA) Program, and the Surface Water Quality Monitoring and QA/QC programs. Before coming to Wyoming, David worked for Wyoming's DEQ equivalent in Texas, the Texas Commission on Environmental Quality, where he supervised the Storm Water Program and the State's Pretreatment program.

### **Ron Wiederholt**

Ron Wiederholt is a Nutrient Management Specialist with North Dakota State University. He is responsible for developing and implementing statewide manure nutrient management education and research at the Carrington Research Extension Center as well as on farms. He is the lead P.I. for the ND Discovery Farms. Ron earned his BS in Agronomy/Soil Science, at the University of Wisconsin and his MS in Agronomy, also at the University of Wisconsin. Ron's areas of expertise include manure nutrient mineralization, crop response to manure nutrients, nitrogen and phosphorous behavior in the environment and manure management water quality impacts.



### **Michael Wireman**

Michael Wireman is a hydrogeologist currently employed by the US EPA in Denver, CO, where he serves as a National Ground-Water Expert. He has a Master's degree in hydrogeology from Western Michigan University in Kalamazoo, Michigan, post MS work at the Colorado School of Mines and 25 years of experience in ground-water investigations in the Rocky Mountain west. He has served as a project manager for a private consulting firm where he directed ground-water exploration and development projects. In his current position he provides technical and scientific support to several EPA programs, other Federal agencies, International programs and ground-water protection / management programs in several western states. Mike manages research projects related to mine-site hydrology / geochemistry, ground-water sensitivity/vulnerability assessment, isotope hydrology, ground-water / surface water interaction and aquifer characterization. He has significant experience in the legal, scientific and programmatic aspects of ground-water resource management. He also has extensive experience in ground-water related work in the Baltic countries, Ukraine, Romania and Georgia. He has served as an adjunct professor at Metropolitan State College in Denver where he taught a class on Contaminant Hydrology and he teaches a class on fractured rock hydrology for the NGWA. He is a member of the Colorado Ground- Water Association, the National Ground Water Association, the Geological Society of America, and is the current President of the US Chapter of the International Association of Hydrogeologists.

