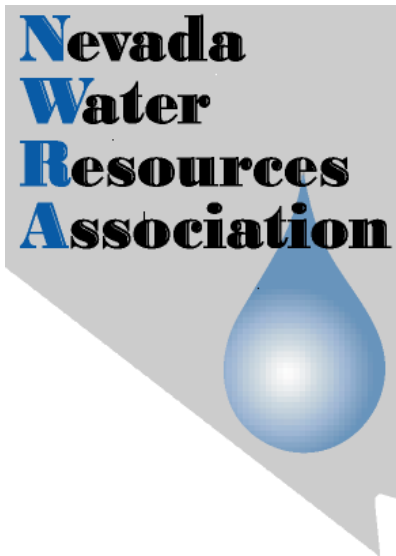


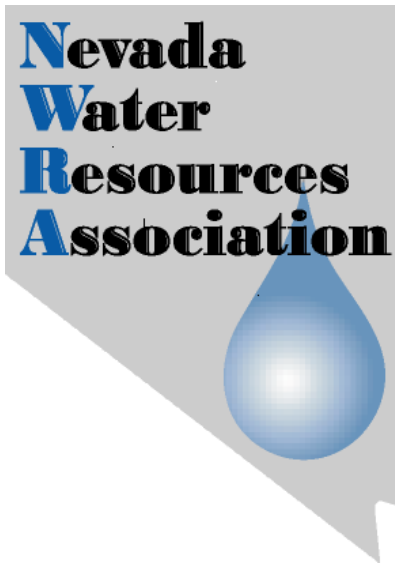
2011 NWRA ANNUAL CONFERENCE



February 1-3, 2011

SPEAKER BIOGRAPHIES

2011 NWRA ANNUAL CONFERENCE



**Opening Keynote Speaker
Wednesday, February 2, 2011
8:05 a.m. - 8:45 a.m.**

Eric L. Garner

As managing partner of Best Best & Krieger, **Eric L. Garner** oversees one of California's largest law firms with nearly 200 attorneys in eight offices across the state.

Since joining the firm in 1987, Garner has become one of the leading experts on water in California. He has litigated cases and negotiated key agreements involving major water bodies across the state, including the Sacramento-San Joaquin Delta, the Mojave River, the Santa Ana River, and groundwater basins beneath Santa Maria, Chino, Monterey and the Antelope Valley. More recently, he has guided renewable energy developers in their efforts to obtain water supplies for solar plants in the California desert.

Garner has also worked internationally, helping to craft water laws in South Africa, Trinidad and Pakistan. He is the first American to chair the [International Bar Association's Water Law Committee](#), and is in the midst of a two-year term in that role.

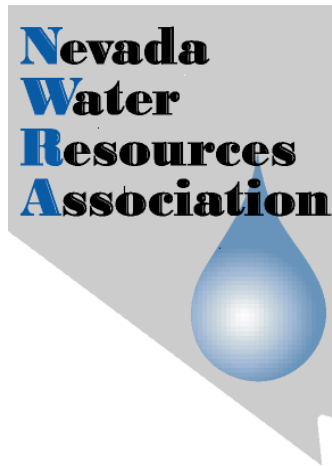
The Daily Journal, citing Garner's IBA committee chairmanship and expertise in water law, named him as one of the Top 100 lawyers in California.

Garner has also received the prestigious California Lawyer of the Year award from *California Lawyer* magazine for helping to settle a dispute among hundreds of farmers, ranchers and urban dwellers for the rights to the groundwater below Santa Maria, north of Santa Barbara.

As an author, Garner co-wrote California Water and the 2nd edition, [California Water II](#) – widely considered to be the leading text on the history, law and policy that guides the state's most precious resource.

Garner has been an adjunct professor of water law at the University of Southern California Law School and also has taught water law at UCLA and UC Riverside extension programs.

2011 NWRA ANNUAL CONFERENCE



**A Logical Connection? The Legal
Implications of Surface & Groundwater
Connectivity
Wednesday, February 2, 2011
8:45 a.m. – 10:00 a.m.**

Robert “Bob” Coache, P.E.

Bob Coache is a retired Nevada Deputy State Engineer and currently the president of Hydrotech Consulting Services, LLC; a firm specializing in Water Rights and Water Resource Management. Over the last three decades Bob has worked in the water resource field promoting and implementing all aspects of Nevada Water Rights and Nevada Water Law.

Coache received a BS degree in Watershed Science in 1981 from Utah State University. He is registered as a Professional Civil Engineer by the State of Nevada Board of Professional Engineers and Land Surveyors, the State of Arizona Board of Technical Registration and as a Water Rights Surveyor by the State of Nevada, Division of Water Resources.

Gordon DePaoli

Mr. DePaoli is an experienced water law attorney. He has represented Sierra Pacific Power Company, now NV Energy, and the Truckee Meadows Water Authority in long-standing water rights disputes on the Truckee River. Mr. DePaoli was involved in negotiations leading up to the Truckee-Carson-Pyramid Lake Water Rights Settlement Act, Public Law No. 101-618, in the negotiations which resulted in the execution of the Truckee River Operating Agreement, and is involved in the process which will ultimately result in the implementation of that Agreement and the Settlement Act. He is counsel to the Walker River Irrigation District. That representation includes federal reserved rights

litigation on the Walker River in Nevada and California. Mr. DePaoli has extensive experience in all facets of water law. That experience includes appearances before the Nevada State Engineer, California administrative agencies, committees of the Nevada Legislature, and state and federal trial and appellate courts.

Mr. DePaoli also has broad civil practice experience, including estate, personal injury, eminent domain and business tort litigation in state and federal trial courts and the Nevada Supreme Court. He also has been active in land use issues and litigation at Lake Tahoe. His experience includes numerous appearances before the Nevada Legislature concerning the Tahoe Regional Planning Agency Compact, before committees of the United States Congress concerning the Santini-Burton Act, and before federal courts in Nevada and California and in the United States Court of Appeals for the Ninth Circuit.

Mr. DePaoli has attained an "AV" peer rating through the Martindale Hubbell ratings system, has been included in America's Leading Lawyers for Environment in the Chambers USA Client Guide and has been selected for inclusion in the "Best Lawyers in America" and in the "Mountain States Super Lawyers" publication.

Mr. DePaoli served as a member of the editorial board of the Western Water Law and Policy Reporter. He has chaired the annual conference on Nevada Water Law. He served two terms as a member of the Carson City Advisory Council to the Bureau of Land Management, having been appointed by the Secretary of the Interior. He served as a member of the Ninth Circuit Advisory Committee on Rules of Practice and Internal Operating Procedures. Mr. DePaoli was President of the Washoe County Bar Association, and of the Board of Trustees of Volunteer Lawyers of Washoe County, a non-profit corporation which provided pro-bono legal services in Washoe County. He served as Chairman of the Nevada Standing Committee on Judicial Ethics and Election Practices from 2005 to 2008.

Don Springmeyer

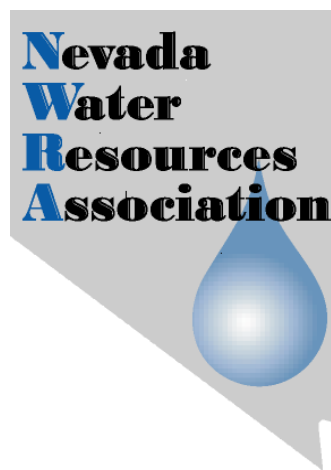
Don Springmeyer is the litigation partner in charge of natural resource / environmental litigation, construction defect, real estate, class action, and complex damage litigation, for the Nevada offices of Wolf, Rifkin, Shapiro, Schulman and Rabkin, LLP, in Las Vegas and Reno. He is a fourth generation Nevadan with 30 years of experience in high stakes trial and appellate litigation including class actions, mass torts, construction defects, water / environmental, and insurance bad faith. Mr. Springmeyer has been AV® Peer Review Rated through Martindale-Hubble for more than 15 years. An AV rating is a significant accomplishment - a testament to the fact that a lawyer's peers rank him or her at the highest level of professional excellence and ethical integrity. He was honored as the Trial Lawyer of the Year by the Nevada Trial Lawyers Association in 1997, in recognition of his work on an infant formula price-fixing class action and his pro bono work on health insurance coverage cases for breast cancer victims. He has also been awarded a National Community Service Award for his pro bono work. He obtained his Bachelor of Arts degree in Political Science, cum laude, from Yale University in 1976, and his Juris Doctor degree, cum laude, from the University of Wisconsin-Madison Law School in 1979. Following graduation from law school, he clerked for Senior United States District Judge Bruce R. Thompson before entering private practice.

Peter Leffler

Mr. Leffler has a B.S. in Geology from University of Illinois, and a M.S. in Hydrology/Hydrogeology from University of Nevada Reno.

Mr. Leffler started his professional career in 1990 working for a consulting firm in the San Francisco Bay Area as an environmental hydrogeologist working on sites with soil and groundwater contamination. From 1993 to 2002 he worked for David Keith Todd Consulting Engineers as a hydrogeologist with a focus on groundwater supply projects. In 2002, Mr. Leffler began working for Fugro Consultants where he is currently an Associate Hydrogeologist working primarily for water districts on groundwater supply projects. His experience includes work on a project that involved delineation of percolating groundwater versus subterranean stream, and a current project involves groundwater basin adjudication.

2011 NWRA ANNUAL CONFERENCE



**Indirect Potable Reuse Session
Wednesday, February 2, 2011
10:15 a.m. – 11:30 a.m.**

G. Wade Miller

Wade Miller is the Executive Director of the WateReuse Association – a non-profit organization whose mission is to advance the beneficial and efficient use of water resources through education, sound science, and technology using reclamation, recycling, reuse, and desalination. Mr. Miller is also Executive Director of the WateReuse Research Foundation, which conducts applied research on water reuse and desalination.

Mr. Miller has been involved in the water field in various capacities for more than 35 years. Mr. Miller was instrumental in the establishment of the Association of State Drinking Water Administrators and the International Association of Environmental Testing Laboratories and served as Executive Director of both associations. He twice served as an advisor to presidential commissions on water (i.e., President Carter's Intergovernmental Water Policy Task Force in 1979; and the National Council on Public Works Improvement in 1987-88). Before joining the WateReuse Association in 2000, he owned his own management consulting firm.

Mr. Miller serves on the Committee of Distinguished Advisors to the Chairman of the Department of Chemistry and Biochemistry at the University of Maryland. Mr. Miller is also a Fellow of the Center for Integrated Water Research at the University of California Santa Cruz

He is a graduate of the University of Maryland and has pursued graduate studies at American University and Virginia Tech.

Craig Miller, P.E.

As an Executive Director for the Orange County Water District, **Mr. Craig Miller** is responsible for overseeing the departments of engineering, hydrogeology, natural resources, planning and watershed management. His primary focus at OCWD is the development and implementation of programs that sustain and protect the groundwater basin, as well as maximizing reliable water production out of the basin. He also serves as a court appointed Watermaster for the Santa Ana River, and leads the District's efforts to acquire and maintain water rights on the river.

John Enloe, P.E.

John Enloe is the Principal-in-Charge of ECO:LOGIC Engineering, Reno, which has grown from a small group of engineers to one of the most respected and successful water engineering firms in the area. From 1983 to 1992, John worked for municipal water and wastewater utilities at Lake Tahoe and the Sierra foothills. He managed and conducted the planning, permitting, design and implementation of numerous water and wastewater capital improvement programs. In 1992, John joined Sierra Pacific Power Company in Reno, Nevada. As Manager of the Water Planning and Engineering Department, John was in responsible charge of planning the infrastructure improvements to the water system, including treatment plant additions, transmission and distribution mains, wells, storage tanks and pump systems.

John started the Reno office of ECO:LOGIC in 1997. He has been actively involved in regional water planning, water supply and water treatment issues affecting Reno, Nevada and the Lake Tahoe area for over twenty-five years. A few recent projects for which John has been responsible include Vidler Water Company's Fish Springs Ranch Water Supply Project, Truckee Meadows Water Authority's Arsenic Compliance Plan, and the Reno/Stead Wastewater Disposal Implementation Plan.

Dennis B. Porter, P.E.

Dennis Porter joined the City of Henderson as Project Engineer in 1993 and became Assistant Director of Utility Services in June 2001. He was named Acting Director of Utility Services in January 2006 and became the department's Director in April 2006. The Department of Utility Services is responsible for all facets of water, wastewater, and reclaimed water services for the City. The Department provides treatment and distribution of drinking water, collection and reclamation of wastewater, laboratory testing services, utility infrastructure planning and management, as well as customer and billing services.

Dennis earned his Bachelor of Science in Engineering from New Mexico State University. He is a Registered Professional Civil Engineer in Nevada and a Registered Professional Sanitary Engineer in Arizona. From 1988 to 1993, he served as a Project Manager/Engineer for Wilson & Company in Phoenix, Arizona.

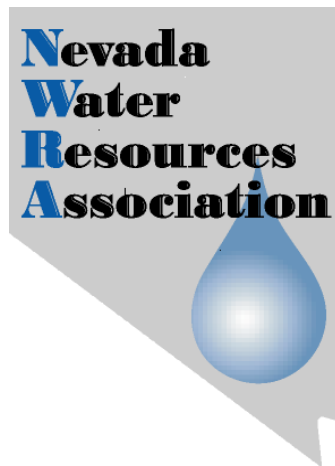
Dennis Porter's professional affiliations include the Nevada Water Resources Association, the Colorado River Water Users Association, the American Water Works Association, the Association of Metropolitan Water Agencies, the National Association of Clean Water Agencies, the WaterReuse Association and the Multi-State Salinity Coalition.

Eric D. Hawkins, CPF

For the past 13 years, **Eric Hawkins** has focused his professional efforts in public outreach and facilitation on a variety of public and private issues, with special emphasis on the water, wastewater and environmental industries in southern Nevada. During that time he has worked for the Clark County Water Reclamation District (CCWRD), Clean Water Coalition, Southern Nevada Water Authority, City of Henderson, Clark County Desert Conservation Program and a variety of engineering and environmental organizations. He has supervised the development and production of outreach materials in both traditional and new media formats and served as public information officer and media spokesman for many of his clients.

Mr. Hawkins is an International Association of Facilitators (IAF) Certified Professional Facilitator (CPF) in private practice in Clark County, Nevada (www.h2outreach.com). Eric is one of just two CPFs in the state of Nevada.

2011 NWRA ANNUAL CONFERENCE



**Luncheon Speaker
Wednesday, February 2, 2011
11:30 a.m. – 1:15 p.m.**

Justice James W. Hardesty

Justice James W. Hardesty is a native Nevadan having been born and raised in Reno, Nevada. He has been married for 37 years to his wife, Sandy, who is a high school teacher. Together they have two children and five grandchildren.

Chief Justice Hardesty attended the University of Nevada, Reno where he obtained a Bachelor of Science degree in accounting in May 1970. While attending the University of Nevada, Reno, he was elected President of the Student Body and was named outstanding senior graduate. After graduating from the University of Nevada, Reno, Chief Justice Hardesty enrolled in the University of Pacific McGeorge School of Law where he obtained his J.D. in May 1975.

Upon graduating from McGeorge School of Law, Chief Justice Hardesty returned to the Reno/Sparks area and entered private practice as a sole practitioner. He remained in private practice from 1975 through 1998. He received the highest rating of AV by Martindale-Hubbell, a nationally recognized publication of lawyer ratings.

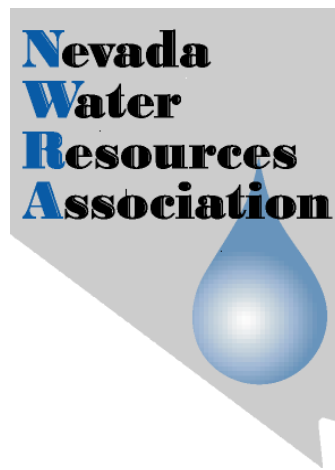
In November 1998, Chief Justice Hardesty was elected District Court Judge for the Second Judicial District Court of Washoe County, Reno, Nevada. He took the bench in January 1999 where he served through December 2004. In November 2001, while serving as a District Court Judge, he was elected by his fellow judges to serve as Chief Judge of the Second Judicial District Court, a position to which he was reelected in November 2003. He received the highest ratings on judicial performance in the Second Judicial District Court by the Washoe County Bar Association. Justice Hardesty also served as President of the Nevada District Judges Association in 2003.

In November 2004, Chief Justice Hardesty was elected a Supreme Court Justice for the Nevada Supreme Court. He was sworn in on January 3, 2005.

Chief Justice Hardesty has been a guest lecturer on case management, settlement and evidence for the National Judicial College, State Bar of Nevada, Professional Education Systems, Inc., the Association of Defense Counsel and the Nevada Trial Lawyers Association. In addition, he guest lectures annually to the Media Law students at the Donald W. Reynolds School of Journalism, University of Nevada, Reno. He is the author of several articles on libel, privacy and government issues.

As a District Court Judge and as a Nevada Supreme Court Justice, he has served on various Supreme Court Commissions including: the Nevada Supreme Court Task Force to create a Business Court in Nevada, the Nevada Supreme Court Task Force studying the Multi-Jurisdictional Practice of Law, the Nevada Supreme Court Commission on Judicial Funding, and the Nevada Supreme Court Committee to Implement Recommendations of the Jury Improvement Commission. Chief Justice Hardesty currently co-chairs the Nevada Supreme Court Bench-Bar Committee, the Nevada Supreme Court Access to Justice Commission, and is chairperson of the Nevada Legislature's Advisory Commission on the Administration of Justice, and the Nevada State-Federal Judicial Council.

2011 NWRA ANNUAL CONFERENCE



**Technical Session A: Water Use,
Population Growth & Resource
Planning
Wednesday, February 2, 2011
1:30 p.m. – 2:45 p.m.**

Thomas Maher

Tom Maher has been with the Southern Nevada Water Authority since 1996, and he is currently a Senior Resource Analyst with the Southern Nevada Water Authority's Surface Water Resources Department. The Surface Water Resources Department is responsible for assessment and evaluation of water resources and demands in the SNWA Water Resource Plan, and the development, implementation and management of water resources on or associated with the Colorado, Muddy, and Virgin Rivers, and groundwater from the Coyote Spring Valley. Tom's supervises a team of resource analysts that conduct short- and long-term regional water resource planning and management, water demand analysis and forecasting, and technical support on a variety of issues associated with the Colorado River. Prior to joining the SNWA Tom worked as an economist with Nevada Power Company supporting their pricing, forecasting and energy planning efforts. In addition, Tom has taught as an adjunct economics instructor at the College of Southern Nevada (previously the Community College of Southern Nevada).

Tom holds a Bachelor's Degree from the University of Wisconsin at Milwaukee, and a Master's Degree in Applied Economics from Western Michigan University located in Kalamazoo, Michigan. Tom continues to stay abreast with his field through active membership in the National Association of Business Economists, Colorado River Water Users Association, and Nevada Water Resources Association. He continues to pursue professional development, as demonstrated by his participation in the 2008/2009 Clark County Leadership Forum, a locally sponsored leadership development program. In addition, Tom was previously active in Toastmasters International in southern Nevada, and he earned the Competent Toastmaster (CTM) designation.

Catherine Hansford

Ms. Catherine Hansford is a citizen of Great Britain and the United States. She is owner and principal of Hansford Economic Consulting, a contract professional services business, engaging in economic development and redevelopment opportunities, fiscal and financing issues, and regional infrastructure issues. Her experience has been garnered through working in both the private and public sectors over the past fifteen years.

Ms. Hansford works with local governments and private sector clients primarily in Northern California and Nevada. She frequently works on multi-disciplinary teams to reach public-private partnership goals and enjoys a reputation for timely preparation of work product, respect for work colleagues, and ability to present findings and reports competently and succinctly at forums.

Ms. Hansford has a Masters degree in Resource and Applied Economics from the University of Nevada, Reno and a Bachelors degree in Rural and Environmental Economics from the University of Newcastle upon Tyne.

Joseph R. Leedy, P.E.

Joseph R. Leedy, P.E. has more than 22 years experience in the Planning and Civil Engineering Field, including stormwater quality, commercial and residential design, project management, construction supervision, materials testing and surveying. Mr. Leedy's current responsibilities include management and implementation of Water Quality Planning in Clark County, as well as Clark County's National Pollutant Discharge Elimination System permit. Joe works with intergovernmental relations and the community to address stormwater management and water quality planning. Mr. Leedy has a BS in Civil Engineering from the University of Wyoming and currently holds a civil engineering license in the states of Nevada and Arizona.

Lisa Shevenell, Ph.D.

Lisa Shevenell, Nevada Bureau of Mines and Geology hydrologist and Director of the Great Basin Center for Geothermal Energy, continues to assist in the development of geothermal energy as a renewable resource in Nevada in collaboration with industry. Additionally, the geothermal group is establishing curriculum and expanding educational resources by leading an effort to establish a national geothermal training institute at the Redfield campus in collaboration with other universities with long-standing commitments to geothermal research, education, and outreach.

Though her research specialty is in hydrogeology, an interest in geothermal energy caught hold of Shevenell early on. While pursuing a bachelor's degree at the New Mexico Institute of Mining and Technology, Shevenell went on a summer internship at the Los Alamos National Laboratory. After she procured her bachelor's degree, the laboratory again invited her to work on a collaborative geothermal exploration geothermal project in Central America with United States Geological Survey and the national geothermal company in Honduras.

"I thought it was pretty fun to go hiking around in the mountains and sampling hot springs and soaking in them," she said.

After three years at Los Alamos, Shevenell went on to pursue a doctoral degree at the University of Nevada, Reno. In 1993, she returned to Nevada from Oak Ridge National Laboratory to work at the Nevada Bureau of Mines and Geology in a research faculty position.

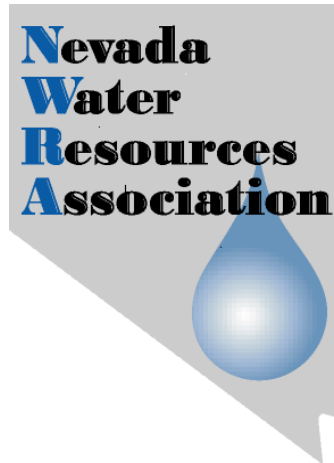
Alongside conducting research and exploration for geothermal systems in the Great Basin area, Shevenell is responsible for finding funding opportunities for the Geothermal group's ongoing and future research projects. Shevenell also develops curriculum related to geothermal energy and works closely with several geothermal energy companies, including Ormat, Magma Energy, Vulcan Power, Nevada Geothermal and Caldera, a newly founded company started by a fellow faculty member.

"We work with different companies at different levels," she said. "We've had some formal and informal arrangements with Ormat. We just wrote some proposals in collaboration with Magma Energy to the Department of Energy. We've also recently some proposals in collaboration with Vulcan Power."

Geoffrey S. Kinsey

Geoff Kinsey joined Amonix in 2008. As Director of Research and Development, he leads the team optimizing operation of the Amonix Solar Power Generators for III-V multijunction cells. Prior to this position, he was the Technical Lead for CPV Products at Spectrolab. He spent seven years in research and development of high-efficiency multijunction cells for both space and terrestrial applications. Geoffrey received his B.S. from Yale University in 1992 and his Ph.D. in Solid-State Electronics from the University of Texas at Austin in 2001. He has one patent issued and five pending and over sixty publications in the optoelectronics field, including a chapter in the recent 2nd edition of *Solar Cells and Their Applications*.

2011 NWRA ANNUAL CONFERENCE



**Water Management & Policy: How
Climate Change Impacts Decisions
Wednesday, February 2, 2011
1:30 p.m. – 2:45 p.m.**

Michael L. Strobel, Ph.D.

Dr. Michael Strobel received degrees from the Ohio State University and his Ph.D. from the University of North Dakota specializing in hydrology. From 1983 to 1988 he worked in the field of glaciology for the Byrd Polar Research Center and conducted field work in Antarctica, Greenland, Peru, and Alaska. He joined the U.S. Geological Survey in 1988 and served as a hydrologist in Ohio, North Dakota, South Dakota, North Carolina, and Nevada. He was Deputy State Director for the Nevada Water Science Center for 6 years, authored the book Water in Nevada, served on the Board of Directors for the Nevada Water Resources Association and was Chief Editor of the Journal of the Nevada Water Resources Association. Since June, 2007, he has been the Director of the NRCS National Water and Climate Center in Portland, Oregon. The Center oversees the Snow Survey and Water Supply Forecasting Program, which operates over 780 automated snow telemetry (SNOTEL) sites and 1,000 manual snow courses in 13 Western States, including Alaska. The Center also operates the Soil Climate Analysis Network (SCAN) that has stations in 40 States and U.S. territories. SCAN provides data at a national scale for climate assessment and drought mitigation.

Brad Udall, Ph.D.

Brad Udall is director of Western Water Assessment, one of seven RISA (Regional Integrated Sciences and Assessments) programs funded by the Office of Global Programs at NOAA. These programs are designed to develop partnerships with regional stakeholders and tailor NOAA data products to meet their needs. Lessons learned here are also contributing to NOAA's emerging "National Climate Service," the climate analog to the existing National Weather Service.

WWA was created in 1999 and is a joint effort between CIRES and the Climate Diagnostics Center. Using multidisciplinary teams of experts in climate, water, law, and economics, the Western Water Assessment provides information about natural climate variability and human-caused climate change. This information - usually in the form of climate forecasts and regional vulnerability assessments - is designed to assist water-resource decision makers such as Denver Water.

Jim Verdin, Ph.D.

Jim Verdin is currently assigned by the U.S. Geological Survey (USGS) to the National Integrated Drought Information System (NIDIS) Program Office at NOAA in Boulder, Colorado, where he serves as Deputy Director. His research interests lie with the use of remote sensing and modeling to address questions of hydrology, agriculture, and hydroclimatic hazards. Jim has also led USGS activities in support of the USAID Famine Early Warning Systems Network since 1995. He has extensive experience in geographic characterization of drought hazards for food security assessment in Africa, Asia, and Latin America. Prior to joining USGS, he worked eleven years with the U.S. Bureau of Reclamation, including a three year assignment in Brazil. He holds B.S. (University of Wisconsin, Madison) and M.S. (Colorado State University) degrees in civil and environmental engineering, and a Ph.D. (University of California, Santa Barbara) in geography.

Roger Pulwarty, Ph.D.

Roger Pulwarty is a climate scientist. He is Climate and Societal Impacts Division Chief at NOAA, and the Director of the multi-agency National Integrated Drought Information System. Dr. Pulwarty is member of the Intergovernmental Panel on Climate Change (IPCC) and the UN International Strategy for Disaster Reduction. He is Convening Lead Author in the forthcoming IPCC Fifth Assessment Report Working Group II. Roger has acted in advisory and research capacities on climate and natural resources to several U.S. and international interests including the Western Governors, the EPA, NASA, DoI, the Caribbean Economic Community (CARICOM), the Organization of American States, the United Nations, and the InterAmerican Development and World Banks. He is an Adjunct Professor at University of Colorado and the University of the West Indies. Roger has testified before the U.S. Congress on climate adaptation, water resources and drought, and has been featured in several national media communications. He was the co-recipient of the 2008 NOAA Administrators' award for outstanding achievements in integrating science into decision-making, and of the 2010 Gold Medal, the highest award given by the United States Department of Commerce.

Richard Kearney

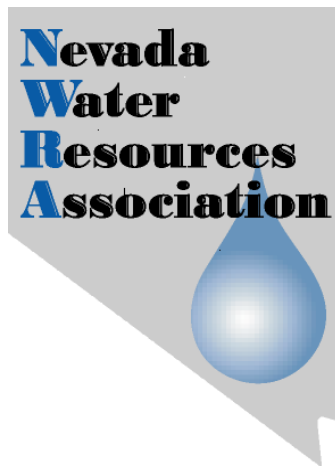
Rick Kearney is the U.S. Fish and Wildlife Service, Pacific Southwest Region's Assistant Regional Director for Climate Change and Science Applications. He is responsible for implementing the Service's climate change initiative and increasing the Service's science capabilities in California, Nevada, and the Klamath Basin of Oregon. He also oversees the development and management of Landscape Conservation Cooperatives (LCCs) in the Pacific Southwest.

Prior to joining the U.S. Fish and Wildlife Service in 2009, Rick served as the national coordinator for the USGS Wildlife Resources program where he managed wildlife research and technical assistance activities at USGS science centers and university-based cooperative research units. He was instrumental in forming and leading the joint

federal-state avian influenza surveillance program and establishing the National Climate Change and Wildlife Science Center.

Rick developed his leadership skills during twenty years of service as a U.S. Army officer. He served in numerous positions with the Corps of Engineers in Europe, United States, and the Pacific. Prior to his retirement, Rick led the Chief of Engineers plans and program management office at the Pentagon. He holds graduate degrees in conservation biology and engineering management.

2011 NWRA ANNUAL CONFERENCE



**Concurrent Technical Session B:
Stream Restoration
Wednesday, February 2, 2011
3:00 p.m. – 4:00 p.m.**

David J. Donovan

David Donovan has worked professionally in Nevada for over 20 years as a geologist/hydrologist. David has worked for Southern Nevada Water Authority and Las Vegas Valley Water District since 1991 and Newmont Mining Corporation on the Carlin Trend between 1987 and 1991. David received a Master's of Science with University of Nevada, Las Vegas in 1996 and a Bachelor of Science in Geology from Northern Arizona University in 1987. David has been involved with research on the history of ground-water development, hydrogeologic framework, geochemistry, effects of artificial recharge, natural recharge, and discharge for multiple ground water basins in eastern Nevada. He has published journal articles on several hydrogeologic topics including cost-benefits of a ground water management program, natural ground-water recharge, and discharge in Las Vegas Valley.

Nancy Alvarez

Nancy Alvarez received a Bachelor of Science degree in Mechanical Engineering from the University of California, Berkeley in 1989. After graduation Nancy worked for the Environmental Protection Agency (EPA) Region 9 in the RCRA Hazardous Waste Program as an environmental engineer working on hazardous waste permits, inspections, and enforcement. She spent four years on detail to the Nevada Division of Environmental Protection's Hazardous Waste Program. She ended her career at EPA as an environmental scientist in EPA's Quality Assurance Program reviewing environmental contamination clean-up documents for military base closures. In 2002 Nancy received a Master of Science degree from the University of Nevada, Reno in Hydrology/Hydrogeology. Nancy began working for the U.S. Geological Survey in 2001 on a study to identify sources of phosphorus to the Carson River, Nevada. She is currently project chief of the Lake Tahoe tributary monitoring study, a long-term water quality and streamflow monitoring program providing data for 10 streams tributary to Lake Tahoe. Nancy is also project chief of a study that will recommend index wells for a groundwater level monitoring network in member counties of the Central Nevada Regional Water Authority.

Mark Gookin, P.E., CFM

Mr. Mark Gookin has twenty-three years of hydrology/hydraulic experience and over the past 13 years, Mr. Gookin has emphasized the successful management and delivery of many of the Lake Tahoe Basin's largest erosion control and stormwater quality improvement projects.

Glen Barrett Daily, P.E.

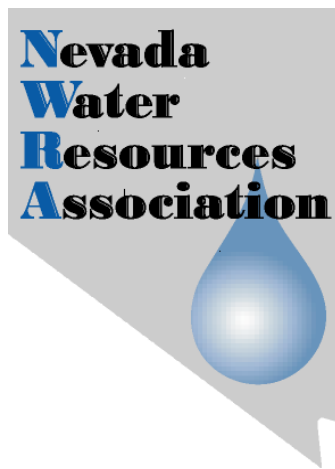
Glen Daily is a Reno native originally arriving here via the delivery room of St. Mary's Hospital on June 17, 1961. Both of his parents worked as school teachers for the Washoe County School District and he attended grade, middle, and high school in Reno. He went on to attend the UNR College of Engineering majoring in Civil Engineering graduating in 1984 and subsequently earned his registration as a Professional Engineer in Nevada and California in 1987. Upon graduation from college he went to work for a consulting firm in the Reno area and subsequent to that he worked as an Engineer for the Las Vegas Valley Water District before starting at the City of Reno in August of 1989. While working for the City Glen has managed the completion of many diverse projects including storm and sanitary sewer interceptors, street and bridge projects, parks and recreation facilities, and reclaim as well as potable water system projects. He also completed a second post-baccalaureate degree at UNR in Construction Management graduating in 2008. Glen is currently in his 22nd year of employment with the City, and as a member of the Sanitary Engineering staff continues to enjoy the many challenges and diversity of working on water quality, reclaim water, river restoration, wastewater and storm water projects for the City.

Lynell Garfield-Qualls

Lynell Garfield was raised in rural Sonoma County, CA, and is the first in 10 generations of sea lovers who is not working out on the open ocean. This love of water compelled Ms. Garfield to pursue studies of the aquatic environment: Lynell earned a B.S. in Environmental Toxicology at U.C. Davis following the Vapam spill into the Sacramento River. Working on post-grad research on Coconut Island, Hawaii, Lynell studied the metabolism of pesticides by Coral reefs. Ms. Garfield earned an M.S. in Natural Resources at the University of Nevada, Reno, studying recreational land use and its effects on drinking water on East Lake Tahoe. She has published two peer-reviewed articles on this research in the last year.

Lynell has worked for other municipalities, wineries, as a freelance translator in the Himalayas, written a childrens' book, and owned her own consulting firm, Integrated Balance Solutions. Lynell now works as the Hydrologist with the City of Reno, where she works on the Truckee River watershed, reducing pollutants to the river through Low Impact Development, stormwater management, and community education. Her greatest interest is bridging gaps between art and science, and between academia and local communities. Lynell is the Content Manager for the Truckee River Info Gateway and Editor of the Truckee Meadows Watershed Committee website, www.tmstormwater.com.

2011 NWRA ANNUAL CONFERENCE



Concurrent Technical Session C: Remote Sensing & Meteorological Data

**Wednesday, February 2, 2011
3:00 p.m. – 4:00 p.m.**

Justin Huntington

Justin Huntington is currently an assistant research scientist at the Desert Research Institute specializing in water resource topics related to hydroclimatology, evapotranspiration, recharge, runoff and large scale water budgets. Novel approaches and methods to characterize different water budget components are of special interest including space borne remote sensing techniques and water balance modeling. Other interests include potential climate change impacts to water resources and how these potential impacts affect water management strategies such as irrigation demands, minimum flow requirements, etc. Justin Huntington has been a member of NWRA since 2004.

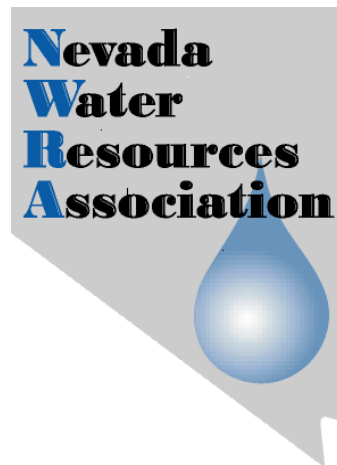
Adam Sullivan, P.E.

Adam Sullivan is a hydrologist with the Nevada State Engineer's Office. He has worked in the fields of hydrology and engineering in northern Nevada for the past 14 years. Mr. Sullivan has a Masters degree in Hydrology from the University of Nevada Reno, and a Bachelor's degree in Biology from the University of California Santa Cruz. He is a registered Professional Engineer in the State of Nevada.

Mark Walker

Mark Walker became a member of the faculty of the Environmental and Resource Sciences Department at the University of Nevada - Reno in September, 1997. Prior to this, he was a hydrologist with the New York State Water Resources Institute at Cornell University. His research interests include assessing the health risks posed by nonpoint sources, such as *Cryptosporidium* and *Leptospira*. He is exploring ways to develop risk assessment tools, including methods to determine presence of pathogens in environmental samples. As State Extension Water Specialist, Mark is working with county and regional faculty to identify priorities and opportunities for Extension involvement in community water resources issues. This includes developing and carrying out training programs for rural water suppliers in Nevada using videoconferencing facilities. Part of his current effort is devoted to assessing exposure to elevated concentrations of arsenic in private drinking water wells in Churchill County. With support provided by the U.S. Department of Agriculture's Cooperative State Research Education and Extension Service and Senator Harry Reid's office, he is evaluating exposure to arsenic through private wells and examining seasonal trends in arsenic concentration that might be associated with application of irrigation water.

2011 NWRA ANNUAL CONFERENCE



**Restoration Projects/Ecosystem
Wednesday, February 2, 2011
4:15 p.m. – 5:30 p.m.**

Danielle Henderson

Danielle Henderson is the Natural Resource Manager for the Truckee River Flood Project, a locally-led effort in partnership with the U.S. Army Corps of Engineers to minimize flood damages, restore the ecosystem, improve fish passage, and enhance recreation along the Truckee River, Nevada. She has more than 13 years of combined experience as a natural resource manager, grants administrator, environmental consultant and researcher. Ms. Henderson holds a Master of Science in Hydrology (University of Nevada, Reno) and a Bachelor of Science in Biology (University of New Mexico).

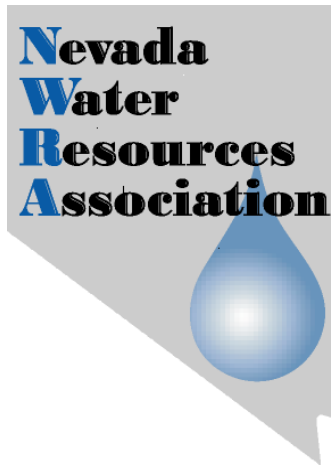
Mickey Hazelwood

Mickey Hazelwood is The Nature Conservancy's Truckee River Project Director. The project includes work throughout the watershed, but one of the main components of TNC's Truckee River Project is to restore ecosystem function along the highly degraded lower reach of the river between Reno, NV and Pyramid Lake. The project is supported through a partnership with numerous local, State, and Federal agencies and currently consists of four restoration sites along approximately 9 miles of the lower Truckee River. Mickey joined The Nature Conservancy as Field Representative for the Truckee River Project in 2005, with previous work experience in conservation easements (drafting baseline reports and working with landowners and land trusts to draft easement language), using conservation design for limited subdivision to pay for the protection of large tracts of rangeland, project management, GIS and GPS, and land surveying. He holds a B.S. in Applied Geography from Appalachian State University in Boone, N.C. and a M.S. in Applied Geography from New Mexico State University in Las Cruces, N.M.

Dr. Robert Johnson

Robert Johnson has a PhD in Restoration Ecology from BYU. He has been the Manager of the Warm Springs Natural Area, which is a conservation property for the Southern Nevada Water Authority for approximately 3 years. His work in the Mojave Desert was preceded by ecological work in the Great Basin and the Bolivian Altiplano and Yungus. Besides practicing restoration, he is an enthusiastic plant nerd, but with only slightly more enthusiasm than for bugs.

2011 NWRA ANNUAL CONFERENCE



**Technical Session D: Water Quality –
Lake Mead & Environs
Thursday, February 3, 2011
8:30 a.m. – 9:45 a.m.**

Dwight Smith

Dwight Smith is the Principal Hydrogeologist with Interflow Hydrology located in Truckee CA. Over the past 20 years, he has practiced as a consulting hydrogeologist, completing many studies throughout the Great Basin and western U.S. His areas of interest include sustainability in ground water resources development, surface water and ground water interactions, numeric flow modeling, characterization of stream and spring resources, and striving to better understand basin-scale and watershed-scale recharge, subsurface flow, and discharge processes. When not thinking about water, Dwight enjoys spending time with his family, nordic skiing, cycling and occasionally reading a good book.

Dwight obtained his Masters Degree in Hydrogeology from the University of Nevada – Reno, and his Bachelors degree in Geological Engineering from the Colorado School of Mines. He is a registered Geological Engineer in Nevada, Registered Geologist in California and Arizona, Certified Hydrogeologist in California, and licensed Water-Right Surveyor in Nevada.

Leigh Justet

Leigh Justet received her Ph.D. in Geology from the University of Nevada Las Vegas in 2003. Her dissertation focused on the geochronology and geochemical evolution of the Jemez Volcanic Field, NM. During her tenure at UNLV, she taught courses in Introductory Geology, Mineralogy, and Research Methods. Upon graduating from UNLV, she completed an internship with ExxonMobil Exploration Company in Houston, TX. She began working for the U.S. Geological Survey Water Resources Division at the Las Vegas Integrated Science Center in 2004. While there she worked with the Department of Energy on an array of projects including building a hydrogeologic framework in EarthVision of the Death Valley Regional Flow System and analyzing the structural geology of CP Basin to determine the potential for groundwater flow from Yucca to Frenchman Flat at the Nevada Test Site. In 2006 she collaborated with the Desert Research Institute and the USGS Utah Integrated Science Center to delineate groundwater flow paths and flow times in the Basin and Range Carbonate Aquifer System using geochemical and age-dating methods. Currently, she is completing a geologic, hydrologic, and geochemical study to determine the sources of and groundwater flowpaths to Black Canyon, NV-AZ and a geochemical and geochronologic study of groundwater in Clark County to delineate geochemical groups within the region. She is beginning a study in collaboration with The Nature Conservancy and Amargosa Conservancy to examine groundwater and surface water interactions along the Wild and Scenic portions of the Amargosa River, CA.

Michael Moran

Michael Moran is a supervisory hydrologist with the USGS in Henderson, Nevada. He supervises hydrologists who work on projects relating to the availability and quality of surface and groundwater resources in southern Nevada. Michael has been with the USGS for 15 years and holds a Ph.D. in geological engineering from the South Dakota School of Mines & Technology.

Todd Tietjen

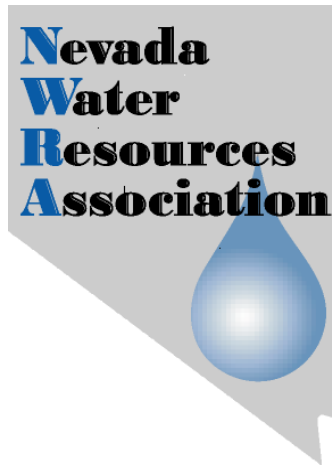
Todd Tietjen joined Southern Nevada Water Authority in 2008 to work as their in-house limnologist examining water quality issues in Lake Mead.

From 2004 to 2008 Tietjen was the Assistant Professor of Aquatic Resources in the Department of Wildlife and Fisheries at Mississippi State University teaching Limnology and Wetlands Ecology and conducting research on riverine lakes of the Mississippi River Floodplain.

From 2002 to 2004 he was the Postdoctoral Researcher with the USGS Grand Canyon Monitoring and Research Center examining nutrient and carbon dynamics in the Colorado River as it flows through Grand Canyon.

Tietjen received a Ph.D. in Aquatic Ecology from the University of Alabama in 2002, an M.S. in Aquatic Biology from Southwest Texas State University in 1996, and a B.A. in Environmental Studies from Alfred University in 1990.

2011 NWRA ANNUAL CONFERENCE



**Technical Session E: Changing
Hydrologic Conditions
Thursday, February 3, 2011
8:30 a.m. – 9:45 a.m.**

Keith Halford

Keith Halford has been a U.S. Geological Survey Ground-Water Specialist and an Associate Editor for the journal Ground Water since 1999. He has worked from USGS offices in Louisiana, Florida, Nevada, and California since 1987. Other positions held were Associate Professor Florida University. His areas of expertise are aquifer tests, borehole geophysics, geostatistics, ground-water simulation, parameter estimation, and optimization. Recent publications are Potential Effects of Pumping from Snake Valley on Selected Springs and Streams, Great Basin National Park, White Pine County, Nevada; AnalyzeHOLE: an Integrated Wellbore Analysis Tool; Permeameter data verify new turbulence process for MODFLOW; Time-series analysis and drawdown estimation; and MODOPTIM.

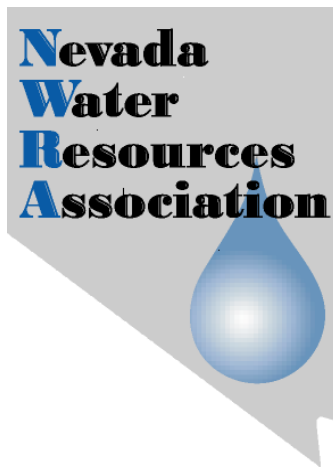
Dr. Christine Hatch

Dr. Christine Hatch has been a researcher with Dr. Scott Tyler's Hydrology group at the University of Nevada Reno, for the past three years. Her research focuses on using heat as a tracer and Distributed Temperature Sensing (DTS) to assess movement of water in hydrologic systems, with applications ranging from surface water – groundwater interactions, soils moisture surveys, solar radiation penetration of water columns, and thermal refugia mapping in stream systems. Together with Dave Prudic (USGS Emeritus), Dr. Hatch applies novel methods for assessing SW-GW interactions to the Snake Valley, NV stream-aquifer system adjacent to Great Basin National Park. As a researcher in Dr. Andrew Fisher's Hydrogeology group at the University of California, Santa Cruz, Dr. Hatch pioneered a new method for interpretation of streambed thermal records to infer seepage rates. Dr. Hatch has a Ph.D. in Earth Sciences from the University of California (2007), Santa Cruz, and a Bachelor's degree in Geology from Amherst College (1998).

Alexandra Lutz

Alexandra Lutz conducts research on water resources and climate changes in West Africa and Nevada. In both locations, water resources are being developed to meet domestic and agricultural needs as population increases. Alexandra is working at study sites in Mali, Niger, and Ghana. Closer to home, she is evaluating water resources in Nevada with the Carson Water Sub-Conservancy District. She has her PhD from the University of Nevada, Reno.

2011 NWRA ANNUAL CONFERENCE



**Geothermal Resources & Development
Thursday, February 3, 2011
10:15 a.m. – 11:45 a.m.**

Monte Morrison

Mr. Morrison is a Registered Professional Engineer, (Chemical, Nevada) with 24 years experience in all aspects of geothermal power plant management of operations, maintenance, HR, environmental and safety. He has managed multiple geothermal plants in Nevada, California and Hawaii. His chemical engineering degree was received from the University of Nevada, Reno and he has held an Emergency Medical Technician certificate for over 20 years. Mr. Morrison will manage Magma's domestic and international power plant operations and maintenance and support both development and acquisition activities in the US and abroad.

Lowell Price

Lowell Price received his degree in BSc Geology from the University of Texas at Arlington, 1978.

He was employed with Amoco International Oil Company, subsidiary of Amoco Production Company from 1978 to 1986 as an Exploration/Structural Geologist in the areas of Arabian Peninsula, Gulf of Suez, onshore Tunisia, Gabon, and Rocky Mountain thrust system (temporary domestic assignment). He took part in multiple oil and gas discoveries in the United Arab Emirates, Gulf of Suez, and Gabon.

From 1987 to 1992, Mr. Price worked for Freeport McMoRan, Tenneco Minerals, Chevron Resources, and Morrison Knudson as a contract exploration geologist (precious metals). He oversaw numerous drilling programs in the exploration of gold and silver, as well as geological mapping and sampling programs. Areas of work included northern Nevada, western Colorado, and southern California.

From 1992 to 1998, Mr. Price worked for Independence Mining as an exploration geologist (gold). He performed exploratory field work and oversaw exploration drilling programs within the Bull Run Mountains and the Independence Range in northern Elko County, Nevada. Exploration work contributed to the discovery of two mineable deposits of gold within the Independence Range.

From 1998 to 2000, Mr. Price worked for Dray & Price Exploration, LLC as an exploration geologist. He evaluated numerous prospects within Montana, Wyoming, and North Dakota.

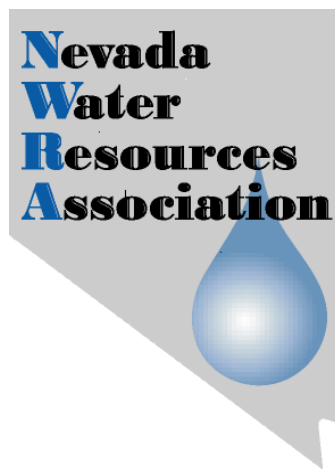
From 2000 to 2008, Mr. Price worked for Epoch Well Services and Horizon Well Logging as a Wellsite Geologist. Areas of work included Nevada, California, Alaska, Belize, and Guatemala.

Mr. Price currently works for the Nevada Division of Minerals as the Oil, Gas, and Geothermal Program Manager. He oversees the permitting and drilling of oil, gas, and geothermal wells within Nevada.

Russ Land

Russ Land has worked for the Nevada Division of Environmental Protection for 15 years as an Environmental Scientist in the area of underground injection and groundwater protection. Currently, he is managing the Underground Injection Control Program (Classes II, III, IV, and V). His degree is in geology from the University of California, Santa Barbara, and he has 10 years of previous private sector work in the geothermal industry.

2011 NWRA ANNUAL CONFERENCE



**Water Issues from a Local Policy
Perspective
Thursday, February 3, 2011
10:15 a.m. – 11:45 a.m.**

Steve Bradhurst

Steve Bradhurst is a consultant with expertise in 1) the development and implementation of western water policy, 2) program management, 3) government affairs, and 4) negotiations.

Bradhurst's management experience includes directing a state agency, managing a county, managing a county water resource department, and running a consulting business. His water policy experience includes 1) serving as a county commissioner on the Washoe County Board of Commissioners, 2) serving on the Tahoe Regional Planning Agency Board of Governors, and 3) developing and advocating water policy for government clients and public interests groups. Bradhurst holds a M.S. in Geology from the University of Nevada, Reno and a B.A. in Planning from the George Washington University in Washington, D.C.

One of Bradhurst's clients is the Central Nevada Regional Water Authority, and he serves as the executive director of the Authority. The Authority is a unit of local government in the State of Nevada. The Authority is comprised of eight counties (Churchill, Elko, Esmeralda, Eureka, Lander, Nye, Pershing and White Pine Counties), and it covers approximately 62 percent of Nevada's land area. The Authority's mission is to 1) address water resource issues common to the eight counties in a collaborative and proactive manner, 2) prepare local governments in central and eastern Nevada for sound water resource decisions, and 3) protect the region's water resources so the area will not only have an economic future, but its valued quality of life and natural environment will be maintained.

Mike Olson

Director Mike Olson is a Manager in Risk Services at Pro Group Management. After serving on the Douglas County planning commission for five years, he decided to take his public service to the next level. When not otherwise occupied, Director Olson pursues his hobby of military history.

Norman W. Frey

Norman Frey is a fourth generation Nevadan who operates the 900 acre family farm near Fallon. Norm was born in Fallon in 1954 and graduated from Churchill County High School in 1972 and UNR in 1976. He is married to Susan and they are the parents of Joe, Donny and Jenna and have 5 grandchildren. Norman is a County Commissioner in Churchill County and enjoys helping his community by participating in the political process. He is well known in the state for his work in preserving his community's water resources.

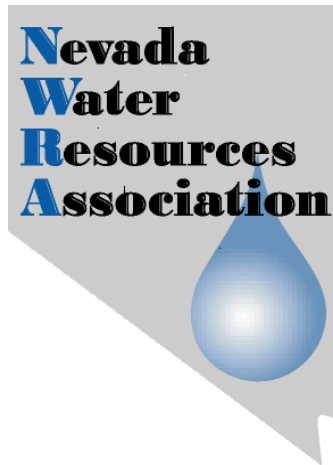
Norman has been active in the development of Churchill County's water and wastewater systems. He has also served as President of the Nevada Association of Counties in 2006, was recently inducted onto NACO's Honor Roll and has been successful on projects to retain geothermal revenues for 31 Western communities that have been blessed with this wonderful resource. Norman also serves on the Board of Directors for Central Nevada Regional Water Authority and was presented the Andy Aldax Award by the Carson Water Subconservancy District in 2009 for conservation and preservation efforts on the Carson River.

Wade Poulsen

Mr. Wade Poulsen is the General Manager of the Lincoln County Water District. He has been with Lincoln County since December of 2008. Mr. Poulsen served as the Lincoln County Commissioner from 2005-2008. Prior to that, Mr. Poulsen was the Production Manager for Solo Cup in Las Vegas, Nevada.

Mr. Poulsen attended high school in Alamo, Nevada and attended both the College of Eastern Utah and the Southern Nevada Community College. He currently resides in Lincoln County.

2011 NWRA ANNUAL CONFERENCE



**Water Resource Development &
Planning
Thursday, February 3, 2011
1:45 p.m. – 3:15 p.m.**

Jeff Johnson

Jeff Johnson is a Division Manager, in the Surface Water Resources Department of the Southern Nevada Water Authority (SNWA), where he specializes in water resource investigations for groundwater development, surface water diversions, and Colorado River resources. He is a hydrogeologist with 20 years of experience that includes optimization of production/artificial-recharge wells in the Las Vegas Valley, water resource acquisitions and water rights, Colorado River modeling, and regional groundwater develop studies for water conveyance to Clark County, Nevada. His current activities include water resource planning and water development strategies for Colorado River resources, the Muddy and Virgin Rivers, and Coyote Spring Valley.

Edwin James

Mr. Edwin James has a B.S. in Soil and Water Science from University of California Davis, a M.S. in Civil Engineering from University of Colorado Boulder, and a MBA from University of Phoenix.

Mr. James started his professional career working for the Denver Water Department negotiating and purchasing water rights. He then worked for the Chino Basin Municipal Water District responsible for imported water deliveries from Metropolitan Water District and managing the Chino Groundwater Basin. In 1994, Mr. James became General Manager for the Jurupa Community Service District.

Mr. James has been General Manager for the Carson Water Subconservancy District since August 1998.

Mark Foree

Mr. Mark Foree, a registered professional Civil Engineer in Nevada and California, has nearly 30 years of experience in planning, design, operation and maintenance of complex water treatment and distribution systems. He served at TMWA as Manager of Engineering prior to being promoted to Director of Operations in October, 2002. As Director of Operations, Mr. Foree was responsible for overseeing all operations of the Water System, including policy and direction for the water business from the source to the customer as it relates to planning for existing and future customers; Truckee River operations; water treatment including operation and maintenance of treatment facilities; distribution system operation and maintenance of all supply, production, storage and distribution facilities; engineering and planning for new facilities and renewal and rehabilitation of existing facilities and the construction of those facilities; water quality (meeting drinking water standards) and hydroelectric operations. Mr. Foree was named Interim General Manager in August, 2008 and was named General Manager in May, 2009. Mr. Foree holds the highest level of operator certifications for both water distribution and water treatment in the state of Nevada and is also a Nevada registered Water Rights Surveyor.

Ken Albright

Ken Albright is the Director of the Groundwater Resources Department for the Southern Nevada Water Authority. As Director, he is responsible for the acquisition, development and environmental compliance of new and existing groundwater resources for the Authority.

Prior to joining the Authority in November of 2002, Ken worked for the City of North Las Vegas, where his most recent assignments were as the Assistant Director of the Public Works Department and Director of the Parks & Recreation Department.

Ken attended the University of Minnesota where he received his Bachelor of Science Degree in Civil Engineering. His professional associations include the National Society of Professional Engineers, American Public Works Association, American Water Works Association, National Water Resources Association and Nevada Water Resources Association. He holds professional engineering licenses in Illinois and Nevada.

Ken is married, has three sons, and has been a resident of Las Vegas since 1989.

Corey Cram

Corey Cram is a Hydrogeologist and Watershed Coordinator for the Washington County Water Conservancy District. He was raised in Fredonia, Arizona on the Arizona Strip. He received a bachelor's degree from Southern Utah University and a Master's Degree in Hydrogeology from Penn State University. He worked for the Commonwealth of Pennsylvania for ten years prior to accepting a position at the Water District three years ago. Corey is married with four beautiful daughters and makes his home in Hurricane, Utah.