

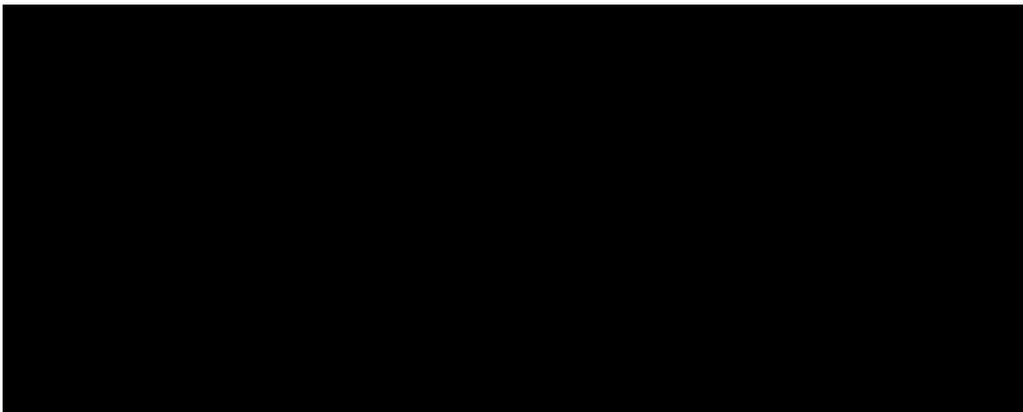
2014 MSSC Annual Salinity Summit
“Sustainable Solutions in an era of Climate Variability”
February 20-21, 2014



February 20-21, 2014

SPEAKER BIOGRAPHIES

2014 MSSC Annual Salinity Summit
“Sustainable Solutions in an era of Climate Variability”
February 20-21, 2014



Opening & Keynote Speakers:
Thursday, February 20, 2014
8:00 a.m. - 8:30 a.m.

Bob Yamada

Mr. Yamada is the Water Resources Planning Manager for the San Diego County Water Authority. He oversees water supply and facility planning for the Water Authority. His current responsibilities include water facility planning including C.I.P. project planning and regional master planning. Mr. Yamada led the negotiation of the technical aspects of the Water Purchase Agreement for the Carlsbad Desalination Project and now oversees Water Purchase Agreement compliance for the design and construction of the desalination plant.

Mr. Yamada has been with the Authority since 1992. Prior to that, he worked as a civil engineering consultant for 8 years. He holds bachelors and masters degrees in civil engineering from San Diego State University, and is a registered civil engineer in California. Mr. Yamada is an incoming Board member and a past president of the American Membrane Technology Association (AMTA).

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Legislative/Funding
Thursday, February 20, 2014
8:30 a.m. – 10:00 a.m.

Mark Limbaugh

Mark Limbaugh provides strategic federal policy and legislative guidance to clients on water, irrigation, energy, and natural resource management issues, and currently serves as Managing Partner – Business Practices at The Ferguson Group, a full service lobbying and consulting firm in Washington DC. Before joining The Ferguson Group in July 2007, Mark was appointed in 2005 by the President and confirmed by the Senate as Assistant Secretary for Water and Science at the Department of the Interior. Prior to that, Mark served more than three years as Deputy Commissioner for External and Intergovernmental Affairs at the Bureau of Reclamation in Washington, D.C.

Mark has extensive experience in federal agency budget formulation, policy development, regulatory issues, and management initiatives at the highest levels of the federal government. While at the Department of the Interior, Mark was directly involved in some of the most complex water issues involving the federal government. He has worked closely with water and natural resource leaders in the 17 Western states and across the nation, with members of Congress and with his peers at the many federal agencies and science organizations responsible for dealing with national water and natural resource issues.

Prior to his federal service, Mark has accumulated over 22 years of on-the-ground experience in production agriculture, water management and natural resource issues, and has been actively involved in various state and federal water organizations throughout his career. Other key positions Mark has held include President of the Family Farm Alliance, Watermaster of Idaho's Payette River Basin and Executive Director of the Payette River Water Users Association.

Mark earned his B.S. cum laude from the University of Idaho, and has worked as a Certified Public Accountant.

Camille Calimlim Touton

Camille Calimlim Touton serves as Professional Staff for the U.S. House of Representatives Natural Resources Committee, Subcommittee on Water and Power. Prior to joining the House Natural Resources Committee, Camille worked for Senate Majority Leader Harry Reid as a Legislative Correspondent on public lands, water and other Nevada-related matters. Camille also worked for the Southern Nevada Water Authority for two and half years, providing support for the in-state water projects and quantifying water rights on the Muddy River.

Camille holds a B.S. in Engineering (Civil) and a B.A. in Communication Studies from the University of Nevada, Las Vegas.

Joshua Johnson

Joshua Johnson is a Republican Professional Staff Member on the U.S. Senate Energy and Natural Resources Committee. As a member of the Republican staff, he is responsible for the Water and Power Subcommittee, and issues pertaining to energy efficiency. Prior to joining the Senate, Mr. Johnson was the Staff Director of the U.S. House Resources Committee's Subcommittee on Water and Power. Mr. Johnson has a Masters Degree from the London School of Economics and an M.A. in National Security and Strategic Studies from the U.S. Naval War College.

Michael Gabaldon

Mr. Michael Gabaldon is the West Water Resources Leader with AECOM. In that role, he is AECOM's Western Water representative as well as National Dams and Hydropower representative.

He recently retired from his Senior Executive position with the Bureau of Reclamation. His most recent position with Reclamation was Director Technical Resources. In that role, he oversaw Reclamation's Technical Service Center, Research and Development Program, the Senior Leader - Power Liaison, and the Senior Leader - DSO/DEC.

He began his career with Reclamation in 1982 as a Rotation Engineer at the Montrose Projects Office in Colorado. Following the Rotation program, he was assigned to the Inspection Branch to work on the Ridgeway Dam. Upon the completion of dam construction, he transferred to the Designs and Estimates Branch, where he worked for 5 years. In 1989, he relocated to the Durango Projects Office to perform design and contract administration work on the Anima-La Plata Project.

In 1991, Mr. Gabaldon moved to the Bend Construction Office in the Pacific Northwest Region, working as both a Lead Engineer and a Supervisory Civil Engineer in the Contract Administration Branch. In 1993, he was promoted to Chief of the Office Engineering Division. From 1996-98, he served as Reclamation's Pacific Northwest Regional Liaison Officer in Washington. In 1998, he was selected as the Area Manager for one of Reclamation's largest area offices, the Albuquerque Area Office. He was responsible for Reclamation program activities in the Rio Grande basin, the Pecos River basin, and the Canadian River basin - spanning three states from southeastern Colorado through New Mexico and south to west Texas.

In 2001, Mr. Gabaldon relocated to Washington, D.C, to serve as the Deputy Director of Operations. In this capacity, his responsibilities included program coordination among Reclamation's regional and area offices, evaluation and assessment of Reclamation's capability to effectively achieve its legislative mandates, and development and review of the adequacy of operational programs. He remained in that position until 2003 when

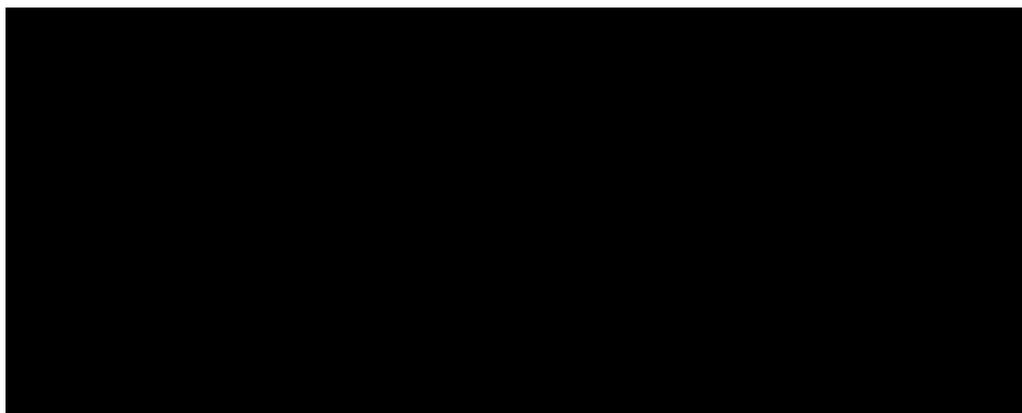
Commissioner John Keys promoted Mr. Gabaldon to the position of Director of the Policy, Management, and Technical Services organization in Denver, CO.

Mr. Gabaldon assumed the position of Director of the Technical Service Center in the Denver office of the Bureau of Reclamation in January 2006. From 2003 to 2006, he served as the Director of Policy, Management, and Technical Services headquartered in Washington, In that role, he was responsible for the Office of Program and Policy Services, Chief Information Office, Technical Service Center, International Affairs, and Management Services Office.

Mr. Gabaldon's experience on key Reclamation projects and his in-depth knowledge of Reclamation's programs and policies have allowed him to serve as a highly visible member of Reclamation leadership. He is well-versed in technical, administrative, operational, Congressional, and policy issues and is a valued source of information and consultation regarding Reclamation's role in the Department of the Interior.

A native of Belen, New Mexico, Mr. Gabaldon was awarded a Bachelor of Science degree in Civil Engineering from the University of New Mexico. He also earned an Associates degree in Water Technology/Utilities from New Mexico State University. Mr. Gabaldon is a registered Professional Engineer and is fluent in Spanish.

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**Desalination Systems – Post Construction and
Operational Lessons Learned**
Thursday, February 20, 2014
10:15 a.m. – 11:45 a.m.

Scott Reinert

Mr. Reinert manages groundwater resources, well drilling and monitoring, and the wellhead protection program, and provides data to support the utility's participation in regional water planning. He has 25 years of experience as a hydrogeologist. Mr. Reinert worked at Sergent, Hauskins, and Beckwith Geotechnical Engineers and geohydrology Associates in Albuquerque, New Mexico, before being hired by El Paso Water Utilities in 1999. He has held a number of positions during his tenure at the utility. Mr. Reinert has served as project manager for the Well Infrastructure Analysis Program and manages development of groundwater modeling for the Exempt Aquifer Application that will permit more flexibility in operating the Kay Bailey Hutchison Desalination Plant's injection wells. He also developed data for the 2011 Far West Texas Regional Water Plan by supplying population and demand statistics for the city of El Paso, as well as water supply strategies and costs. The 50 year regional plan was incorporated into the State Water Plan which was approved by the Texas Legislature in 2012. Mr. Reinert earned a bachelor's degree in geology at McMurry College and a master's degree in civil engineering from Colorado State University. He is a registered Professional Geologist and Professional Engineer in Texas and a registered Certified Scientist in New Mexico.

Horacio Juarez

Mr. Juarez is a Senior Project Manager with CDM Smith in El Paso, Texas. Through his career, he has completed a wide range of water and wastewater infrastructure projects for several municipalities and the private sector. These projects have included water and wastewater infrastructure, environmental compliance and water quality management. His principal strength has been managing large and complex multi-disciplinary projects where his range of technical experience becomes very valuable. He has extensive experience and knowledge working with several state and federal agencies to acquire funds for planning, design and construction for several municipal clients. He has worked in the public water municipal field for 12 years and in the engineering consulting field for 17 years.

He earned his bachelor's degree in civil engineering from Texas A&M University. He is a registered Professional Engineer in the State of Texas.

Janet Clements

Ms. Clements specializes in water resources planning and natural resource and environmental economics. She conducts benefit-cost and triple-bottom line (TBL) analyses to evaluate the financial, social, and environmental impacts of policies and programs. Ms. Clements has conducted economic and environmental impact analyses of green infrastructure, water supply (including water reuse and desalination), climate services, and energy development projects, evaluating effects on irrigated agriculture, water quality, air quality, municipal water rates, public health, recreation, regional economies, and economic sectors. She has served as the lead analyst on several projects related to nonmarket valuation of benefits and costs and has also led and conducted several studies to assess regional economic impacts of policy changes and events. Ms. Clements is experienced in evaluating water use and behavior across sectors and applying that information to help water utilities with water conservation, water demand management, and drought planning. Ms. Clements also works on climate variability and adaptation in relation to the water sector.

Stefan Schuster

Stefan Schuster joined MWH in July 2013 as the Texas Water Strategy Leader. Mr. Schuster brings over 20 years of experience in the Texas water resources market with both public and private work. Prior to MWH, he worked for DBS&A for over 6 years heading up the Texas Water Resources Group out of Austin and serving as Austin operations manager. Mr. Schuster also teaches a graduate water resources planning class at the University of Texas. Prior he worked for 5 years as a project manager for Freese & Nichols, Inc. on regional planning and water supply projects. Prior to joining the private sector, Mr. Schuster worked as water resources planner with the Texas Water Development Board (TWDB) on SB1 Regional Planning and for the predecessor of TCEQ, the Texas Natural Resource Conservation Commission (TNRCC), developing the initial criteria for the WAM process. Mr. Schuster has also worked for the Barton Springs/Edwards Aquifer Conservation District in Austin, several years of research and support for an environmental law office, and several years as a self-employed consultant working on groundwater issues in Texas. Mr. Schuster has two MS degrees in Hydrology and Community and Regional Planning and a BS in Geophysics, all from the University of Texas at Austin. He was born and raised in Hamburg, Germany and became a U.S. citizen in 1996. He lives in Austin with his wife and two sons.

Mr. Schuster has more than 20 years of professional experience in the water resources industry, serving a variety of state and municipal clients. He holds two Master Degrees in Hydrology and Community and Regional Planning and a BS in Geophysics from the University of Texas at Austin. He has extensive experience as a project manager, hydrologist, and water resource planner working on diverse water resource planning

projects throughout Texas. He is also proficient in surface and groundwater availability modeling, water quality analyses, policy development and implementation, GIS, water rights and public involvement.

James Lee Murphy

James Lee Murphy, Esq. is the Executive Director of Water Resources and Utility Operations for the Guadalupe-Blanco River Authority. A graduate of Tulane University and the Tulane University School of Law, Jim practiced law in the oil and gas industry, served as an administrative law judge for the Texas Water Commission, and represented the Trinity River Authority as general counsel for 16 years. He has been with GBRA for the past five years. Jim has served on the State Bar of Texas' Board of Legal Specialization in Administrative Law, is the immediate past president of the San Antonio Bar Association Environmental Law Section, and serves on the Guadalupe Bay and Basin Stakeholder Committee among other professional and civic endeavors.

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***Luncheon & Keynote Speakers: Addressing
Climate Change in Long-term Water
Resources Planning and Management
Thursday, February 20, 2014
11:45 a.m. – 1:15 p.m.***

James Prairie

James Prairie is a Hydraulic Engineer who has worked for the Bureau of Reclamation's Upper Colorado Regional Office since 2000. He has extensive experience in leading hydrology workgroups; directing and coordinating research, development, and modeling projects; directing and leading long-term planning studies' technical teams; and acting as a subject matter expert.

Jim earned a Bachelor's degree in Environmental Resource Engineering from the State University of New York College of Environmental Science and Forestry. In addition, he attained a master's and doctorate degree in Civil Engineering from the University of Colorado at Boulder. He was awarded the J. Ernest Flack Graduate Fellowship in 2002. In 2007, he was chosen as Reclamation's Upper Colorado Region Engineer of the Year.

Since 2008, Jim has led the Colorado River Hydrology Workgroup in its efforts to position the Lower Colorado Region as a leader in water management and planning by integrating quantitative climate variability and change in both mid-term operations and long-term planning for the Colorado River Basin.

Jim has participated in several NEPA studies including the Colorado River Interim Guidelines for Lower Basin Shortages and Coordinated Operations of Lake Powell and Mead, the Aspinall Unit EIS, and the Long-Term Experimental Management Plan EIS for the operations of Glen Canyon Dam. Jim has also been extensively involved with the Salinity Control Forum's Triennial Review Studies. In recent years, he led several technical teams for the Colorado River Basin Study. Currently, Jim is working in the Tribal Basin Study and the Basin Study Next Steps Process and is acting as a subject-matter expert for Binational discussions with the Republic of Mexico.

Chad Johannesen

Chad Johannesen, P.G. is a Hydrogeologist at DBS&A who supports clients throughout the western United States, specializing in hydrogeology, water resources assessments, environmental monitoring systems (data collection and communication), well design, and aquifer testing. Since 2006, Mr. Johannesen has coordinated with the New Mexico Environment Department and Interstate Stream Commission to design and implement many physical survey and surface and groundwater sampling events, which have been used to develop a comprehensive understanding of salinity and the processes affecting changes in salinity and water quality in the Lower Rio Grande. Mr. Johannesen is a licensed Professional Geoscientist in Texas and holds bachelor's and master's degrees in geology.

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**Collaborations Key to Advancing Research
in Water Supply Diversification and
Sustainable Utility Operations
Thursday, February 20, 2013
1:30 p.m. – 2:45 p.m.**

Chris Rayburn

Mr. Rayburn is the Director of Subscriber and Research Services for Water Research Foundation, with overall responsibility for planning and overseeing the Foundation's research program, member services, and communications. He has been with the Foundation for fifteen years and has served as project manager and senior account manager prior to his current position. Previously, Mr. Rayburn spent fourteen years as a consultant with various U.S. engineering firms, most recently as manager of IT Corporation's Denver regional office from 1994-1997. He holds a Bachelor's Degree in Geology from the University of Colorado. Mr. Rayburn is a registered professional hydrogeologist with twenty five years of experience in the areas of water supply, resource management and groundwater protection.

Silvana Ghiu

Dr. Silvana Ghiu has extensive experience in seawater reverse osmosis treatment systems covering many aspects of a project development, from feasibility study, pilot testing, design and design review, cost estimation, detailed energy consumptions estimation and optimization, O&M integration with design etc. She has been closely involved with SWRO facilities in the US (California) as well as internationally (Australia and Middle East). She has hands on experience in piloting water and advance treatment waste water systems, and has been working for SPI for the past 6 years. Pervious employment includes Doosan Hydro Technology and HSA Engineers and Scientists both located in Tampa, FL.

Charles Herrick

Dr. Herrick, executive vice president, leads Stratus Consulting's administrative and economics and policy groups. He has more than 25 years of experience in environmental program management, program evaluation, applied environmental policy analysis, and science/policy assessment in an environmental context. Dr. Herrick has conducted organizational assessments, strategic planning exercises, and process roadmapping exercises for many public sector clients, including the U.S. Environmental Protection Agency, the U.S. Department of Energy, the Centers for Disease Control and Prevention, and Sandia National Laboratories,

In recent years, Dr. Herrick has led a number of significant projects dealing with the establishment of cross-cutting management initiatives, involving the need for organizational realignment, review and development of supporting policy regimes, and development of appropriately focused and pragmatic procedures and guidance

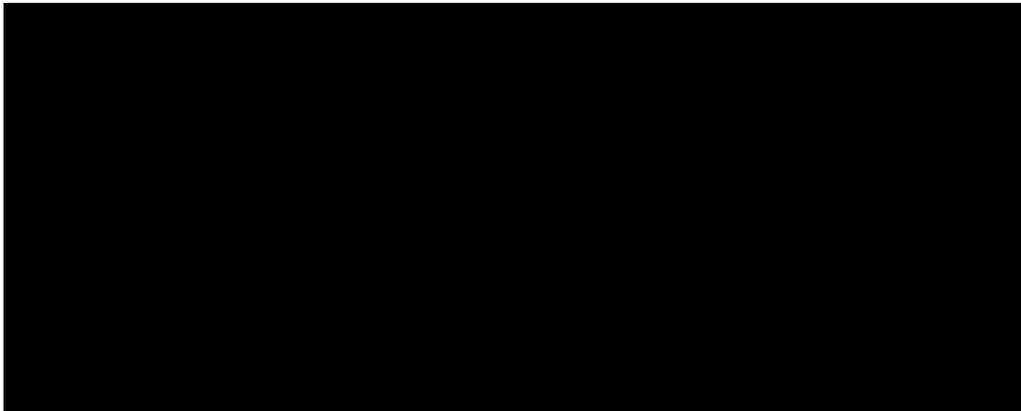
materials. He has designed program and project theories of change, logic models, and real-time evaluation frameworks to elucidate and characterize a wide variety of program delivery mechanisms, process outputs, outcomes, and impacts for major foundations, government agencies, and various nonprofit organizations. Dr. Herrick also consults frequently with water sector research foundations, including the Water Research Foundation, the Water Environment Research Foundation, the Water Environment Federation, the National Rural Water Association, and the Association of Metropolitan Water Agencies. In this capacity he has addressed topics including emergency response planning, evaluation of emergency response events, protection of critical information, customer payment assistance programs, utility cultural change to support sustainable operations, water utility adaptation to climate change, and communication of risk information.

Dr. Herrick is widely experienced in the design and conduct of complex, multi-disciplinary, multi-stakeholder environmental studies, including issues such as coastal management under projected sea level rise, watershed impacts as a result of extreme events, large-scale geothermal energy development on the Island of Hawai'i, resource development in the Rocky Mountain West, and acidic deposition.

Patricia Tennyson

Patricia Tennyson, executive vice-president, Katz & Associates, has developed and managed communication, government and community relations, and public affairs and media strategies for water and wastewater agencies including the City of San Diego Public Utilities Department, Fort Worth Water, Santa Clara Valley Water District, Honolulu Board of Water Supply, San Diego County Water Authority, West Basin Municipal Water District, El Paso Water Utilities, Detroit Water and Sewerage Department, Rancho California Water District, and Western Municipal Water District. She has a B.A. from Southern Methodist University, a M.L.S. from Texas Women's University and a M.P.A. from San Diego State University. Ms. Tennyson is a trustee on the American Waterworks Association's Management and Leadership Division and former chair of the Public Affairs Council and a member of the WaterReuse Association California Section board of trustees, as well as the WaterReuse Research Foundation's Research Advisory Committee.

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Brine Streams Disposal and Use
Thursday, February 20, 2014
3:00 p.m. – 4:15 p.m.

Pamela Creedon

Pamela Creedon is the Executive Officer of the Central Valley Water Quality Control Board. She is a licensed Civil Engineer and a Board Certified Environmental Engineer with over 32 years of professional experience, including over 21 years of experience in both the public and private sector developing and implementing water quality regulatory programs. She holds a Bachelor of Science and Master of Science in Civil Engineering from California State University, Sacramento. She is a member of the American Society of Civil Engineers, the American Academy of Environmental Engineers and Tau Beta Pi. She serves on the American Society of Civil Engineers National Energy, Environment and Water Policy Committee and the CSU Sacramento Environmental and Water Resources Advisory Committee. She is a Vice-Chair of the Sacramento Chapter of the Environmental & Water Resources Institute (SCEWRI) of the American Society of Civil Engineers and is a member of the Board of Directors for the San Francisco Estuary Institute Aquatic Science Center.

Karl Longley

Dr. Longley is a researcher and project manager with the California Water Institute at Fresno State. His current responsibilities include serving as an investigator for the California Council of Science and Technology's Innovation for California's Water Future Program, and developing solutions for the safe drinking water needs of small, economically disadvantaged communities (DACs). Dr. Longley's experience also includes over 22 years as a Central California Regional Water Quality Control Board member of which nine years were as the Board's chair, a position he currently fills

Dr. Longley served as a Professor of Civil Engineering during 1982 to 2004 at CSU Fresno, he was the Dean of CSU Fresno's College of Engineering and Computer Science during 1996 through 2004, and he was a U.S. Army officer working as an environmental engineer beginning in 1960 and departing active duty as a lieutenant colonel in 1981.

Dr. Longley has over 50 years of experience directly supervising or conducting studies of water quality, industrial waste control, hazardous waste management, and water and wastewater treatment plant design and as a civil engineering faculty member, researcher and academic administrator.

Yoram Cohen

Dr. Cohen is a UCLA Professor of Chemical & Biomolecular Engineering (CBE) since 1981 and Director of the UCLA Water Technology Research (WaTeR) Center. He is also on the faculty of the UCLA Institute of the Environment and Sustainability, a UCLA Luskin Scholar and a member and Theme Leader at the UCLA Center for

Environmental Implications of Nanotechnology (CEIN). He is a recognized expert in water purification and desalination, membrane separation processes and environmental impact assessment, with over 200 published research papers and book chapters in the above areas. He developed patented technologies for smart water desalination system, membrane monitoring, surface nano-structured membranes, and high recovery RO, in addition to software for environmental impact assessment.

Dr. Yoram Cohen received his B.A.Sc., M.A.Sc., in 1975 and 1977, respectively, both in Chemical Engineering, from the University of Toronto, and his Ph.D. from the University of Delaware in 1981. He has been on the Faculty of Chemical and Biomolecular Engineering at the University of California, Los Angeles (UCLA) since 1981. He is also on the Faculty of the UCLA Institute of the Environment and Sustainability and Adjunct Professor at Ben-Gurion University. He was a Visiting Professor at the Technion (1987-1988), at Universitat Rovira i Virgili (1944) and a Distinguished Visiting Professor at Victoria University (2006). He is a founder and Director of the Water Technology Research Center and the Center for Environmental Risk Reduction. He is also a co-founding member of the UCLA/National Science Foundation (NSF) Center for the Environmental Implications of Nanotechnology (CEIN) which received the 2012 California Governor's Award in Green Chemistry. Dr. Cohen is a UCLA Luskin Scholar and a recipient of the 2008 Ann C. Rosenfield Community Partnership Prize in recognition of his environmental research. He received the 2003 Lawrence K. Cecil award in Environmental Chemical Engineering from the American Institute of Chemical Engineers (AIChE), the AIChE Separations Division Outstanding Paper Award (1997 and 2009), and was elected Fellow of the AIChE in 2009. In 2008 he received a County of Los Angeles Commendation (2008), a State of California Senate Certificate of Recognition, and a Certificate of Special Congressional Recognition (US) for contributing to legislation to protect public health and dedicated service to the Los Angeles community.

Dr. Cohen served as Chair of the AIChE Environmental Division (2002) and of the Separation Division (2008). He published over 200 research papers and book chapters, presented over 400 papers in scientific conferences and gave over 150 invited talks on water technology, water desalination, separations processes, membrane technology, transport phenomena, polymer science, surface nano-structuring and environmental engineering. He is also the Editor of three environmental volumes. Dr. Cohen developed patented technologies in water desalination technology, membrane synthesis, high recovery brackish water desalination, membrane process monitoring, chemical sensors, surface nano-structuring with polymers, and developed models and software for environmental impact assessment. His present research focuses on distributed smart water systems, optimization and control of water treatment systems, RO/NF membrane development, membrane process monitoring, environmental impact assessment regarding emerging contaminants and the environmental implications of nanotechnology. He has served on numerous Government Advisory Committees (including the USEPA Science Advisory Board and the NRC Board on Environmental studies and Toxicology) and recently served on the Blue Ribbon Committee of the Metropolitan Water District of Southern California. Dr. Cohen organized over thirty scientific conferences including the recent 2013 Nanoinformatics workshop, the 2013

West Coast Water Reuse workshop, the 2009 and 2010 West Coast Water Technology Transfer workshops, the 2008 International Congress on Membranes and membrane processes (ICOM), and he was the Meeting Program Chair of the 2010 Annual AIChE Meeting. He is a member of a number of professional societies including the, AIChE, ACS, NAMS, IDA, AWWA and AMTA.

Deane Little

Deane Little is CEO and Chief Science Officer of New Sky Energy, an award-winning clean chemistry company based in Boulder, Colorado. New Sky has developed and patented technologies that convert salts and waste brines into useful chemicals, including acid, base and CO₂-negative carbonates such as soda ash, baking soda and limestone. New Sky is currently building commercial salt processing plants in Colorado and Wyoming and is in the planning stages for a large salt processing facility in California's Central Valley that will convert 100 tons per day of salt harvested from agricultural drainage water into fertilizers, carbonates and other useful chemicals. Deane holds a Bachelor's degree in Biology from Reed College and a PhD in Molecular Biophysics from Florida State University. He conducted his PhD research at Oak Ridge National Lab and postdoctoral fellowships at US EPA and Stanford Medical School. In addition to his role as New Sky's CEO/CSO Deane is an accomplished landscape photographer and grows native plants for the US Forest Service on his small farm outside Niwot Colorado. For additional information about New Sky's salt processing technologies see www.newskyenergy.com.

Ron Durbin

Ron Durbin is the Executive Director of the University of California Advanced Solar Technologies Institute (UC Solar). UC Solar is a multi-campus research institute made up of faculty from the University of California's Merced, Berkeley, Santa Barbara, Davis, San Diego, Riverside, Santa Cruz, Irvine and Los Angeles campuses. Headquartered at UC Merced, UC Solar creates technologies that make solar energy systems more efficient, more affordable, and easier to integrate. In addition, UC solar educates and develops tomorrow's solar energy leaders and entrepreneurs. Before coming to UC Merced in 2007, Ron spent five years at UC San Diego working in the information storage field at UCSD's Graduate School of International Relations and Pacific Studies (IR/PS). He also worked in high tech, spending 10 years with San Diego-based QUALCOMM Incorporated. Ron has a B.A. in English and Communication Arts from California Lutheran University in Thousand Oaks, CA.

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**Salinity Control in Oil, Gas and Mining
Industries**
Thursday, February 20, 2014
4:15 p.m. – 5:30 p.m.

Val Frenkel

Dr. Val S. Frenkel is an eminent figure in the water industry with his expertise in water and wastewater treatment, water reuse, and membrane technologies, including desalination. Equally instrumental was Dr. Frenkel's role in the development of low pressure membrane technologies and applications which are used and taught at the university level.

Dr. Frenkel's works go far beyond his job scope as they are published extensively both in the US and abroad, authoring several patents. He has published more than 100 articles in the areas of water, wastewater treatment, desalination and salinity management. For his works, Dr. Frenkel has received numerous accolades from the likes of the International Desalination Association and American Academy of Environmental Engineer. At the same time, Dr. Frenkel is also a Diplomat, Water Resources Engineer (D.WRE) of the American Academy of Water Resources Engineers (AAWRE), which is part of the Academy of the Civil Engineering Certification, Inc. (CEC).

David Stewart

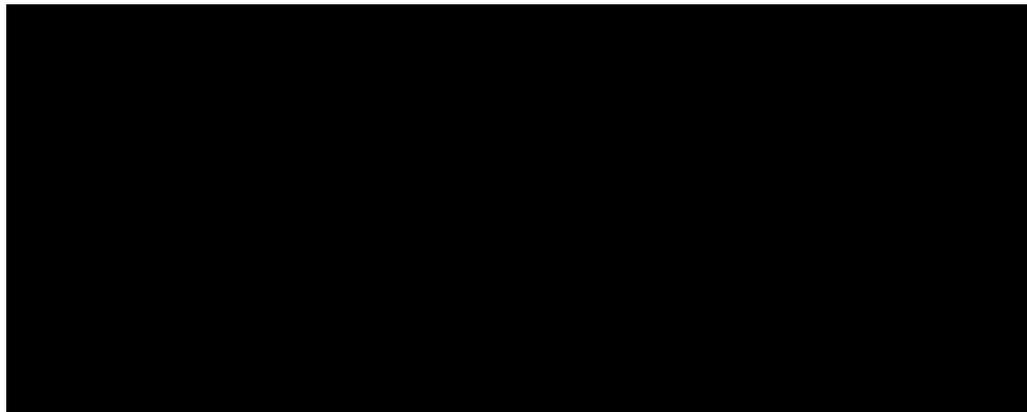
Dr. Stewart has over 35 years of experience in the water quality and water/wastewater treatment industry. Dr. Stewart is currently working on 5(5) different produced water treatment systems for beneficial reuse. Dr. Stewart has designed wastewater treatment systems to meet the toxicity and pollution loading reduction needed to meet discharge criteria for stream waste load allocation. He currently has two patents on various technologies associated with produced water treatment with two patents pending. His current emphasis is on the treatment of brackish water for energy development. He has also testified before the US Congress and the National Academy of Science on this topic on three different occasions. Dr. Stewart is also a technical reviewer for the Colorado School of Mines RPSEA project and is a visiting scholar at CSM.

Dr. Stewart received his BS, MBA and PhD from Colorado State University in Environmental Engineering. He received his MS in environmental engineering from the University of Arizona. Dr. Stewart is also an adjunct faculty member at Colorado State University and teaches industrial wastewater treatment and hazardous waste treatment and management. He has authored over 50 professional papers which have been peer reviewed.

Brian Butters

Brian Butters is President and Co-founder of Purifics, an internationally renowned company for their leading technologies in sustainable, low-cost, chemical free water purification for municipal and industrial sectors. Since 1993, Purifics has over 25 patents, patents pending, and has received awards for sustainable development and innovation with its market-disruptive technology. Brian is a professional engineer, holds a BAsC Mechanical Engineering from the University of Waterloo and an MBA from Western University.

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Opening Keynote Presentation
Friday, February 21, 2014
8:30 a.m. – 9:00 a.m.

John Grant

John Grant has been General Manager of the Colorado River Municipal Water District since October of 1995.

CRMWD, a Special Law District in the State of Texas, is the major supplier of raw water for municipal and industrial use in West Texas. The District's member cities are Odessa, Big Spring, and Snyder. Municipal customers include Midland, San Angelo, Abilene, Stanton, Robert Lee, Grandfalls, Pyote and the Millersview-Doole Water Supply Corporation. CRMWD supplies all or part of the raw water needs for approximately 500,000 people and provides non-potable (brackish) water for industrial and mining use.

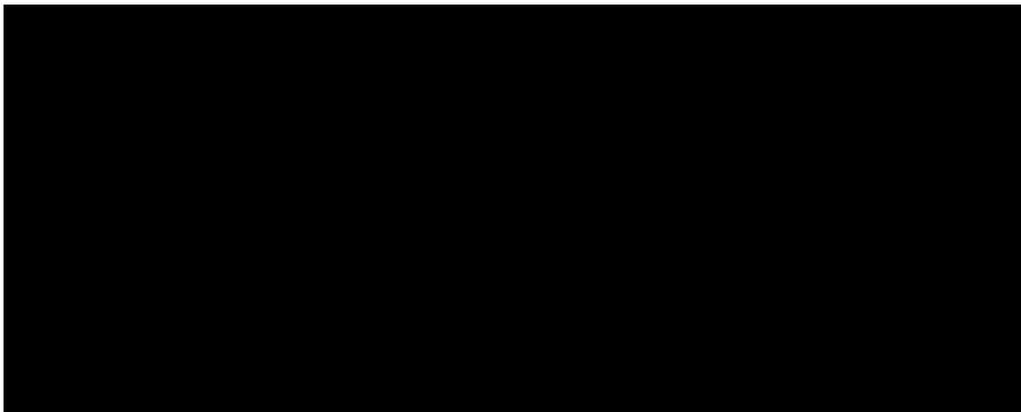
He attended Tarrant County Junior College and the University of Texas at Arlington.

Prior to joining the District John was with Freese and Nichols, Inc. where his primary responsibilities were related to the planning, design and construction of major water supply projects across the State of Texas.

John serves as Chair of the Region F Regional Water Planning Group, a 32-county regional water planning area in West Texas.

John is a member of the Texas Water Conservation Association, American Water Works Association and Board Member of the TWCA Risk Management Fund.

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Regional Advances in Water Reuse Practices
Friday, February 21, 2014
9:00 a.m. – 10:15 a.m.

Carolyn Ahrens

Carolyn Ahrens practices law primarily in the areas of water rights and contracts, utility and environmental law. She also has been active in representing clients on legislative issues affecting water supply and regulation. Ms. Ahrens is a frequent speaker and author on the subject of water and legislative issues affecting water suppliers.

Ms. Ahrens is a dedicated participant in professional associations that are focused on water resources for public and industrial water supply. At the state level, she serves on the board of the Texas Water Conservation Association, an association that encompasses the full spectrum of water use and interests and acts in an advisory capacity to encourage and inform Congress, the Texas Legislature and governmental agencies at all levels charged with responsibility for water resources. Ms. Ahrens chaired that association's Water Laws Committee under three association presidents and currently is active with the Federal Affairs Committee, the Water Reuse Committee, and the General Environmental Panel. She also served on the Board of Directors and as an Officer of the Water Environment Association of Texas for many years. For that association, Carolyn convened the Texas Water Forum, a network of Texas associations that share perspectives on legislative and regulatory issues facing water suppliers.

At the national level, Ms. Ahrens served for eight years on the Board of Directors of the WaterReuse Association and has chaired that association's National Legislative Committee. She also chaired the American Water Works Association's Water Resources Sustainability Division that encompasses national committees on Climate Change, Groundwater, Source Water Protection, Water Desalting, Water Resource Planning and Water Reuse. Ms. Ahrens formerly served on the Board of Trustees of the Water Environment Federation whose mission is to preserve and enhance the global water environment. The Water Environment Federation has provided technical education and training for the world's water quality professionals since 1928.

Ms. Ahrens has twice received the TWCA President's Award for "outstanding dedication, contribution and service to the water resources of the State of Texas;" the Arthur Sidney Bedell Award, presented by the Water Environment Federation "acknowledging extraordinary personal service to the Water Environment Association of Texas;" the Water Environment Association's President's Service Award; and two Watermark awards for raising the public's level of understanding of Texas water issues. Most recently, she received the 2012 Dave Requa President's Award, presented by President Brian Good on behalf of the WaterReuse Association.

Ms. Ahrens is a graduate of the University of Texas Law School. She is a Life Fellow of the Texas Bar Foundation; a Fellow of the American Bar Association Young Lawyers Division; a member of the Joseph Pritchard Inn; and a Founding Fellow of the Austin Bar Foundation. For the International Young Lawyers Association, Ms. Ahrens served

on the Executive Committee as National Vice-President for the United States, the highest office for national representatives.

Alan Plummer

Alan H. Plummer, Jr., is founder and Chairman Emeritus of the Board of Alan Plummer Associates, Inc. He has worked in the civil/environmental engineering water resources field for more than 48 years and has technical expertise in water reclamation and conservation.

Alan H. Plummer, Jr., began his career in 1964 after graduating from Lamar University in Beaumont, Texas, with a degree in Civil Engineering. He received his Master of Science degree in Environmental Health in 1968 from the University of Texas at Austin.

Since 1978, Alan has provided leadership in the firm of Alan Plummer Associates, Inc. (APAI), a consulting engineering firm recognized as a leader in the environmental and water resources field in Texas. APAI has Texas offices located in Fort Worth, Dallas, Austin, and Houston.

Currently, Alan is involved in some major water reuse projects in which highly treated municipal effluent is being used to augment the water supplies of several large water districts in the state of Texas. He is recognized as a visionary and expert in the area of water reuse and conservation.

Alan Plummer is a registered professional engineer in Texas and four other states and is a Board Certified Environmental Engineer (BCEE). He has been an active member as well as served as officers for a number of technical and professional engineering organizations. He is past President of the Texas Water Conservation Association (TWCA) and is currently Chair of the TWCA Water Reuse Committee. He also served as the initial President of the WaterReuse Association Texas organization. He was presented the 2008 Award of Merit by the WaterReuse Association for his contributions to water reuse. In 2009 he received the WEAT Lifetime Achievement Award for contributions towards the improvement of the water environment. In 2011 WEAT established the Alan H. Plummer Environmental Sustainability Award.

He has been recognized as a Distinguished Alumni of Lamar University's Civil Engineering Department. In 2007 he was awarded membership in the University of Texas's Civil, Architectural, and Environmental Academy of Distinguished Alumni.

Most importantly, Alan and his wife Peggy have two daughters, Jamie and Patti, and four grandchildren.

Alan acknowledges that his family's support, coworkers' contributions, and clients' confidence have greatly enhanced his career. He recognizes that his trust in God as his Source has been the backdrop for any success he has achieved.

Timothy Thomure

Tim Thomure is the Water Reuse Practice Lead for HDR Engineering – a global consulting firm with 185 offices world-wide. He is a licensed PE with 20 years of experience working in public utilities, private industry, and consulting. His areas of expertise include water recycling, distribution systems, and strategic planning. Tim holds a bachelor's degree from the University of Illinois and a Master of Engineering degree from the University of Arizona. Tim is the Past President of WaterReuse Arizona and has served on the National Board of the WaterReuse Association. In 2013, he was named to the WaterReuse Research Foundation's Research Advisory Committee. He is also the Chair of the Water Reuse Committee of the AZ Water Association, which is the State section of both the American Water Works Association (AWWA) and the Water Environment Federation (WEF). Currently, Tim serves as the Chair of the ongoing Steering Committee of Arizona Potable Reuse (SCAPR). The SCAPR was initiated to identify and mitigate barriers to potable reuse in the State. Tim is coordinating the overall SCAPR process, working with industry colleagues to develop and facilitate a series of workshops to address the key issues surrounding potable reuse in Arizona.

Gary Darling

Gary Darling has a long and varied career in water management, resource recovery and environmental stewardship. In 2003 he joined Delta Diablo Sanitation District as General Manager. This agency provides wastewater and pollution prevention services across three cities in Northern California, as well as operates one of the largest industrial recycled water plants in California. Gary and his team are committed to transforming this agency to a recognized national wastewater resource recovery operation which meets increasing regulatory challenges; embraces innovation while respecting the environment; reduces waste while capitalizing on resources; and, protects ratepayers.

Strong advocates for industry collaboration, the Delta Diablo team are the lead agency for the Bay Area Biosolids to Energy Coalition of 19 agencies exploring wastewater management options which support a regional facility that will use biosolids and other biofuels to generate renewable energy and/or fuel. Also, the 22-member Western Recycled Water Coalition which represents cities, water districts, wastewater districts, and an investor-owned water utility representing over 3.8 million people across the San Francisco Bay, Delta, Central Valley, and Central Coast of California pursuing highly leveraged projects that will help ensure the reliability and expand water supplies in California.

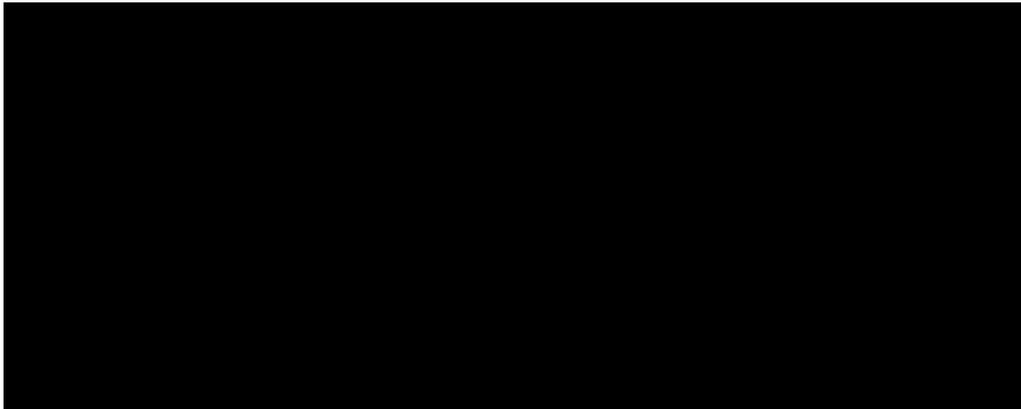
An accomplished public speaker, Mr. Darling has given testimony before the House Committee on Natural Resources Subcommittee on Water and Power on behalf of the (then) Bay Area Water Recycling Coalition. He was also an invited speaker at *General Electric's Leadership Summit: From Used to Useful* where over one-hundred delegates,

including representatives from Singapore, Australia, Canada, India, Mexico and many states across the USA, addressed global recycled water initiatives, challenges and opportunities.

Prior to joining Delta Diablo, Gary was responsible for developing new sustainable water resources for California, including overseeing the environmental review for the \$650M Freeport water project on the Sacramento River, and as program manager on the \$450M Los Vaqueros Reservoir project which was brought in on budget and won the 1999 American Society of Civil Engineers Outstanding Achievement Award.

Gary is a graduate of the University of California (Davis) and a registered Civil Engineer in California. He and his family are passionate about the outdoors and have hiked in over half of the 58 National Parks in the US.

2014 MSSC Annual Salinity Summit
“Sustainable Solutions in an era of Climate Variability”
February 20-21, 2014



**Indirect & Direct Potable Reuse –
Lessons in Planning and Implementation**
Friday, February 21, 2014
10:30 a.m. – 12:00 p.m.

Ernesto Avila

Ernesto A. Avila, P. E. is a principal at Avila and Associates and has more than 22 years of professional experience in the planning, CEQA/NEPA compliance, design, and construction of water works, water conveyance pipelines, wastewater and municipal facilities, and utility regulation. The majority of his experience has been on local and regional projects and programs, primarily while working for the Contra Costa Water District (CCWD), EBMUD, and the Monterey Peninsula Water Management District (MPWMD). For example, at the CCWD at EBMUD, Ernie managed key programs including the environmental compliance and design of the Multi-Purpose Pipeline (20 miles) and Pump Station, the Point Isabel Wet Weather Treatment Plant and SF Bay Outfall Project, the Port Chicago Pipeline Project through the Concord Naval Weapons Station and Port (4 miles), the Baypoint Pipeline Project (5 miles), the MPWMD Water Augmentation / Desalination / Pipeline Project, and he managed the seismic and reliability improvements program. He is currently the Deputy Project Manager for the As-Needed Environmental Services Project for the San Francisco Public Utilities Commission, and he is a licensed civil engineer in the State of California.

Gilbert Trejo

Mr. Gilbert Trejo, P.E. earned a Bachelor's of Science in Civil Engineering in 2003 from the University of Texas at El Paso and a Master's of Science in Environmental and Water Resources Engineering from the University of Texas at Austin, in 2004. He has worked at ARCADIS for 9 years, and has experience in water and wastewater infrastructure and facility evaluation, design, and project management. He has executed and managed construction phase projects including process design changes during construction, construction administration, and assistance with equipment startup. As an ARCADIS Certified Project Manager, Mr. Trejo has lead the design of water and wastewater facilities and managed numerous studies and design projects for large and small diameter water and wastewater pipelines, potable water pump stations, wastewater lift stations, wastewater odor control facilities. While still engaged in technical work, Mr. Trejo is in a leadership role as the Principal Engineer for Arcadis' Water Division in the El Paso, Texas region. He maintains responsibility for designing and managing projects as well as business development, mentoring staff, and ensuring financial performance.

Keith Israel

Management of the MRWPCA is led by the General Manager. The General Manager is appointed by the Board of Directors and is the Chief Administrative Officer of the Agency and Secretary of the Board of Directors. A brief biography of the General Manager is set forth below:

Mr. Israel has been the General Manager of the Monterey Regional Water Pollution Control Agency (MRWPCA) since 1988. In that role, he is responsible for the day-to-day administration of the MRWPCA and for the implementation of Board policy. In collaboration with Monterey County Water Resources Agency, Mr. Israel helped guide a partnership that provided a new irrigation water source of up to 14,000 AFY of recycled water for food crops on 12,000 acres of Salinas Valley farmland. This project reduced groundwater withdrawal from seawater intruded aquifers; stabilized the local agricultural economy; reduced wastewater discharge to the Monterey Bay and reduced artificial fertilizer needs. This cutting-edge project is the largest of its type in the world. Two other recycling water projects currently being planned include one that will provide high-quality water for groundwater replenishment by 2016. Prior to joining MRWPCA, Mr. Israel held a similar position with Victor Valley Wastewater Reclamation Authority for five years. He has a Bachelor of Science in Chemical Engineering, a Masters in Environmental Engineering, and a Masters in Business Administration. He has been active in water recycling for more than twenty-five years. Mr. Israel is a long-term member of the Water Environment Federation (WEF), American Water Works Association (AWWA), and the WaterReuse Association, for which he was a Board Member for over fifteen years.

Andy Salvesson

Andy Salvesson is Carollo Engineers' Water Reuse Chief Technologist and potable water reuse lead. In his 19 years of environmental engineering work, Andy has authored numerous research publications, guidance manuals, and textbooks, including sections of the 2012 USEPA Water Reuse Manual, the WEF MOP 8 textbook, and the 2012 NWRI UV Guidelines. He is playing a key role in three of the WaterReuse Research Foundation's (WRRF) five current direct potable reuse (DPR) research treatment projects, sits on the WRRF Research Advisory Committee, and provides peer review to numerous potable reuse research projects nationally. Andy is the technical lead for testing and analysis of the first DPR project to be implemented in the United States (located in Big Spring, TX), and is on the National Water Research Institute's Independent Advisory Panel for the second DPR facility in the U.S. (Cloudcroft, NM). Andy is the process lead for the upcoming DPR design for Laguna Madre, TX. Andy was honored with the 2007 WaterReuse Person of the Year Award for bringing innovative technologies to market.