

### **Ed Archuleta**

[earchuleta@epwu.org](mailto:earchuleta@epwu.org)

Ed Archuleta has served as General Manager for the El Paso Water Utilities Public Service Board since January 1989. He is responsible for all aspects of water and wastewater service to the Greater El Paso Metropolitan Area, a population of approximately 700,000 people. During his service as General Manager, El Paso Water Utilities has been recognized in Texas, regionally, and nationally for innovations and leadership in water conservation, reclamation, and utility management.

Mr. Archuleta, a registered Professional Engineer in Texas, New Mexico, and Iowa, earned Bachelor of Science and Master of Science Degrees in Civil Engineering from New Mexico State University, as well as a Master of Management Degree from the University of New Mexico.

### **Jorge A. Arroyo**

[Jorge.arroyo@twdb.state.tx.us](mailto:Jorge.arroyo@twdb.state.tx.us)

Jorge currently directs the Texas Water Development Board (TWDB) Desalination Program. In that capacity he leads the TWDB efforts in the development of seawater and brackish water desalination supplies.

Jorge is a native of Costa Rica, where he initiated his career as a Civil Engineer with the Costa Rican Water Institute in 1980. In 1986 he joined the United States Agency for International Development, Mission to Costa Rica, to manage the Community Self-Help Program; a program for the development of civil infrastructure and community leadership. In 1989 he began working for the State of Texas. He worked for the Texas Water Commission (Currently Texas Commission on Environmental Quality) as a leader for the Utility Rate Design Team.

He joined the Texas Water Development Board in 1993 to implement various programs related to rural wastewater services in the Texas-Mexico border. He later joined the Water Resources Planning Division in the implementation of the Regional Water Planning Program. In 2001 he was named director of Special Projects, leading development of new programs and activities at TWDB.

### **David Burnett**

[d-burnett@spindletop.tamu.edu](mailto:d-burnett@spindletop.tamu.edu)

David B Burnett is the Director of Technology for the Global Petroleum Resources Institute (GPRI) and a member of the graduate faculty of the Petroleum Engineering Department at Texas A&M University. He has extensive experience in technology related to oil field produced water management. For the past four years he has been working with the Texas Water Resources Institute leading a team of scientists and engineers recovering fresh water from oil field brines and brackish ground water and using it for beneficial purposes.

Mr. Burnett has been at the University since 1995 and head of GPRI since 1998. GPRI is a collaboration of major and independent oil and gas companies performing joint venture

research projects in drilling and completion, facilities and production engineering, and environmental areas. He helps to coordinate the Department's environmental research. Current programs include produced water desalination, carbon sequestration in low grade coal deposits in Texas, capture of greenhouse gases from petroleum storage and transportation facilities, and use of multiphase pumping and metering in oil field applications to reduce oil and gas separator facilities.

**Neil Callahan**

[NCallahan@rwbeck.com](mailto:NCallahan@rwbeck.com)

Neil Callahan is a Principal in the Water & Waste Resource practice of R.W. Beck. He is the Director of the National Owner's Advisory Services practice, which specializes in assisting municipal utilities and Authorities in the areas of Alternative Project Delivery, CIP Implementation, and RO desalination project development and implementation.

Mr. Callahan consulted to the Texas Water Development Board (board) to develop the selection criteria for the Board's request for proposals for seawater desalination demonstration projects in that state. Mr. Callahan consults for Tampa Bay Water on the remediation of Tampa Bay Seawater Desalination Project. Mr. Callahan has been an advisor to the San Diego County Water Authority on procurement methods, financial feasibility, and vendor negotiations for the 50 MGD Encina Seawater Desalination Project.

Mr. Callahan has been the project principal for the Feasibility Study for Siting of Seawater Demineralization facilities for the St. John's River Water Management District. Mr. Callahan was the project lead for the strategy and planning and for the development of the procurement for Tampa Bay Water's Gulf Coast Seawater Desal project.

**Ken Choffel, P.E.**

[kchoffel@hdrinc.com](mailto:kchoffel@hdrinc.com)

Ken Choffel has a B.S. in Civil Engineering from the University of Texas at Austin and is registered as a Professional Engineer. With extensive background in working with Texas entities with complex surface and groundwater systems, major clients have included San Antonio Water System, Dallas Water Utilities, the City of Corpus Christi, the Edwards Aquifer Authority, the Brazos River Authority, and the City of Abilene. He has served as Project Manager on more than 75 water resources projects throughout Texas, including the design of the first municipal, inland reverse osmosis water treatment plant in the State. He has successfully directed more than 25 water rights permit applications, many of which have included interbasin-transfer and systems operations issues. Mr. Choffel has extensive experience in presenting complicated water resource issues in public forums and has co-authored and presented numerous technical papers throughout his career. He has testified before Federal and State legislative committees regarding water resources and water rights issues.

**Brent Christian**

[Brent.Christian@twdb.state.tx.us](mailto:Brent.Christian@twdb.state.tx.us)

Brent Christian earned a Bachelor of Science degree in Geology from Trinity University in 1984. Mr. Christian worked as an exploration geologist for Sierra Exploration in San Antonio, TX from 1984 to 1989. Mr. Christian was a senior hydrogeologist with Handex of Maryland from 1989 to 1993 at which time he joined Applied Earth Sciences, Inc as a team leader. Mr. Christian has been with the Texas Water Development since 2000. Mr. Christian is a licensed Professional Geoscientist (License No. 476) in the State of Texas.

**Jonathan Dietrich, P.E.**

[jadietrich@REISSENV.com](mailto:jadietrich@REISSENV.com)

Jonathan Dietrich is a Principal for Reiss Environmental, Inc. in Tampa, FL. He has seventeen years of experience in the membrane industry ranging from detailed design through permitting, construction, and startup/commissioning of water facilities and treatment systems in North America and abroad, representing original equipment manufacturers, consultants, and the owner. He has extensive experience with four major seawater desalination projects built and/or in the permitting/planning stages in the United States, including Tampa (FL), Huntington Beach (CA), San Diego (CA), and Freeport (TX), totaling over 125 MGD.

Mr. Dietrich holds a Bachelor of Science degree in Chemical Engineering from The University of Rhode Island. He is a registered Professional Engineer, and serves as President of the Board of Directors of the Southeast Desalting Association. He has over 50 presentations and publications in the field of desalination.

**Anatole Falagan, P.E.**

[bfalagan@mwdh2o.com](mailto:bfalagan@mwdh2o.com)

Anatole Falagan is the Assistant Manager for the Water Resources Management Group at The Metropolitan Water District of Southern California. The Water Resources Management Group oversees long-range water resources planning and program development for Metropolitan's service area as well as Metropolitan's Colorado River and State Water Project supplies.

Mr. Falagan received his Bachelor of Science Degree and Master of Science degree, both in Civil Engineering, from Stanford University. He received his Master of Business Administration degree from the University of California at Irvine. He is a registered professional engineer in the states of Texas and California, and his professional career during the past 21 years has focused on civil engineering design and water resources planning.

**James Douglas (Jim) Forte'**

[jforte@Brazos.org](mailto:jforte@Brazos.org)

Mr. Forte' is a Planning and Development Manager with the Brazos River Authority. Previously he held positions as Interim Chief Financial Officer and Business Development Manager. Prior to his joining the Brazos River Authority he was a Senior Vice President and Partner with GoverNet Solutions, LLP and Government Resource Associates, LLC  
Fort Worth, Texas.

Mr. Forte' holds a Master of Urban and Regional Planning and a Bachelor of Environmental Design degrees from Texas A&M University.

**Benny Freeman, Ph.D.**

[freeman@che.utexas.edu](mailto:freeman@che.utexas.edu)

Dr. Benny Freeman is the Matthew van Winkle Regents Professor of Chemical Engineering at The University of Texas at Austin. His research is in the field of small molecule transport in polymer-based materials. He has studied new materials for gas and liquid separation as well as barrier packaging. Mr. Freeman received a B.S. in Chemical Engineering from NC State University and a Ph.D. in Chemical Engineering from the University of California, Berkeley.

**Mark Graves**

[Mark.Graves@hdrinc.com](mailto:Mark.Graves@hdrinc.com)

Mark Graves is a Professional Engineer with HDR Engineering and has over eight years of experience in water distribution and treatment planning, design and costing including membrane treatment, desalination, and disinfection systems. He received a BS in Civil Engineering from Auburn University in 1995 and MS in Civil Engineering from the University of Texas at Austin in 1998. Desalination experience includes a primary author of the report, "Desalination for Texas Water Supply" prepared for the Nueces River Authority and Texas Water Development Board. This project included a comprehensive assessment of membrane technologies and their potential application in the state. The project also included siting assessments for a seawater desalination project on the Texas coast. While at HDR he has also developed desalination cost estimating procedures and data while working on a project for the US Environmental Protection Agency to produce updates to the "Manual of Cost Estimates for Selected Water Treatment Technologies" including membrane treatment (microfiltration, ultrafiltration, nanofiltration, and reverse osmosis), ozone, biologically active filtration, and GAC adsorption. He developed design criteria and cost curves to evaluate the capital and O&M costs associated with these technologies. Other desalination experience includes assistance in the development of a desalination water supply option for the Lavaca Regional Water Planning Group (Region P) that included evaluation of a seawater desalination plant on the Texas coast and pipelines for transmission to major demand centers near San Antonio, TX.

**Richard W. “Ric” Jensen**

[RWJensen@ag.tamu.edu](mailto:RWJensen@ag.tamu.edu)

Ric Jensen is an Assistant Research Scientist with the Texas Water Resources Institute. He earned a BA in Journalism from Brigham Young University and Master's and Doctoral degrees in Educational Administration from Texas A&M. Currently, Jensen works on special projects for the Texas Water Resources Institute, including the development of policy papers, applied research into public understanding of science, strategic planning, and fostering opportunities for water research among graduate students and faculty members in Texas. He has recently developed papers describing the Texas Water Summit, stakeholder perceptions about watershed restoration, and colonia issues along the Texas-Mexico border. Jensen worked with Allan Jones, the Director of TWRI, and Texas Water Development Board staff to develop the program for the 2003 desalination workshop.

**Allan Jones, Ph.D.**

[cajones@tamu.edu](mailto:cajones@tamu.edu)

Dr. Allan Jones serves as the Director for the Texas Water Resources Institute (TWRI) and holds a joint appointment as Assistant Vice Chancellor of Agriculture and Life Sciences and Associate Director, Texas Agricultural Experiment Station. He received a B.A. at the University of Texas at Austin and a Ph.D. in Botany (Plant Physiology) at Washington State University. Author and co-author of several books and numerous research publications, his research centered on crop physiology, agronomy, and cropping systems modeling. He has extensive international experience, and he has worked with EMBRAPA and the University of Wisconsin in Brazil, the International Center for Tropical Agriculture in Colombia, the Hawaiian Sugar Planters' Association, and USDA-ARS in Temple, Texas. From 1988 to 1996 he was Resident Director of Research at Blackland Research Center in Temple, Texas.

As Director of TWRI, Dr. Jones is responsible for fostering research, education, and service related to planning and management of Texas water resources. He works with faculty, state and federal agency personnel, and the private sector to improve the scientific basis for water resources planning and management.

**Sanjeev Kalaswad, Ph.D.**

[Sanjeev.Kalaswad@twdb.state.tx.us](mailto:Sanjeev.Kalaswad@twdb.state.tx.us)

Dr. Sanjeev Kalaswad works as a Geologist in the Texas Water Development Board's Groundwater Resources Division. He earned his BS and MS degrees in Geology from the University of Poona, India, a Masters with a specialization in Photogeology and Remote Sensing from Indiana State University, and a Ph.D. in Geology from the State University of New York at Binghamton. Prior to joining the TWDB, he worked for the Texas Commission on Environmental Quality, Austin, for three years, and with an environmental company in Upstate New York for six years. Sanjeev is a licensed Professional Geoscientist (License No. 478) in the State of Texas.

**Hari J. Krishna, Ph.D.**

[Hari.Krishna@twdb.state.tx.us](mailto:Hari.Krishna@twdb.state.tx.us)

Dr. Hari J. Krishna is a Senior Engineer at the Texas Water Development Board (TWDB) in Austin. His current responsibilities include Water Conservation, Water Reuse and the development of alternate sources of water supply for the State, such as Desalination and Rainwater Harvesting.

Prior to joining the TWDB in 2000, Dr. Krishna served as a Team Leader at TNRCC (currently known as TCEQ), the State environmental agency for seven years. He was previously the Director of the Water Resources Research Institute at the University of the Virgin Islands from 1988-93, where he gained considerable experience in seawater desalination and rainwater harvesting technologies.

Dr. Krishna received a Ph.D. degree in Engineering from Utah State University in 1979. He is a licensed Professional Engineer (P.E.), and a certified Professional Hydrologist (P.H.)

**Amanda Lavin**

[Amanda.Lavin@twdb.state.tx.us](mailto:Amanda.Lavin@twdb.state.tx.us)

Amanda Lavin serves the Texas Water Development Board (Board) as the External Customer Relations person for the Office of Project Finance and Construction Assistance.

Ms. Lavin has worked with the Board for the past five years, ensuring the development, implementation and fiscal responsibility of various Board financial programs in coordination with external stakeholders.

Prior to joining the Board, Ms. Lavin worked in the public finance community as a financial advisor for over 10 years.

**Boris, Liberman, Ph.D.**

[borrisl@ide.co.il](mailto:borrisl@ide.co.il)

Dr. Boris Liberman is head of Membrane Desalination Department, IDE Technologies Ltd., Israel. He received a BA and MS, Civil Engineering from the Institute Rostov-on-Don, USSR and PhD from the Institute for Scientific Research in Water Supply, Moscow, USSR. Dr. Liberman has 36 year experience in design, construction and operation of large municipal water treatment plants in the USSR. Leadership in design, commissioning and operation of reverse osmosis desalination plants in the last ten years, includes the 86 MGD, Seawater RO desalination project Ashkelon, Israel; 14 MDG, Seawater desalination RO plant in Larnaca, Cyprus, Open intake; the 2.6 MGD, seawater desalination RO plant Eilat, Israel; the 0.5 MGD, high purity water RO plant Sdom, Israel; and, the 1.6 MGD, brackish water RO plant, boiler feed water, Ashdod, Israel.

**Robert E. Mace, Ph.D.**

[Robert.Mace@twdb.state.tx.us](mailto:Robert.Mace@twdb.state.tx.us)

Dr. Robert E. Mace is at the Texas Water Development Board and is the director of the Groundwater Resources Division. He has a B.S. in geophysics and an M.S. in hydrology from the New Mexico Institute of Mining and Technology and a Ph.D. in hydrogeology from The University of Texas at Austin. He worked eight years as a staff hydrogeologist at the Bureau of Economic Geology before joining the Texas Water Development Board in the summer of 1999. Robert has been involved with a number of groundwater modeling and water resources studies and currently oversees efforts to collect and disseminate groundwater information on the state's aquifers, assist groundwater conservation districts, and develop groundwater availability models for the major and minor aquifers in Texas. His interests include numerical groundwater flow modeling, physical hydrogeology, and the intersection of policy and groundwater science.

**Susan Martella**

[SMARTELLA@do.usbr.gov](mailto:SMARTELLA@do.usbr.gov)

Susan Martella is a Civil Engineering Technician in the Bureau of Reclamation's Water Treatment Engineering and Research Group in Denver. Susan holds an Associate of Science Degree in Water Quality Management from Red Rocks Community College, is a member of Phi Theta Kappa - the International Honor Society of the Two-Year College, and was recognized in *Who's Who Among Students in American Junior Colleges*, 1999-2000. Susan is a certified water and wastewater treatment plant operator in the State of Colorado. She has over 32 years of engineering design experience with the Federal government.

**Mike Mickley, Ph.D.**

[mike@mickleyassoc.com](mailto:mike@mickleyassoc.com)

Dr. Mike Mickley has a Ph.D. in chemical engineering and over 37 years' experience in the field of membrane and process technology. Since the formation of Mickley & Associates in 1984, Dr. Mickley has provided consulting services for several utility, industrial and government clients.

Many of these efforts involved feasibility studies, contract research, and discharge permit support including expert witness testimony. Dr. Mickley has been active in the area of membrane concentrate disposal having authored two AwwaRF project reports: the 1993 report entitled Membrane Concentrate Disposal and the 2000 report entitled Major Ion Toxicity in Membrane Concentrate. In 2001 Dr. Mickley finished a two-year study for the Bureau of Reclamation project entitled Membrane Concentrate Disposal: Practices and Regulation. This report is available as report number 69 at <http://www.usbr.gov/pmts/acquisitions/AAMSSol.html>. A second edition of this report is being submitted for publication in August. Dr. Mickley is in the final stages of finishing a Bureau of Reclamation research project entitled 'Treatment of Concentrate' to explore the further treatment of membrane concentrate to facilitate its disposal. An outgrowth of this project has been study of various zero liquid discharge scenarios including the selective and sequential salt recovery from concentrates for market. He is currently providing consulting services to various utilities and engineering firms.

Additional information on Mickley & Associates may be found at [www.mickleyassoc.com](http://www.mickleyassoc.com).

**Bill Mullican**

[Bill.Mullican@twdb.state.tx.us](mailto:Bill.Mullican@twdb.state.tx.us)

Bill Mullican is Deputy Executive Administrator for the Office of Planning at the Texas Water Development Board.

He joined the Texas Water Development Board in 1997 as Director for Water Resources Planning with the primary responsibility for implementing Regional and State Water Planning as mandated by Senate Bill 1. He was also responsible for the Groundwater Availability Modeling (GAM) program, surface water modeling, water conservation, population and water demand projections, and the water use survey. As Deputy Executive Administrator for the Office of Planning, his responsibilities have expanded to include water data collection, environmental programs (including bays and estuaries studies and instream flow studies), and research and planning fund management.

Mr. Mullican, originally from Lubbock, Texas, graduated from Texas Tech University in 1978 with a B.S. in Broadfield Science Education and in 1981 with a M.S. in Geology. Prior to joining the Texas Water Development Board, Mr. Mullican was a Research Associate at the Bureau of Economic Geology at the University of Texas at Austin from 1983 to 1997. During this period, he conducted a wide range of hydrogeologic research on groundwater issues in Texas. Mr. Mullican is happily married to Tammy, his wife of 17 years and lives in Pflugerville Texas. His time in Pflugerville is primarily dedicated to his three daughters and son, and all the activities that come with parenting in today's world.

**Joseph W. Norris, P.E.**

[bnorris@nrseengineers.com](mailto:bnorris@nrseengineers.com)

Mr. Norris has over 26 years of experience in the water and wastewater industry in the planning, design, and project management of municipal and industrial facilities. Mr. Norris initial professional experience was with the City of Dallas for 6 years and Assistant Manager for the 150 MGD Central Wastewater Treatment Plant in charge of a \$20 million improvement project. The remaining 20 years have been as principal of Kindle, Stone and Associates and currently Principal and President of the NRS Consulting Engineers.

Since starting NRS Consulting Engineers in 1988, the firm has grown from 2 offices to 7 offices in Texas, Oklahoma, and Arkansas. Mr. Norris has been responsible for the implementation of many important water supply projects and has shown an innovative approach to water planning and implementation. Since 1985, Mr. Norris has been involved in research and planning for advanced treatment methods of potable and reclaimed water. He was the Project Engineer for the largest industrial reuse facility in the country that utilized wastewater converted to pure water for the Harlingen Fruit of the Loom operations. The \$11 million facility was completed in 1991.



In 1995 studies commissioned by the Texas Water Development Board were performed by Mr. Norris to look at the feasibility of using brackish groundwater and seawater to provide additional treated water supply to the south Texas region. That study spurred the first brackish groundwater treatment facility in South Texas for Rancho Viejo Texas in 1999. Now complete, is the Southmost Regional Water Authority 7.5 MGD desalination facility serving 5 entities. This \$22 million facility will provide over 40% of the treated water needs and supply to these entities in the region. Mr. Norris is the manager of the project and other similar projects underway. He also serves as the Regional Water Planning Groups engineer for planning water supply needs for the next 50 years along the Rio Grande.

**Tom Pankratz**

[tpankrat@CH2M.com](mailto:tpankrat@CH2M.com)

Tom Pankratz is a Vice President with CH2M Hill in Houston, Texas and has been involved in the water industry since the mid-1970s. He studied Environmental Engineering at the University of Houston and has written several books including “desalination.com”, “Dictionary of Environmental Engineering”, and the “Screening Equipment Handbook”. He is experienced in both thermal and membrane desalination technologies and during international assignments in the Middle East and Europe was involved in the development of some of the world’s largest and most technically advanced seawater desalination projects. He currently serves on the International Desalination Association's board of directors, the Middle East Desalination Research Center's research advisory council, the AWWA Desalting Committee, and the National Academy of Science's committee to review the Bureau of Reclamation's Desalination and Water Purification Roadmap.

**Rima Petrossian**

[Rima.Petrossian@twdb.state.tx.us](mailto:Rima.Petrossian@twdb.state.tx.us)

Rima Petrossian received a B.S. in Geology from the University of New Mexico and MS in Interdisciplinary Geology and Civil Engineering. Petrossian is a Texas Registered Geologist (467), Wyoming Certified Geologist (910), and a Certified Professional Geologist through American Institute of Professional Geologist’s. Currently Rima supervises the Groundwater Technical Assistance section in the Office of Planning at the Texas Water Development Board in Austin, Texas. She is responsible for groundwater management plan certification, supervising statewide groundwater technical assistance, and additional groundwater projects.

She has over 10 years of experience in environmental consulting. Her professional experience as a Project Manager and Hydrogeologist includes providing technical support for state and federal USEPA, CERCLA, and RCRA programs. Her experience includes monitor well installation, groundwater, surface water, and soils sampling, reporting, field health and safety, and data interpretation. She was a lab technician for a year analyzing samples using Gas Chromatography for Volatile Organic constituents.

**Robert Reiss**

[rrreiss@reissenv.com](mailto:rrreiss@reissenv.com)

Robert Reiss is President of Reiss Environmental, Inc. a consulting engineering firm specializing in advanced water treatment technologies. He has been involved in desalination for the past 15 years including treatment of groundwater, surface water, and seawater. Mr. Reiss is a member of the Board of Directors of the American Membrane Technology Association (AMTA), editor of the AMTA Newsletter, member of the American Water Works Association Membrane Processes Committee (1997-2003), member of the Southeast Desalting Association, and a member of the European Desalination Society. He has been involved in pilot studies throughout the United States including current or scheduled participation in six such projects in 2004. This includes two currently active pilot studies on seawater desalination. He has over 80 publications and presentations on desalination and filtration technologies.

**Alyson Sagle**

[allison@che.utexas.edu](mailto:allison@che.utexas.edu)

Alyson Sagle is currently pursuing her Ph.D. in Chemical Engineering at the University of Texas at Austin under the direction of Dr. Benny Freeman. She is concentrating on membranes for reverse osmosis and is investigating ways to improve them. She completed her undergraduate degree in May 2003 from Virginia Tech.

**Eugene A. Schiller**

[gene.schiller@swfwmd.state.fl.us](mailto:gene.schiller@swfwmd.state.fl.us)

Eugene A. Schiller received a Bachelor of Arts Degree from Bates College in Lewiston, Maine, Master's Degree in Business and Public Administration from the University of Hartford, Connecticut and is Florida Supreme Court Certified County Mediator (No. 08127C) and Court-Appointed Arbitrator

Since February 1992, Mr. Schiller has served as Deputy Executive Director of the Division of Management Services, Southwest Florida Water Management District, overseeing the management service activities of information systems, finance, human resources, general services and risk management functions of the Southwest Florida Water Management District, a \$259 million annual budget, 785-person special district responsible for the water management activities of a 16-county, 10,000-square-mile region with four million people in southwest Florida. There was no debt or staff increases required for 12 years; \$55 million of budget privatized/outsourced; \$1.3 billion leveraged water resource development projects. He has served as District project manager since 1996 for public/private seawater desalination project with Tampa Bay Water (\$85 million District funding) and First Financial Management Director of Sarasota County, Florida, in 1990. There, he participated in the privatization of federal grants management. As Director of Finance and Management Services for the Capital City of St. Paul, Minnesota, he headed the team awarded the 1989 GFOA International Award for Debt Management for the "Comprehensive Five-Year Overlapping Debt Management Strategy," as well as the Louisville Award for financial innovation. Public/private partnership steam energy project in 1985 was awarded AA+ Bond Rating. As first Budget and Management Director of the Department of Administrative Services for the State of Connecticut, he participated in privatizing the state's University Medical Teaching Hospital and first university business incubator research park in 1981-1985. As Town Manager of East Hampton, Connecticut, he participated in privatization of the first multi-town secondary sewage treatment system operations in state in 1978. Mr. Schiller has also served as City Manager of St. Alban, Vermont, in 1975 and the Village Manager of Saranac Lake, New York, in 1973; and, the First Community Development Action Plan Director, Windsor Locks, Connecticut, in 1970.

**Andy Shea**

[ashea@poseidon1.com](mailto:ashea@poseidon1.com)

Andrew L. Shea is Vice President of Project Development for Poseidon Resources Corporation. His responsibilities include development of large-scale seawater desalination and wastewater reclamation projects in California and Texas. He brings more than twenty years experience in business and project development of water and power infrastructure projects in North and South America. Prior to joining Poseidon Resources, Mr. Shea was the Regional Vice President of Business Development for United Water and was responsible for large municipal water services outsourcing. He holds a Bachelor's degree in Human Biology/Environmental Planning and a Master's degree in Civil Engineering/Infrastructure Planning & Management, both from Stanford University.

**James C. Smith**

[jsmith@archone.tamu.edu](mailto:jsmith@archone.tamu.edu)

James C. Smith, who has been a project development consultant in Houston, is the head of the Department of Construction Science in Texas A&M University's College of Architecture.

Smith received two degrees from Texas A&M, a Master's in 1970 and a doctor of engineering in 1976. Those degrees and a Bachelor's degree from Johns Hopkins University are all in civil engineering.

After serving in the U.S. Army Corps of Engineers from 1961 to 1974, Smith spent 10 years on the U.S. Senate Armed Services Committee. He then worked in the private sector, first with CRSS, Inc., and later with Brown & Root.

**Howard Steiman**

[HSteiman@rwbeck.com](mailto:HSteiman@rwbeck.com)

Howard Steiman is a Senior Consultant with R. W. Beck, Inc. whose headquarters are based in Seattle, Washington. He has been actively involved in the design, development, procurement, construction, start-up and operation of water and wastewater treatment projects since the early 1970's. Howard currently provides technical and program management consulting services for a number of desalination projects using reverse osmosis processes. These projects are either completed or are in various stages of development in California, Florida, and Massachusetts.

**John Tonner**

[jtonner@WaterCI.com](mailto:jtonner@WaterCI.com)

John Tonner is President and a Partner of Water Consultants International responsible for global business development. John holds an honors degree in Mechanical Engineering from the University of Paisley (Scotland) and has worked in the desalination industry since 1985 with experience in the design, manufacture and operation of membrane and thermal processes.

Although widely known for his work related to thermal processes such as MSF, MED and TVC, John has also extensive experience with membrane technology that includes patenting reverse osmosis energy recovery techniques.

John has published approximately 20 technical papers and spoken or lectured extensively in all aspects of desalination. John also developed and taught a desalination technology course in the 1980s. John is a co-author of "desalination.com" a book on the subject published by Lone Oak Publishing in 2003.

John has been a member of the International Desalination Association (IDA) since the late 1980s and served on the 1999-2001 Board of Directors also acting as the Chair of the

Publications Committee. For 2001-2003 and 2003-2005 John was requested by the Board to be an Officer of IDA. John is also a member of AMTA, AWWA, EDS, and WEF.

John's strengths include a solid technical basis of all commercially viable desalination processes with commercial experience from four continents and almost 50 countries. From previous positions in Project Management, Regional Sales and Marketing covering entire continents or hemispheres John has developed a detailed knowledge of the Desalination, Water Reclamation and Reuse markets.

**José Vergara**

[jvergara@mwdh2o.com](mailto:jvergara@mwdh2o.com)

Jose Vergara is a registered civil engineer working with the Water Resources Management Group at The Metropolitan Water District of Southern California. At Metropolitan he assists with matters relating to the development of local supplies, including the Local Resources Program and the Seawater Desalination Program.

Jose Vergara worked in the private sector for a civil engineering firm in Tustin, California before he came to work at Metropolitan as an Associate Engineer in 1992. His prior experience includes developing groundwater supply and military facilities abroad. Jose has a master's degree in civil engineering from Loyola Marymount University in Los Angeles, California, Bachelor of Science in civil engineering and master's degree in business administration from the University of Cartagena, Colombia, and a bachelor degree in Logistic from the Colombian Naval Academy.