

# FLORIDA AQUIFER CONFERENCE

Seventeenth year of this annual water management issues conference

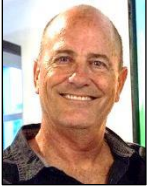
Florida 2017 ASR

Professional background of conference presenters

(Listed in alphabetical order)



## ~ David Adams, PG, Environmental Manager, Public Utilities, Hillsborough County, Tampa, FL



Mr. Adams has over 27 years of experience in the environmental field, and is a licensed Professional Geologist in the state of Florida. His project experience includes underground injection control (UIC), Superfund sites, solid waste facilities, well field management, contamination assessment and remediation of various types of facilities. His focus on geochemical data analysis has been instrumental in the success of several of these projects.

He is currently working as the County's technical lead for the UIC projects SHARP, SHARE and NHARP, which are designed to recharge reclaimed water into the Avon Park formation. To date, over 1.4 billion gallons of water have been recharged into the upper Floridan aquifer via the SHARP well, RW-1. He also provides technical support to the County's Solid Waste Division by managing all aspects of water quality monitoring and reporting for the active Class I landfill, two Superfund sites, 13 closed landfill sites, and two transfer stations. Prior to working for Hillsborough County, Mr. Adams worked for N.S. Nettles and Associates on the Eldridge-Wilde Well Field Project, and prior to that he worked for Pinellas County Utilities on the South Cross Bayou Injection Well Program.

## ~ Rep. Matt Caldwell, 79th District, Florida House of Representatives, Tallahassee, FL



Caldwell, a seventh generation Florida, is a 2004 graduate of Florida Gulf Coast University and earned his Bachelor's degree in History. He's also a 10-year associate with Maxwell, Hendry, & Simmons, LLC, a Fort Myers based real estate appraisal firm. Caldwell holds a Certified General appraisal license in Florida and is qualified as an expert witness in several state and federal jurisdictions. He was first elected to the Florida House of Representatives, 73rd District, in 2010, and was re-elected to the 79th District in 2012.

"The biggest challenge is to keep growing, 20 million people to 30 million people through our natural resources," Caldwell said. "Agriculture is the backbone of every economy, in most of the counties, that's where the jobs are, and you build a economy based on that."

## ~ Aaron Collier, PG, Vice-President and Hydrogeologist, Collier Consulting, Stephenville, TX



Aaron Collier is a professionally licensed hydrogeologist with 14 years of experience in all facets of groundwater management, planning, sourcing, and subsurface investigations. As one of the vice presidents of Collier Consulting, Mr. Collier's primary responsibilities are overseeing the daily operations of the organization and being the primary point of contact for many of the firm's geoscience and engineering projects. Representative projects have included local and regional hydrogeological investigations throughout Texas and Florida, groundwater modeling, borehole and surface geophysical investigations, water resource engineering, and environmental litigation. Mr. Collier also is the managerial lead for Collier Consulting's water asset management software product HYDROS, a custom built cloud-based Software. Mr. Collier was educated at Tarleton State University (B.S. Geology) and the University of Texas at San Antonio (M.S. Geology).

## ~ Chuck Drake, PG, Vice-president, TetraTech, Orlando, FL and Board Member, SJRWMD



Mr. Drake has 32 years of geologic and hydrogeologic experience including groundwater resource evaluations, design and analysis of aquifer performance tests; groundwater flow and solute transport simulations; the design of water supply wells (open hole and screened) and wellfields; and obtaining consumptive use permits for public supply wellfields, golf course irrigation and other uses. Using analytical and numerical methods, Mr. Drake has estimated travel time and direction of groundwater flow and contaminant transport. He is a licensed professional geologist in Florida (PG #37) and is an AIPG Certified Professional Geologist (# 11179) and has been qualified as an expert witness in geology, hydrogeology and water supply planning and water well construction in several administrative hearings and civil court proceedings. He was appointed by Governor Rick Scott to the Governing Board of the St. Johns River Water Management District in 2011 for a 4 year term and was recently reappointed. The SJRWMD sets water policy according to Chapter 373 Florida Statutes, for the 18 county area in the SJRWMD.

## ~ Donald Ellison, PG, Senior Professional Geologist, SWFWMD, Brooksville, FL



Mr. Ellison has managed ASR projects and research efforts for the Southwest Florida Water Management District (District) since 1993. Acting as liaison between the District and over 14 water suppliers/utilities he helped develop and establish District funding for over 50 ASR wells throughout the District. He is currently active in the development of ASR and recharge projects using direct surface water to assess the feasibility of cost effective projects to provide public supply, manage saltwater intrusion and mitigate drawdown impacts to surface water bodies. Over the last 24 years, his ASR management role at the District has giving him the privilege to work, learn and participate in problem solving with many of the industries foremost experts

Don continues to work closely with Florida Department of Environmental Protection's Underground Injection Control work group to ensure beneficial projects for the public are developed. Prior to the District he worked in the Northeast on Superfund site assessment and remediation projects. Mr. Ellison received his B.S. in Geology from the University of Cincinnati and his M.A. in Geology from Boston University.

**~ Christianne Ferraro, PE, Environmental Administrator, Florida DEP Central District, Orlando, FL**



Christianne is an Environmental Administrator in the Central District Office of the Florida DEP. She is the District lead in helping to develop and implement the Division of Environmental Assessment and Restoration (DEAR) Basin Management Action Plans (BMAPs) for impaired waters, as pertains to wastewater treatment facilities and treatment to reduce nutrients in wastewater.

She has been with FDEP since 1989, working first as a Professional Engineer reviewing domestic and industrial wastewater permitting projects, then in 1995 becoming the FDEP Central District Water Facilities Program Administrator. She has served on numerous technical advisory committees and has been a leader in all aspects of reuse of reclaimed water. She served as a member of the Board of Directors for WaterReuse Florida. She served as Chairperson of the Florida Water Environment Association's Water Reuse Committee, from 1999 through 2010. Prior to joining FDEP she worked as a consulting engineer (1982-1989) with CPH - Engineers in Sanford, Florida. She received her Professional Engineer license in 1986 and has an M.S. in Environmental Engineering and Science from the University of Central Florida in Orlando.

**~ Jim Gross, PG, Executive Director, Florida Defenders of the Environment, Gainesville, FL**



Jim Gross is a professional geologist with 38 years of experience in water resources. He is a native of California and earned his bachelor's degree in geology at the University of California at Santa Barbara. Jim worked in geothermal energy exploration and development early in his career, then returned to graduate school to earn a master's in geology at New Mexico State University. Jim has more than 20 years of experience in long-term regional water supply planning, including 18 years in Florida. Jim is a licensed professional geologist in California and Florida, and is certified as a Professional Geologist by the American Institute of Professional Geologists. As Florida Defenders executive director, Gross oversees the appeal of the St. Johns River Water Management District final order granting Sleepy Creek, LLC a consumptive use permit withdraw water for its massive grass fed beef operation in Marion County, just miles from Silver Springs.

**~ Joe Haberfeld, PG, Environmental Administrator, UIC Program, Florida DEP, Tallahassee, FL**



Mr. Haberfeld is a Hydrogeologist and Professional Geologist at the Florida Department of Environmental Protection (DEP) in Tallahassee, Florida. He is the Environmental Administrator for the State of Florida's Aquifer Protection Program, which is responsible for implementation of the Underground Injection Control regulations. He has worked all aspects of utilizing deep injection wells for wastewater disposal and aquifer storage and recovery in Florida, including hydrogeologic evaluation, well construction methods, ground water monitoring, permitting, and compliance. Particular interests include the hydrostratigraphy of the Floridan aquifer and the use of geophysical logs in injection well evaluation.

Prior to joining DEP, he worked for 9 years as a petroleum geologist for Gulf Oil and Chevron in the Gulf Coast and Permian Basin in the areas of development, exploration and enhanced oil recovery. He was educated at the State University of New York at Fredonia (B.S. Geology, 1975) and Southern Illinois University (M.S. Geology, 1977).

**~ Gregg Jones, Ph.D., Technical Director of Water Resources/ VP, Cardno, Riverview, FL**



Dr. Gregg Jones has over 30 years of experience in a diverse set of water resource disciplines including hydrogeology, hydrology, water quality, geochemistry, and water supply planning. He is a recognized expert on the geology of karst regions and the flow, water quality, and protection of Florida's world-famous springs. He has extensive experience providing permitting support for large-scale infrastructure projects in areas of unstable karst geology. Dr. Jones has worked in many different areas of the U.S. and this experience has provided him with a broad perspective on regional water resource management challenges and how these challenges are being met. Gregg has M.S. and PhD degrees from the University of South Florida.

**~ David Kelly, PG, Senior Consultant, Cardno, Riverview, FL**



Mr. Kelly is a senior project manager with 20-years' experience. His expertise includes water supply planning, hydrogeologic investigations, water use permitting, and aquifer storage and recovery (ASR) cycle testing. Mr. Kelly has performed numerous hydrogeologic investigations and groundwater modeling evaluations. He has experience in the development of production well networks, test boring and well construction oversight, review and analysis of lithological and geophysical logs, and aquifer performance test oversight.

Mr. Kelly has a BS in geoscience from NY State University, Buffalo.

**~ Jennifer Leeds, Restoration Planning & Coordination Unit Section Administrator, South Florida Water Management District, West Palm Beach, FL**



Jennifer is the Section Administrator with the SFWMD Everglades Policy and Coordination Division and is responsible for Everglades Restoration Program management with State of Florida and Federal Agencies to resolve policy and technical issues on high profile ecosystem restoration projects, federal legislative needs and the program delivery process for complex high priority ecosystem restoration projects. She is responsible for leading a diverse and experienced project management team managing highly complex ecosystem Everglades restoration projects. She provides direction and guidance and coordinates the programmatic work effort across multiple resource groups and integrates cross-functional teams to change corporate culture and define common vision of success to drive change targeted at strategic planning and growth.

Jennifer has an MS in Environmental Science and is a Certified Project Management Professional. She is a recognized authority for the District's high-profile, regional-scale \$880 million dollar Restoration Strategies Everglades water quality program.

**~ Mark McNeal, CEO, ASRus, LLC, Tampa, FL**



Mark McNeal holds a B.S. degree in Engineering Geology from Brigham Young University. In 2006, he founded ASRus, where he has served as Chief Executive Officer for the past ten years. Before founding ASRus, he worked for CH2M HILL for 21 years and served as Groundwater Practice Leader and Reuse Practice Leader for the Southeast Region. His project experience includes project management and senior review of aquifer storage recovery (ASR), reclaimed water, water supply planning, and deep injection well projects. He has played an active role in the development of Florida's rules related to water reuse (including the ASR provisions), underground injection control, wellhead protection, and concentrate disposal.

Mr. McNeal has been actively involved in numerous ASR projects, including storage of fully treated, partially treated, and untreated surface water, as well as reclaimed water. He assisted with design and permitting services for an injection well in Polk County, Florida to pilot test carbon capture and sequestration in a Class V Experimental Injection Well completed to 8,000 feet in depth, and oversaw construction of a 2,944-foot ASR well in northwest Polk County, believed to be the deepest ASR well worldwide.

**~ June Mirecki, Ph.D., PG, Senior Hydrogeologist, US Army Corps of Engineers, Jacksonville, FL**



June Mirecki, is a senior hydrogeologist with the US Army Corps of Engineers-Jacksonville District. She is a registered Professional Geologist in Florida, and earned a Ph.D. in geology/geochemistry from the University of Delaware. She serves as the USACE technical lead for the ASR pilot projects and the ASR Regional Study, two Comprehensive Everglades Restoration projects to increase water storage in south Florida. She is an associate editor for two international scientific journals, and works on geochemical modeling and groundwater quality projects as a consultant (Mirecki Geoscience, LLC).

**~ Greg Munson, Attorney, Shareholder, Gunster Law Firm, Tallahassee, FL**



Gregory Munson, attorney, obtained his JD degree from Vanderbilt University School of Law. He is a shareholder who joined Gunster in 2013. He has twice held senior positions at the Florida Department of Environmental Protection (FDEP). He served as general counsel from 2004 to 2006, and most recently as the deputy secretary for water policy and ecosystem restoration. In his capacity as deputy secretary, Gregory supervised the Department's activities related to Everglades restoration, the state's water management districts, and the state's coastal and aquatic areas. In between his work at FDEP, he worked as general counsel for WRS compass, a company providing environmental remediation, civil construction and consulting services to commercial, federal and state clients. Gregory now provides strategic advice and counsel on issues related to water policy, water rights and the Everglades.

**~ Eric Olsen, Attorney, Shareholder, Hopping Green & Sams, Tallahassee, FL**



Eric T. Olsen is an attorney with Hopping Green & Sams. He is licensed by the Florida Bar and a member of the American Bar Association. Eric has been practicing for over 20 years in the areas of water supply, underground injection control, and wetlands regulation. He has spoken at numerous professional conferences and published professional articles on these subjects. He assists local government water utilities, electric power generation entities, manufacturers, agriculture and other industries in obtaining governmental authorizations to withdraw and use water and to plan for long term water supplies, including alternative water supplies. He has also assisted these entities in obtaining Underground Injection Control permits and defending those permits from third party challenges in litigation. He received his undergraduate degree from Clemson University and his law degree from the University of Florida College of Law.

**~ Seung Park, PE, Chief Engineer, City of Tampa Water Department, Tampa, FL**



Seung graduated in 1997 with a Bachelor of Science Degree in Environmental Engineering from the University of Central Florida and obtained a Master of Science Degree in Engineering with focus in Environmental and Water Resources Engineering from The University of Texas at Austin in 1999.

Upon graduation, Seung started her engineering career working for an engineering consulting firm, CDM Smith, in Tampa as a project engineer. She managed public utilities and public works projects for municipal clients in Florida. Seung spent seven years working at CDM Smith before joining the Water Department as the Chief Planning Engineer in December 2006.

As the Chief Planning Engineer, Seung managed the Planning Section of the Tampa Water Department Engineering Division. She oversaw development service reviews performed for water service commitments, developed and prioritized pipeline Capital Improvement Program projects.

In August 2014, Seung became the Chief Engineer for the Water Department, her current role. She manages the Water Department's Engineering Division and administers the Department's Capital Improvement Program. Seung is a registered Professional Engineer in Florida.

**~ David Pyne, PE, President, ASR Systems, Gainesville, FL**



David Pyne is a professional engineer who has pioneered development of the ASR technology for storage of water through wells in fresh, brackish, or seawater aquifers to meet seasonal, long-term, or emergency demands and to achieve sustainable water supplies through underground storage in confined and unconfined aquifers. He has directed or provided technical consultant assistance during development of about half of the 100 operating ASR wellfields in the United States. He is a civil engineer with extensive national and international experience, and is the author of the first book published on ASR.



**~ Gary ReVoir, Vice President, Tetra Tech, Inc.**



Mr. Gary ReVoir has 29 year of extensive experience in the water, wastewater and reuse industry. His experience encompasses a full range of wastewater collection, transmission, treatment and effluent disposal planning. Gary's experience also includes funding, permitting, final design, construction administration, start-up, and project management with emphasis on advanced wastewater treatment processes. He has extensive experience in the development of evaluation of wastewater treatment options including biological nutrient removal (BNR), membrane bioreactor(MBR), modified Ludzack-Ettinger (MLE) and various other methods. Receiving his masters in Environmental Engineering from the University of Central Florida, Mr. Gary's depth of experience is focused in Florida.

**~ Jennifer Roque, Environmental Project Engineer, Tetra Tech, Inc.**



Jennifer Roque is a project engineer at Tetra Tech and assists in the planning, design, and construction administration of water treatment plants, mainly using membrane technologies. Jennifer has been with Tetra Tech for 5 years and has worked on projects involving wastewater conveyance and treatment, as well as potable reuse treatment, including first hand operational experience and troubleshooting of potable reuse pilot and demonstration systems. She holds Bachelors and Masters of Science in Environmental Engineering from the University of Central Florida.

**~ Ann Shortelle, Ph.D., Executive Director, St. Johns River Water Management District**



Dr. Ann Shortelle is executive director of the St. Johns River Water Management District, where she began work June 1, 2015. She has more than 25 years of professional experience in lake, riverine and reservoir management for water quantity and quality, which includes surface water/wetlands restoration, surface water modeling, permitting and environmental assessments. Her prior positions include three years as executive director for the Suwannee River Water Management District, director of the Office of Water Policy for the Florida Department of Environmental Protection, and work as a consultant in the private sector. She holds a doctorate degree in limnology from the University of Notre Dame and a bachelor of science degree in biology from Mercer University. She has authored/co-authored more than 40 publications and presentations on environmental topics.

**~ Andrew Stone, Executive Director, American Ground Water Trust, Concord, NH**



Andrew Stone has a BSc Honors (Birkbeck College, London) and an MSc in hydrogeology from University College London. Between 1974 and 1989 he was a lecturer and groundwater researcher at Rhodes University, South Africa. Since 1989 he has worked in the United States as a private-sector groundwater consultant, as adjunct professor teaching groundwater protection policy in the MS Degree program at Antioch New England University and as groundwater educator, advocate and outreach specialist for the non-profit AGWT. He is a recipient of the National Ground Water Association "Oliver Award" in for his work in promoting groundwater education.

In his time with the American Ground Water Trust he has convened and organized over 250 conferences, workshops and training programs on groundwater issues throughout the US.

**~ Kevin Vought, PE, Groundwater Modeling Engineer, Southwest Florida Water Management District**



Kevin is a Professional Engineer with 15 years of experience in water resources, environmental site assessment, and hydrogeology and expertise in project management, modeling, data interpretation and processing, report preparation and client management. Recognized for extraordinary contributions throughout career and promoted into progressively responsible roles; recipient of 2007 Southeast Region Quality Award from CDM. He has an outstanding record of fulfilling client objectives and developing new business; noted for excellent communication skills and ability to convey technical information at appropriate audience level

Specialties: Groundwater Modeling • Fate & Transport Modeling • Stormwater Modeling • Geological Mapping and Visualizations • Surface Water Assessments • Project Management • Technical Reports / Presentations • Collaborative Relations • Site Assessment • Data Analysis • Problem Solving • MODFLOW • MT3DMS • SEAWAT • MODPATH • GoldSim • FEFLOW • ICPR • HSPF/ IHM • EarthVision • EVS/MVS • Surfer • Didger • ArcMap • Groundwater Vistas.

Kevin has an MS in Civil Engineering and an MS in Nuclear Engineering from Ohio State University.

**~ Mike Weatherby, PG, CEO, HydroGeo Consulting LLC, Tampa, FL**



Mike has 24 years of technical and management experience and is a licensed Professional Geologist in FL and GA. He has a MS in hydrogeology from Ohio University. He has conducted and managed high profile projects involving design, permitting and construction of projects involving water supply, well-fields, ASR well-fields, aquifer recharge, deep well disposal, groundwater and surface water resource evaluations, groundwater modeling (flow and solute transport density dependent), recovery strategy evaluations, both domestically and internationally, (Palestine, Bolivia, Panama, and the Dominican Republic).

He is currently the Project Manager and Project Technical Expert for the construction of the deepest injection wells in the state of Florida. At 8,000 feet deep, this high profile project consists of the deepest disposal wells in the state and is the first to evaluate the Upper Cretaceous formations below the anhydrite layer in the middle Cedar Keys formation. Prior to establishing HydroGeo Consulting LLC, Mike worked as the Water Resources Practice Lead for MWH and Project Manager and Water Business Practice Lead for CH2M Hill.

**~ Bruce Weinstein, Ph.D., Chemical Engineer, KLJ**



Bruce has over 40 years of experience on developing, designing and managing projects for water and wastewater treatment, environmental remediation, and air pollution control. He has a BS and MS in Chemical Engineering from the Polytechnic Institute of Brooklyn, and a PhD in Chemical Engineering from New York University. He is a licensed professional engineer in New Jersey and Florida. Before joining KLJ he was the Utility Engineer for 10 years at Marco Island Utilities (MIU). Projects completed included the \$45 million upgrade/expansion of the Reclaimed Water Production Facility, expansion and upgrade to the Aquifer Storage and Recovery System, process improvements and permitting. Prior to joining MIU he was a client officer and technical specialist for Camp Dresser and McKee (CDM) where he managed environmental remediation projects for private clients and for Environmental Protection Agency Superfund Sites. Before joining CDM he was a process specialist and technical project manager at Research Cottrell for the design and commercialization of electric utility air pollution control systems.

**~ Bart Weiss, Director, Utilities Support Division, Hillsborough County Public Utilities Department**



T. Barton (Bart) Weiss is the Division Director of the Water Resource Team of Hillsborough County Water Resource Services. A registered professional geologist with the state of Florida, he has more than 16 years of experience in the water resource industry. He is an active member of Leadership Tampa Bay. His leadership at the County has not only been recognized internally but also externally by the State for his contributions toward protecting and improving the water resources of the Hillsborough River Basin. Prior to joining the County Bart worked at the Southwest Florida Water Management District as a senior project manager where he was involved in policy development, rulemaking, and project management including development of the Northern Tampa Bay Partnership Agreement, the Southwest Florida Water Management District's Minimum Flows and Levels Rules, Florida Department of Environmental Protection's Demineralization Discharge Rules. Bart has a BS in Geology from Texas A & M and an MBA from Saint Leo University.