Florida Groundwater Conference – September 28 & 29, 2021

Professional background of presenters (in alphabetical order)

Tim Bahr, PG, Director, Division of Waste Management, Florida Dept. of Environmental Protection, Tallahassee, FL

Tim has been with FDEP since 1987 after working for EPA Region V in the underground injection control program. With over 34 years with FDEP, Tim has worked in almost all facets of the Division of Waste Management's programs. His career began with FDEP as an environmental specialist in the Petroleum Cleanup program. He was promoted to environmental administrator of the Hazardous Waste (RCRA) program and for eleven years, he supervised, managed and provided guidance for the statewide RCRA permitting, compliance and cleanup program. Later he served as Program Administrator for the Permitting and Compliance Assistance Program, administering all aspects of permitting, compliance and enforcement processes for solid and hazardous waste and storage tanks system programs. Tim worked as Assistant Director for the Division of Waste Management, which provides oversight of solid and hazardous waste and petroleum storage system prevention programs and all remediation programs. Two years later, he began serving as Director. Tim earned his B.S. degree in Geology at Fort Hays State University in Kansas, his M.S. degree in Geology at University of Akron in Ohio, and is a licensed PG in Florida.

Newton Cook, President, United Waterfowlers Florida, Plantation, FL

Newton is President of United Waterfowlers Florida, an advocacy group for conservation and restoration of wetlands and public access. He is a facilitator of SFWMD Recreation Group, covering public recreation on 600,000 acres of public land from Orlando to Tamiami Trail. Before retiring, he previously worked in International Sales and Marketing. Newton is a member of FWC Deer Management Technical Advisory Group, member of FWC Wildlife Management Areas Quota Permits Review Committee and serves on the Board of Directors Future of Hunting in Florida. He graduated with a degree in Chemistry from the University of Memphis.

AnnieLu DeWitt, Remediation Technologies, Clean Harbors, South Portland, ME

AnnieLu is the National Technical and Sales Lead for the Emerging Contaminant and Water Treatment Program for the Clean Harbors Environmental Services group. She brings her 25 years of experience in the environmental laboratory and remediation fields to assist clients in interpreting their analytical results to evaluate their options for treatment utilizing varied medias and pre-treatment equipment to achieve project objectives. Having worked as a GC/MS and also most recently as a LC-MS/MS chemist for PFAS compounds she believes in the importance of evaluating the project as a whole, from suggesting the most valuable testing methods at the beginning of the project that help determine the best treatment trains and medias for complex waste streams to informing clients on their options for final deposition of their spent media. AnnieLu holds a BS in Chemistry-Geology from Bridgewater State University.

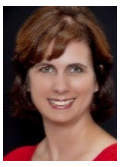
Charles Drake, PG, CPG, Vice-President, RSI Division, Tetra Tech, Inc., Orlando, FL

Mr. Drake has over 35 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 and an AIPG Certified Professional Geologist 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 and served for 2 terms. The SJRWMD sets water policy according to Chapter 373 Florida Statutes, for the 18-county area in the SJRWMD.

Dustin Dykes, PE, Project Manager, Jacobs Engineering Group Inc., Jacksonville, FL

Dustin Dykes holds a Bachelor of Science in Civil Engineering from the University of North Florida. As a Florida licensed PE, Dustin has managed a variety of different projects specializing in project management and delivery, public water supply development, site, stormwater, and water and wastewater system design. Dustin's experience includes project management and civil design for rehabilitation of wells and well sites, analysis of well investigation activities, wellhead rehabilitation and construction, well modification permitting, design, implementation, permitting, new well siting, design, and construction. Additionally, he has worked on master planning, water treatment plants, water distribution systems, fire flow modeling assessments, and hypothetical scenario analysis. He also offers experience working with engineers, developers and utility providers during design and review for residential and commercial developments. Overall, Dustin has an extensive understanding of North Florida's water systems and infrastructure.

Laura Jacobs Donaldson, JD, Shareholder, Manson Bolves Donaldson Varn, PA, Tampa, FL



Laura Donaldson has represented clients before legislative and executive branches of government, agencies, Cabinet and gubernatorial commissions on growth management, environmental and local government issues. Laura has also been general counsel for local governments and special districts providing guidance related to government, environmental and land use issues. She has negotiated and drafted complex and technical interlocal agreements, contracts and other transaction documents. She also provided advice on water and environmental permitting issues. Laura was the youngest and first female General Counsel for the Southwest Florida Water Management District, where she served for three years. In her role as General Counsel, she provided legal advice and counsel to the District's Governing Board, the Executive Director and staff regarding the interpretation and applicability of laws, regulations and judicial decisions or rulings from federal, state and administrative branches, courts or agencies affecting the District. She also reviewed District contracts and analyzed and drafted legislation. Laura received her J.D. and B.S. from Florida State University.

Jason Engle, PE, Chief of the Water Resources Engineering Branch, Jacksonville District, U.S. Army Corps of Engineers, Jacksonville, FL

The Water Resources Engineering Branch consists of a diverse staff of engineers and scientists who perform a wide variety of hydraulic, hydrodynamic, water management and coastal engineering analyses that support the design, construction and operation of Federal civil works projects that provide coastal storm risk management, inland flood risk management, ecosystem restoration and navigation benefits. This work is performed over a region that includes Florida, Puerto Rico and the U.S. Virgin Islands. Mr. Engle has a Bachelor of Science in Civil Engineering and a Master of Science in Coastal and Oceanographic Engineering, both from University of Florida, and is a Registered Professional Engineer in the state of Florida.

John Jansen, PhD, PG, PGp, Senior Geophysicist and Hydrogeologist, Collier Consulting, West Bend, WI

John has a B.S. in Geology and a M.S. and Ph.D. in Geological Sciences with an emphasis in hydrogeology and geophysics, all from the University of Wisconsin-Milwaukee. He is a Senior Geophysicist and Hydrogeologist for Collier Consulting. John works on a wide variety of ground water projects around the country specializing in high-capacity wells and groundwater resource management. He received the NGWA Keith A Anderson Award in 2012 for service to NGWA and the groundwater industry and was the NGWA McEllhiney Distinguished Lecturer in Water Well Technology in 2013. John was an invited lecturer on managed aquifer recharge and groundwater geophysics for the Geoscience University of China in Beijing in June of 2018.

Paul Julian, PhD, Hydrologic Modeler, Sanibel Captiva Conservation Foundation, Sanibel, FL

Paul has worked on water-related research in Southwest Florida for more than 15 years As hydrologic modeler for SCCF and the Conservancy of Southwest Florida, he uses mechanistic and empirical models to synthesize environmental data and evaluate the effects of Everglades Restoration projects, Army Corps of Engineers water management operations, impacts of regional and local development, sea-level rise, and other drivers on the hydrologic, water quality, and ecological integrity of Southwest Florida's watersheds, including but not limited to the Caloosahatchee and Lake Okeechobee. One of his projects focused on the development of U.S. Army Corps of Engineers (USACE) Lake Okeechobee System Operating Manual (LOSOM). Future projects will include C-43 West basin Reservoir and WQ treatment component, Picayune Strand Restoration Project, Total Maximum Daily Loads, and Basin Management Action Plans. Before joining SCCF, Paul worked as the Everglades Technical Lead for the Florida Department of Environment Protection for 10 years. He performed water quality compliance calculations, supported federal and state restoration planning efforts, developed water quality nutrient models and mining and analyzed of environmental data. Paul earned his B.S. in Biochemistry from Benedictine College, M.S. in Environmental Science from Florida Gulf Coast University, and Ph.D. in Soil and Water Science from the University of Florida.

Dawn Lei, PhD, Water Quality Assurance Officer, City of Tampa, Tampa, FL

Dawn has worked as the Water Quality Assurance Officer for the City of Tampa for over eleven years. Her primary responsibilities are overseeing a state certified analytical lab, distribution field quality crew and research for the smooth operation of the water treatment plant. She directs research and water quality activities including planning, scheduling and budgeting to comply with federal and state drinking water regulations and Water Department standards. Dawn also acts as liaison with external agencies including EPA, FDEP, Hillsborough County Environmental Protection Commission (HCEPC) and the Hillsborough County Department of Health (HCDOH) regarding public health concerns related to drinking water. Prior to working for the City of Tampa, she was employed at the Golden State Water Company as a Water Quality Engineer for three years. She earned her PhD in Environmental Engineering from the University of Illinois at Urbana-Champaign.

Robert Maliva, PhD, PG, Principal Hydrogeologist, WSP Parsons Brinckerhoff, Fort Myers, FL

Dr. Maliva has been a consulting hydrogeologist since 1992 and is currently a Principal Hydrogeologist with WSP Parsons Brinckerhoff. He has a Ph.D. from Harvard University and has held research positions in the Department of Earth Sciences at the University of Cambridge, England and the Rosenstiel School of Marine and Atmospheric Science of the University of Miami, Florida. Dr. Maliva specializes in alternative water supply projects including managed aquifer recharge and desalination. He is registered Professional geologist in Florida and Texas. Dr. Maliva has managed or taken the technical lead on numerous water resources and hydrologic investigations including contamination assessments, environmental site assessments, water supply investigations, wellfield designs, and aquifer storage and recovery (ASR) projects. He has designed raw water supply wellfields for brackish water desalination systems, alternative intakes for seawater desalination systems and injection well systems for concentrate disposal. He is the senior author of three books, "*Aquifer Storage and Recovery and Managed Aquifer Recharge Using Wells: Planning, Hydrogeology, Design, and Operation"* (2010), *"Arid Lands Water Evaluation and Management"* (2012) and "Aquifer Characterization Techniques" (2016).

Mark McNeal, PG, 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.

Kristina D. (Crabtree) Mena PhD, Dean of the El Paso Campus of University of Texas Houston School of Public Health (UTHealth), and Associate Professor and Program Head of Environmental and Occupational Health Sciences, El Paso, TX

Dr. Mena earned a Bachelor of Arts in Biology and English at Franklin College (Indiana), a Master of Science in Public Health at the University of South Florida, a Doctor of Philosophy in environmental microbiology and epidemiology at The University of Arizona. She has 30 years of experience addressing the relationship between humans and the environment. Her work in quantitative risk assessment evaluates adverse impacts to develop mitigation strategies that promote human and environmental health. Dr. Mena completed two terms on both the United States Environmental Protection Agency Chartered Science Advisory Board and the USEPA Drinking Water Committee. She has also served as an Expert Panelist for the National Water Research Institute regarding water reuse practices. She is Chair of the El Paso Public Service Board that manages El Paso Water and serves as Compliance Chair and Secretary on the University Medical Center of El Paso Board of Managers.

Don McCormick, Member of Charlotte County Zoning Commission, Charlotte Beaches & Shores Advisory Committee and Chairman, Southwest Florida Regional Planning Council, Punta Gorda, FL

Don McCormick was appointed by Governor Rick Scott in 2013 to serve on the Southwest Florida Regional Planning Council to represent Charlotte County. The Council serves as a bridge between state and local governments on planning and growth issues. Don also serves on the Charlotte County Zoning Commission as the representative of District II. As a member, his primary purpose is the advise and inform the Board of County Commissioners and the general public in all matters relating to zoning, planning and future development. As a member of the Charlotte Beaches and Shores Advisory Committee, his responsibilities include encouraging and developing public and governmental awareness of the need for preservation of the beaches and shores of Charlotte County. Prior to serving on the Southwest Florida Regional Planning Council, he was employed as a Marketing Consultant for Bristol Associates.

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. June served 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 has worked on ASR and managed aquifer recharge sites in South Carolina, Texas, and Mississippi. She is an associate editor for the journal *Groundwater*, and works on geochemical modeling and groundwater quality projects as a consultant (Mirecki Geoscience, LLC).

Nancy Mortvedt, Director of Client Engagement, SL Environmental Law Group, PC, Denver, CO

Nancy Mortvedt is the Director of Client Engagement for SL Environmental Law, drawing upon decades of experience collaborating with and advising senior leaders in water and other sectors to help them succeed in their established business objectives. SL Environmental Law Group assists water suppliers that face increased costs due to the contamination of their drinking water supplies by chemicals from commercial products. Prior to joining SL Environmental, Nancy spent 13 years leading business development and client relationships with the American Water Works Association. There, she forged strong affiliations with water utilities, manufacturers and partners throughout the United States, Europe and Israel. Prior to that, she led business development and marketing efforts in the manufacturing, technical, business-to-business and fundraising industries. Nancy earned her Bachelor of Science Degrees in Marketing and Advertising from Ferris State University, Michigan.

Renee R. Murch, PE, Senior Engineer-Tampa Operations Manager, INTERA Inc., Lutz, FL

Renee has worked for INTERA Incorporated for over 13 years. Her initial work as a Senior Engineer focused on surface water modeling She now works on projects involving statistical analysis of hydrologic data, groundwater modeling, and integrated (surface water - groundwater) modeling. Previously, she was employed by the Florida Department of Transportation (FDOT) as a Professional Engineer Trainee in the State Materials Office in Gainesville, Florida for three years. Renee received her Bachelor's degree in Civil Engineering and a Master's degree in Civil Engineering – Water Resources from the University of South Florida.

Eric T. Olsen, JD, Shareholder, Gunster, Tallahassee, FL

Eric assists clients in and outside of Florida on issues related to environmental regulation. He has been practicing in this area for over 25 years and primarily focuses on wetland regulation, mitigation banking, stormwater regulation, consumptive use or water use permitting, water supply, and underground injection control. Eric started as an in-house attorney with the St. Johns River Water Management District, where he worked with other water management districts to develop the Environmental Resource Permitting program, statutes and rules governing wetland mitigation banks, and rules and policies affecting water supply and water use. He also worked on evaluating permit applications and resolving enforcement issues – gaining key understanding of how agency staff evaluate regulatory issues. Eric represents industry associations and regulated entities before the Florida Legislature and federal and state regulatory agencies, with the goal of keeping laws and rules reasonable and obtaining permits and other authorizations in a timely, cost-efficient manner. He aspires to develop innovative approaches to regulatory problems that satisfy client needs while meeting mandatory agency requirements. Eric graduated from University of Florida College of Law, J.D., with honors and received his Bachelor Degree from Clemson University.

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

Seung graduated 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. Upon graduation, Seung started her engineering career working for the 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 this role, 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 2014, Seung became the Chief Engineer for the Water Department. Her primary responsibilities include managing the Water Department's Engineering Division and administering the Department's Capital Improvement Program. Seung is a registered Professional Engineer in Florida.

R. David G. Pyne, PE, President, ASR Systems LLC, 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
.

Blake Roberts, GIT, Staff Geologist, Jacobs Engineering Group Inc., Jacksonville, FL

Blake Roberts holds a Master's of Science degree in Hydrogeology from the University of Tennessee, Knoxville, TN and a Bachelor's of Science in Geology from Western Carolina University, Cullowhee, NC. As a Florida geologist in training, Blake has experience in field oversite and management of water supply well construction, modification, and acid rehabilitation; aquifer and well pump performance testing and data evaluation; new water well siting, planning, and permitting; gravity drainage well testing, cleaning, and data evaluation; and mechanical integrity testing and permitting of class 1 injection wells.

George A. Schlutermann, P.G., Senior Hydrogeologist, Water Resources Bureau, Southwest Florida Water Management District, Brooksville, FL

Mr. Schlutermann is a senior hydrogeologist with the Water Supply Section of the Water Resources Bureau of the Southwest Florida Water Management District. He is the project manager of three Lower Floridan aquifer exploratory well drilling projects in Polk County exploring the aquifer as an alternative water supply for the region. Also, he is the project manager of two regional water supply projects of the Polk Regional Water Cooperative, the West Polk 15 mgd wellfield and the Peace Creek surface water/aquifer recharge project. In his career of over 32 years, he has been involved in groundwater, water, and wastewater resource evaluation and development, alternative water supply evaluation and development, water treatment facility design and permitting, reuse system design and permitting, wastewater treatment facility design and permitting, water quality studies, shallow and deep aquifer water well drilling, project management and supervision, aquifer performance testing and analysis, geophysical testing and analysis, and evaluation of groundwater resource development. He has worked on projects in Florida, California, Texas, Oregon and Curacao. He has taught numerous classes and workshops about hydrogeology, alternative water supplies, aquifer recharge projects, and project management and is a seminar speaker at the University of Florida. He earned a B.S. in Geology from the University of Florida and MBA from the University of Central Florida and is a Licensed Professional Geologist.

Robin Speidel, Environmental Data Project Manager, Water Quality Monitoring Program, Southwest Florida Water Management District, Brooksville, FL

Robin is an Environmental Data Project Manager with the Water Quality Monitoring Program at the Southwest Florida Water Management District. He oversees projects associated with the data collection of both surface and groundwater. He also chairs the Florida Water Resources Monitoring Council's Continuous Monitoring Workgroup and is on board of directors for the Geology Alumni Society at the University of South Florida. Having been born and raised in Florida he understands the importance of the state's most valuable resource, water. Robin earned a Bachelor of Science in Geology and completed coursework towards a graduate certificate in Advanced Hydrology at the University of South Florida.

Andrew Stone, Executive Director, American Ground Water Trust, Concord, NH (Conference Moderator)

Andrew Stone completed post-graduate studies in hydrogeology at University College, London. For 13 years he was involved in groundwater research and lecturing 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 at Antioch New England University), and as groundwater educator, advocate and outreach specialist. His work with the AGWT has involved convening over 250 "information-exchange" conferences and workshops focused on groundwater issues. He has organized over 70 "Groundwater Institutes" that have trained 2,000 science teachers and educators on water resources issues. He is a recipient of the National Ground Water Association "Oliver Award" for his work in promoting groundwater education.

Cora Summerfield, GIT, Hydrogeologist, Stantec, West Palm Beach, FL

Cora has two years of experience working as a Hydrogeologist for Stantec. During this time, she has performed a variety of hydrologic, geologic, and environmental investigations including well construction, well replacement, Mechanical Integrity Testing, and well cleanings of Class I and Class V Injection Wells, Biscayne Aquifer Wells, Dual-Zone Monitoring Wells, and Aquifer Storage and Recovery Wells. She graduated from Lehigh University with a B.S. in Environmental Sciences and from the University of Florida with an M.S. in Geology.

Robert Verrastro, PG, Principal Hydrogeologist, South Florida Water Management District, West Palm Beach, FL

Mr. Verrastro has been a professional geologist for 33 years. He holds an undergraduate degree in Geology from Rider University (Lawrenceville, New Jersey) and an M.S. from the University of Louisiana at Lafayette ("Raging Cajuns"). He initiated the first seven years of his career in Houston, Texas as an Explorationist with Conoco, Inc., in the search for deep Jurassic oil fields in Alabama, Mississippi and Florida. He subsequently "got his mind right" and switched to the environmental field and moved to Palm Beach County, Florida. Prior to joining the South Florida Water Management District (SFWMD) in 2000, he worked for eleven years as a groundwater consultant at Arcadis (Geraghty & Miller) and MWH (Montgomery Watson). While at the SFWMD, he has managed and been the principal investigator on numerous projects associated with the Comprehensive Everglades Restoration Program and other State-led initiatives associated with Aquifer Storage and Recovery.

Philip Waller, PE, President, Waller Consulting Engineering LLC, Tampa, FL

Philip Waller is an experienced professional who has assisted numerous clients in planning and implementing water resource programs. He has over 40 years of experience working with regional agencies made up of multiple government jurisdictions, public sector organizations, and private clients. He has led a number of large complex projects and brings extensive experience in project funding, planning, implementation, and regulatory support. Mr. Waller has provided expert witness testimony on water supply, rate making, utility planning, and regulatory issues. This work has ranged from testimony regarding projected impacts from public supply well fields to water resource and utility planning issues that need to be considered for determination of the appropriate rate mechanisms, funding, planning, and compliance with regulatory requirements. He was appointed and served on the Tampa Bay Regional Planning Council and Enterprise Florida Board of Directors. Mr. Waller earned his Bachelor of Science in Civil Engineering, from University of Florida.

Virginia Walsh, PhD, PG, Chief of Hydrogeology, Miami-Dade Water and Sewer Department, Miami, FL

Dr. Walsh has over 20 years of experience as a hydrogeologist in various hydrologic, geologic, and environmental investigations. She has been Chief of the Hydrogeology Section at Miami-Dade Water and Sewer Department (MDWASD), Miami-Dade County, Florida for the past 9 years. Dr. Walsh received her Ph.D. in Geology from Florida International University in 2012. Dr. Walsh and her staff are responsible for all hydrogeologic investigations for MDWASD, and are involved in the design, operation and maintenance of water production wells and the deep injection well systems at MDWASD. She is also the Project Manager for the Aquifer Storage and Recovery cycle testing at MDWASD South and West wellfields.

Yilin Zhuang, PhD, Water Resources Regional Specialized Agent, Mid-Florida Research and Education Center, University of Florida Institute of Food and Agricultural Sciences, Apopka, FL

Yilin Zhuang is a regional specialized agent working with water resources for the UF/IFAS Extension Central District. A passionate conservationist, engineer and educator, Zhuang works with clientele across Central Florida to manage and promote water conservation programs as well as find solutions to challenges facing Florida's water supply. Zhuang, an environmental and civil engineer, is passionate about working with Floridians on solutions to enhance water quality, water quantity and water supply in Central Florida. During her time as a Community Resource Efficiency extension agent in Marion County, Zhuang worked extensively with government officials, conservation agencies, environmental engineers, educators and other stakeholders to develop materials and guides for water quality and quantity challenges facing Florida. She earned her Ph.D. in Civil Engineering from the University of South Florida, her M.S.in Environmental Engineering at Tongji University and a B.S.in Environmental Science at Tongji University.