MANAGING FLORIDA'S AQUIFERS

Aquifer Storage Recovery - Minimum Flows and Levels – Sustaining Spring flow – Suppressing Seawater intrusion – Developing Cooperative Management …. and more!

PROGRAM AND PRESENTER INFORMATION

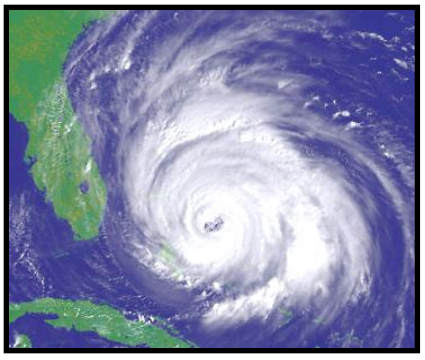
Holiday Inn Hotel, Orlando Airport, Orlando, FL, Monday Sept 8 & Tuesday Sept 9, 2014

This is the American Ground Water Trust's 14th annual aquifer recharge program with a focus on Florida water management issues.

The event is an essential one-stop-shop for all professionals, end-users and citizens who have an interest in the management of Florida's aquifers. Year after year the attendees tell us that this is the one water-issues conference in Florida that they don't want to miss. The invited program presenters will provide updates on projects and technology innovations and the regulatory framework that allows for the development and the conservation of the state's groundwater. In the two days of the conference there will be opportunity to discuss and assess progress and roadblocks for effective integrated management of Florida's water resources.

CONTINUING EDUCATION

The AGWT will issue certificates of attendance
Approved by: FWWA – Water Well Contractors – 13 Units – 124-090814-101
FL Board of Prof Engineers – 0008693 – 7.25PDH Sep 8 & 0009166 – 6.75 PDH Sep 9
FL Water Environment Association – Water/Wastewater Operators (CEU) and Engineers (PDH)
7.25 Hrs Sept 8 & 6.75 Hrs Sept 9



Program - Monday, September 8th

7:15 – 8:15 REGISTRATION

Session One

8:15 – 8:20 **Welcome from American Ground Water Trust Board Member**
Chuck Hammock, Andrews, Hammock & Powell, Inc., Consulting Engineers, Macon, GA

8:20-8:30 **Background to 2014 program topics**
Andrew Stone, Executive Director, American Ground Water Trust, Concord, NH

8:30 – 9:00 **Central Florida water supply strategies and initiatives**
Chuck Drake, Saint John's River Water Management District Governing Board Member, Orlando, FL

9:00 – 9:30 **The Public/Private/Partnership (P3) approach:**
Can using a public/private/partnership model to implement and expand ASR work for Florida?
Ken Ortega, Principal, BASE Water Resources Consulting & Management, Oxnard, CA

9:30 - 10:00 **A review of the Impact of membrane technology on water management options in Florida**
Jarret Kinslow, Project Manager, Tetratech, Orlando, FL

10:00 -10:30 Keynote Speaker

MANAGING OUR FLORIDA AQUIFERS
Mark Thomasson, P.E.,
Director, Division of Water Resources, Florida DEP, Tallahassee, FL

10:30 – 11:00 BREAK

Session Two

11:00 – 11:30 **De-gasification technology**
Tim Bodemann, Co-Owner of Mega Waters Technologies, Charlotte, NC

11:30 – 12:00 **Options to dispose or reuse RO concentrate from brackish water desalination in central Florida**
Soli Rojas, Senior Engineer, MWH, Tampa, FL

12:00 – 12:30 **Update on regulatory issues related to aquifer recharge and ASR**
Joe Haberfeld, UIC Program, Florida DEP, Tallahassee, FL

12:30 – 1:30 LUNCH

Session Three

1:30 – 2:00 **Recharge in the Lower Floridan Aquifer – Florida's last great water management frontier**
Mark McNeal, CEO, ASRus, LLC, Tampa, FL

2:00 – 2:30 **Results of the CERP ASR Regional Study: What we learned from evaluating 333 ASR wells in south Florida**
June Mirecki, Hydrogeologist, US Army Corps of Engineers, Jacksonville, FL

2:30 – 3:00 **Nutrient Reduction utilizing the Floridan Aquifer System and Cretaceous age Sediments, Virginia Key, Miami-Dade County,**
Virginia Walsh, Chief of Hydrogeology, Miami-Dade Water & Sewer Department, Miami, FL
Ed Rectenwald, Principal Hydrogeologist, MWH Americas, Cape Coral, FL

3:00 – 3:15	BREAK

Session Four

3:15 – 3:45 **Bacteria no match for deep Floridan Aquifer: The fate of coliform bacteria in recharged water**
John Lisle, Microbial Ecologist, US Geological Survey, St. Petersburg, FL

3:45 – 4:15 **Modeling methods for the karstic Floridan: Consequences of inappropriate groundwater models and assumptions**
Todd Kincaid, Group Leader / Geologic Modeler, GeoHydros, Reno, NV

4:15 – 4:45 **Use of ASR and recharge to control salt-water intrusion**
Donald Ellison, Senior Professional Geologist, Southwest Florida Water WMD, Brooksville, FL

4:45 – 5:15 **ASR solution for salt water intrusion: Two case studies from Hilton Head Island, South Carolina**
David Pyne, President, ASR Systems, LLC, Gainesville, FL

5:30 – 6:45

RECEPTION (cash bar)

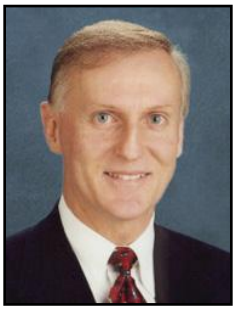
Program - Tuesday September 9th

Session Five

8:15 – 8:45 **Springs Initiatives**
Eric DeHaven, Natural Systems and Restoration Bureau Chief, SWFWMD, Tampa, FL

8:45 – 9:15 **Our springs: The jewels of Central Florida**
Nancy Prine, Friends of the Wekiva River, Inc., Longwood, FL

9:15 – 9:45 **The local politics involved in water planning and management for sustainability**
Joe Kilsheimer, Mayor of Apopka, Apopka, FL



9:45 – 10:15 Keynote Speaker

THE FLORIDAN AQUIFER AND OUR SPRINGS – POTENTIAL LEGISLATION

Florida State Senator David Simmons, District 10, Altamonte Springs, FL

10:15 – 10:30	BREAK

Session Six

10:30 – 11:00 **Update on the Sanford aquifer recharge project**
Lee Wiseman, Water resources Engineer, CDM Smith, Orlando, FL

11:00 – 11:30 **Update on the City of Clearwater's groundwater replenishment program of direct recharge to the aquifer using purified reclaimed water**
David Wiley, Vice-President, Leggette Brashears & Graham Inc, Tampa, FL

11:30 – 12:00	**Destin Water Users ASR System: Florida's first operationally permitted reclaimed water ASR system using a USDW aquifer** Bob Maliva, Principal Hydrogeologist, Schlumberger, Fort Myers, FL
12:00 – 12:30	**Cycle testing at Orange County Utilities** Kim Kunihiro, Water Quality & Water Production Manager, Orange County Utilities, Orlando
12:30 -1:30	LUNCH

Session Seven

1:30 – 2:00	**Impacts of groundwater nutrient transport on springs** David MacIntyre, Owner, AquaSciTech Consulting, PLLC, Orlando, FL
2:00 – 2:30	**Suwannee River Area Springs Restoration and Aquifer Recharge Study** Thomas Farkas, PG, Geosciences Technical Manager, Atkins NA, Inc., Tampa, FL
2:30 – 3:00	**Regional Groundwater Flow Model (NFSEG) developed for Suwannee and St Johns River WM Districts and south Georgia** Doug Durden, Hydrologist IV, St. Johns River Water Management District, Palatka, FL
3:00 – 3:30	**Establishment of minimum flows & levels for St. Marks River Rise, Wakulla, and Sally Ward Springs in northwest Florida** Pam Latham, Principal Scientist, Atkins NA, Inc., Tampa, FL
3:30 – 4:00	**North Florida Regional Water Supply Partnership** John Fitzgerald, North Florida Water Initiative Leader, St. Johns River Water Management District, Palatka, FL
4:00 – 4:15	**Aquifer Storage Projects: A round-up of aquifer storage innovations and recharge projects from other states in the US** Andrew Stone, Executive Director, American Ground Water Trust, Concord, NH
4:15	Adjourn

Background and Experience of Conference Presenters

Listed alphabetically

Tim Bodemann, Co-Owner of Mega Waters Technologies, Charlotte, NC

Tim has over 34 years of experience in Industrial Process Engineering and Applications, focused on design/build of gas separation systems. He holds a degree in Mechanical Engineering and a Masters in Finance. Mega Waters Technologies design-builds, installs and troubleshoots state of the art turn-key membranes and towers base systems targeting the removal of dissolved gases in water such as; oxygen, CO2, Methane, Ammonia and other gases.

Eric DeHaven, Natural Systems and Restoration Bureau Chief, SWFWMD, Brooksville, FL

As bureau chief of Natural Systems and Restoration at the Southwest Florida Water Management District, Eric DeHaven oversees a number of District initiatives and programs within the Resource Management Division. His key responsibilities include oversight of the District's Facilitating Agricultural Resource Management Systems (FARMS) Program and Surface Water Improvement and Management (SWIM) Program He also has responsibility for the District's Springs and Environmental Flows section focused on the establishment of Minimum Flows and Levels, as well as springs restoration efforts. He is a registered professional geologist in Florida and Tennessee and holds bachelor's degrees in geology and geography from DePauw University, Indiana, and a master's degree in geology from the University of South Florida.

Charles W. Drake, CPG, PG, SJRWMD Governing Board Member, Orlando, FL

Mr. Drake is a hydrogeologist whose experience includes groundwater resource evaluations for water supply, water supply master plans, the design, permitting and coordination of mechanical integrity tests; design and analysis of aquifer performance tests; groundwater flow and solute transport simulations; the design of wells and wellfields; and obtaining consumptive use permits. He was appointed to the governing board of the St. Johns River Water Management District in 2011 by Governor Rick Scott. The governing board sets water policy for the agency and establishes goals and priorities to meet the core missions of the district as set forth in Chapter 373, the Florida Water Resources Act. He is Past-President of the Florida Association of Professional Geologists and executive committee member of the AIPG.

Doug Durden, Hydrologist IV, St. Johns River Water Management District, Palatka FL

Douglas Durden, P.E., is a graduate of the University of Florida, from which he received a BS in Civil Engineering and a ME in Water Resources Engineering. He has 24 years of experience in the fields of groundwater and surface-water hydrology. He is currently the lead hydrologist in the development of the SJRWMD/SRWMD NFSEG (North Florida Southeast Georgia) groundwater model.

Donald Ellison, Southwest Florida Water Management District, 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 ASR projects that have resulted in approximately 50 ASR wells throughout the District. He manages several ASR research projects performed by the United States Geological Survey, University of Florida, Florida Geological Survey, University of South Florida, and various consultants. These projects focused on die off of microorganisms in the aquifer, mobilization of arsenic in the aquifer, bench scale arsenic mobilization studies, arsenic mobilization modeling, detailed ASR monitoring projects and pre-treatment of injection water to minimize arsenic mobilization. He has been a participant on the Florida Department of Environmental Protection's Underground Injection Control work group and attended the EPA's ASR expert meeting in May 2008 in Chicago. 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.

Thomas Farkas, PG, Senior Hydrogeologist, Water Systems Engineering, Atkins Global, Tampa, FL

Tom Farkas has worked for 24 years in water resource development/management and environmental consulting. He has extensive field-level, analytical, modeling, and project management experience on a wide variety of projects. He is a senior project manager responsible with developing projects with Atkins' clients and supervising Atkins' science staff in Tampa, Florida. Mr. Farkas has managed a variety of projects, including: public groundwater supply planning, permitting, and development, reclaimed water aquifer storage and recovery well permitting, design and construction, wastewater disposal through land application and deep well injection, groundwater contamination assessment/ remediation at landfills, petroleum storage facilities, and commercial properties, and provided expert witness testimony during administrative hearings.

John Fitzgerald, North Florida Water Initiative Leader, St. Johns River Water Management District, Palatka FL

John has over 15 years of experience in water management involving water supply planning, water resource development, water supply development, desalination/concentrate management, minimum flows and levels and permitting. John served for several years as the project manager for the Central Florida Aquifer Recharge Enhancement (CFARE) project and Regional Aquifer Management Projects (RAMP). He has represented SJRWMD on numerous working groups investigating the feasibility of water resource projects including the Coquina Coast Desalination Project, Central Florida Water Initiative and currently serves as the District's Representative on the North Florida Water Supply Partnership Stakeholder Advisory Committee. John also is a Lieutenant Commander in the US Coast Guard Reserve and has been mobilized to support operations after the tragedies of 9/11 and also in support of hurricanes Katrina, Rita and Ike, as well as, for recovery operations for the Deepwater Horizon oil spill.

Joseph Haberfeld, Florida Department of Environmental Protection, Tallahassee, FL

Joe is a Hydrogeologist and Professional Geologist, with the Florida Department of Environmental Protection (DEP) in Tallahassee, Florida. He is Program Administrator for the State of Florida's Underground Injection Control Program. 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).

Joe Kilsheimer, Mayor of Apopka, Apopka, FL

Joe Kilsheimer, a former city commissioner, was elected Mayor in March 2014. He graduated from the University of Central Florida in 1979 with a Bachelor's degree in journalism. He then began his career as a journalist for 20 years at the Orlando Sentinel, where he covered personal technology and the information industry, telecom, real estate and local government. In 1994 he launched the Sentinel's Internet beat and covered leading IT industry figures.

As the owner of his own public relations consulting firm, Kilsheimer has represented some of Florida's leading growth companies, including Florida's fastest growing financial services company; the nation's largest waste-to-energy facilities, one of the nation's largest civil engineering companies and the operator of a not-for-profit community-based hospital in Central Florida. He is the past chair of Sustainable Florida, which works to promote practices that create jobs and preserve the natural environment.

Todd Kincaid, Group Leader / Geologic Modeler, GeoHydros, Reno, NV

Dr. Kincaid leads GeoHydros. He has a diverse background in geology and hydrogeology and has extensive knowledge of karst hydrogeology. His experience includes: quantification of groundwater/surface water exchange; groundwater tracing using isotopic and artificial tracers; environmental site characterizations and remediation; aquifer characterization; and modeling complex geologic environments.

Dr. Kincaid is currently managing a groundbreaking aquifer characterization study of the Woodville Karst Plain of north Florida with the Florida Geological Survey and the Florida DEP, which synthesizes groundwater tracing, cave mapping, and hydraulic data into one of the first numerical models that truly embraces karst complexities (www.geohydros.com/FGS). He has authored several professional reports as well as numerous professional and academic papers for national and international journals and symposia. He regularly participates in meetings with local and state agencies as well as legal proceedings to convey modeling results to regulatory and lay audiences.

Jarret Kinslow, Project Manager, Tetratech, Orlando, FL

Jarret is a Professional Engineer licensed in Florida, with 14 years of environmental engineering experience on the design and management of membrane and conventional treatment projects. Areas of experience include planning, pilot testing, design, permitting, construction administration, start-up, training, troubleshooting, and data analysis. Specialty experience includes all facets of alternative water supply programs including project concept development through to design, construction, and facility startup/commencement. Project experience includes operational facilities ranging from 2 MGD to 32 MGD of treatment capacity, with 65+ MGD in combined membrane treatment capacity. He is currently providing project management and engineering services to large municipal water suppliers in Florida, Texas, and throughout the Southeast US.

Kim Kunihiro, Water Quality & Water Production Manager, Orange County Utilities, Orlando, FL

Kim holds a B.S. degree in Chemistry from the University of Hawaii at Manoa and an M.S. degree in Environmental Engineering Sciences from University of Florida and has worked in the water sector for more than 30 years. Orange County Utilities is a large Water and Wastewater Utility that serves over 300,000 customers in Orlando, Florida.

Her current responsibilities include management and supervision of the water production section which operates and maintains 20 water supply and pumping facilities for Orange County Utilities and project management of a variety of analytical and research projects. In addition, she coordinates the activities of the water quality staff including backflow and cross connection, field sampling and water quality research. She prepares reports and monitors regulatory compliance for the Water Division. Her experience includes 33 years of laboratory management, data management and quality control in the public and private sector. She has specialized expertise in sampling plan development, data evaluation and laboratory design.

Pam Latham, PhD, Principal Scientist, Atkins NA, Inc., Tampa, FL

Pam Latham has more than 25years of professional experience in natural resource assessments and management, working with federal, state, and local agencies, water utilities, and water management districts. She has served as senior scientist and/or project manager for restoration design and monitoring, analysis of potential impacts of water diversions to river systems, groundwater withdrawal impacts, NEPA compliance, and scientific support to the Comprehensive Everglades Restoration Program (CERP). She has peer-reviewed publications in scientific journals, including Wetlands, Estuaries, and the Water Resource Bulletin.

John Lisle, Microbial Ecologist, US Geological Survey, St. Petersburg, FL

Dr. Lisle's Ph.D. is from University of South Florida's College of Public Health. He completed a post-doctoral fellowship in Gordon McFeter's laboratory at Montana State University's Department of Microbiology and held a research

professor's appointment in the Microbiology Department and NSF sponsored Center for Biofilm Engineering also at Montana State University. Dr. Lisle was employed by NASA's Astrobiology Institute at Johnson Space Center in Houston, TX where he worked as a microbial ecologist. In 2002 Dr. Lisle starting working with the USGS Center for Coastal and Watershed Research in St. Petersburg, FL, where he works with federal, state and academic groups on microbial ecology issues. His expertise is in the use of non-culture based and molecular techniques to assess the role microorganisms play in aquatic systems. Dr. Lisle's research focus is on the biogeochemistry of surface and groundwater systems and how microbial processes influence the geochemistry and quality of these waters

Bob Maliva, Principal Hydrogeologist, Schlumberger, Fort Myers, FL

Robert Maliva completed his Ph.D. from Harvard University and has held research positions at the University of Cambridge, England, and University of Miami, Florida. Dr. Maliva has been a consulting hydrogeologist since 1992, and is currently a Principal Hydrogeologist with Schlumberger Water Services. He specializes in the development of alternative water supplies for municipal and industrial clients. He has over 22 years of international research and consulting experience in hydrogeology, subsurface geology, and fluid flow investigations. His areas of specialization include the design and permitting of aquifer storage and recovery systems, injection wells, and production wellfields.

David MacIntyre, Owner, AquaSciTech Consulting, PLLC, Orlando, FL

David F. MacIntyre, PE has 30 years of experience in water management. After serving 24 years as an officer and technical leader for a large national consulting firm, he has recently started working as owner and principal engineer of AquaSciTech Consulting, where he provides consulting solutions for planning, permitting, design and implementation of water and wastewater infrastructure projects. With particular expertise in water supply, water reuse and natural systems analysis, he is known for his extensive experience with regional scale water supply and reuse projects. Mr. MacIntyre works mostly with public sector clients in state and local government agencies. In 1979, he earned a Bachelor of Arts in civil engineering at the University of Cambridge, England, and he received a Master's degree in environmental engineering from the University of Florida in 1986. He is a registered professional engineer.

Mark McNeal, ASR-US, 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 eight 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, Hydrogeologist, US Army Corps of Engineers, Jacksonville, FL

June Mirecki is the Senior Hydrogeologist with the Jacksonville District of the US Army Corps of Engineers. She currently serves as Technical Lead for the ASR projects in the Comprehensive Everglades Restoration Plan. She is also a contributing hydrologist/geochemist on other projects that study flow and quality of the Biscayne Aquifer. She currently serves as an Associate Editor for the peer—reviewed journals *Engineering and Environmental Geosciences* and *Applied Geochemistry.* Dr. Mirecki earned a Ph.D. in Geology (Geochemistry) from the University of Delaware and is a professional geologist registered in Florida.

Ken Ortega, Principal, BASE Water Resources Consulting & Management, Oxnard, CA

Ken has over 30 years experience in the water industry involved in engineering, water treatment, project development, business management and interaction with political entities related to water and government planning. He has also provided professional consulting services to private and public clients in all areas of sustainable infrastructure and renewable energy planning, financing, design, construction, operations & maintenance, and programmatic level management. Ken was the founder of BASE Water Resources Consulting & Management, LLC as well as SumLogic, LLC. Working with Aquifer Group he has evaluated large areas of the central and western United States and northern Mexico for aquifer recharge and groundwater sustainability.

Nancy Prine, Friends of the Wekiva River, Inc., Longwood, FL

Nancy Prine, a lifetime resident of Florida, has a degree in Landscape Architecture from the University of Florida and has been in practice for five decades. She has been an active volunteer for the The Friends of the Wekiva River for 25 years. This organization was founded in 1982 to preserve the beauty and natural functions of the Wekiva River system

with the objective: ♦ to promote and protect the aesthetic and recreational values of the Wekiva River system ♦ to protect the integrity of the Wekiva River Basin ♦ to work toward restoration and continuation of the river and its tributaries ♦ and to carry out educational activities to the same end. In addition to her volunteer work related to the Wekiva River, Nancy is also involved in the work of the Audubon Society.

David Pyne, ASR Systems LLC, Gainesville, FL

David Pyne is the President of ASR Systems LLC, Gainesville, Florida. He has pioneered development of ASR technology during the past 35 years and 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, the second edition of which was released in 2006.

Ed Rectenwald, Principal Hydrogeologist, MWH Americas, Cape Coral, FL

Mr. Rectenwald is a Principal Hydrogeologist and Client Service Manager in south Florida with over 18 years of technical and management experience in various hydrologic, geologic, and environmental investigations. His experience includes regional aquifer investigations, water use permitting, hydraulic modeling, design and testing of aquifer storage and recovery wells (ASR), injection wells, public and industrial supply reverse osmosis (RO) wells, irrigation wells, and monitor wells. Mr. Rectenwald has been involved in detailed geochemical investigations to better understand flow patterns of the Floridan Aquifer System using stable isotopes, carbon-14, and noble gases.

Soli Rojas, Senior Engineer, MWH, Tampa, FL

Mr. Rojas has been working with water and wastewater projects for over ten years with MWH. Mr. Rojas has provided civil and mechanical design support and construction management services for large municipal and water resource projects. He has assisted on many projects using his geographical information systems (GIS), InfoSWMM (sewer model) and Rehabilitation Decision Support System (RDSS). Mr. Rojas' broad range experience includes evaluation of technologies for water treatment process by-product/concentrate disposal, surface water feasibility studies, production well design, pump station and pipeline design, field engineering services and construction management services to various Counties on small and large pump stations and pipeline projects, documentation and control activities, civil and mechanical submittals review, permitting, records drawings and sewer system evaluations studies and analysis/design of water transmission and storage facilities.

Florida State Senator David Simmons, Tallahassee, FL

Senator David Simmons represents Florida's 10th District, which includes all of Seminole County and part of southern Volusia County. Before winning election to the Florida Senate in 2010, David served as a member of the Florida House of Representatives, representing the 37th District from 2000 to 2008. David is responsible for the much-heralded legislation providing for a reasonable and flexible implementation of Florida's class size constitutional amendment; giving a property tax break to active military members deployed abroad; solidifying and protecting private property rights; and creating a Central Florida Expressway Authority to consolidate toll operations in Central Florida. He also sponsored and passed legislation to vastly improve Florida's stalking laws to protect all Floridians, especially women and children. David attended Tennessee Technological University, and graduated with a degree in mathematics in 1974. Following graduation, he attended the Vanderbilt University Law School, receiving his Juris Doctor in 1977 and moved to the state of Florida later that year. He joined the law firm of deBeaubien, Knight, Simmons, Mantzaris, & Neal, LLP, where he currently serves as an attorney and financial managing partner. During the 2014 Legislative Session, Senator Simmons worked with a bipartisan group of Senators to craft comprehensive springs legislation. Although the House did not take up the bill, it will lay the groundwork for legislation in 2015 to clean up and preserve all of Florida's waters.

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

Andrew Stone is a hydrogeology graduate from University College, London. He has over thirty five years of ground water experience in Africa and the U.S. as a university professor, ground water consultant and ground water advocate & educator. From 1990 to 2003 he taught an annual course on Groundwater Protection Policy at Antioch New England University. In recognition of his work in promoting ground water resource education in the US, he received the 1998 National Ground Water Association "Oliver Award" for outstanding contributions to the groundwater industry.

Mark Thomasson, P.E., Director, Division of Water Resource Management, Florida DEP, Tallahassee, FL

Mr. Thomasson has oversight responsibility for the drinking water, wastewater, NPDES, UIC, Environmental Resource Permitting, Beaches and Coastal Systems, and Mines and Minerals regulatory programs. Prior to joining FDEP, he spent 21 years as a consultant in Florida working on utilities and infrastructure projects. He has Bachelor and Master of Science Degrees in Civil Engineering from Louisiana State University and is a Registered Professional Engineer with 24+ years experience with Florida's environment.

Virginia Walsh, Ph.D., P.G., Chief of Hydrogeology, Miami-Dade Water & Sewer Department

Dr. Walsh has over 18 years 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 over the past 7 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.

David A Wiley, P.G., Senior VP, Leggette, Brashears and Graham, Inc., Tampa, FL

David Wiley has 33 years of experience in providing Hydrogeological services to government agencies and private industry. His first 5 years were with the SWFWMD. Since that time he has been with Leggette, Brashears and Graham, Inc. (LBG) and is currently a member of the firm's Board of Directors. LBG is a Hydrogeological Consulting firm with offices in Tampa and Orlando, as well as other areas around the country. David is responsible for LBG projects in the southeast U.S. from North Carolina to Florida to Puerto Rico. Services in these areas have included permitting, development and management of groundwater supplies, wastewater disposal and reuse, UIC permitting and aquifer recharge, assistance with mining operations, contamination assessment and remediation and groundwater modeling. He has also provided expert testimony. David has a Bachelor's Degree in Geology from the University of South Florida.

Lee Wiseman, Water resources Engineer, CDM Smith, Orlando, FL

Lee has over 20 years of experience applying various analytical and numerical models to simulate groundwater flow, mass transport, and water quality. His areas of expertise include hydrogeology, groundwater modeling, aquifer storage and recovery evaluation and design, water supply planning and design, and groundwater remediation. Mr. Wiseman holds a M.S. in Environmental Engineering and a B.S. in Microbiology from the University of Central Florida

"Best annual event on Florida's aquifers!"

Thanks for attending
See you next year!

The American Ground Water Trust is a national, non-profit public education organization that has been providing ground water information, awareness and education since 1986.

The Trust's programs:

☺ Promote efficient and effective ground water management
☺ Communicate the environmental and economic value of ground water
☺ Showcase ground water science and technology solutions
☺ Increase citizen, community and decision-maker awareness
☺ Facilitate stakeholder participation in water resource decisions

END OF EVENT

➔ **At the end of the program please leave your badge holder and evaluation form on the table**

➔ **For a download of the presentations complete a yellow order form available at the registration desk**

CONTINUING EDUCATION

➔ **If you need a certificate of attendance please remember to sign out. (Separate forms for each day)**
[The certificates will be e-mailed to you]

➔ **There are also "paperwork" requirements to be completed at the end of each day for:**
♦ Water and waste-water operators ♦ Water well drillers ♦ Engineers