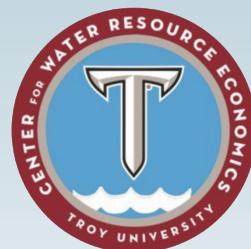
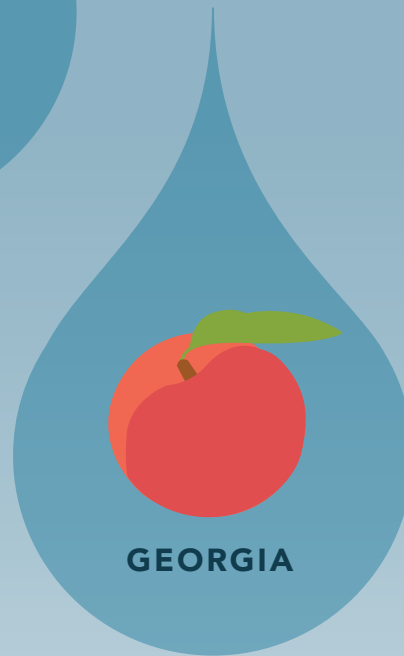
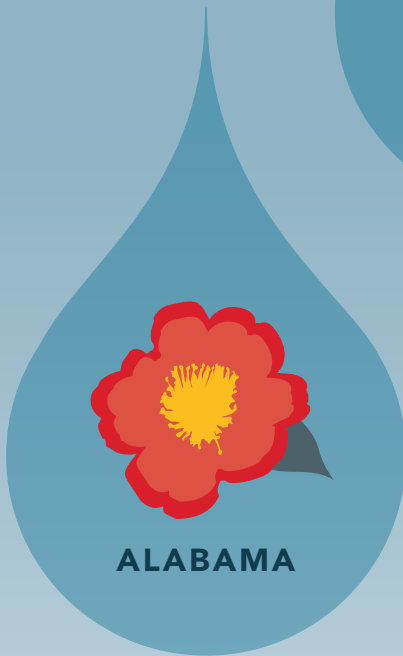
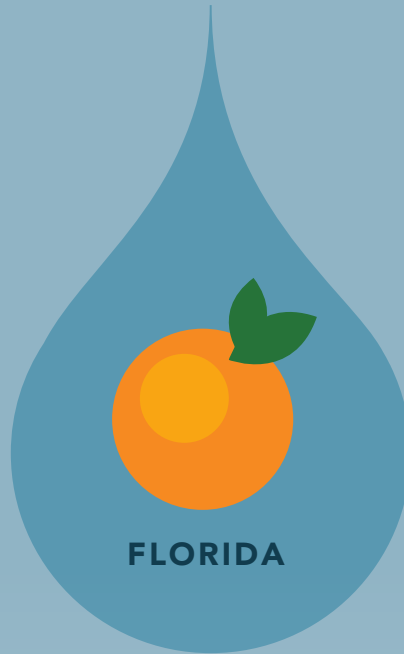


WATER RESOURCE ECONOMICS CONFERENCE

# SOUTHEAST WATERS: WADING INTO OUR FUTURE

OCTOBER 22 - 23

# 2019



## 2019 Alabama/Georgia/Florida Water Resource Economics Conference

This is the sixth year that the Troy University Center for Water Resource Economics (CWRE) along with the Tri Rivers Waterway Development Association has hosted an annual conference in Phenix City.

### Center for Water Resource Economics

Troy University's Center for Water Resource Economics (CWRE) is dedicated to the use of economic tools in addressing water resource issues and to the archiving of important water resource information. The CWRE will study the economic impact of water policy, water operations, water transportation, water based recreation, industrial development, and environmental initiatives. This Center is housed in TROY's new Riverfront Campus in Phenix City on the banks of the Chattahoochee River.

Billy G. Turner serves as the Director of the Center. His email address is [billyturner@troy.edu](mailto:billyturner@troy.edu).

### Tri Rivers Waterway Development Association (TRWDA)

Tri Rivers Waterway Development Association (TRWDA) was formed in 1960 and represents many stakeholders who rely on the Apalachicola-Chattahoochee-Flint Waterway-(ACF) Rivers Project for a variety of authorized uses. The authorized uses, which are managed by U. S. Army Corps of Engineers, includes navigation, hydropower generation, water quality, water supply, economic development, environmental stewardship, tourism, and recreation. The U S Coast Guard has the responsibility for maintaining aids for navigation on the system.

TRWDA seeks to partner with stakeholders, and with local, state, and federal agencies to seek scientific, technical, and economic solutions to the obstacles which have prevented a full realization of the benefits of the ACF River System in recent years. TRWDA was one of the original members of the ACF Stakeholder organization and is a member of Coalition of Alabama Waterway Associations (CAWA) whose members represent the five major inland waterway systems in Alabama.



***Southeast Waters: Wading into our Future  
Troy University – Phenix City, AL  
October 22 - 23, 2019***

**Tuesday, October 22**

1:00 pm - 1:30 pm

**Conference Opening**

*Billy Turner*, Director, Center for Water Resource Economics  
Mayor Eddie Lowe, City of Phenix City, AL  
Mayor Skip Henderson, City of Columbus, GA  
Charles Stover, President/Treasurer, Tri Rivers Waterway Development Association

1:30 pm - 3:00 pm

**The Future of Environmental Education**

Many challenges exist in conveying to the many publics the elements of environmental issues. This session will describe several efforts to focus on the current and future needs of environmental education.

**The Role of Sustainability in Environmental Education**

*Dr. Stan Meiburg*, Director, Graduate Programs in Sustainability, Wake Forest University

**Panelists:**

*Dr. Michael Dentzau*, Executive Director, Oxbow Meadows Environmental Learning Center and Assistant Professor, Columbus State University  
*David Matson*, Educational Programs Coordinator, Legacy, Partners in Environmental Education  
*Eddie Bradley*, Director of Engineering, Interface, Inc.

3:00 pm - 3:15 pm

**Break**

3:15 pm - 5:00 pm

**Assessing our Watersheds**

This session will address several recent studies performed in the Middle Chattahoochee watershed concerning source water protection, speciation, sediment, and algal issues. A report on a water quality assessment in a large interstate watershed that is similar to the ACF and ACT will be presented.

**Session Leader:** *William Kent*, Manager, Environmental Services, Columbus Water Works

**Regional Source Water Assessment and Protection Program for Surface Water**

*Beth Bickerstaff*, QA/QC Watershed Coordinator, Columbus Water Works

**Investigating Phytoplankton, Hydrilla and Epiphytic Algal Dynamics in Chattahoochee Reservoirs**

*Dr. Susan Wilde*, Associate Professor, Warnell School of Forestry and Natural Resources, University of Georgia

**What's in the Water? Tracing Sediment Transport and Deposition along Five Reservoirs on the Chattahoochee River**

*Dr. Matthew Waters*, Assistant Professor, Department of Crop, Soil and Environmental Sciences, Auburn University

**Understanding Water Quality in a Large Watershed**

*Robert Osborne*, Project Manager, Black and Veatch

5:00 pm - 7:00 pm

**Reception - Lobby**

## Wednesday, October 23

7:30 pm – 8:30 am

**Breakfast – Room 201**

8:30 pm - 10:30 am

### **Water Planning from A to O**

Water planning includes a diverse set of actions, with Southeastern states currently focused on activities ranging from assessment to outreach. Session participants will describe the activities that their agencies have underway or coming up as they proceed with water planning in their respective states. The session will focus on the objectives and impact of activities undertaken by each agency and is not intended to address cross-state coordination or related issues.

**Session Leader:** *Dr. Gail Cowie*, Senior Research Professional, Georgia Water Planning and Policy Center, Albany State University

#### **Panelists:**

*Jennifer Welte*, Environmental Program Manager, Georgia Environmental Protection Division

*Sarah Skinner*, Education and Public Awareness Coordinator, Metropolitan North Georgia Water Planning District

*Tom Littlepage*, Water Management Unit Chief, Alabama Office of Water Resources

*Paul Thorpe*, Chief, Bureau of Environmental & Resource Planning, Northwest Florida Water Management District

10:30 pm - 11:00 am

**Break**

11:00 am - 12:00 pm

### **U. S. Army Corps of Engineers Update**

This session will provide an update on operation and maintenance issues in the ACF including a review of damage by hurricane Michael. A review of the new topographic survey and condition of the Apalachicola River will be presented and a travel log of the movement of a large gate on the waterway will be described.

**Session Leader:** *Wynne Fuller*, Chief, Operations Division, Mobile District, U.S. Army Corps of Engineers

#### **Session Participants**

*Robert Moore*, Operations Project Manager, ACF Waterway, U.S. Army Corps of Engineers

*Sam Hill*, Captain M/V General Irwin, U.S. Army Corps of Engineers

12:00 pm - 1:30 pm

Lunch - Room 201

### **Presentation of Don Hines Award**

*Dr. Dave White*, Vice Chancellor, Troy University

*Billy Houston*, 2018 Recipient of Don Hines Award

1:30 pm - 3:30 pm

### **Regional Considerations**

The Southeast Region has many water related considerations. This session will address ground water monitoring, a water resource value assessment, stream flows, and renewables impact.

**Session Leader:** *Charles Stover*, President/Treasurer, Tri Rivers Waterway Development Association

#### **Groundwater Monitoring Networks in Alabama: are we covered?**

*Ann Compton Arnold*, P.G., Hydrogeologist, Geological Survey of Alabama

#### **Experiences of Renewables in System Operations**

*Skip Mize*, Fleet Operations Coordinator, Alabama Power Company

**Declining Stream Flows in SE US**

*Glenn Tootle, Captain (Retired), US Navy, Associate Professor, The University of Alabama*

**Impact/Value Study of the Mid/Lower Apalachicola/Chattahoochee/Flint Rivers System**

*Dr. Philip Mixon, Professor of Economics, Sorrell College of Business, Troy University*

3:30 - 5:00 pm

**Tour Columbus Water Works Environmental Services Facility**

Columbus Water Works will host a tour of its new 14,000 sq. ft. Environmental Services Facility at the conclusion of the conference. The facility houses the environmental regulatory, watershed and source water protection groups and the multiple water testing laboratories. The facility not only supports Columbus and Ft. Benning but provides support services for many utilities in the region.

**Refreshments**

## CONFERENCE SPEAKERS



**Ann Compton Arnold** – Ann Compton Arnold works at the Geological Survey of Alabama, as a Hydrogeologist with over 25 years of groundwater project management experience. Ann is the principal investigator for the USGS National Ground Water Monitoring Network program. She graduated with a B.S. in Geology from Emory University in 1985, and a M.S. in Geology from University Southern California in 1989, and earned her California P.G. in 1994.

Ms. Arnold's early career began as a hydrogeologist for Orange County, CA Water District on several complex municipal groundwater supply and contamination projects. She worked as a Hydrogeologist for Dames & Moore engineering firm in the San Francisco Bay Area for about 6 years, managing several large groundwater remediation and modeling projects. As an Associate Hydrogeologist with Harding Lawson Associates (HLA), Ms. Arnold relocated from California to Mobile, Alabama, in 1996, to open HLA's new office. Her major clients were the Dept. of Architect and Degussa; conducting remediation using risk-based models for soil and groundwater. She designed and authored several soil, groundwater remediation and some wetland projects for various industrial and fuel operators, to comply with regulatory statutes. In 2010, Ms. Arnold joined the GSA staff, and co-authored sections of the final report for the RPSEA gas shale study. She interpreted depositional environment / diagenetic history as part of basin analysis for Enhanced Oil Recovery (EOR) and CO2 injection projects in partnership with SECARB in 2012. She served in a regulatory capacity for the Alabama State Oil & Gas Board and served as a board member for Alabama on the National Ground Water Protection Council.



**Beth Bickerstaff** – Beth Bickerstaff has been with Columbus Water Works since 1999. She is currently the QA/QC Watershed Coordinator in Environmental Services. She is responsible for the Watershed Protection Plan, the Source Water Assessment Plan, the Creek Walking Program and other projects.

She has a BS in Biology from the University of Georgia, has several licenses in the State of Georgia which include public water supply system operator – class II, water laboratory analyst and wastewater laboratory analyst. Beth is also a Certified Stormwater Inspector – Municipal (MS4) through the National Stormwater Center and is Level IA certified with the Georgia Soil and Water Conservation Commission.



**Eddie Bradley** – Eddie Bradley is Director of Engineering for Interface, a global leader in the commercial flooring business and in the world of sustainability. Eddie holds a Bachelors Degree in Electrical Engineering from Auburn University and attended graduate school at the Institute of Textile Technology in Charlottesville, Virginia. Eddie’s career spans the last 30+ years and has focused primarily on technology and equipment related to the textile industry, the last 15 years of which have been with Interface.

While at Interface Eddie has held advancing Engineering roles and for the last 7 years Eddie has worked as Director of Engineering for Interface Americas. Prior to that for 4 years Eddie worked as Engineering Manager for Interface China where he was responsible for the design and set up of Interface’s manufacturing facility near Shanghai. Eddie’s sustainability experience includes working on varying initiatives associated with Interface’s Mission Zero such as Energy Conservation, Landfill Gas, Water Conservation, Factory as a Forest, and has overseen both LEED and WELL construction projects.



**Gail Cowie** – Gail Cowie has over thirty years of experience in water management, public policy, and public participation. She is currently a Senior Research Professional with the Georgia Water Planning and Policy Center at Albany State University (ASU), supporting a research and education partnership between ASU and the Flint RiverQuarium. She is also responsible for water planning and applied research initiatives addressing some of Georgia’s most complex water management challenges. Her prior positions include 13 years with the Georgia Environmental Protection

Division, where her most recent responsibilities include coordinating the agency’s water programs in the western half of the state as Assistant Chief of the Watershed Protection Branch. Gail also helped lead development of the Georgia’s State Water Plan and regional water planning.

Before coming to EPD, she was on the public service faculty at the University of Georgia for 17 years, providing technical assistance and applied research on environmental policy. She has a M.S. in Zoology and a Ph.D. in Public Administration from the University of Georgia.



**Michael Dentzau** – Michael Dentzau is the Executive Director of Oxbow Meadows Environmental Learning Center and an Assistant Professor in the College of Education and Health Professions at Columbus State University. He received his doctorate in Curriculum and Instruction with a specialization in Science Education from Florida State University. His undergraduate and lower graduate degrees are in marine biology and wildlife and fisheries management. Prior to joining CSU, he held positions at FSU. Dr. Dentzau has also worked for over 25 years as an environmental scientist in both private and public practice, with a focus on wetlands and threatened and endangered species.



**William Wynne Fuller** – William W. Fuller became Chief, Operations Division, Mobile District, May 1996. His responsibilities center on oversight of a broad range of missions including navigation, hydropower, flood control, natural resources management, regulatory, hydrographic survey and mapping and emergency operations. He joined Mobile District in 1979 as a Structural Engineer. He was commissioned into the Army Corps of Engineers in 1970, serving on active duty until 1975. He is an Army Aviator.

Mr. Fuller holds a Master of Science Degree from the National Defense University in National Resource Strategy, and Bachelor of Science Degrees from the University of South Alabama in civil engineering and the University of Tennessee in natural science/

secondary education. He is a graduate of the Industrial College of the Armed Forces and the Army's Command and General Staff College.

His awards include the Department of Defense's Distinguished Civilian Service Award, the Superior Civilian Service Award, the Decoration for Exceptional Civilian Service, Meritorious Service Medal and the Army Commendation Medal. He is recognized as the U.S. Army Corps of Engineers Emergency Manager of the Year for 1989 and as the U.S. Army Corps of Engineers Civilian of the Year for 1991.



**Kenneth "Sam" Hill** – Sam Hill is Captain of M/V GENERAL IRWIN which is a towboat home-ported in Fort Gaines, GA that normally pushes a spud barge with an excavator or crane that is used on the Apalachicola, Chattahoochee, Flint Rivers Project for maintenance and construction to government facilities. He is a retired Coast Guard Senior Chief Boatswains Mate and his last assignment was Officer In Charge, USCG Aids to Navigation Team Eufaula, AL and has been working on the ACF rivers project since 2005. Sam Hill is a licensed Merchant Marine Officer Master of Towing, near coastal, inland, great lakes, and western rivers on his 7th issue. (Since 1987)

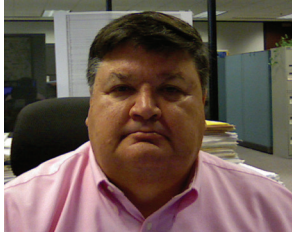


**William Kent** – William Kent has worked for the Columbus Water Works (CWW) of Georgia for over 27 years. William is the Manager of Environmental Services for CWW. Oversight includes several environmental and regulatory programs at CWW including Industrial Pretreatment, FOG Program, Source Water & Watershed Protection, and supports Public Education. William is also responsible for CWW's analytical & laboratory services and overall Water Quality for CWW, Muscogee County and the Middle Chattahoochee Region. CWW's lab is a GA EPD Certified Drinking laboratory, but also handles all analytical work for the community's wastewater services, stormwater, Combined Sewer Treatment, soils, and biosolids. CWW's lab also provides

analytical services for approximately 15 surrounding municipalities and smaller communities.

William majored in Biology/Chemistry and minored in Math at Chattahoochee Valley Community College, Columbus State University and Auburn University. He has also received training in Environmental Sciences & Engineering. William holds a State of Georgia Wastewater Operator license, and Water Analyst License & Wastewater Analyst License.





**Thomas M. Littlepage** – Tom Littlepage graduated from Auburn University with a degree in Civil Engineering. Upon graduation, he spent approximately nine years in the Air Force. Upon his return to Alabama, he began his career with the State of Alabama with the Alabama Department of Environmental Management (ADEM). He later transferred to the Alabama Office of Water Resources (OWR), a division of the Alabama Department of Economic and Community Affairs (ADECA).

Mr. Littlepage heads the Water Management Unit of the Alabama Office of Water Resources and manages the Water Use Reporting Program for the State of Alabama. He also oversees Alabama's drought planning and management process. This has included overseeing the implementation of the Alabama Drought Planning and Response Act passed in 2014, approval of drought regulations finalized in 2016, and the revision to the Alabama Drought Management Plan in November of 2018. He has also worked on various efforts to review potential changes to Alabama's water management programs including policy enhancements in how Alabama manages water withdrawals and use. Currently that effort is focusing on helping to support water planning in Alabama and enhancements to water reporting capabilities.



**David Matson** – David Matson is the Educational Programs Coordinator for Legacy, Partners in Environmental Education. He received his Master's degree in Biology from Jacksonville State University and his Bachelor's degree in Environmental Science from the University of Alabama. As the Educational Programs Coordinator for Legacy, David has developed and implemented numerous environmental education programs throughout the state of Alabama. David is the liaison to and collaborates with state parks, various non-profits and state agencies, universities and colleges, and environmentally conscious organizations in the development of these programs. David is a current committee member of the Alabama Chapter of Green Ribbon

Schools and a board member of the Environmental Education Association of Alabama (EEAA). He is a native of Alabama and has dedicated himself to having a deep understanding and appreciation for Alabama's diverse and precious ecology.



**Stan Meiburg** – Stan Meiburg is the Director of Graduate Studies in Sustainability at Wake Forest University in Winston-Salem, North Carolina. He began this role in 2017, following a 39-year career with the U.S. Environmental Protection Agency. Dr. Meiburg concluded his career by serving as EPA's Acting Deputy Administrator, the agency's second highest position, from 2014 to 2017.

Prior to his time as Deputy Administrator, Dr. Meiburg served in senior career positions as EPA's Deputy Regional Administrator in the Southeast and South Central regions of the United States, as well as in EPA's air office in Research Triangle Park and in Washington, DC. He received EPA's Distinguished Career Service Award, EPA's Gold Medal, for his work on the Clean Air Act Amendments, the Commander's Award for Public Service from the Department of the Army, and the Distinguished Federal Executive award in 2012, the highest civilian award for a Federal senior executive. He also currently serves as chair of the North Carolina Environmental Management Commission, and is a member of the Roundtable on Science and Technology for Sustainability of the National Academies of Sciences, Engineering and Medicine. Dr. Meiburg holds a bachelor's degree from Wake Forest University, and masters and doctoral degrees from The Johns Hopkins University.



**Phillip Mixon** – Phillip Mixon is a Professor of Economics at Troy University. He received a B.S. degree in Economics from Mississippi State University and Ph.D. in Economics from Mississippi State University. He has been active in the area of economic impact and feasibility studies for several entities both public and private throughout the South. He has published several refereed articles dealing with educational economics, energy economics, economic impact studies, and planned development.



**Skip Mize** – Skip Mize has worked at Southern Company in Fleet Operations and Trading for 6 years. In his role as a Fleet Coordinator, he is responsible for the real-time monitoring and control of the generating assets of Southern Company while ensuring the integrity of the bulk electric system. Skip believes that the efficient use of resources is critical to business success and environmental stewardship. He will be completing his Bachelor of Science degree in business from the University of Alabama in December and is a NERC Certified System Operator (NCSO).

Prior to working in Fleet Operations, Skip was an Operations Team Leader at Red Hills Power Plant in Ackerman, MS for 15 years. He is also a 12-year Navy submarine vet and was a staff instructor at Naval Nuclear Power Training Unit, Charleston, SC. He currently lives in Pelham, AL with his wife, Jennifer, daughter, Ashton, and son, Travis.



**Robert (Bobby) Moore** – Robert Moore is the ACF Rivers Project Manager for Mobile District. He is a graduate from the U.S. Naval Academy with a degree in Mechanical Engineering and is a registered Professional Engineer in the State of Alabama. He joined the U.S. Army Corps of Engineers in 2008. His previous duties with the Corps have been in Construction Division, Mobile District as Area Engineer for the South Alabama and Latin America Area Offices. Robert a native of Dothan, AL. He is married and has a son and daughter who are attending the University of Alabama.



**Robert Osborne** – Robert Osborne is a Project Manager with Black & Veatch and has been with them for 23 years since graduating from Clemson. Robert still lives in Clemson. He has a BS degree in Civil Engineering and MS in Civil Engineering Hydraulics, both from Clemson University.



**Sarah Skinner** – Sarah Skinner has worked at the Atlanta Regional Commission (ARC) in the Natural Resources Division for 8 years. Her primary roles have been in program administration and education and public awareness for the Metropolitan North Georgia Water Planning District (the District). She currently serves as Education and Public Awareness Coordinator for the District, and as such manages the communications and messaging strategy for the My Drop Counts water conservation campaign and the Clean Water Campaign for stormwater pollution prevention; directs four annual contests and two annual events; oversees social media and website messaging; and project manages ongoing programs and new initiatives.

Prior to working for ARC, Sarah was an AmeriCorps volunteer with the Montana Conservation Corps (MCC) in the Northern Rockies region of Montana for two years. Sarah is a metro Atlanta native from Jonesboro. She received a B.A. in Environmental Policy from Sewanee: The University of the South and a Master's in City and Regional Planning from Clemson University. She currently lives in Decatur with her husband, Jim and daughter, Eleanor.



**Charles Stover** – Charles Stover is the current President of Tri-Rivers. Charles is retired from a long career at Alabama Power where he was involved in many aspects of water resource management. A graduate of Auburn and Birmingham School of Law, he is a member of the Alabama Bar and a Registered Professional Engineer. Over the years he has been privileged to associate with many water professionals and stakeholders in all three states in efforts to solve the complex water issues facing the ACF region.



**Paul Thorpe** – Paul Thorpe serves as Bureau Chief for Environmental and Resource Planning at the Northwest Florida Water Management District. In this capacity, he helps coordinate agency activities for watershed management, water supply planning, and local government grant programs. Among recent accomplishments are updates to Surface Water Improvement and Management plans for all seven major watersheds in northwest Florida, continued management of the District's regional mitigation program, coordination of water quality improvement projects funded by the Natural Resource Damage Assessment, and technical assistance to the Florida Department of Environmental Protection in support of stream debris removal in response to Hurricane Michael. He has been with the District since 1994.



**Glenn Tootle** – Glenn Tootle joined The University of Alabama Department of Civil, Construction and Environmental Engineering in 2012. His primary area of research is paleo hydrology, climate, water resources and drought. He is currently funded by the National Science Foundation and Environmental Protection Agency on three projects totaling \$2.5 million and each project focuses on water in the Southeast United States. Glenn is a native of Florida with strong family ties to both Alabama and Georgia. He retired in 2013 at the rank of Captain from the United States Navy (USN) after a 25-year reserve career which included two post 9-11 recalls and serving as Commanding Officer of a USN Seabee Battalion.



**Billy Turner** – Billy Turner is the first Director of the Troy University Center for Water Resource Economics, taking that position in late 2013. Mr. Turner received his undergraduate degree in Chemistry from the University of Chattanooga and graduate training at UNC at Chapel Hill in Environmental Science and Engineering. He received added training in water resources at the University of Illinois and Cornell University. He holds an honorary Doctorate from Columbus State University.

In 60 years in the water industry, Mr. Turner has served in key positions in government, industry and the private sector. His initial employment was with the Tennessee Valley Authority followed by a few years with a pulp and paper company. He served as a VP with a large southeastern consulting firm for 15 years and then moved into utility management as CEO of Spartanburg, SC water utilities and then as President of Columbus Water Works from which he retired in 2009. Since retiring Turner has served as a consultant in utility management to several clients in the southeast. As a volunteer, Turner served on numerous Boards of Directors, including, WEF, AWWA, NACWA, WERF, Water ISAC and EPA's Financial Advisory Board. He was President of WEF in 1996-97. In addition to serving on numerous local Boards, Turner's recent activity has involved the Chattahoochee River Restoration Project and the ACF Stakeholders, both activities directed at improving water related opportunities in southeastern rivers.



**Matthew Waters** – Matthew Waters is an assistant professor of environmental science at Auburn University in the Department of Crop, Soil and Environmental Sciences. Dr. Waters leads the Auburn Paleo Environmental Lab where they utilize historic data recorded in lake sediments and cave environments to document ecological change throughout time. His research projects focus on the connectivity between alterations to landscapes from humans and other environmental parameters and how these changes impact aquatic ecosystems. He has studied lake ecosystems throughout the southeastern USA and Latin America.



**Jennifer Welte** – Jennifer Welte is a program manager in EPD’s Watershed Protection Branch. She manages the Regional Water Planning process and is responsible for the development of regulations for the Branch. Jennifer received a bachelor’s of science in civil engineering from Georgia Tech, and a law degree from Georgia State University. Jennifer has worked in the Watershed Protection Branch of EPD for over 15 years in a variety of roles, including water quality modeler and wetlands program manager (responsible for the issuance of 401 water quality certifications and EPD’s participation in Georgia’s compensatory mitigation program)



**Susan Wilde** – Susan Wilde is an Associate Professor at the University of Georgia in the Warnell School of Forestry and Natural Resources in Athens, Georgia. While previously employed as a research scientist within the South Carolina Department of Natural Resources Marine Resource Research Institute and University of South Carolina Baruch Marine Laboratory, she was focused on merging management concerns and targeted research to optimize management in critical and immediate aquatic natural resource problems. Dr. Susan Wilde’s research and teaching at UGA continues to focus on impaired aquatic systems and interdisciplinary challenges with invasive plants/animals, nutrient pollution, harmful algal blooms, emerging contaminants and their implications for fish, wildlife, and even humans depending

on these valuable water resources. She discovered a new species of cyanobacteria growing on invasive aquatic plants that is producing the neurotoxin responsible deaths of bald eagles and other aquatic wildlife in reservoirs across the southeastern United States. Collaborative field and laboratory research confirmed the food chain transfer of a novel cyanotoxin from the invasive plants to the birds and fish. Recent research demonstrated that the same toxin can be transferred by invertebrates and can cause impairment and fatality in reptiles and amphibians. She is already working with reservoir managers to eliminate the hydrilla/cyanobacteria in affected reservoirs including; Army Corps of Engineer reservoirs, US Fish and Wildlife Service Wildlife Refuges, Columbus Water Works, Georgia Power, Gwinnett County, Henry County and the Florida Fish and Wildlife Conservation Commission lakes. Dr. Wilde has a Bachelor of Science degree in Ecology, Ethology and Evolution from University of Illinois, Champaign-Urbana, IL, and Master of Science in Zoology and Doctor of Philosophy degree in Fish and Wildlife from the University of Georgia, Athens, GA.

## THINGS TO DO IN THE AREA

### **Callaway Gardens**

Pine Mountain, GA  
800-225-5292  
[callawaygardens.com](http://callawaygardens.com)

### **Civil War Naval Museum at Port Columbus**

1002 Victory Drive  
706-327-9798  
[portcolumbus.org](http://portcolumbus.org)

### **Coca-Cola Space Science Center**

701 Front Avenue  
706-649-1477  
[ccssc.org](http://ccssc.org)

### **The Columbus Museum**

1251 Wynnton Road  
706-748-2562  
[columbusmuseum.com](http://columbusmuseum.com)

### **Fort Mitchell**

561 AL 165  
Fort Mitchell, AL  
[visitfortmitchell.org](http://visitfortmitchell.org)

### **National Infantry Museum**

1775 Legacy Way  
706-685-5800  
[nationalinfantrymuseum.org](http://nationalinfantrymuseum.org)

### **Whitewater Rafting & Ziplining**

1000 Bay Avenue  
706-321-4720  
[whitewaterexpress.com/chattahoochee](http://whitewaterexpress.com/chattahoochee)

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