



Managing Florida's Aquifers: Annual Conference Groundwater Issues – ASR 17

Florida Hotel & Conference Center, 1500 Sand Lake Rd, Orlando, FL 32809
September 20 and 21, 2017
An American Ground Water Trust Annual Florida Program



CONTINUING EDUCATION

The AGWT will issue certificates of attendance




Approved - FL Prof Engineers Provider #306 – 12.75 PDH (Day 1 – 7.00/ Day 2 – 5.75 PDH) Course #0009165
Approved - FL Water Well Contractors 13 R/R (course #124-092017-101)
 Applied – FL Water Operators


PROGRAM SPONSORS



AMERICAN GROUND WATER TRUST (Non-profit education organization)
Ground Water Information, Awareness & Education Since 1986..... This is what we do:



- ~ 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





CONFERENCE SCHEDULE - Wednesday September 20, 2017

7:30 – 8:30 REGISTRATION

8:30 – 8:45

17 YEARS OF THE AGWT ANNUAL CONFERENCE – HAVE WE MADE A DIFFERENCE?

Andrew Stone, American Ground Water Trust, Concord NH

8:45 – 9:15

MARCO ISLAND UTILITIES ASR

Dr. Bruce Weinstein, Chemical Engineer, KLJ, Fort Myers, FL

9:15 – 9:45

CREATIVE DISPOSAL OF RO CONCENTRATE IN CENTRAL FLORIDA

Mike Weatherby, CEO, HydroGeo Consulting LLC, Tampa, FL & Mark McNeal, CEO, ASRus, Tampa, FL

9:45 – 10:15

ENVIRONMENTAL ISSUES AND CHALLENGES RELATED TO PROTECTING GROUNDWATER THAT SUSTAINS FLORIDA'S SPRINGS

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

10:15 – 10:40 BREAK

10:40 – 11:50 KEYNOTE PRESENTER SESSION



10:40 – 11:10

**SHARING FLORIDA'S GROUNDWATER:
AGRICULTURE, ECOLOGY, INDUSTRY, AND PEOPLE**

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



11:10 – 11:40

SOLUTIONS FOR WATER SECURITY IN FLORIDA

Dr. Ann Shortelle, Executive Director
St. Johns River Water Management District, Palatka, FL

11:40 – 11:45 KEYNOTE QUESTION AND ANSWER SESSION AMONG ALL PARTICIPANTS

11:45 – 12:45 LUNCH

12:45 – 1:15

REVIEW AND UPDATE ON THE STATUS OF ASR PROJECTS IN TEXAS

Aaron Collier, Vice President, Collier Consulting, Stephenville, TX

1:15 – 1:45

WATER SUPPLY COSTS OF INDIRECT POTABLE REUSE VIA AQUIFERS vs. DIRECT POTABLE REUSE

Chuck Drake, St. Johns River Water Management District Governing Board Member, Orlando, FL

1:45 - 2:15

ENVIRONMENTAL ISSUES RELATED TO FLORIDA'S DOMESTIC WASTE WATER DISPOSAL POLICIES

Christianne Ferraro, Environmental Administrator, Florida DEP Central District, Orlando, FL



2:15 - 2:45

**REGULATORY IMPEDIMENTS TO RECHARGING GROUNDWATER WITH RECLAIMED WATER:
SUGGESTIONS FOR RULE AND PROGRAM CHANGES TO IMPROVE THE PERMITTING PROCESS.**

Eric Olsen, Attorney, Hopping Green & Sams, Tallahassee, FL

2:45 - 3:15

**RECHARGE PROGRAMS FOR RECOVERY OF WATER USE CAUTION AREAS
DEVELOPING DISTRICT POLICIES THAT ENCOURAGE SOLUTIONS**

Donald Ellison, Senior Professional Geologist, Southwest Florida Water Management District, Brooksville, FL

3:15 - 3:30

BREAK

3:30 - 5:15

POTABLE REUSE – KEY TO FLORIDA'S WATER FUTURE - PANEL SESSION

When growth outstrips your natural resources, where do you turn to find the drinking water for the next 10 years of growth? Look no further than your wastewater plant! For over 30 years Florida has been the leader in beneficially using wastewater effluent/reclaimed water. However, public access reuse is not the highest and best use of our reclaimed water. The more effluent uses are included in indirect and direct potable reuse processes such as aquifer recharge, saltwater intrusion barriers, and recycled beer! Attend this session and you will understand how the City of Tampa, Hillsborough County and others are breaking ground in Florida to maximize the efficiency of reclaimed water through cost effective potable reuse programs, which include making DPR Beer (New Water Brew) to begin the public awareness campaign.

Panel Moderator

Bart Weiss, Director, Utilities Support Division, Hillsborough County Public Utilities Department, Tampa, FL

Presentation and discussion team:

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

David Adams, Environmental Manager, Public Utilities Department, Hillsborough County, Tampa

Gary ReVoir, Vice President, Tetra Tech, Inc., Orlando, FL

Jennifer Roque, Environmental Project Engineer, Tetra Tech, Orlando, FL

5:15 - 6:30

RECEPTION



CONFERENCE SCHEDULE Thursday September 21, 2017

7:30 – 8:15

REGISTRATION

8:30 - 8:45

UPDATE ON AQUIFER STORAGE AND RECOVERY AND AQUIFER RECHARGE IN FLORIDA

Florida Department of Environmental Protection, Tallahassee, FL

8:45 - 9:15

COLIFORM INACTIVATION DURING ASR CYCLE TESTING

Dr. June Mirecki, Senior Hydrogeologist, US Army Corps of Engineers, Jacksonville, FL

9:15 – 9:45

TROUBLESHOOTING AND REHABILITATION STRATEGY FOR FLORIDAN AQUIFER WELLS

Michael Dykes, Vice president, CH2M, Jacksonville, FL



9:45 – 10:15 KEYNOTE PRESENTER



9:15 – 9:45

**UPDATE ON EVERGLADES RESTORATION ENDEAVORS AND THE FUTURE
ROLE OF GROUNDWATER AND ASR AS PART OF THE MANAGEMENT STRATEGY**

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

10:15 - 10:45 BREAK

10:45 - 11:15

ASR FRONTIERS AND OPPORTUNITIES

David Pyne, President, ASR Systems, Gainesville, FL

11:15 - 11:45

**NORTH FLORIDA & SOUTHEAST GEORGIA (NFSEG) GROUNDWATER FLOW MODEL: APPLICATIONS AND
CONTROVERSIES**

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

11:45 - 12:15

**CYCLE TESTING RESULTS AND LESSONS LEARNED FROM THE CITY OF NORTH PORT/SOUTHWEST
FLORIDA WATER MANAGEMENT DISTRICT RAW WATER ASR PILOT PROJECT**

David Kelly, Senior Consultant, Cardno, Tampa, FL

12:15 - 1:30 LUNCH

1:30 - 2:00

WHY WE STILL NEED TO WORRY ABOUT ARSENIC IN ASR SYSTEMS

Dr. Gregg Jones, Water Resource Technical Director, Cardno, Tampa, FL

2:00 - 2:30

MODELING SALINE WATER RESPONSE TO RECHARGE WELLS

Kevin Vought, Modeling Engineer, Southwest Florida Water Management District, Brooksville, FL

2:30 - 3:00

ST. PETERSBURG CLASS I INJECTION WELLFIELD EXPANSION...GIT 'ER DONE!

Mark McNeal, CEO, ASRus, Tampa, FL

3:00 - 3:30

GROUNDWATER PROTECTION AND DEEP WELL FLUID DISPOSAL – PERCEPTION AND REALITY

Andrew Stone, American Ground Water Trust, Concord NH

