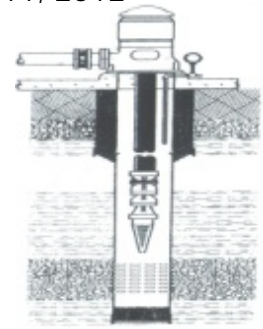


# AQUIFER RECHARGE CONFERENCE

## STATUS OF PROJECTS, ISSUES AND SOLUTIONS

This is the 12<sup>th</sup> annual aquifer recharge program with a focus on Florida  
Holiday Inn Hotel, Orlando Airport, Florida, September 10 and 11, 2012



A unique opportunity for information exchange among planners, water managers, engineers, geologists, hydrogeologists, utility operators, water re-use and aquifer recharge consultants, water treatment specialists, water well contractors, city and county government, regulatory authorities, environmental NGOs, water attorneys and interested citizens



CONTINUING EDUCATION  
The AGWT will issue certificates of attendance  
The Trust is an approved education provider for Florida Engineers



**American Ground Water Trust** (Non-profit education organization) *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

### ◆ Aquifer Storage Recovery and Related Programs ◆

Since 1999, the American Ground Water Trust has convened 31 conference programs that have featured aquifer storage. The Trust's mission-focus on resource sustainability and effective ground water management is the rationale for our promotion of information-exchange on water management issues and our showcasing of aquifer storage technologies.

There is a strong ongoing need to **educate the public, convince regulatory authorities and capture the imagination of water managers** about the economic and environmental benefits of creative use of sub-surface water resources and storage potential. Rising demand, ongoing drought conditions in many parts of the US and predictions of the hydrologic implications of climate change and associated sea-level changes more than justify increased attention to the benefits of aquifer recharge.

**"The AGWT annual aquifer program is always a great networking opportunity"**

PROGRAM - MONDAY, SEPTEMBER 10<sup>th</sup>

7:15 – 8:30 **REGISTRATION**

8:30 – 8:45 **WELCOME**

Tim Parker, Board Chairman, and Garret Graaskamp, Director of Programs, American Ground Water Trust, Concord, NH

8:45 – 9:00 **DEDICATION OF THE 2012 AGWT AQUIFER PROGRAM IN MEMORY OF JOHN POWERS**

Mark McNeal, CEO, ASRus LLC, Tampa, FL

9:00 -9:30 **OVERVIEW OF THE STATUS OF AQUIFER RECHARGE PROJECTS IN FLORIDA**

Jim Tully, Project Engineer, Jones Edmunds & Associates, Inc., Gainesville, FL

**Keynote Presentation**

9:30 -10:15 **CALIFORNIA COASTAL AQUIFERS: MANAGEMENT STRATEGIES INVOLVING RECHARGE**

Ted Johnson, Chief Hydrogeologist, Water Replenishment District of Southern California, Lakewood, CA

10:15 - 10:45 **BREAK**

10:45 - 11:15 **USGS RESEARCH: SEA LEVEL CHANGE IMPACTS ON GROUNDWATER**

Eric Swain, Research Hydrologist, US Geological Survey Florida Water Science Center, Davie, FL

11:15 - 11:45 **SEA LEVEL CHANGES: IMPLICATIONS FOR FLORIDA WATER RESOURCES MANAGEMENT**

Jayantha Obeysekera, Hydrologic & Environmental Systems Modeling, South Florida WMD, West Palm Beach, FL

11:45 -12:15 **PLANNING FOR SEA-LEVEL CHANGE IMPACTS IN SOUTHERN FLORIDA**

Jennifer Jurado, Director, Broward County Natural Resources Planning and Management Division, Plantation, FL

12:15 - 1:30 **LUNCH**

1:30 - 2:00 **ROLE OF AQUIFER RECHARGE IN PEACE RIVER'S MANAGEMENT STRATEGY**

Mike Coates, Director, Peace River Manasota Regional Water Supply Authority, Bradenton, FL

2:00 - 2:30 **LOWER FLORIDAN AQUIFER ASR IN POLK COUNTY - DEEPER IS BETTER**

Marty Clasen, Vice President, ASRus, LLC, Tampa, FL

2:30 - 3:00 **A SUCCESSFUL POLK COUNTY INJECTION WELL CAN LEAD TO ADDITIONAL WATER MANAGEMENT OPTIONS**

Mike Weatherby, Principal Hydrogeologist, MWH, Tampa, FL (co-author: Ed Rectenwald)

3:00 - 3:15 **BREAK**

3:15 - 3:45 **PUBLIC PRIVATE PARTNERSHIPS: A BETTER WAY TO MANAGE WATER IN FLORIDA?**

Kirk Martin, Vice-President, CDM Smith, Ft Myers, FL

3:45 - 4:15 **WHAT HAVE WE LEARNED FROM THE KISSIMMEE ASR PROJECT?**

June Mirecki, Geochemist, US Army Corps of Engineers, Jacksonville, FL

4:15 - 4:45 **REGULATORY UPDATE ON AQUIFER STORAGE RECOVERY PROJECTS IN FLORIDA**

Joe Haberfeld, UIC Program Manager, Florida DEP, Tallahassee, FL

5:00 - 6:30 **RECEPTION** (Cash bar)

**"Best value event for update on ASR projects, technology and regulatory issues"**

PROGRAM - TUESDAY SEPTEMBER 11<sup>th</sup>

**7:15 – 8:15 REGISTRATION**

**8:15 - 8:30 SUMMARY OF DAY ONE PRESENTATIONS & DISCUSSIONS**

**8:30 - 9:00 HYDRAULIC FRACTURING OF THE FLORIDAN AQUIFER FROM AQUIFER STORAGE AND RECOVERY OPERATION**

Christopher Brown, Asst. Professor of Water Resources and Env. Eng., University of North Florida, Jacksonville, FL

**9:00 - 9:30 WELL DESIGN & CONSTRUCTION FOR DEEP WELL INJECTION**

Edward McCullers, Injection Wells General Manager, Layne Christensen, Ft Myers, FL

**9:30 - 10:00 ASR POTENTIAL FOR POWER INDUSTRY WATER NEEDS**

Richard "Mike" Markey, Manager of Land & Water Programs, Gulf Power Company, Pensacola, FL

**10:00 - 10:30 BREAK**

**10:30 - 11:00 UPDATE ON THE LATEST AQUIFER RECHARGE ISSUES IN CALIFORNIA**

Tim Parker, President, Parker Groundwater, Sacramento, CA

**11:00 - 11:30 INVESTIGATING ARSENIC / MINERAL ASSOCIATIONS IN FLORIDA'S SUB-SURFACE**

Cindy Fischler, Geologist, FL Geological Survey, FL DEP, Tallahassee, FL (co-authors: Paul Hansard and Robert Cilek )

**11:30 - 12:00 CHEMICAL EVOLUTION OF ARTIFICIALLY RECHARGED WATER DURING STORAGE: ORANGE COUNTY, FL ASR FACILITY**

Paul Hansard, Geologist, FL Geological Survey, Tallahassee, FL (co authors: Cindy Fischler, Adel Dabous, and Jon Arthur)

**12:00 - 1:00 LUNCH**

**1:00 - 1:30 UPDATE ON OPERATION AND PERFORMANCE OF WATER CONSERV II: 25 YEARS OF COOPERATIVE WATER REUSE**

David MacIntyre, Vice-President, Parsons-Brinkerhoff, Orlando, FL

**1:30 - 2:00 RECLAIMED WATER FOR ASR: SUCCESS IN DESTIN, FL**

Richard Griswold, General Manager, Destin Water Users WRF, Destin, FL

**2:00 - 2:30 UPDATE ON THE FLORIDA PIONEER ASR PROGRAM AT MANATEE COUNTY - 30 YEARS OF HISTORY**

Bruce McCloud, Water Treatment Plant Superintendent, Manatee County Utilities, Bradenton, FL

**2:30 - 2:45 BREAK**

**2:45 - 3:15 SOUTH WEST FLORIDA WMD UPDATE ON ASR PROJECTS & RESEARCH: WHAT IS WORKING, WHAT ARE OUR REMAINING CHALLENGES?**

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

**3:15 - 4:00 UNREALIZED POTENTIAL FOR ASR IN FLORIDA (Presentations & participant discussion)**

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

**4:00 ADJOURN**

**"The AGWT is the national leader in promoting aquifer recharge"**

**Don't forget to sign-in and out (BOTH DAYS) if you require a certificate of attendance!  
Please leave your badge holder and completed evaluation form on the table when the conference is over.**