



# AQUIFER STORAGE ISSUES IN THE MID-ATLANTIC REGION

Harrah's Resort Atlantic City, 777 Harrah's Blvd, Atlantic City, NJ 08401  
March 23, 2009

Program sponsor



## Background

### WHAT IS THE CONFERENCE ALL ABOUT?

This is the American Ground Water Trust's 20<sup>th</sup> Conference focused on Aquifer Storage; bringing together scientists, engineers, planners, water-resource managers, concerned citizens, etc.

Conference presentations will address many issues, including:

- Making greater use of ground water storage potential
- Assessing the real economics of building storage dams
- Comparison of environmental impact of aquifer storage and non-aquifer storage solutions
- Updates on existing projects, the latest engineering designs and pilot testing results
- Legal and regulatory authority over water management options
- Where is the recharge water? (Recycle? Storm runoff? Desalination?)
- Aquifer management success stories from around the United States

### MAJOR CONFERENCE QUESTIONS

- Can aquifer recharge become a more significant part of the region's water management toolbox?
- What can we learn from states where water management includes aquifer recharge?
- If the hydrology and the engineering will work – is water available for recharge?
- Do we need new legislation or rules & regulations to facilitate artificial recharge?

7:30 – 8:30 **REGISTRATION** (Coffee and donuts)

8:30 – 8:40

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

***The American Ground Water Trust Position on Aquifer Recharge, Storage and Recovery***

8:40 – 9:10

### Morning Keynote Presentation

◆ **Vincent Monaco, P.E. - Asset Planning Manager,  
New Jersey American Water, Delran, NJ**

***Ground Water and Surface Water: Perfect Together  
[ASR makes the marriage!]***

9:10 – 9:45

◆ Mark Lucas, CH2M Hill, Philadelphia, PA

***The Use of ASR to Restore System Capacity***

9:45 – 10:20

◆ Joe Dugandzic, New Jersey American Water Company, Delran, NJ

***Lessons Learned from Fourteen Years of Operational Experience with a Successful ASR Program***

10:20–10:35 **BREAK**

10:35 – 11:10

◆ Gary Ziegler, Executive Director, The Wildwood Water Utility, Wildwood, NJ  
***Forty Years of Maximizing Water Resources with ASR Projects in the Mid-Atlantic Area***

11:10 – 11:45

◆ Robert G. Maliva, Schlumberger Water Services USA Inc., Fort Myers, FL  
***Hydrology of ASR and its Water Resources Management Benefits and Limitations***

11:45 – 12:20

◆ Cat Shrier, ***President, WaterCat Consulting, Washington DC***  
***Overview of the Water Use Management Programs for Mid Atlantic states***

12:20 – 1:10 **LUNCH / NETWORKING** (lunch provided)

1:10 – 1:45

◆ Jim Bailey, Principal Hydrologist, Kleinfelder, Bellevue, WA  
***Assessment of Recharge-Well Performance: Techniques for Development and Rehabilitation***

1:45 – 2:20

◆ Kent Madison, President, 3R Valve, Echo, OR  
***Maximizing Recharge Efficiency: Options for the Design and Operation of Recharge-Well Valves***

2:20 – 3:05

### **Invited Presentation**

◆ Lynn Stiles, Vice-President, NJHEPS; and Professor, Physics, Natural Science and Mathematics, Richard Stockton College, NJ; Aart L. Snijders and A. Willemsen, *IF Technology bv, Arnhem, The Netherlands*

***ASR and ATES (Aquifer Thermal Energy Storage): Similarities and Differences - an Update on the ATES Project at Richard Stockton College, Pomona, NJ***

3:05 – 3:50

### **Afternoon Keynote Presentation**

◆ **David Pyne, PE, President, ASR Systems, Gainesville, FL**

***National and Regional Perspective on the Economics of ASR as a Water Management Strategy***

3:50 – 4:40

**State Perspectives on Regulatory Issues related to Managed Aquifer Recharge/ Artificial Recharge/ Aquifer Storage Recovery etc.**

◆ Fritz Wise, Principal Environmental Specialist, Bureau of Nonpoint Pollution Control, Trenton, NJ  
***Logan Township MUA Demonstration Project Deep Well Injection for Treated Wastewater***

◆ Lisa Hoare, Senior Environmental Specialist, Bureau of Nonpoint Pollution Control, Trenton, NJ  
***New Jersey's Regulatory Perspective on Aquifer Storage and Recovery***

(Sodas/ juice will be available throughout the afternoon – there will be a few minutes break between each presentation)

4:40 End of Program