

~ **Conference Program** ~

Register on-line: <http://www.agwt.org/> Scroll down for program details

Let's make better use of our aquifers

AQUIFER STORAGE RECOVERY

How the Northwest can maximize water use by adopting Aquifer Recharge Strategies

Application of Science and Technology to Ground Water Management

Presented by

American Ground Water Trust - May 7th & 8th, 2008, Pasco, WA

Conference program is at the **TRAC Center**, 6600 Burden Blvd, Pasco, WA - Adjacent to Holiday Inn Express Hotel & Suites, Pasco-Tricities 4525 Convention Place, Pasco, WA 99301

(Reduced room rate available for Conference attendees)

Questions the Conference will answer:

- ◆ Can we continue to rely on snow-pack storage? ◆
- ◆ Does the Northwest have suitable aquifers? ◆
- ◆ What is involved and how does it work? ◆
- ◆ Design options and engineering criteria ◆
- ◆ The economics of water operations ◆
- ◆ Where will the water come from? ◆
- ◆ Northwest ASR success stories ◆
- ◆ What are the legal issues? ◆
- ◆ Who issues permits? ◆
- ◆ How to get started ◆

What the program is all about

This Water Management Strategies/ Aquifer Storage Recovery program (ASR) will bring together engineers, scientists, planners, water-resource managers, agency professionals, attorneys, concerned citizens, etc. to share up-to-date information regarding the challenges, feasibility, potential, regulatory concerns and the economic & environmental benefits of aquifer management strategies involving artificial recharge, aquifer storage and ground water management.

The program will provide an opportunity for all interested parties to hear about the latest progress and development in ASR from scientific, engineering, management and regulatory perspectives. The future of ASR technology applications in northwest states and provinces has huge significance for resource management, development planning, and ecological restoration. There are important, financial, institutional, legal and water quality issues that have to be resolved. The program will include presentations outlining the experience of policy makers in the northwest and will include reports on projects where aquifer recharge is already a significant part of the portfolio of water management tools.

Day 1 Program - Wednesday May 7th

9:15 Registration open. Exhibitor set-up

SETTING THE SCENE

10:15 -10:45

Andrew Stone, Executive Director, American Ground Water Trust, Concord, NH
The American Ground Water Trust and Its Position on Aquifer Management Options

10:45 – 11:30

David Pyne, President, ASR Systems, Gainesville, FL
Global Adoption of ASR Technology and the Diversity of Design and Operation Experiences

11:30-12:00 GUEST PRESENTATION:

Ken Slattery, Program Manager, Water Resources Program, Washington Dept of Ecology, Olympia, WA
Washington's Water Resources: The Role of Water Storage in Meeting Supply Demands

12:00 – 1:00 LUNCH

REGIONAL PERSPECTIVES AND LESSONS LEARNED

1:00-1:30

Phillip Brown, Hydrogeologist, Golder Associates Inc., Lake Oswego, OR
Current Status and Potential for Increased Development of Aquifer Recharge Projects in Washington

1:30-2:00

Joseph E. Becker, President, Robinson, Noble & Saltbush, Inc., Tacoma, WA
Lessons Learned from the OASIS Project in Federal Way Washington

2:00-2:30

Jeff Barry, Senior Hydrogeologist, GSI Water Solutions, Inc., Portland, OR
Current Status and Potential for Increased Development of Aquifer Recharge Projects in Oregon

2:30 – 3:00

Doug Geller, Senior Hydrogeologist, Summit Environmental Consultants, Vernon BC, Canada
Groundwater Management & ASR Opportunities in British Columbia and Western Canada

3:00 – 3:30

Bill Quinn, Technical Engineer, Planning Bureau, Idaho Water Resource Board, Boise, Idaho
Basalt Rock Units as Targets for Aquifer Storage in the Northwest – Experiences from the Eastern Snake Plain Aquifer

3:30 – 3:45 BREAK

3:45 – 5:15

REGULATORY OVERVIEW PANEL

How does policy impact implementation of recharge projects?

What are the issues related to project permitting?

- anti-degradation requirements
- recovery efficiency calculations
- priority calls on recharge sources

How to harmonize recharge/recovery regulations with existing policies

(Presentation from each panelist and then open discussion session)

Dave Nazy, Hydrogeologist, Water Resources Policy Section, WA Ecology
Ginny Stern, Hydrogeologist, Office of Drinking Water, WA Dept of Health. Tumwater, WA
Donn Miller, Hydrogeologist, Oregon Water Resources Department, Salem, OR
Representative, Idaho Department of Water Resources, Boise, ID (invited)

5:15 - 7:00

Meet the presenters, sponsors and exhibitors:
CASH BAR/ EXHIBITS/ DEMONSTRATIONS & PROMOTIONS
A short period of microphone time will be made available for event sponsors

Day 2 Program - Thursday May 8th

CONSIDERATIONS FOR ASR FEASIBILITY (HOW DO YOU KNOW IT WILL WORK?)

8:00-8:30

Tim Flynn, Principal Hydrogeologist, Aspect Consulting, Seattle, WA

ASR Water Right Challenges Associated with the Columbia River Water Supply Development Program

8:30-9:00

Terry Tolan, Senior Hydrogeologist, GSI Water Solutions, Inc., Kennewick, WA

What are the Geological Limitations for Aquifer Storage in the Columbia River Basalts?

9:00-9:30

Kent Madison, President, 3R Valve, Echo, OR

Twenty Years Experience of Operational Aquifer Recharge In Eastern Oregon

9:30-10:00

Bob Bower, Hydrologist, Walla Walla Basin Watershed Council, Milton Freewater, OR

Aquifer Replenishment Program for Water Storage and Salmon Recovery in the Walla Walla Basin

10:00-10:30 BREAK

NUTS AND BOLTS OF ASR

10:30-11:00

Tim Parker, Principal Hydrologist, Schlumberger Water Services, Sacramento, CA and Tom Missimer, Missimer Groundwater Science Inc., Fort Myers, FL

Instruments and Software Available for Aquifer Characterization, Modeling and Design for Optimization

11:00- 11:30

Tom Morris, Hydrologist, ASR Systems, Las Vegas, NV

Unique Design and Operation Differences Between a Regular Well and an ASR Well

11:30- 12:00

Scott Riegert, Regional Project Coordinator, Layne Christensen Company, Fontana, CA, and Tony Morgan, Manager of West Coast Operations, Layne Christensen Company, Fontana, CA

Drilling & Construction Techniques to Maximize Yield and Efficiency of Recharge and Recovery Wells

12:00 - 1:00 LUNCH & GUEST PRESENTATION:

Trish Carroll, Surface & Ground Water Program Lead, US Forest Service Pacific Northwest Region, Portland, OR and Christopher Carlson, Ground Water Program Leader, US Department of Agriculture Forest Service, Washington DC

The Critical Importance of US Forest Service Managed Lands for Source Water & Ground Water Recharge

END USERS' PERSPECTIVES

What are the costs? Where is the funding?

What are the consequences if there is no action to increase water availability?

What hurdles for recharge projects need to be removed by legislative action or agency rule-making?

Are there legal issues with regard to ownership of recharged water?

What are the water quality issues related to aquifer storage projects?

What is the potential for using waste-water treatment plants for source water?

1:00 – 1:30

Paul Stoker, Executive Director, Columbia Basin Groundwater Management Area, Othello, WA
Agricultural Interests in Increasing Regional Water Storage

1:30- 2:00

Scott Coffey, Project Manager, CDM, Bellevue, WA
Sammamish Plateau Water & Sewer District Pilot Testing Results

2:00 – 2:30

Bob Patterson, Director of Public Works, City of Pendleton, Pendleton, OR
City of Pendleton’s Aquifer Storage Recovery Experiences

2:30 – 3:00

Frank Nicholson, Water Systems Engineer, City of Walla Walla, WA
The Role of Recovery Efficiency In ASR Permitting In Washington State

3:00- 3:15

PROGRAM WRAP-UP

3:15

PROGRAM ENDS

Travel Distances to Pasco

To Tri-Cities From:	Miles	Time
Seattle, WA	227	3.5 hrs
Spokane, WA	140	2.5 hrs
Vancouver, WA	218	2.5 hrs
Wenatchee, WA	141	2.75 hrs
Yakima, WA	86	1.5 hrs
Pendleton, OR	68	1 hr
Portland, OR	213	3.25 hrs
Boise, ID	288	4.5 hrs
Lewiston, ID	133	2.75 hrs

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**

◆ The American ground Water Trust - Aquifer Storage Recovery and Related Programs ◆

Since 1999, the American Ground Water Trust has convened sixteen 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 programs on ground water management issues and our showcasing of aquifer storage technologies.

There is a strong ongoing need to 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. Ongoing drought conditions in many parts of the US and predictions of the hydrologic implications of climate change more than justify increased attention to the benefits of managed aquifer recharge.

REGISTRATION FORM (mail or fax)

**NORTHWEST AQUIFER MANAGEMENT (ASR) -
Pascoe, Washington, May 7th and 8th 2008**

On-line registration available at: <http://www.agwt.org/workshops.htm>

Sponsorship opportunities listed on the Trust's website

Conference program is at the **TRAC Center**, 6600 Burden Blvd, Pascoe, WA - Adjacent to
Holiday Inn Express Hotel & Suites, Pasco-Tricities 4525 Convention Place, Pasco, WA 99301

(Registration includes 2 lunches, breaks, and reception)

	Both days	Day 1 only	Day 2 only
Registration in advance of the event			
General Registration	<input type="checkbox"/> \$250	<input type="checkbox"/> \$175	<input type="checkbox"/> \$175
Government Employees (Federal, state, county, municipal)	<input type="checkbox"/> \$225	<input type="checkbox"/> \$160	<input type="checkbox"/> \$160
Employees of AGWT Corporate Members (\$250+Level)	<input type="checkbox"/> \$200	<input type="checkbox"/> \$150	<input type="checkbox"/> \$150
Full-Time Students(ID required at registration)	<input type="checkbox"/> \$130	<input type="checkbox"/> \$100	<input type="checkbox"/> \$100
Exhibit Table (6 foot table)(Personal registration <u>not</u> included)	<input type="checkbox"/> \$250		
CD of presentations (in PDF format - mailed post- workshop)	<input type="checkbox"/> \$ 15		
		Total	

[Walk-in registration 30% more than pre-registration]
Sponsorship opportunities listed on the Trust's website

PAYMENT: **Check** *[Make checks payable to: American Ground Water Trust]*
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Company/ Organization _____

Address _____

City _____ **State** _____ **Zip** _____

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Register by:

MAIL - American Ground Water Trust, 16 Centre Street, Concord, NH 03301
FAX - (603) 228-6557 TEL - (603) 228-5444 WEB – www.agwt.org