March 2018

WHAT'S HAPPENING AROUND THE WATER COOLER?

AMERICAN GROUND WATER TRUST Water issue programs and education since 1986

AGWA-AGWT Annual Conference

The first American Ground Water Trust and Association of Ground Water Agencies joint conference was held in Ontario, CA in 2000. Since then, this annual event has provided an important information exchange and networking opportunity for California's water agencies, utilities and water districts, and for all water professionals (scientific, engineering, managerial, legal, environmental, regulatory), end-users of water, and local and state elected officials involved with water policy issues. The focus of every program is on current groundwater management issues in California.



Dr. Katie Mika, Water Policy Advisor to Los Angeles Mayor Garcetti's Office of Sustainability was a keynote speaker at the 2018, AGWA-AGWT Conference.



Dr. Mika's conference presentation was on the difficulty of balancing plans to increase storm water capture and wastewater reuse with impacts on flow in the Los Angeles River. The basic policy dilemma of recharging aquifers by keeping water out of the river or leaving water in the river in order to restore river ecology.

A "legal issues" panel was among the eight panel-sessions at the 2018 conference. The challenges of implementing California's

Sustainable Groundwater Management Act (SGMA) was a major conference topic. The legal panel, left to right, Stefanie Morris, Best Best & Krieger; Toby Moore, Golden State Water Company; Bob Page, County of San Bernardino; Peter Kavounas, Chino Basin Watermaster and Brad Herrema, Brownstein Hyatt Farber Schreck.

Water Crisis In Cape Town – Could It Happen Here?

When surface water dries-up – groundwater is the usual solution. The emergency drilling for groundwater that is taking place in Cape Town should have been implemented several decades ago. South Africa has the in-country scientific and technological expertise needed for long term water supply planning and engineering but has not overcome the procrastinating short-term political myopia that has prevented the necessary investment to quantify groundwater resources.



LEVEL SIX WATER

Cartoon credit: Rico2018@NCA.com



Some of our Upcoming Events:

> Groundwater Contamination Montclair, CA

Source Water Protection Concord, NH

Teacher Institute Nebraska City, NE

> Aquifer Conference Austin, TX

www.agwt.org/events

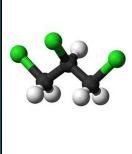
WATER TOPICS FOR TEACHERS GROUND WATER INSTITUTE FOR TEACHERS™ May 30-31, 2018, Kimmel Education Center, Nebraska City, NE



The American Ground Water Trust has organized over 70 training programs for teachers in 17 states attended by close to 2,000 teachers and educators. This great learning, training and information-exchange opportunity for Nebraska teachers (Now the third year in Nebraska City), is organized in partnership with the Kregel Windmill Museum, and in cooperation with the **Groundwater Foundation. The Kregel Windmill** Museum is a "frozen in time" treasure trove of a windmill (wind pump!) manufacturer. Well worth a visit. (www.kregelwindmillfactorym useum.org).



The AGWT approach at Groundwater Institutes is to show teachers through class sessions, discussions, demonstrations and handouts; the importance of groundwater and how to integrate water topic subject matter into existing curricula and traditional subject areas. Emerging Contaminants - Assessment & Solutions An educational information-exchange workshop program from The American Ground Water Trust Wednesday March 21, 2018







Hosted by Chino Basin Water Conservation District, Montclair, CA Focus on: Perfluorochemicals, and 1,2,3-Trichloropropane Problem assessment and treatment strategies.

New Hampshire Department of Environmental Protection and American Ground Water Trust NH DES Drinking Water Source Protection Workshop May 17, 2018 Grappone Conference Center, Concord, NH



The event is a forum for presenting innovative water resources research, sharing information on local protection projects, and training municipal and water professionals. It is designed for water industry professionals,



land use planners, members of environmental and watershed organizations, conservation commission members, town selectmen, municipal staff and elected officials.



TEXAS AQUIFER CONFERENCE American Ground Water Trust Annual Texas Groundwater Conference "Everything Aquifers and Groundwater Management" 2 Day Conference - June 6 and 7, 2018

This program will bring together engineers, scientist, planners, water-resource managers, agency professionals and attorneys to share up to date information regarding the challenges, feasibility, regulatory concerns and the economic and environmental benefits of water management strategies for Texas.

To sign up for these and other events, visit:

www.agwt.org/events *Check for Continuing Education Credits



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AGWT SCHOLARSHIP OPPORTUNITIES

Ground Water Education Since 1986

If you are interested in offering a scholarship in your company name, please contact AGWT. We will administer the program, advertise the scholarship and select award winners. The amount that you provide for a scholarship is "passed through" in full.

Scholarship opportunities are for entry level college students intending to pursue a career in the field of groundwater.

Our Scholarship Sponsors are:



MEET OUR NEW BOARD MEMBER

We are proud to announce that Kriss Schneider, President, Schneider Water Services, St Paul, Oregon has been elected to serve a three year term as an American Ground Water Trust Board member.

"I am excited to be a part of an organization that communicates and promotes the great importance of efficient and effective groundwater management. The AGWT is such a great resource for those who want to make a difference in such a valuable and critical natural resource."

Schneider Water Services began as a local pump and irrigation equipment dealer in 1945 and has grown into a comprehensive service provider for water systems markets throughout the Northwest including pumps, pump controls, well design, drilling and maintenance. Welcome aboard Kriss!

AGWT 2018 Board of Directors

Chairman: David Kill, PE, St Paul, MN - Training Consultant, Xylem Goulds Water Technology Secretary/Treasurer: Fred Rothauge, Fort Lupton, CO - Manager, Hydro Resources Hughbert Collier, PhD, PG, Stephenville, TX - Senior Vice President, Collier Consulting Stephen Cullen, PhD, PG, Santa Barbara, CA – Senior VP/Principal Hydrogeologist, DBS&A Chuck Hammock, Jr, PE, Macon, GA - Professional Engineer, Andrews Hammock & Powell, Inc. Kevin McGinnis, Lubbock, TX - President, Cotey Chemical Tony Morgan, PG, Santa Paula, CA - Deputy General Manager, United Water Conservation District Ron Peterson, Salt lake City, UT - Senior Account Representative, Baroid IDP Todd Peterson, Old Greenwich, CT - Private Equity Lawyer, New Market Solutions Kriss Schneider, St. Paul, OR - President, Schneider Water Services Nicolas Steverlynck, Scottsdale, AZ - President, Hose Solutions, Inc.

Did you know that the expression *talking at nineteen to the dozen* has its origins in water pumping?

Back in the early 18th century, flooding from groundwater inflow was a big problem in the tin mines of Cornwall, England. In 1712, an engine was invented by Thomas Newcomen that could drive mine dewatering pumps. Called a Cornish Beam Engine, the system used a steam cooling process that worked a cylinder connected to a beam. The beam was connected to a rod that operated a pump down in the mine. The steam engines were driven by burning coal, and when working at maximum speed could pump about 19,000 gallons from 12 (a dozen) bushels of coal. (*Nineteen to the dozen*). Assuming a bushel of coal weighs about 80 pounds (lbs.) then the energy efficiency of the pump was about 20 gallons for every pound of coal.





ABOUT AMERICAN GROUND WATER TRUST The AGWT mission is to increase awareness about water resources issues, particularly those that involve groundwater.

By convening and organizing conferences, workshops and focused training programs, the AGWT:

- Promotes efficient and effective groundwater management
- Showcases groundwater science and technology solutions
- Increases citizen, community and decision-maker awareness
- Facilitates stakeholder participation in water resource decisions
- Communicates the environmental and economic value of groundwater
- Provides a safe haven to discuss "difficult" issues

Since 1999 the AGWT has convened over 250 "information-exchange" Conferences and workshops dealing with groundwater issues, and has organized over 70 Groundwater Institutes that have trained over 2000 teachers and educators on water resources issues and the basics of hydrology. The AGWT has a proven track record in education and communication, with training programs for industry professionals and workshops and conferences that frame and address important regional water issues.

Speakers at our workshops and conferences are industry and agency experts, providing key updates on projects, technology innovations and the regulatory framework that allows for the development and protection of groundwater.

If you have suggestions for groundwater topics and issues for which AGWT public education programs can be of assistance, please email: Andrew Stone, Executive Director - astone@agwt.org

BECOME A GROUNDWATER EDUCATION SUPPORTER

AGWT Membership and event Sponsorship provides you with an opportunity to get your name in front of the public, groundwater end-users, industry professionals and the decision-makers who are targets of the AGWT's education events and programs. We recognize supporters via our web-site, social media, at our events and in our program-related publicity.

The AGWT's website receives over 120,000 unique visitors each year, viewing a total of 510,000+ pages – and receives over 3,800,000 hits. AGWT's eNewsletter is sent to over 30,000 industry constituents. Over 50,000 program announcements for AGWT programs are sent per year through multiple channels (print, email, mail, and social media). This figure is multiplied because most of our announcements also receive third-party forwarding via internet connections and by the organizations that we involve as program partners. The AGWT You-Tube video on water well drilling that can be accessed via our website receives 750 views every day with total viewing now in excess of 2,690,000!

Connect with us!



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