

AMERICAN GROUND WATER TRUST NEWSLETTER

Fall 2021



American Ground Water Trust Featured in World Water Week Program

The Annual Stockholm Water Conference (World Water Week) is a major event for water professionals worldwide. The 2021 week-long event in August had 13,000 participants from 188 countries. Because of Covid concerns, the event was held in virtual format for the presentations and speeches. The American Ground Water Trust participated in a session on education and outreach with a presentation outlining its educational initiatives and programs. The principal emphasis of the AGWT presentation was to urge water managers and groundwater end-users to embrace and adopt the many technological innovations that are available to more accurately assess and access groundwater. Specific reference was made to advances in geophysics, well design and construction, data platforms, groundwater models and correct selection of high-yield pumps.

Pictured below is the team representing eight different countries who were successfully linked up via Zoom for the presentations and panel discussion on the importance of groundwater for sustainable development.



In closing remarks to the Week, Torgny Holmgren, Executive Director of the Stockholm International Water Institute (SIWI), said that next year's World Water Week will have a special focus on valuing water. *"If we continue to underestimate the value of water, we will fail to manage it properly. We will look especially at the invisible water, like groundwater, that we might not be aware of but that is critical to our survival,"*

CALENDAR

Schedule of our upcoming events:

Florida Groundwater Conference
Orlando, FL
September 28-29

New Mexico Groundwater Issues Webinar
October 12-13

Managing PFAS at Source
Webinar October 20

Canadian Maritime Provinces Water Well Technology
Webinar November 2

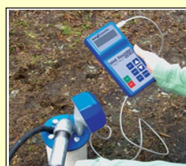
Colorado Groundwater Issues Conference
Denver, CO November 9-10

Technical Workshop High Capacity Wells
Lakewood, CA December 1

Updates & Solutions PFAS Contamination Workshop
Lakewood, CA December 2

Geophysics for Groundwater
Webinar, Jan 12 2022

Annual California Groundwater Conference
Ontario, CA
February 15-16, 2022



The American Ground Water Trust is a 501 (c)(3) non-profit organization

www.agwt.org/events

Visit our website for program details, registration and sponsor & exhibit opportunities for all AGWT education/conference/workshop/webinar programs.

Recognition of the service of Bob Longenbaugh and Neil Mansuy

(Andrew Stone, AGWT Executive Director)

Since our last Fall Newsletter, the groundwater industry has lost two education icons. Neil Mansuy, (64) Vice-President at Subsurface Technology passed away in May his year and Bob Longenbaugh, (84) retired water engineer and former professor at Colorado State University, passed away in October last year. I considered both to be personal friends and were key players as volunteer presenters in many of the American Ground Water Trust's outreach and education programs over the last three decades.

Neil was a presenter at the first American Ground Water Trust (AGWT) workshop on water well rehabilitation held in Baltimore in 1998. Since then, he participated as an expert at many of the 80+ AGWT workshops and webinars focusing on the science and technology of diagnosing and solving well performance problems. I'm sure the thousands of people who have participated in Neil's workshops and seminars for many organizations have all been able to elevate their professional work because of his skill at explaining how well design, installation and operation impact chemical and biological processes that can lead to declining well performance.

I first met Bob Longenbaugh in Kansas City some 30 years ago when he attended an AGWT workshop on training schoolteachers about the importance of groundwater. I remember him saying *"kids know far too much about dinosaurs and not enough about where our water supply comes from."* Bob helped the AGWT organize our annual Colorado Groundwater Conference where he was a frequent presenter, sharing his extraordinary depth of knowledge about Colorado's hydrology and complex system of water rights and groundwater governance.

Both men were passionate about promoting groundwater education and were excellent communicators. The AGWT, and the groundwater industry have lost two great ambassadors who understood the importance of professional development and the need for reaching out to decisionmakers to promote "science as the basis for policy."



Robert Longenbaugh
November 1935
October 2020



Neil Mansuy
September 1956
May 2021

American Ground Water Trust 2021 Scholarship Awards

\$2,000 award to Macy Downs of Plains, TX attending West Texas A&M University, TX
Sponsored by Stetson Engineering (Thomas M. Stetson Scholarship), California



\$2,000 award to Emily Chang of Charlottesville, VA attending the University of Virginia, VA
Sponsored by Baroid Drilling Products, Texas



\$1,000 award to Jillian Parrino of Garden City Park, NY attending Cornell University, NY
\$1,000 award to Jamie Eichmiller of Pittsburgh, PA attending Chatham University, PA
Sponsored by Flexcon Industries, Massachusetts



AGWT CORPORATE SUPPORTER CORNER

FEATURING



Clean Harbors is a corporate supporter of the AGWT's education mission. Over the last few years Clean Harbors experts have been regular presenters at AGWT workshop and webinar programs focused on managing PFAS contamination.

Clean Harbors is a leading provider of environmental and industrial services. The Company serves a diverse customer base, including most of the Fortune 500 companies. Its customer base spans a number of industries, including chemical, and manufacturing, as well as government agencies.

Clean Harbors delivers a broad range of services such as end-to-end hazardous waste management, emergency spill response, industrial cleaning and maintenance, and recycling services.

The company has its HQ in Norwell, Massachusetts, and was founded in 1980. The company has facilities and service locations throughout all 50 states in the US and is a leading provider of environmental, energy, industrial services and hazardous waste management services throughout Canada and Central America.

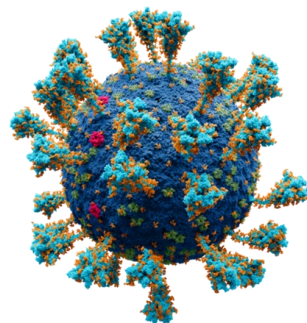


AnnieLu De Witt, Clean Harbors expert on PFAS chemistry and frequent presenter at AGWT programs.

“VIRTUAL or IN-PERSON”

Virtual or in-person is the 2021 dilemma for the American Ground Water Trust and for many organizations planning conferences and workshops. The timeline for planning events is much longer than the time frame of Covid 19 surges. The AGWT policy for in-person events is to follow local and state protocols for public meetings. If the requirements are too restrictive, we will convert from in-person to virtual. During 2020 and up to now, the AGWT has organized 26 education programs in virtual (webinar format) and 5 in-person programs.

Let's hope 2022 can be “back to normal” with in-person workshops and conference programs.



AGWT Director to receive award from National Ground Water Association

David Kill, PE, Education Consultant to Goulds Water Technology, will receive the Robert Storm Intersectional Cooperation Award at the Groundwater Week in Nashville, Tennessee in December.

David's volunteer work as an AGWT Board Member and frequent workshop and webinar presenter, are examples of his contribution *“to promoting collaboration, enhancing cooperation, and fostering community among all groundwater professionals”* which is the principal basis for this NGWA annual award recognition.

David will be speaking at the AGWT December 1st “Well & Pump” workshop program in Lakewood, CA.



DID YOU KNOW THAT WILD DONKEYS DIG WELLS?

Herds of wild horses and donkeys roam deserts and do something that is beneficial, not just for themselves but for many other animals—they dig wells to get water. A new study (*SCIENCE*•30 Apr 2021•Vol 372, Issue 6541) describes how these feral animals can dramatically increase water availability in dry and desert areas.

The wells dug by donkeys or horses (which the study calls “ass holes”), were found to provide almost 60 other species with a water source, including numerous birds, mule deer, mountain lions, and even black bears. The feral donkeys and horses can dig wells to depths of six feet, and once the “wells” dry up, they may become nurseries for the germination and establishment of wetland trees.



AMERICAN GROUND WATER TRUST

AGWT's mission is to increase awareness about water resource issues, particularly those that involve groundwater

By convening and organizing conferences, workshops, webinars 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



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WAYS TO SUPPORT GROUNDWATER EDUCATION

AGWT has been providing objective information about groundwater and water resources for over 30 years. While many of our events are self-funded, in order to meet our mission and provide an independent voice over groundwater issues, we rely on the generosity of individuals and companies. You can help increase our educational impact in several different ways.

- ◆ Becoming an individual or corporate member
- ◆ Sponsoring and exhibiting at an AGWT event
- ◆ Hosting a program for teachers (We have trained over 2,000)
- ◆ Sponsoring a scholarship in the name of your company/organization
- ◆ Underwriting specific direct costs such as:
Computers, website maintenance, printing, travel, etc.

AGWT Events



INVEST IN THE AMERICAN GROUND WATER TRUST

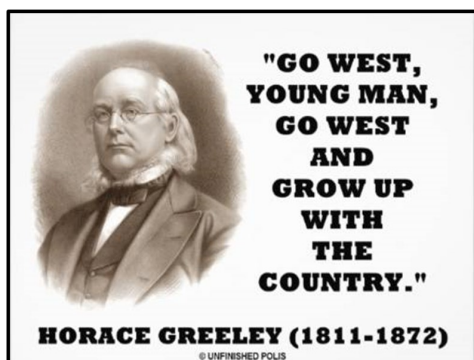
A 501(c)(3) non-profit education organization

Our Patron Sponsors (Investors at \$5,000+)



Our water well video "How a Water Well is Drilled" has now had over 3.8 million views on YouTube.

Are we beginning to see climate-induced migration within the US?



Then



Now



"GO NORTHEAST YOUNG MAN, THAT'S WHERE THE WATER IS, NO EVERLASTING DROUGHT, NO FIRES, NO EARTHQUAKES."