

UTAH GROUND WATER ASSOCIATION

The Advocate
AUTUMN 2013 EDITION

LETTER FROM THE PRESIDENT

JASON LAMB — BOART LONGYEAR

Hello Everyone. The board and I recently met for our 4th quarter meeting and mainly discussed the 2014 Conference and Expo. I have to admit it is shaping up to be another great show. We actually have received more vendors that would like to attend and Colette has amazingly rearranged things to make more room for them. Way to go Colette! It is getting exciting. If you haven't already, go to our website and register. All the information you need to sign up is there along with hotel information. I look forward to seeing you all there.

Not sure if any of you are Nascar fans. I watch an occasional race but can't consider myself a diehard fan. Nascar has come up in recent discussion over the past year and I recently heard a talk on the matter involving pit stops. As you all are aware, the goal in the water well industry is zero accidents as with any industry. I have to admit I was one of the skeptical ones years ago and to even some degree recently about the possibilities of having zero accidents. I use to think to myself that the people that come up with this stuff have probably never been on a rig or around water well equipment in general, and these things just happen. That is why they call them accidents. But over time I can testify that there are a growing number of us witnessing a cultural change as we speak and we don't do things the same way we used to. We're smarter, faster and slower, and tired of breaking things and hurting ourselves and those around us. But could we actually ever get to a drilling state where there are zero accidents?

Back to Nascar. Back in the day (1960's & 1970's) pit stops averaged in the low to mid 30 seconds per stop. We were told on national TV that this was a record and "you will never see anybody do it faster than this crew or that crew". Then the 80's came and the pit stops crept down into the 20's and again we were told "you will never see anyone pit faster than that". Then came the 90's and we witnessed pit stops in the mid to high teens and thought to ourselves "man that is fast, nobody will ever do it faster than that". Today, it appears that crews and cars are pitting below 10 seconds. To shave that

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LETTER FROM THE PRESIDENT (CONTINUED)

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many seconds off is not impossible, it just takes a team and a thought process outside the box. If you were part of a pit crew back in 1960 your way of thinking about the task would be completely different than it would be today even though the goal has not changed. Not that anything was done wrong or in poor judgment back then, but if you were constantly trying to figure out safer and quicker ways of achieving the task at hand, you were bound to get quicker and just as safe. Fast forward to 2013 and we have living proof that yes it can be done faster and just as safe if not safer.

So....is it possible to have zero accidents or a 1 second pit stop? I honestly believe so. It takes a constant want to achieve better results and in time you will see the difference without a doubt. That said....I wish you all the utmost safety in your daily activities along with a little prosperity to go with it.

On a different note I wanted to extend my condolences to Ray 'Slim' Dickey (Slim Tech, Evanston, WY.), and his family. Slim recently lost his wife who had been battling with cancer. Please keep him and his family in your prayers.

Until we talk again.

Until we talk again,
Jason Lamb

UGWA 2014 Conference & Expo

Group Code 182014
\$34 Wednesday & Thursday
\$45 Friday & Saturday

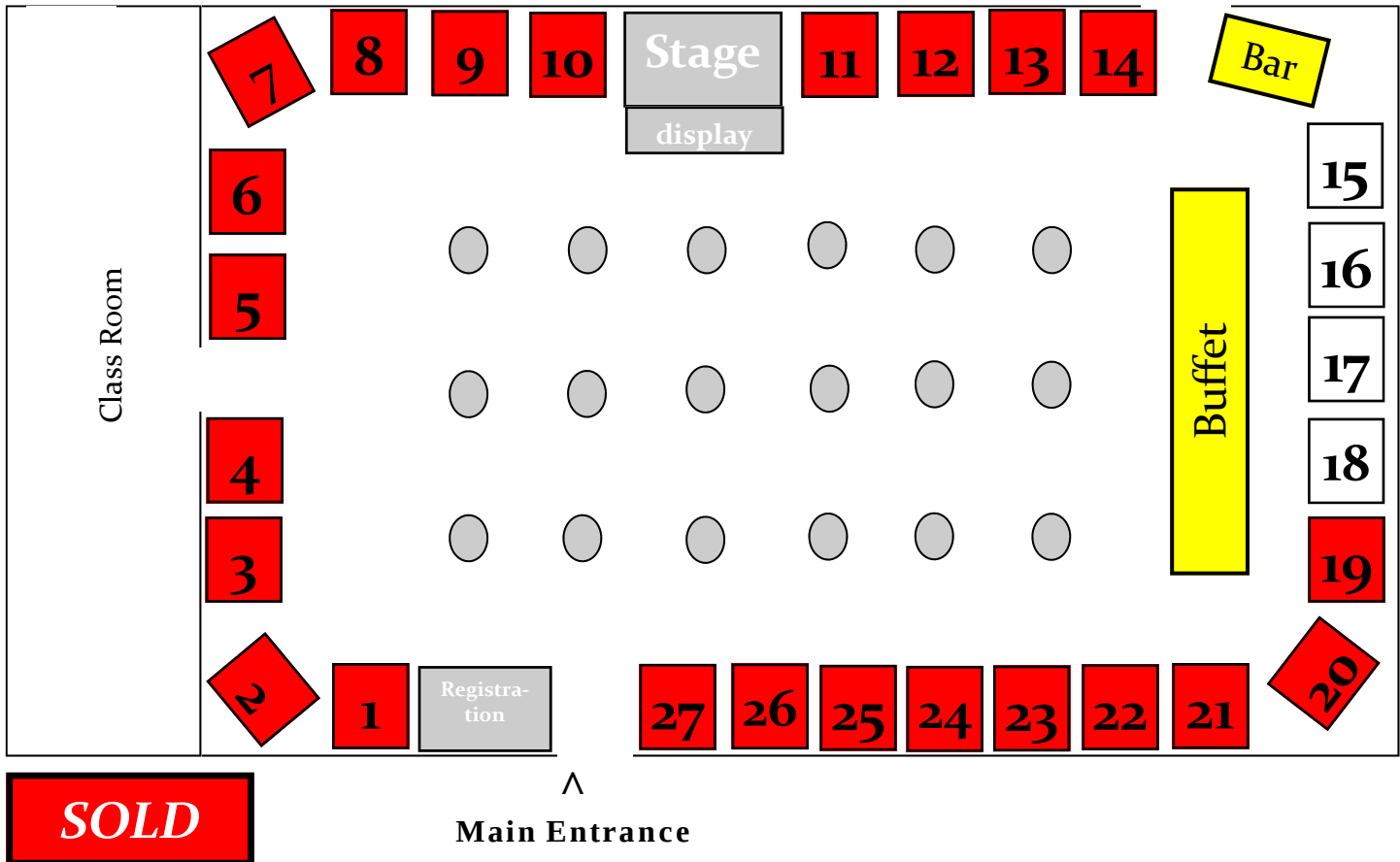


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UGWA Annual Membership	\$60	\$60	\$_____
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Member Registration	\$140	\$200	\$_____
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(attach additional employee names & email addresses)

Non-Member Registration	\$200	\$275	\$_____
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Non Displaying Vendor	\$300	\$350	
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Golf Tournament (9 holes)	\$45	N/A	\$_____
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Spouse Meal Tickets *(Those Not Attending Classes)*

Banquet Dinner/Auction Only	\$35	\$35	\$_____
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All Three Meals	\$70	\$70	\$_____
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Questions: 801.541.7259 or admin@utahgroundwater.org

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It's Fast Easy & Here's How....

Go to: www.utahgroundwater.org

Select "Register Now" on the home page under "34th Annual UGWA Conference & Expo"

Account Login: Log into your account (your login is your email address or your first initial followed by last name all lower case. Example: Jason Lamb is jlamb).

If this is your first time logging in or do not know your password select "Forgot username/password?" you will be asked to enter the email address we have in our system. Reset instructions will be emailed to you. If you get an error that says to contact me, you either entered an email address we do not have on file or you are not a current member.

Select Registration Options: Select items and quantities as desired. We, also recommend you renew your membership. The system will prorate your individual balance due through June 30th. Continue to follow the steps through payment to complete your registration.



3rd Annual Golf Outing *at the* UGWA Conference & Expo

Join us Thursday, January 9, 2014 for 9 holes of golf, fun and prizes! Tee times begin at 7:30am, but space is limited!

Signup is available with your Conference/Expo registration at www.utahgroundwater.org.

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LETTER FROM THE MEMBERSHIP VP

JIM WANKIER — MITCHELL LEWIS & STAVER

Well once again we have another wonderful addition of the UGWA Advocate Newsletter; this is actually a great resource and benefit to all the members of the UGWA. Make sure that you read all of the articles; they are always filled with helpful information and usually a closer look into the lives of the board members and members alike. Also take advantage of the advertising that appears in the Advocate; here you will recognize and can support the many vendors that support the UGWA and the ground water industry. In the back of every issue there is a membership application form that can be used to recruit anyone that is interested in joining the UGWA. You can hand this out to anyone that you know that might benefit and/or contribute to the organization. Once you have had the opportunity of reading the Newsletter pass it along to someone else to who may also enjoy it. This will give them an opportunity to take advantage of the articles, the advertising, and the membership form. This is just one way the each member can participate in finding new members to join our organization. You can also direct them to the website, www.utahgroundwater.org for more information about the UGWA.

In the last issue of The Advocate there was a list of all the scholarship winners; Kyler Goddard, McKinzie Lowry, Michael Nordhoff, Rustin Player, and Racheal Ritter. I would like to express my congratulations to them once again and wish them the best in their educations. Every year there is a tremendous amount of work, and debate that goes into this program offered by the UGWA, not to mention all of the generous contributions from the members. As an organization, we love and support these young people as they pursue a higher education. We realize the important role they will play in the future, not only for themselves and the public in general, but for the future of the Ground Water Industry. Right now many of them need you and your generosity to help them into or through school, but in the future it will be us that needs them as they implement all the things that they have learned and become, never forgetting the good folks of the UGWA that helped them get there. Congratulations once again to all the scholarship recipients, and a special thanks to all of you members who make this program possible.

2013 has proven to be a challenging year for many, with ups and downs in business, to personal challenges and the loss of loved ones. And on the other hand there have been wonderful new opportunities that have made the year the best ever. No matter what the situation may be for you, I hope the coming year is the very best and prosperous ever. Thanks again for all that you do to support the UGWA and the wonderful organization that it is. Oh, and don't forget to mark your calendars on January 9th and 10th for the 34th annual UGWA Conference and Expo in Mesquite Nevada. Registration is open at www.utahgroundwater.org so get registered and we will see you there!!!

Jim Wankier
VP Membership
Utah Ground Water Association

The 2014 McEllhiney Lecture Joins Us in Mesquite!



Carlos E. Molano, PE, has 30 years of experience in groundwater engineering and environmental hydrogeology. Cofounder and president of Hidrogeocol (formerly Hidrogeología Colombiana Ltd.) with headquarters in Colombia, Ecuador, and Panama, he is also a professor of groundwater flow and pollution in the Department of Civil and Environmental Engineering at Los Andes University in Bogota.

During the 1980s, Molano was a pioneer in groundwater modeling and electrical resistivity tomography. He brought to his country of Colombia the first hollow-stem auger rig and direct-push technology equipment. He developed the first operational artificial recharge project, along with the first groundwater monitoring and remediation solutions using modern technologies.

In 2012, Molano received the Distinguished Latin-American Hydrogeologist Award from the Latin American Association for Groundwater Development. His colleagues describe him as “an engineer, an outstanding hydrologist, an enthusiastic supporter of new ideas, a heroic field environmental professional in spite of political and economical adversity, a poet and a philosopher of nature.”

An NGWA member since 1981, Molano’s passion for developing techniques for teaching groundwater, both to students and practitioners, led him to develop this lecture on groundwater spreadsheets. He also developed a short course on this subject, which is well known in Latin America.

Molano holds an M.S. in civil engineering from Los Andes University in Bogota, Colombia, and an M.S. in engineering hydrology from the International Institute for Hydraulic and Environmental Engineering in Delft, Holland.

Groundwater Spreadsheets: Efficient and Practical Resource for Solving Simple and Complex Flow, Pollution, and Environmental Problems

Attend Carlos E. Molano’s lecture and discover how you can use spreadsheets—in simple form without any programming or complex mathematics—to solve a wide range of groundwater problems.

Whether you’re a water well contractor, groundwater scientist, administrator, consultant, ecologist, environmental engineer, water resource planner, or student, you will benefit from learning how to apply “classic” hydrogeology concepts to “modern” hydrogeology concepts such as climate change, global warming, ecohydrology, sustainability, environmental risk assessment, and remediation, through the use of the spreadsheets presented. While various groundwater applications are presented mainly for Latin America (from pre-Columbus and pre-Inca times to current times where very often there is a lack of data and other resources), they can also be used all over the world to learn how some cost-effective solutions may be applied for many other situations.

Groundwater spreadsheet topics include, but are not limited to:

- Pumping and slug tests, step drawdown and intermittent tests
- Analytical and numerical solutions for groundwater flow and pollution problems
- Delineation of capture zones, forward and inverse particle tracking for groundwater contamination
- Hydro-geochemical analysis
- Earth resistivity soundings interpretation
- Land subsidence
- Flow system analysis and impact of climate change in groundwater resources.

FROM THE STATE ENGINEERS OFFICE
PREPARED BY THE UTAH LEGISLATIVE RESEARCH OFFICE
SUBMITTED BY JIM GODDARD

HOW IS UTAH'S WATER USED?

On average, Utah annually consumes about 2.6 million acre-feet of the 3.3 million acre-feet of water available for consumption. This leaves approximately 0.7 million acre-feet of unused water, which flows to surrounding states. This unused water, a portion of which is Utah's unused Colorado River allotment, is available for future development and use in Utah.

Water "Use" – Diversion vs. Consumption/Depletion – Return Flow

To understand water "use," it is important to distinguish between diverted water and consumed or depleted water and to understand the concept of return flow.

Diverted water is water withdrawn from a natural water system and put to use. **Consumed or depleted water** is that portion of diverted water that is consumed by plants, humans, or livestock and not returned to a water system. **Return flow** is that portion of diverted water that is not consumed or depleted that returns to the natural water system.

For example, water that flows out of a canal or other water system for agricultural use, such as crop or livestock production, is diverted water. Consumed or depleted water is that portion of the diverted water that evaporates, is transpired by plants, is incorporated into crops, or is consumed by livestock. Return flow is that water that is not consumed by crops or livestock and returns to the natural water system (e.g., water absorbed into the soil but not consumed by plants, or excess that runs off the end of the field).

Another example of diverted water is water piped to a residential property for domestic use. Consumed or depleted water is that portion of the diverted water that is consumed by humans or animals or that is absorbed or transpired by plants. Return flow is that portion of diverted water that returns to a water system (e.g., water that runs down the drain into a wastewater system, is treated, and returns to a natural system).

Reuse of Return Flow From Diverted Water

Return flow can be diverted and reused multiple times as it moves through a natural water system. In fact, Utahns divert a much greater volume of water (5.15 million acre-feet) than the amount of the water supply actually consumed (2.60 million acre-feet). This reuse of water as it returns to the natural system gives water managers flexibility in delivering water to those who have the right to use water, since the same water is used to supply multiple water users as it moves through the state's water systems.

(Continued on page 11)

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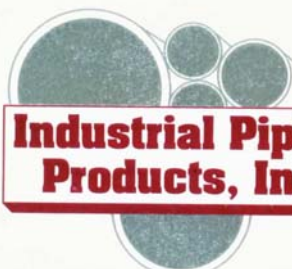
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HOW IS UTAH'S WATER USED? (CONTINUED)

(Continued from page 9)

Water Diversion in Utah

Each year, Utah water users divert approximately 5.15 million acre-feet of water from natural water systems for agricultural, residential, and business use. Agricultural irrigation is the primary use of developed water in Utah (4.20 million acre-feet/year or 82%). Municipal and industrial (M&I) users use the rest of the diverted water (0.95 million acre-feet/year or 18%), with homes and commercial businesses constituting the largest M&I water users. Due to projected population growth, M&I use is expected to experience the greatest future growth.

About 952,000 acre-feet/year of M&I water is diverted using three delivery systems:

- (1) public community systems (such as systems run by municipalities) that deliver water to most businesses and all but very small residential systems (717,000 acre-feet/year);
- (2) public non-community systems, such as self-supplied industries not connected to a public community system and having their own water source (e.g., ATK, oil refineries in Davis county, Uintah Basin oil and gas companies, national and state parks, and campgrounds) and certain small businesses and small subdivisions (220,000 acre-feet/year); and
- (3) residential wells owned by an individual homeowner (15,000 acre-feet/year).

Both potable (treated) and non-potable (untreated) water are delivered to residential, commercial, institutional, and industrial customers. Public community water systems deliver water to 98% of Utah's residential population. Of the 509,000 acre-feet of water delivered to residential customers of public community systems, about 72% is potable water and 28% is non-potable water that is used outdoors. About 65% of residential water is used outdoors and 35% indoors.

Of the total 5.15 million acre-feet of water diverted in Utah for agricultural and M&I use, only about 4% is for residential indoor use.

Water Use Comparison

Describing water use in per capita (per person) terms allows for a more meaningful comparison that takes population differences into account (such as when comparing between different areas or different time periods). The U.S. Geological Survey and the Utah Division of Water Resources publish estimated water use statistics, including residential per capita use. Residential use includes indoor and outdoor uses at residences (e.g., food preparation, washing clothes and dishes, flushing toilets, watering lawns, gardening, and washing cars). Utah is third in residential per capita use among the states that surround it, using slightly less water per capita than Nevada and Idaho. Utah's relatively high per capita water use is tied to several factors. These include a semi-arid climate, the settlement patterns of early pioneers desiring to create familiar green landscapes, larger city lot sizes, the close proximity of surface and ground water sources to the state's population, low culinary water rates, and inexpensive secondary water (untreated water intended for outdoor use).

2014

UGWA Conference & Expo January 9th & 10th

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DIVISION OF DRINKING WATER RULE CHANGES

The Utah Division of Drinking Water Board issued proposed changes to R309-515, which governs the design and construction requirements related to developing public drinking water sources. The public comment period ended October 31, 2013. The proposed changes included the following clarifications and revisions:

- Clarify evidence of a legal right to divert water for drinking water sources.
- Clarify standby power requirements for community water systems' well sources.
- Add well seal depth requirement for drinking water wells equipped with pitless adapter or unit.
- Modify well gravel pack requirement to account for what is currently commercially available.
- Require well capping and abandonment be done in accordance with the Division of Water Right's Rules
- Define the safe yield of a well.
- Restrict the well pump size to the pumping rate used for the constant-rate aquifer drawdown test.
- Clarify the required order of well head discharge components.
- Specify design requirement for the well pump-to-waste line.
- Outline the procedure for determining the safe yield of a spring.
- Correct numerous outdated and incorrect references.



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The Marsha Eppler Crisis Fund provides financial assistance to members and others in the ground water industry who have been adversely affected by accident, illness, financial difficulty and recent natural disasters. All funds donated are strictly voluntary and are greatly appreciated.

Drawing Takes Place Friday, January 10th at the
Conclusion of the Annual Conference & Expo
Must be Present to Win

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Upcoming Board Positions for 2014-2014

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HOW DID YOU HEAR ABOUT US _____

Membership Types

- A. **CONTRACTOR:** Any person doing business and licensed to drill, either water wells or ground water monitoring.
- B. **PUMP INSTALLER:** Any person doing business and licensed to install ground-water pumping equipment.
- C. **MANUFACTURER:** Any person engaged in the manufacturing of equipment, or materials used in the ground water industry.
- D. **SUPPLIER:** Any person engaged in the sale of equipment or supplies associated with the ground water industry.
- E. **TECHNICAL:** Any hydrologist, geologist, or engineer involved in teaching, research, consulting and or government services associated with the ground water industry.
- F. **ASSOCIATE:** Any person engaged in the support of the UGWA who does not accurately fit in any of the above.

This membership allows the joining of one individual to benefit from all the privileges of membership in the Utah Ground Water Association. Annual membership dues are \$60.00 per year. These dues cover membership only in the Utah Ground Water Association. The Utah Ground Water Association is affiliated with the National Ground Water Association and the Mountain States Ground Water Association. **All memberships are annual and run July 1st thru June 30th. Memberships purchased mid-year will have the 2nd year pro-rated to bring them compliant with this format.**

34th Annual UGWA Conference & Expo January 9th & 10th, 2014

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