

UTAH GROUND WATER ASSOCIATION

The Advocate FALL 2016 EDITION

LETTER FROM THE PRESIDENT RICHARD PETERSEN — LAST DROP DRILLING AND PUMP SERVICES

It's the final and I have so much I would like to say, but writing it seems to just attract the wrong response. So, being that it is my job, how about everyone trying not to think everything is pointed at them personally. First, this newsletter, what a thankless job, but we all enjoy it and it keeps us all informed, plus they have to get me to finish this. Please, thank them whenever and as much as possible.

We have lost so many the last 2 years it's hard to believe. If you have not heard it from me personally, know it now. I think and pray for you all and those missing from our ranks. Be safe out there please, guys and gals.

Things have not been good for me either. I have been battling many things health and family. I'm not wanting to discuss it, other than to say I am sorry I have not been myself lately, and to thank those who have helped me and my family. It is still tuff, but getting better. As for my work with the association, it has been tuff to focus on, and I want to thank one person for stepping up and keeping things moving. Thank you Kyle. I know there are many more that have helped and I thank you also. There were many things that got done and thanks to all on the board for all their efforts.

Please come to the shows this year and bring your help. We need you all and want your continued friendship and dedication to shine on. There is always plenty to see, so do come and have fun together. You can warm up too everyone as they need a little heat in the winter. There are a few things going on in the state as far as updates that you will get to know better than just being at the meetings.

Just a couple of things first, there is plenty happening in our industry to get involved in. We need everyone, young and old, if we are to continue to have a say in what happens to our industry. We need your help everywhere. Second, is being part of the board. We need people who want to be there and are willing to give the time in many ways. Each job requires different things and time. Please talk with one of the board members if you are interested in

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LETTER FROM THE PRESIDENT (CONTINUED)

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...serving to find out what fits you. We work with both the national and the mountain states. We cover most expenses but time is still needed. I do not want you to think I'm still not looking for southern and northern drillers (rural businesses). I would love to see smaller member drillers on the board, but big or small, you need to be able to meet the requirements of our different obligations. This does not mean a perfect attendance, but it needs to be possible.

We need all of our members to come to the meeting to see what's happening and vote for the things and people you want to be working for you. Bring your people and get them interested in what happens at their job. Be safe above all else, and hope to see you all at the shows and in the field.

God Bless you all.

Richard Petersen — UGWA President

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6th Annual Golf Outing

at the **UGWA Conference & Expo**

Join us Wednesday, January 11th for 18 holes of golf, fun and prizes! Tee times begin at 11:30am, but space is limited!

Signup is available with your registration at www.utahgroundwater.org

We Look Forward to Seeing You There!



Introducing The 1st Annual Skeet Shoot

at the **UGWA Conference & Expo**

Join us Thursday, January 12th for some old fashioned fun and prizes!

Shotgun start at 8:00am, but space is limited!

Signup is available with your registration at www.utahgroundwater.org

We Look Forward to Seeing You There!



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2017 UGWA Conference & Expo

SCHEDULE OF EVENTS

CEU credit will be given to all registered attendees who attend classes

Wednesday, January 11th

11:30am - 3:00pm **Golf Tournament** *sponsored by Mitchell Lewis & Staver*

Thursday, January 12th

8:00am - 11:30am **Skeet Shoot** *sponsored by Franklin Electric & 4-D Plumbing*

12:00pm - 3:00pm **Registration & Vendor Display Open**

2:00pm - 2:05pm Welcome and Announcements

2:05pm - 3:00pm **CEU Class: Utah Well Rules, Issues and Updates**

presented by Jim Goddard, Utah Division of Water Rights

3:00pm - 4:30pm **CEU Class: Well Development DeMinimus Discharge Study**

presented by M Kyle Widdison CWD/CPI, Widdison Turbine Service

4:30pm - 6:00pm **Vendor Social** *beverages sponsored by 101 Pipe & Casing*

6:00pm - 9:00pm **Banquet & Scholarship Auction**

Friday, January 13th

7:00am - 8:00am **Breakfast** / Vendor Visits

8:00am - 9:00am **CEU Class: Drill Site Safety**

presented by Tony Thomson, National EWP

9:00am - 9:30am **Break** / Vendor Visits

9:30am - 10:30am **CEU Class: Submersible Pump Sizing & Trouble Shooting**

presented by Todd Hofstra, Franklin Electric

10:30am - 11:30pm **General Membership Meeting & Board Elections**

11:30pm - 12:30pm **Lunch** *Deadline to Turn In Vendor Visit Sheet for The Drawing*

12:30pm - 2:00pm **CEU Class: DOT Safety & Inspection**

presented by Troop Curtis, Utah Highway Patrol

2:00pm - 2:30pm Break / Vendor Drawing

2:30pm - 4:00pm **CEU Class: Defining the Operational Age of a Well**

presented by Michael Schnieders PG 2017 NGWA McEllhiney Lecturer

4:00pm - 4:15pm Closing Remarks - M Kyle Widdison CWD/CPI, UGWA President

4:15pm - 4:30pm Final Drawings / Conference Adjourned

The 37th Annual UGWA Conference & Expo

Welcomes

THE 2017 McELLINEY LECTURE **MICHAEL SCHNIEDERS, PG, PH-GW**



Michael Schnieders, PG, PH-GW, is the principal hydrogeologist and president of Water Systems Engineering Inc. in Ottawa, Kansas, where he is involved with well characterization and consulting on the operation and maintenance of potable water systems. His work crosses numerous disciplines and fields involving geology, chemistry, microbiology, water resource and watershed management, corrosion control, and water treatment.

Mr. Schnieders has served on numerous state, regional, and national training programs focusing on rehabilitation and maintenance of water wells and groundwater systems. He's authored numerous articles on well maintenance, wellfield analysis, and well construction, is a regular contributor to Water Well Journal®, and is coauthor of a forthcoming book, Operational Stages of the Well: Evaluating the Forms of Water Well Deterioration and Developing Corrective Actions. Mr. Schnieders is also often a presenter at NGWA's annual conference, Groundwater Expo, now known as Groundwater Week.

In addition to being a registered geologist, Mr. Schnieders is recognized as a professional hydrologist with a specialty in groundwater by the American Institute of Hydrology, and as a corrosion specialist by the National Association of Corrosion Engineers. He holds a B.S. in geology from Kansas State University and an M.S. in geology from Wichita State University.

LECTURE DESCRIPTION

Defining the Operational Age of a Well: Predicting Maintenance Issues in Advance of Failure

Discover how to better define where a well is in its relationship to its functional lifecycle as well as identify when rehabilitation needs to be done to ensure a long life and reduce operational costs. Wells, depending on their environment, will deteriorate at varying rates based on many factors including well design, hydrogeology, operational history, water chemistry, microbiology, rehabilitation history, and well usage.

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January 11-13, 2017
CasaBlanca Resort & Casino in Mesquite NV

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<u>Registration</u>			
UGWA Annual Membership	\$60	\$60	\$ _____
Member Registration	\$140	\$200	\$ _____
Employee/Spouse Registration	\$85	\$85*	\$ _____
<i>Includes all meals (attach additional names)</i>			
Non-Member Registration	\$200	\$260	\$ _____
Golf Tournament	\$75	N/A	\$ _____
Banquet Dinner/Auction Only	\$35	\$35	\$ _____

<u>Raffle Tickets</u>			
Quilt Tickets	6 for \$5	Qty: _____	\$ _____
Gun Tickets	6 for \$10	Qty: _____	\$ _____
TV Tickets	\$25 or 6 for \$100	Qty: _____	\$ _____

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Return Completed Form with Your Payment to: UGWA 5577 Walden Glen Dr, Murray UT 84123-7942
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 Questions: 801.541.7259 or admin@utahgroundwater.org

** adding additional employees to a registration on/after 01/01/2017 will revert to the higher member rate, regardless of original registration date.*

WHAT'S YOUR BMP?

KYLE WIDDISON — WIDDISON TURBINE SERVICE LLC

THE CLEAN WATER ACT OF THE UNITED STATES.

The origins of the Clean Water Act of 1977 (CWA) were really started in 1948 and even before that. The purpose was to enact legislation in an effort to protect the waters of the United States from contamination. It is administered by the U.S. Environmental Protection Agency (EPA) in coordination with state governments. As best as I can understand, the EPA leaves the responsibility to each state to regulate and enforce the provisions of the CWA. It applies to each of us in the water well industry in many ways and as drillers and pump contractors we are responsible for the release of anything that could be considered a pollutant into the waters of the state. For us specifically this would include the release and disposal of the following materials, which is only a partial list:

1. The drill cuttings from a well drilled by any method.
2. Any drilling fluids used in the drilling process. Including air drilling.
3. Any produced ground water from a well from either well development or testing.
4. Any other solid or liquid waste from a drilling or an well service operation.

One would normally think that the release of water or fluid that has no additives or anything hazardous in it would be acceptable, but this is not the case. It does not matter even if this is released to a dry drainage ditch or even a low spot. If there is any possibility that this fluid could find its way to a stream, river, wetland or any type of natural drainage then it is a regulated material and must be handled according to the established regulations in the CWA.

Where I have for many years been an active contractor in the development and testing of wells within the State I came under scrutiny from the Utah Department of Environmental Quality, Division of Water Quality and Division of Drinking Water. For many decades we would release both development water and test pump water sometimes directly to the waters of the State, but if possible to some other location far removed from these waters. This would have included pumping into an irrigation ditch, a storm drain, stream, river, on to a framers land, to the gutter of a street and any other place where we could convey water away from a well. In some cases the water was dirty and in some it was quite clear. In no case did we ever release any water that had chemicals or additives in the water. It really was just sandy, muddy water. These releases were sometimes as small as 50 gallons per minute (GPM) and at times as high as 8,000 GPM. In one case the total release was about 400 acre-feet or 135 million gallons. This short duration, but sometimes high GPM release is where the problem comes in. Any type of available portable treatment system can be terribly expensive and often will require more space that is available at a well site. In my research in order to treat 3,000 GPM to drinking water standards that is portable would require about 15 semi loads of equipment.

Within the CWA are provisions for the enforcement of the regulations and these also exist within the state regulations. There is some latitude for enforcement based on local conditions but generally the enforcement goes something like this. When a complaint is received by the state or a local health department concerning the release of pollutants into the waters of the state they are duty bound to investigate and do a

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WHAT'S YOUR BMP? (CONTINUED)

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site inspection. If a contractor is found to have released these type of pollutants then a Notice of Violation (NOV) is issued. On a first offence the fines can range from \$0 to about \$5,000. If one receives a second NOV for the same offence the fine increases from \$5,00 to \$25,000. A third offence may result in a criminal complaint referral. This complaint could then be classified as a felony and if convicted could result in prison sentence.

At our upcoming convention I will present my initial findings on a self funded study of the methods we are employing to treat and use Best Management Practices (BMP's) before we release these fluids. Both the CWA and the states regulations require the use of BMP's in the statute. We will discuss various types and methods of these BMP's and what we think the state will accept as such.

Thank you, I look forward to seeing you at the annual convention in Mesquite.

Kyle Widdison — UGWA President-Elect



Glens Falls, NY – Flomatic Corporation introduces a new **Model 80S6CL-VFD**, special patent-pending submersible pump check valve for use with variable-frequency drive (VFD) control submersible pumps. Standard check valves will “chatter” and be noisy when a VFD goes to low flow, causing premature wear and eventual failure. These unique valves are designed to minimize flow losses and hydraulic shocks in the pumping system. It features a 316 Stainless Steel body that incorporates North American Specialty Products patented groove lock type pipe connections called Cert-Lok[®] to support deep set pumps. An exclusive stainless steel guided poppet system ensures that the valve automatically adjusts noiselessly from high to very low flow rates. The radiuses of the valve seat allow a self-cleaning “one point swiping action” by the radius-edged custom molded rubber seal disc. All internal parts are made from corrosion-resistant materials and have a high strength durable design.

For more detailed information on Flomatic’s new **Model 80S6CLVFD** check valve installation or to obtain a copy of the new 2016 condensed valve catalog, visit www.flomatic.com, email them at flomatic@flomatic.com, call Flomatic Corporation at 1-800-833-2040 or fax them at 1-800-314-3155.

CALL FOR ELECTIONS, VOLUNTEERS AND DONATIONS

ELECTIONS

As most of you likely know, it's almost time to elect members to the UGWA board, which will occur at the annual convention in Mesquite. This is one of the primary reasons why you should attend the convention, so you can vote, be elected, and make your voice heard.

The following positions will be up for elections:

- President-Elect (currently held by Kyle Widdison);
- Membership Chair (currently held by Fred Rothauge);
- Contractor Representative (currently held by John Zimmerman);
- Treasurer (currently held by Mike Anzalone);
- Technical Representative (currently held by Ron Peterson);
- Manufacturer/Supplier Representative (currently held by Justin Isaksen); and
- Newsletter Editor (currently held by Neil Burk).

There will be an open call for nominations for these positions. Most of the members holding these positions are willing to serve another term. However, if there is someone else that is willing to serve on the board, then make it known so you can be nominated. Voting will occur on Friday afternoon at the annual convention, and only UGWA members are allowed to vote or be elected (another reason to become a member). Also, Jason Lamb will be vacating his position as Past President. The UGWA would like to thank Jason for his years of service to and support of the UGWA.

VOLUNTEERS

We could use some volunteer help at the annual convention in Mesquite. Colette could use some help at the registration desk, we could always use some spotters for the auction, and there a few other tasks we could use some help with. If you, or your spouse, would like to lend us a hand, give Colette a call at 801-541-7259 or email her at colette@utahgroundwater.org . Thanks!

DONATIONS

And, most importantly, don't forget about the kids! Feel free to bring something to donate to the scholarship auction because **ALL** of the proceeds from the auction go to the scholarship fund. Remember from previous years what items caused a bidding war? However, you can also just donate some money to the scholarship fund if that is preferable. Who doesn't need some money for school?

See you in Mesquite in January!

Neil Burk — UGWA Newsletter Editor



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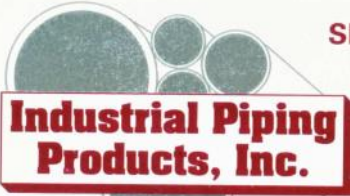
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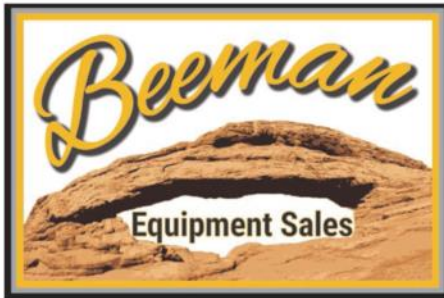
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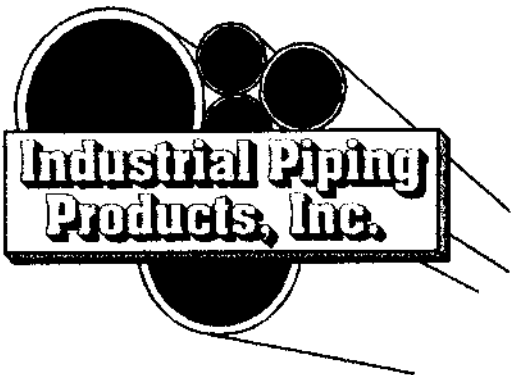
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- A. **CONTRACTOR:** Any person doing business and licensed to drill, either water wells or ground water monitoring.
- B. **PUMP INSTALLER:** Any person doing business and licensed to install ground-water pumping equipment.
- C. **MANUFACTURER:** Any 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 prorated to bring them compliant with this format.**

UTAH GROUND WATER ASSOCIATION

ADVERTISING FEE SCHEDULE

NEWSLETTER (per quarterly issue)

DESCRIPTION	MEMBER	NON-MEMBER
1/8 Page or Business Card	\$25	\$30
1/4 Page	\$50	\$60
1/2 Page	\$75	\$90
Full Page	\$100	\$120

BRONZE LEVEL SPONSOR (\$500): Your logo on the UGWA website, www.utahgroundwater.org with link to your website or email; One 1/8 page size/business card size ad in The Advocate, the UGWA's quarterly newsletter (\$120 value); Recognition at all UGWA events.

SILVER LEVEL SPONSOR (\$750): One UGWA membership (\$60 value); Your logo on the UGWA website, www.utahgroundwater.org with link to your website or email & reoccurring HOME page placement; One ¼ page size ad in The Advocate, the UGWA's quarterly newsletter (\$200 value); 10% discount on vendor registrations at all UGWA events; Recognition at all UGWA events.

GOLD LEVEL SPONSOR (\$900): One UGWA membership (\$60 value); Your logo on the UGWA website, www.utahgroundwater.org with link to your website or email, HOME & SPONSOR tab placements; One ½ page size ad in The Advocate, the UGWA's quarterly newsletter (\$300 value); 15% discount on vendor registrations at all UGWA events; Recognition at all UGWA events.

PLATINUM LEVEL SPONSOR (\$1,200): Two UGWA memberships (\$120 value); Your logo on the UGWA website, www.utahgroundwater.org with link to your website or email, Platinum all tabs placement; One full page size ad in The Advocate, the UGWA's quarterly newsletter (\$400 value); 25% discount on vendor registrations at all UGWA events; Recognition at all UGWA events.

For More Information Contact:

Colette Lynch at 801.541.7259, colette@utahgroundwater.org or www.utahgroundwater.org

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