Well, another year is turning from warm to cold, and for me it seems everyone is last minute shopping for that last drop of heat (including me). This means a lot of last minute work for a lot of us to get done before it is gone until spring; good luck to all on that.

As for our association it is time to prepare for all the conventions coming; get registered for our convention early guys, it makes it much easier for all. There are several new items for discussion. We will need several new board members (that doesn’t mean go hide) we need your votes and support for those who choose to take part in donating their time. There also has been some very serious things happening that could possibly effect each of us; we are hoping to have this as one of our classes. If we do, don't miss it.

Water is still at the forefront of most every intelligent person planning for their future. It is, however, getting more difficult to keep up with all the government agencies trying to include our work in their regulations. We are working hard to stay informed. Please continue to let us know if you hear of something so we may get a chance to weigh in on it before it's in place. Be careful out there, we have lost enough of our members to retirement, deaths and the economy. We need you all to be safe, not only physically, but financially. Be alert to the facts of how important you are to the people around you. Don't put yourself in the well digger state of mind. You are well professionals, and you need to feel it, act it, and in turn, be treated as such. So don't be afraid to get paid well enough so you and your family have a future.

Richard Petersen — UGWA President

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!
Registration Now Open!
Register Early and Save $$
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Group Code 182016
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$45 Friday & Saturday

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Only 2 Spots Left
Come See The 2016 McEllhiney Lecturer at The UGWA Conference & Expo

Peter S. Cartwright, PE, has a bachelor’s degree in chemical engineering from the University of Minnesota and is a registered professional engineer in that state. Having entered the water industry in 1974 as director of sales and marketing for a major manufacturer of membrane elements and systems, in 1980, he formed his consulting engineering business, Cartwright Consulting Co. In 1997, he cofounded another company, Cartwright, Olsen & Associates LLC, which has provided third-party evaluation and performance validation testing of innovative drinking water treatment technologies in accordance with the EPA Environmental Technology Verification Program.

Cartwright specializes in both marketing and technical consulting in high technology separation processes for water purification, wastewater treatment, and food/chemical processing applications. With expertise encompassing virtually all treatment technologies, his clients include manufacturers desiring to produce complete water treatment systems or components thereof. He provides total design, construction, installation, and operating services covering the entire spectrum of water purification, wastewater treatment, and water recovery, reclamation, and reuse, as well as environmentally conscious manufacturing. In addition, he offers market studies, comprehensive training, and educational programs in all areas of water treatment, as well as complete applications and pilot testing of wastewater streams, necessary for the design of total treatment systems.

During his career, Cartwright has authored approximately 200 articles, written several book chapters, and presented more than 200 lectures at conferences around the world. He's a founding member of the technical review committee for Water Conditioning & Purification magazine, is on the editorial advisory committee of Industrial WaterWorld magazine, is on the editorial advisory board for Filtration News, and is a peer reviewer for the Journal of Membrane Science. Cartwright has been awarded three patents for water purification processes, is on the faculty of the University of Wisconsin-Madison College of Engineering’s annual course, Process Piping Systems Design and Operation, and is the technical consultant to the Canadian Water Quality Association. In addition, he's a recipient of both the Award of Merit and Lifetime Member Award from the Water Quality Association.

Groundwater Contaminants and Treatment Options

No two water supplies are identical, and to ensure a potable water supply that is safe, good tasting, and acceptable for washing, bathing, or showering, a thorough water analysis is the first place to start.

Health-related contaminants such as nitrite/nitrate, arsenic, and pathogenic microorganisms may be naturally occurring or the result of human activity, or both. Also, the water pH, total dissolved solids, iron, hardness, and other constituents may affect taste or its other properties. The challenge to the groundwater professional is how to reduce them to an acceptable level.

This presentation identifies the classes of treatment technologies and details the specific technology choices as a function of contaminant reduction efficacy and cost. Installation requirements are also addressed, as well as operation and maintenance.

The lecture will be tailored to the contaminants that audiences encounter most frequently or the treatment technologies in which the audience is most interested.
2016 UGWA Conference & Expo

SCHEDULE OF EVENTS

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

Wednesday, January 13th
11:30am - 3:00pm  Golf Tournament *sponsored by Mitchell Lewis & Staver*

Thursday, January 14th
12:00pm - 4:30pm  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: Groundwater Contaminants & Treatment Options**  
*presented by Peter S Cartwright PE, 2016 NGWA McEllhiney Lecturer*
4:30pm - 6:00pm  Vendor Social *beverages sponsored by 101 Pipe & Casing*
6:00pm - 9:00pm  Banquet & Scholarship Auction

Friday, January 15th
7:00am – 8:00am  Breakfast / **Vendor Visits**
8:00am – 9:00am  **CEU Class: Diagnosis & Treatment of Well Problems**  
*presented by Leroy Palmer, Ameriwest Water Services*
9:00am – 9:30am  Break / **Vendor Visits**
9:30am – 10:30am  **CEU Class: Pump Equipping & VFDs**  
*presented by Steve Price, Boart Longyear*
10:30am – 11:30pm  General Membership Meeting & Board Elections
11:30pm - 1:00pm  Lunch
1:00pm - 2:30pm  **CEU Class: DOT Safety & Inspection**  
*presented by Troop Bruce Fox, Utah Highway Patrol*
2:30pm – 3:00pm  Break / **Vendor Visits** / **Vendor Drawing**
3:00pm – 4:00pm  **CEU Class: Well Design: A Group Exercise**  
*presented by Chris DeKorver, Bowen Collins & Neil Burk, Loughlin Water*
4:00pm – 4:15pm  Closing Remarks - Richard Petersen CWD/CPI, UGWA President
4:15pm - 4:30pm  Final Drawings / Conference Adjourned
5th Annual Golf Outing
at the UGWA Conference & Expo

Join us Wednesday, January 13th 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

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**January 13-15, 2016**  
*CasaBlanca Resort & Casino in Mesquite NV*

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**Registration**

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**TOTAL ENCLOSED:** $__________

Return Completed Form with Your Payment to: UGWA 5577 Walden Glen Dr, Murray UT 84123-7942  
or **Register On-Line** [www.utahgroundwater.org](http://www.utahgroundwater.org)  
Questions: 801.541.7259 or admin@utahgroundwater.org

*adding additional employees to a registration on/after 01/01/2016 will revert to the higher member rate, regardless of original registration date.*
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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 Inc

## Advertising Fee Schedule

### Newsletter

(Per quarterly issue)

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### Website

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<td>Platinum Sponsor</td>
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**Bronze Level Sponsor**: One UGWA membership ($60 value); One full color ad on the UGWA website, [www.utahgroundwater.org](http://www.utahgroundwater.org) with link to your website or email; One 1/8 page or business card size ad in The Advocate, the UGWA’s quarterly newsletter ($100 value); Recognition at all UGWA events.

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**Platinum Level Sponsor**: One UGWA membership ($60 value); Full color ad on the UGWA website, [www.utahgroundwater.org](http://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 at all UGWA events ($100 off annual conference sponsor registration); Recognition at all UGWA events.

For More Information Contact: Colette Read at 801.541.7259, [colette@utahgroundwater.org](mailto:colette@utahgroundwater.org) or [www.utahgroundwater.org](http://www.utahgroundwater.org)
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See Agenda Inside!

5th Annual Golf Outing on January 13 and
36th Annual UGWA Conference & Expo on January 14 and 15, 2015
Casa Blanca Resort—Mesquite, Nevada