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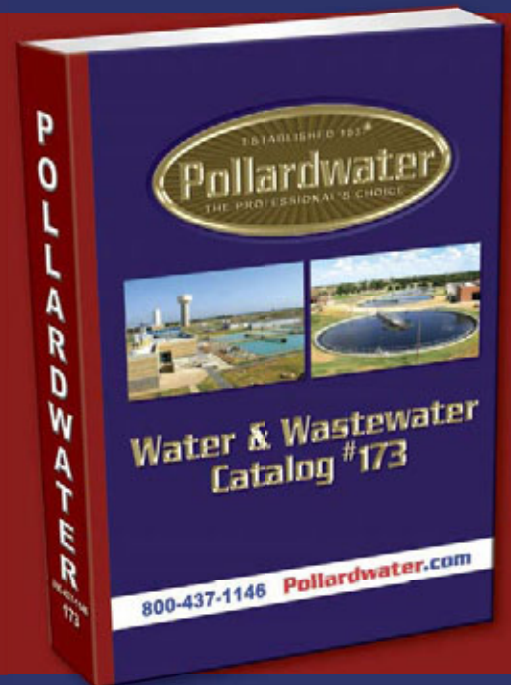


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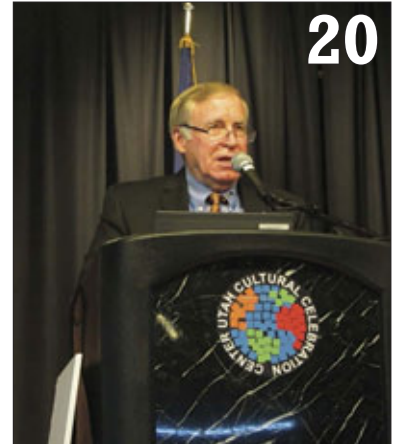
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# A time of celebration, a time of renewal



Paul Krauth

**H**opefully, we have all enjoyed the past Holiday Season. As the New Year arrives, I am personally reflecting on what WEAU means to me. I believe that this association is more than just a society of wastewater professionals. It is an association of friends. I would like each one of you to think about someone that you have met through your involvement with the association. Then think of if you had not been involved with WEAU.

How I initially got involved with WEAU was being ASKED to attend an awards committee meeting by Chris Horting (the offer of a free lunch as an enticement – something's NEVER change). At that meeting I met Gordon Champneys for the first time. We formed a friendship that remains today. From first being ASKED to serve on the awards committee, then being ASKED to chair that committee a few years later, but the key to all of incredible journey was initially being ASKED by a member to join and become involved. I would like you to think of a person in your organization who you could invite to join us in the new year.

Here are some quick points you can use to explain why they might want to join:

### Make your brain 500 times bigger

You have heard the expression "Two heads are better than one." How about 500-plus heads? You can learn and share solutions when you link with fellow WEAU members who give you the power of their experience when you are trying to solve a problem or figure out a new situation.

### Demonstrate your competence through certification

WEAU conducts ABC certification review classes, so employers...and the public...can be assured that they keep themselves, the public, and the environment safe.

### Save money

Save \$\$ with the technical tips, tools, and processes you can pick up from award winning wastewater treatment plants. An average member saves more than \$100 with WEAU member discounts on certification and training.

### Improve your safety record

All right, we cannot guarantee that! But you have got to admit it makes sense that being better trained you are the less likely you are to have accidents. WEAU offers numerous training every year throughout the state designed just for you. That is good for you and your employer.

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## President's Message

### Save the environment and have fun

WEAU folks know how to work hard, be professional, save the environment... and have fun, too. WEAU has annual baseball fun night, picnics, barbeques, golf tournaments, banquets, and more to spice up their regular training calendar.

I am all about the FUN. 



Past Presidents and WEAU's strategies and mission



### Strategies

1. Provide opportunities for the interaction and professional growth of Association members.
2. Build an active membership.
3. Promote public understanding of the value of water quality and water resources.
4. Provide educational information for environmental policy formation.
5. Build alliances and exchange information with individuals and organizations with related interests.
6. Promote diversity in the types of water quality issues addressed.
7. Provide the resources necessary to realize the Vision, Strategies and Objectives.

### Vision Statement

*The water environment association of Utah is dedicated to the professional growth of its members and the preservation and enhancement of the water environment.*

“ Think of a person in your organization who you could invite to join us in the new year.”

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# Promoting involvement amongst the younger generation

By Chad Burrell

I was very impressed with this year's WEAU Midyear Conference. When there is standing room only in some of the presentation rooms I think that indicates that the material being presented in both relevant and interesting (or it just means

we need a bigger room). New this year was a whole block dedicated to management, risk management, safety, recognizing drug use, harassment, and other related topics that were presented by Utah Local Government Trust. This session offered

some very valuable information that managers can use every day to improve the work environment.

Fifteen years ago next month, I was starting a semester at UVSC focusing on my general classes and really not knowing what direction I was going to take with my education. Somehow, I met up with Jim Callison and he showed me a dirty movie the environmental department had put together (Not quite the kind of dirty movie you might be thinking about ... He had put together a video that gave an overview of water treatment, wastewater treatment, and solid waste handling). I must have had a warped enough mind that those subjects really interested me, and I have had my mind in the gutter ever since! I am very happy with the direction the WEAU is taking to promote the involvement of the younger generation. This is a great investment in the future.

My thanks go out to those students and young professionals who participated in the poster competition, gave presentations, and were involved in the Midyear Conference in any other way. There will always be a need for hardworking individuals who want to work in the field of water reclamation. We gladly welcome and encourage those who join our ranks. [DIA](#)

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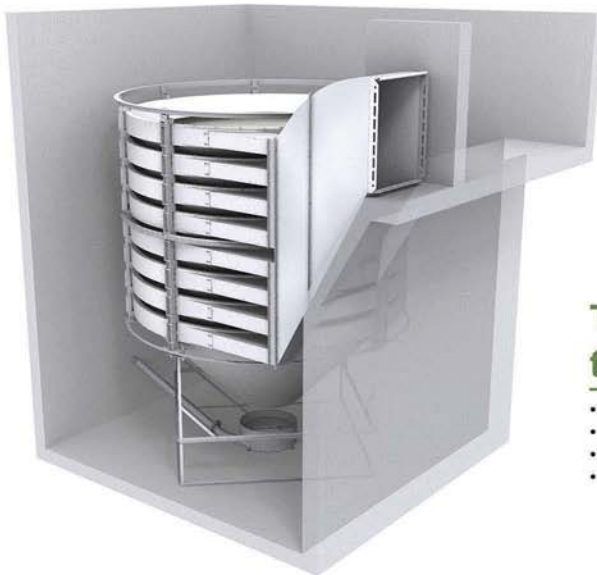
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# Collections Quiz

1. Hydraulic Cleaning methods consist of cleaning a sewer with?
- a) Water pressure creating high velocities
  - b) Water volume and pipe size
  - c) Pipe slope and diurnal flows
  - d) Hydraulically powered cleaning equipment

2. Which one is **NOT** a Mechanical Methods of sewer cleaning?
- a) Scraps
  - b) Wayne sewer ball
  - c) Pushes
  - d) Cuts

3. If a Roding machine is used to clear a stoppage what end should be put on?
- a) Square bar cork screw
  - b) Pull out tool
  - c) Pick up tool
  - d) Auger
4. What type of glove should be worn when handling or guiding a turning rod?
- a) Rubber
  - b) Latex
  - c) Polyvinyl
  - d) Leather

5. If a long line with lots of grade is plugged, what should be of concern when the plug is broken loose?
- a) Debris wedging the nozzle
  - b) Cleaning hose washed down stream
  - c) Over flowing the system
  - d) Pipe damage

6. The two major factors in determining how much H2S is produced are?
- a) slope & temp
  - b) temp & DO
  - c) pH & slope
  - d) temp & pH

7. Iron salts are used in the Collection System to?
- a) Melt frozen lines and manholes
  - b) Keep water in the flusher from freezing
  - c) Keep walk ways around lift stations ice free
  - d) Control H2S

8. Which term describes activities that reduce or eliminate waste water and pollutants?
- a) Cleaning
  - b) Source Control
  - c) Flushing
  - d) Biological Treatment

9. What nozzle would work best in a 10" to 15" line?
- a) 45 degree
  - b) 15 degree
  - c) 30-45 degree combo
  - d) 30 degree

10. Sucking the water out of toilets while cleaning the main then blowing it back in is caused by?
- a) Unequal air pressure
  - b) Lateral connection is to low on the main
  - c) Positive displacement blower being used
  - d) Unequal water pressure

*This quiz is brought to you by the Education and Training Committee.*

Answers:

1-A, 2-B, 3-A, 4-D, 5-C, 6-D, 7-D, 8-B, 9-C, 10-A

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# Collections training recap

By Chris Brown

**A** Collections training for October 30, 2012 was held at the Cottonwood Improvement District main office in Sandy Utah. The event was sponsored by the WEAU Collections Committee.

We started the morning with registration, coffee, donuts and the presenters having a meet and greet with the attendees. Edwin Jackson from BYU started things off with a presentation on the biological hazards encountered while working around wastewater. He was very informative and interacted with the audience on a name-to-name basis. I think we all came away better informed about what can 'really' be contained in wastewater, and what to look for and pay closer attention to while in the field.

We broke for lunch and had a chicken enchilada fiesta provided by Meiers Prime Catering.

The afternoon training presentation was provided by Lorin Palmer of Hose and Rubber Supply. We learned what hose applications and safety precautions we should take with our job specific equipment. This very informative presentation was geared to the equipment we use in maintaining our collection systems. [dm](#)



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# Member spotlight: Chris Reilly

By Ron Clements



“ Chris started at the very bottom in the warehouse as a parts runner, later worked his way up as an operator and, with lots of hard work and dedication, eventually became a maintenance mechanic.”

In this particular spotlight, I will refrain from using any profanity. It has come to my attention that Chad Burrell spends a lot of time fixing my so eloquently spoken swear words before they go to print, so this is for you Chad. I love to tease him!

I would like to direct my attention to Chris Reilly, better known as Potty Mouth and The Ticking Time Bomb. These particular nicknames are not from the likes of me, but his peers. Anyone who knows Chris, knows how he acquired this one. For those who do not, we were


competing at the St. George annual operators challenge when Chris had something go wrong in an event when he accidentally blurted out the F bomb. What is funny is Chris never swears and I mean never. Everybody who heard it busted out laughing. The judges were so surprised that he was not even penalized for it because it is just out of character for him, but I love to remind him.

Now, before I dig up more dirt on Chris, I do have to give him a ton of credit because he is one of the best guys I know.

Chris currently works for Central Valley as a maintenance mechanic. Chris started at the very bottom in the warehouse as a parts runner in May of 1994, later worked his way up as an operator and, with lots of hard work and dedication, eventually became a maintenance mechanic. He has earned himself an associate's degree in industrial mechanics. Chris has always been goal oriented and very hard working. He works two jobs so his wife can stay home and raise their family, like a lot of us wish we could provide. By the way, Chris married way above his pay grade. He is an amazing dad and has a level of patience that I could not achieve with the help of the strongest of prescription drugs.

Chris came from a large family, served an LDS mission and has done very well to carry on the family traditions with his own family.

Chris has served on the WEAU board as the PWO rep, that is how I was blessed with this chore as the PWO rep. Yes, Chris is a great man, but has no problem throwing friends into oncoming traffic. Now he serves as the Young Professionals Committee chair so we have an O.F. helping the YPs. Thanks Chris for most of all that you do. Some of it is low down and rotten and yes I am still bitter.

Seriously, Chris is one of the best there is. He has many friends and I am proud to be one of them. We wish him and his family a safe and happy future. 

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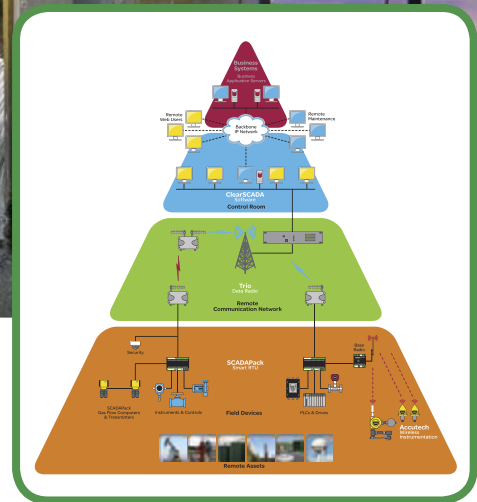
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# The ramblings of the PWO rep

By Ron Clements

**W**ell, we just finished another great Midyear Conference and would like to thank all the presenters for their great presentations as well as the committee's that that organized the Midyear and Jim Schwing. He is pretty much the backbone of the Midyear. There was a rumor that he was not going to do it anymore and we did not want to have to kill him. Lucky for all of us, Jim said he was still involved and is alive and well! Just kidding Jim.

We also had a great year at Nationals in New Orleans. Our two Utah teams did very well, especially considering the circumstances that followed. Our state champions, Wasted Gas finished 15th overall out of 28 teams in division II. About a week before they were to compete, Hadley Gunn was injured and they had two days to restructure their team on every event. Anyone who has competed knows when you only have two days to fix a problem it is just not enough time, so to finish in the middle of the road with two days is awesome to say the least. They are a very talented group of individuals who worked very well together and really put their heart and soul into this challenge.



Wasatch All Star Team - Gordon Call, Tom Andersen, Dustin Lewis, Brody Floto and Beau Lamper.

Next, we had the Wasatch All Stars, they also competed in division II and finished 5th overall. They finished 3rd in the collections event and also won best fan support. The top five in standings were decided by a very small margin once again, but Utah did very well as anticipated. Congratulations and a special thanks to both teams, their entities, Central Valley, North Davis, Magna, Central Weber, and Snyderville Basin and the Board of WEAU for all their support.

We will be having our Operators Challenge Kick Off meeting on January 2,

so please send your teams. We will be discussing the events, the rules, picking the team numbers and creating a practice schedule for the equipment. Also bring your appetite we will be feeding the teams lunch so we hope to see you there.

Our annual conference will also be a joint conference with Nevada this year and we are anticipating a large tri-state vendor turnout as well. This should be the biggest conference we have ever had. Paul Krauth, our WEAU President, has spent quite a bit of time making this happen. So a special thanks to our fearless leader as well as a great year of training that he has provided for us all. His so-called Reign of Terror has been more like a frat house party, but without girls or booze. Although there is rumor that one will be present at the annual conference banquet. See you all there. **DT**

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Central Valley Wasted Gas - Jeremy Deppy, Mike Brown, Becky Tanner, Hadley Gunn and Josh Hunsaker.



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## TREATMENT PROCESSES

### AZZURO

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### BIOWORKS

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Slow Speed Mixing with Fine Bubble Aeration

## CLARIFICATION

### M2 RENEWABLES

Alternative Primary Clarification

### LAKESIDE

Secondary Clarifiers

### NEFCO

FRP Stamford Density Current Baffles and Launder Covers

### POLYCHEM

Rectangular Non-Metallic Chain & Flight Clarifiers

### POLYTECH

Rotary Pipe & Helical Scum Skimmers

### WESTECH

Primary and Secondary Circular Clarifiers

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## DISINFECTION

### PROCESS SOLUTIONS

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## DIGESTION

### AEROMIX

Coarse Bubble Diffusers

### MTS

Aqua Turbo

### WESTECH

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## BIOSOLIDS PROCESSING

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# QUIZ

- The gas produced in an anaerobic digester that can be used as a fuel is \_\_\_\_\_.
  - methane
  - ethane
  - carbon dioxide
  - propane
- A diaphragm pump is a type of \_\_\_\_\_.
  - dynamic feed pump
  - positive displacement pump
  - rotary pump
  - centrifugal pump
- What is the proper PH range for maintaining methane forming bacteria in a anaerobic digester?
  - 4-6
  - 6-8
  - 2-4
  - 8-10
- Which of the following piping materials is not compatible with ferric chloride?
  - plastic
  - glass
  - copper
  - rubber
- The maximum kilowatts drawn over a short period of time (usually 15 minutes) is called electrical \_\_\_\_\_.
  - resistance
  - demand
  - power factor
  - rate
- Gear, vane, and lobe all describe what type of pump?
  - airlift
  - diaphragm
  - screw
  - rotary lobe
- A "rotten egg" odor near a trickling filter generally indicates
  - the presence of the psychoda fly
  - the clogging of distributor orifices
  - anaerobic conditions within the filter
  - too much recirculation
- Which characteristic is least helpful when assessing the organic loading at a plant?
  - solid concentration
  - BOD
  - COD
  - PH
- What is the best gas to use when MIG welding stainless steel?
  - acetylene/ oxygen
  - bi mix argon/ co2
  - tri mix argon/ co2/ helium
  - propane
- Lets say you are building a basketball court in your back yard 84 feet long and 50 feet wide and four inches thick. How many yards of concrete do you need to order from Geneva rock?
  - 4200 yds
  - 80 yds
  - 1400 yds
  - D-53 yds

Answers:  
 1-A, 2-B, 3-B, 4-C, 5-B, 6-D, 7-C, 8-D, 9-C, 10-D



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# LAB QUIZ

1. Amperometric titration is used to measure what wastewater parameter?

---

2. What wavelength of light is used to measure chlorine?

---

3. Why is sodium thiosulfate added to bacteriological sample bottles?

---

4. What is the benefit of using toxicity testing for water pollution evaluation?

---

5. What test assesses toxic effects on different life stages and/or growth and reproduction of an organism?

---

6. *Pimephales promelas*, which may be used in acute and/or chronic toxicity tests, are more commonly known as what?

---

7. What is the color of fecal coliform colonies cultured on M-FC media?

---

8. What is the color of total coliform colonies cultured on M-endo media?

---

9. The surface of a water-based solution forms a concave meniscus in a buret. At what point on the meniscus should the measurement of this solution be made?

---

10. For titration, what is the most useful piece of glassware to use as a reaction vessel?

---

11. Formazin standards are used to calibrate what type of meter?

---

12. When diluting acid with water, should you add water to acid or acid to water?

---

13. What type of laboratory equipment is used for measuring settleability?

---

14. Name a common interference with a turbidity measurement.

---

15. Based on current regulatory requirements, what is the longest period of time a conductivity sample can be held?

---

16. What factor can most affect a pH reading?

---

### Answers:

- 1 - Residual Chlorine; 2 - 515 nm, the Effect on Aquatic Biota; 3 - To Dechlorinate the Sample, 4 - Chemical and Physical Tests to Assess the Effect on Aquatic Biota; 5 - Chronic Test; 6 - Fathead; Minnows; 7 - Blue; 8 - Gold-Green (Sheen); 9 - At the Bottom; 10 - Erlenmeyer Flask; 11 - Turbidity Meter; 12 - Acid to Water; 13 - Imhoff Cone; 14 - Color; 15 - 28 Days; 16 - Temperature.



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# 2012 Midyear Conference

## ANOTHER DOOR-BUSTER

BY JIM SCHWING, P.E., CH2M HILL

**B**lack Friday has nothing on the WEAU 2012 Midyear Conference. We continued our success with a preliminary head-count of 185 attendees. The numbers are still being counted, but early indications are that we may at least equal the 2011 attendance record of 200. The Midyear Conference continues to be popular because of the great program is a big reason, the centralized location and the one day duration. Attendees came from as far away as Logan and the Orem/Provo area. The fact that attendees can attend so many quality presentations all packed into one day is also a major draw.

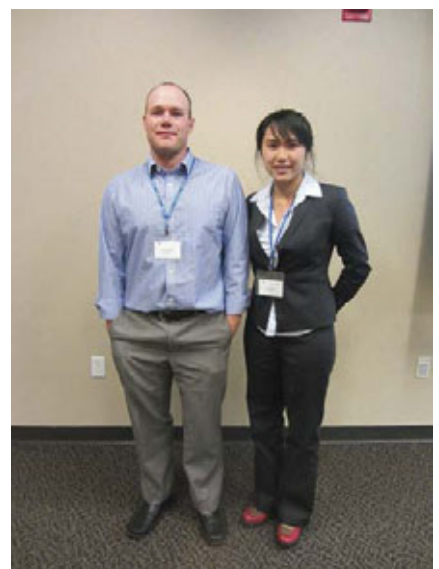
There were 30 quality technical presentations covering areas of water quality, wastewater collection and treatment, and biosolids management. In addition to the technical presentations, there was a Young Professionals forum spanning two sessions with representatives from utility management, operations, regulators and the private sector. The program spanned the gamut of topics of interest to wastewater professionals: Water Quality, Facility Operations, Wastewater and Biosolids, and Nutrients.

The luncheon was packed full of recognitions of students and operators for their accomplished and culminated with a discussion led by WEAU President Paul Krauth from the Utah Division of Water Quality. Paul's discussion centered on what WEAU is doing for its members and what we intend to do in the future. Student recognitions included the Midyear Conference Poster Contest winner, the WEAU Robert W. Okey Scholarship Graduate and Undergraduate winners, and the Student Design Competition winners. These awards are discussed in another article in this edition of Digested News.

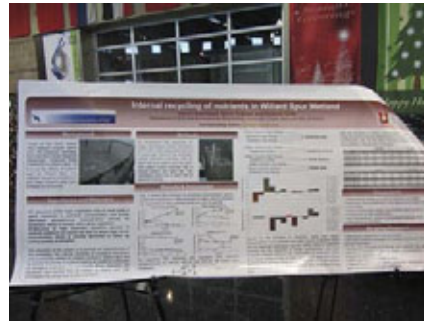
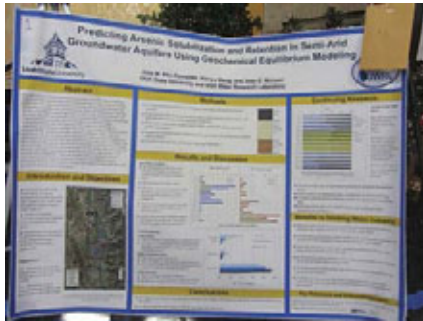
The Wasatch All Stars were recognized for taking 5th Place overall and 3rd Place in the Collections Event at WEFTEC. The Wasted Gas team won 15th place in the overall competition. Read about these teams elsewhere in this edition of Digested News.

The Midyear Conference Committee members responsible for the ongoing success of this conference include Tom Holstrom/CVWRF, Facilities; Trevor Lindley/JUB, Technical Programs Lead; Ron Clements/NDSD and Brett Olson/CWSID, Operator Program; Patty Eagler/MWH, Promotions; Tania Datta/CH2M HILL, Registration; David Hatch/Brown and Caldwell, Young Professional; Jeff Wiest/Waterford Sales, Board Liaison; and Jim Schwing/CH2M HILL, Chairman.

WEAU recognizes our sponsors: Platinum – Aqua Engineers, Bowen Collins & Associates, Brown and Caldwell, Carollo Engineers, CH2M HILL, and MWH; Gold – JUB Engineers, and Silver – HDR and Thatcher Company. Their support allows WEAU to provide quality technical programs and training opportunities, and to attract young members and support from local colleges and universities. [DN](#)



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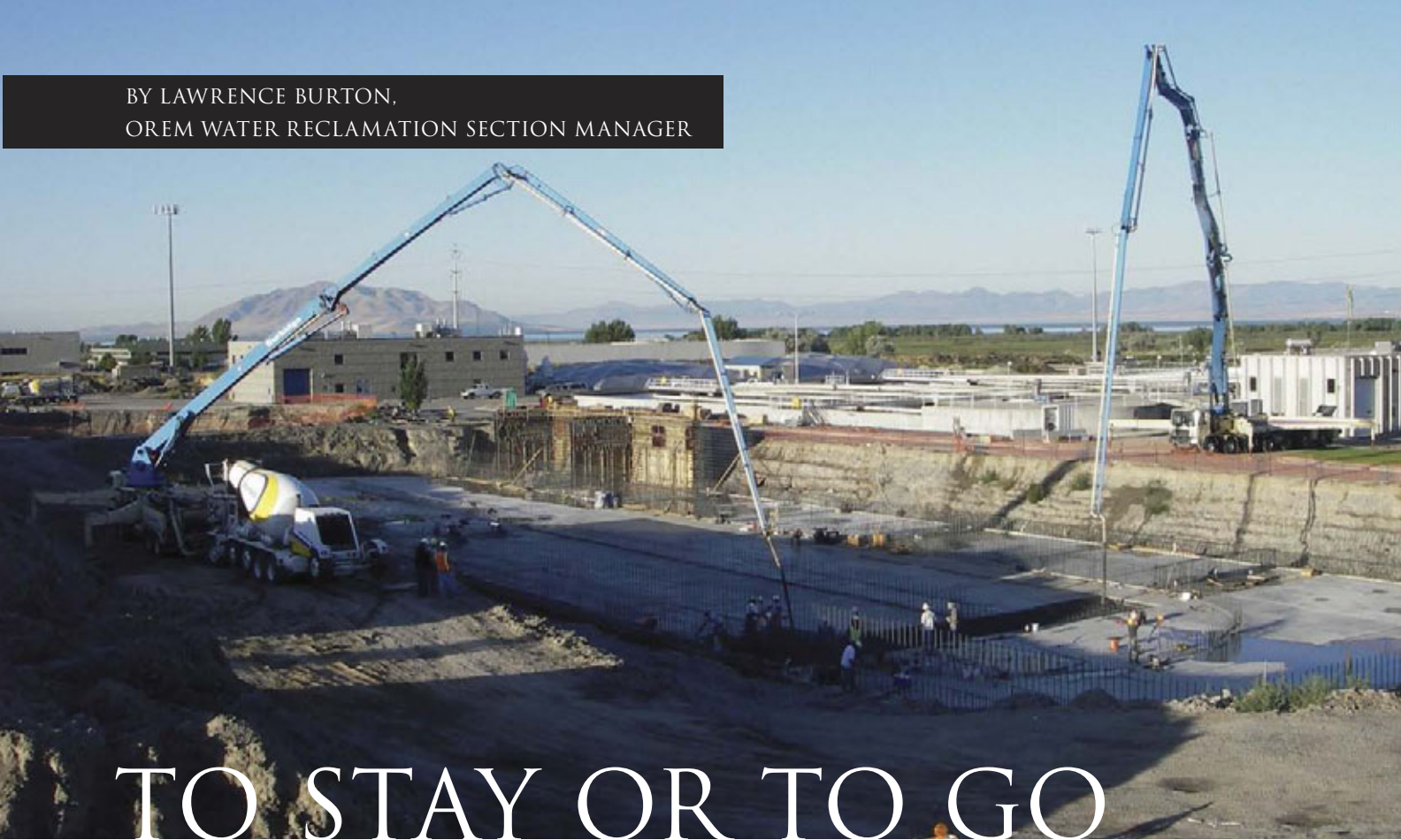
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BY LAWRENCE BURTON,  
OREM WATER RECLAMATION SECTION MANAGER



# TO STAY OR TO GO THAT WAS THE QUESTION

A couple of weeks ago, I was called into the director's office and told that I qualified for an early retirement if I was interested. I have been with Orem for almost 30 years, but had not really thought or felt like it was time for me to retire. It really made me take a long hard look at where I had been and what my future would or could be.

When I came to work for Orem City, the treatment facility was a fraction of the size it is now. It had a couple of trickling filters, a couple of anaerobic digesters and four clarifiers—two primaries and two secondaries. Chlorination was done at the outfall of the

secondary clarifiers and the discharge permit was very forgiving.

I did not know at the time that the city was in the process of advertising for bids for an expansion that would really change the look and operation of this little plant. There was talk of a 'ditch' being installed in the open area to east. I grew up on a farm in Wyoming and wondered what the heck a 'ditch' was going to do to help with treatment of sewage.

When I applied for the job with Orem City, the opening was to work in the collections system, but when I actually got hired, the need was for a welder to do some fabrication work. I worked for



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THE ONLY THING THAT IS CONSTANT IS CHANGE  
SURE HOLDS TRUE IN THE TREATMENT OF WASTEWATER.

about 8 months repairing deteriorated rebar on the interior of a digester lid and building and installing a man-way access to that same digester. I enjoyed the work and was disappointed when it was done. I then actually went to work in the collection system maintenance and learned to operate sewer cleaner trucks, raise manholes to grade, and operate a closed circuit TV system. Over time, I learned to enjoy and appreciate my job but most of all I enjoyed the association I had with fellow workers and with other people in the industry.

I spent 11 years in the collection system and then was given the opportunity to be the manager of the waste water system for Orem City. It has been a wonderful experience and I have learned more than I ever hoped to. I found out what a 'ditch' was and what it could do. I have seen new discharge permits issued to the City with new discharge limits. I have seen our plant go from very small

and simple, to 'ditches.' This year we have put on line a 'Biological Nutrient Removal' system. Sludge is not called sludge anymore. It is called 'biosolids.' And it is not just 'biosolids.' It can be 'Class A' biosolids! We not only have treatment. We have Pretreatment. Wow!

Change just keeps happening. The old saying that the only thing that is constant is change sure holds true in the treatment of wastewater. Now it is time to consider another change. A career coming to a close. Should I or shouldn't I? I have thought about it a lot and come to the conclusion that I am not quite ready to retire yet. There are some exciting new things around the corner and I have a real desire to be a part them. I want to continue my association with coworkers and with all of the great people that I have been privileged to meet and know in this important industry. I want to stay a few more years before I make the big change in my life. [DRI](#)

THERE ARE SOME EXCITING NEW THINGS AROUND  
THE CORNER AND I HAVE A REAL DESIRE TO BE A PART THEM.

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# Women of Water

A PLAN TO ENGAGE, EMPOWER AND EDUCATE

The number of women working in Utah's water industry is slowly growing, but men continue to outnumber, especially at the upper levels. The need to advance women in this multidisciplinary field cannot be overemphasized. So, when Christina Osborn, from JUB Engineers, attended a meeting organized by the Northern Utah Chapter of the Women's Transportation Seminar, she realized it would be great to have a similar networking platform for the women of Utah's water industry. The idea behind the concept was to provide benefits and support to the women in this profession to help advance their careers and reach out to the community to raise awareness on the value of working for water.


Christina started spreading the word around to gauge interest among other women and was pleasantly surprised by the support and enthusiasm. It started with naming the concept 'Women of Water' or 'WoW'; and soon she was able to gather nine other women that were motivated and willing to put their heads together to turn this concept into a reality. A preliminary steering committee was formed with members from public utilities, regulators and consulting firms, and after two meetings and a whole bunch of email exchanges and phone calls, WoW held its inaugural luncheon at the Utah Division of Environmental Quality's Board Room on October 23.

The luncheon was a great success. Forty-nine women from different parts of the water industry, including drinking water, wastewater, groundwater, water quality, water conveyance and permitting, attended. After a welcome from Marie Owens of Jordan Valley Water Conservancy District and a briefing on the purpose of the lunch meeting by Emily Bartusek of the Division of Water Quality, everyone enjoyed a quick, but

delicious bite to eat, sponsored by the Water Environment Association of Utah and Waterford Systems. The attendees then split in eight groups to discuss the name and structure of the organization, its mission and purpose, membership benefits, outreach activities, online presence and ways to acquire much required funds to do it all.

There was a clear consensus on the organization's mission. It was to **Engage, Empower and Educate**. This unique organization will be the first of its kind in the nation to bring women from different fields in the water industry together to a single networking platform. It will allow them to help each other learn and grow, provide support through mentorship, raise awareness in the state of Utah on the value of water and water conservation and give back to the society, and to the profession through water education.

All participants shared several ideas on how the organization should be structured, how funds will be acquired, what outreach activities can be planned, and the importance of social media and online presence and networking. There was no lack of enthusiasm to volunteer for different tasks that will help set up the organization. The luncheon was a testimony to the interest that Utah's women working in the field of water have in such an organization. This not only showed their dedication to growth in this field, but also how proud they were to belong to this industry. Though a lot of work lies ahead to get the organization registered and started, the participation and involvement these wonderful women made will make a huge difference.

If you are interested in getting involved with Women of Water, let us know at [womenofwater@gmail.com](mailto:womenofwater@gmail.com). You can also follow our blog at [www.utahwomenofwater.blogspot.com](http://www.utahwomenofwater.blogspot.com). 



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### SERIES 35-1 CHECK VALVES

The flat-bottom Series 35-1 features an integral rubber flange, allowing them to be mounted to flanged outfall pipes or directly to headwalls where the pipe is flush. The flange size drilling conforms to ANSI B16.10, Class 150#, or can be constructed with DIN, 2632 and other standards. The Series 35-1 Check Valve is furnished complete with steel or stainless steel backup rings for installation.



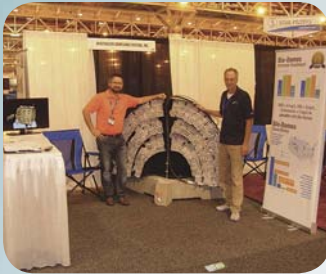
### SERIES 39 CHECK VALVES

The Tideflex® Series 39 Inline Check Valve features a fabric-reinforced elastomer check sleeve housed in a cast iron body with ANSI 125/150 flanges, allowing for easy installation into any piping system. The valve's operation is silent, non-slamming and maintenance free. Sliding, rotating, swinging and plunging parts are completely eliminated. The body is equipped with flush ports and a clean-out port and can be epoxy coated.



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# Wastewater Compliance Systems wins prestigious award



**KRAIG JOHNSON, PHD, PE AND LARRY REAVELEY, PHD, PE** are founders of the University of Utah start-up company Wastewater Compliance Systems, Inc. (WCS), which currently markets and sells treatment devices called Bio-Domes, also nicknamed Poo-Gloos. These devices provide low-cost aerated fixed-film surfaces for beneficial bacteria in wastewater treatment lagoons. They look a little like submerged igloos, hence the nickname. They maximize the oxygen transfer and scrubbing action of direct air bubble contact with the interior bio-film surfaces. Since 2008, two communities in Utah and six other communities in the U.S. have installed full scale

Bio-Dome systems, and over a dozen more have run pilot studies with very favorable results. This year WCS received a prestigious Innovative Technology Award at WEFTEC in New Orleans. One highlight of the conference was a personal visit to the display booth by the US EPA Administrator, Ms. Lisa Jackson, shown in the photo talking with Taylor Reynolds, WCS marketing manager. Also pictured is outgoing WEFTEC President Matt Bond presenting Kraig Johnson with the award plaque. Kraig also ran into one of his former UC Berkeley professors, David Jenkins, at the awards ceremony.

## WASTEWATER COMPLIANCE SYSTEMS RECEIVES PRESTIGIOUS WATER QUALITY AWARD

**ALEXANDRIA, Va.** – Wastewater Compliance Systems, Inc. (Salt Lake City, Utah) received the prestigious Innovative Technology Award from the Water Environment Federation (WEF), an international not-for-profit technical and educational water quality organization. The award was presented during a ceremony at the organization's 85th annual technical exhibition and conference this past fall in New Orleans, La.

The Innovative Technology Awards are presented annually to WEF associate members who have introduced new innovative products or services related to the construction, operation or maintenance of treatment facilities.

Wastewater Compliance Systems was recognized for its Bio-Dome, a fixed-film nutrient removal technology for wastewater lagoons. The construction of the Bio-Dome

consists of a plastic shell encapsulating several layers of polypropylene balls that are doused with air bubbles from below. A biofilm and bacteria grow inside the shaded dome, removing nutrients.

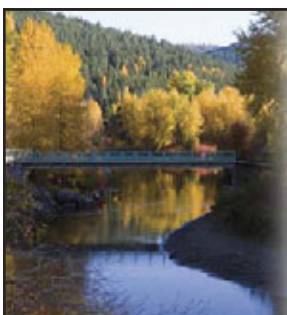
"This system solves a very difficult problem of cold water nitrification in lagoons. This will allow existing infrastructure to remain with only a retrofit, saving millions of dollars industry wide," said a member of the WEF Manufacturers and Representatives Committee (MARC).

The technology is both cost-effective and efficient. Since installing Bio-Domes into a lagoon is far less expensive than building a treatment plant, the company claimed a combined savings of \$11 million for eight installations. A side-by-side comparison of Bio-Domes to low pressure air bubbles showed that the Bio-Domes

removed more than 80 percent of the ammonia, while the air bubbles alone removed only about 15 to 20 percent.

"We have been looking for a pond-based system economical to operate to help with nitrate removal along with treatment of our effluent. I would recommend [Bio-Dome] to other lagoon systems," said Lynn Forsberg, Director of Public Works for Elko County, Nev.

Wastewater Compliance Systems were honored during WEFTEC® 2012, the largest annual water quality conference and exhibition in the world. Thousands of the world's leading water quality experts and exhibiting companies were at the New Orleans Morial Convention Center from September 29 – October 3, 2012. [DH](#)



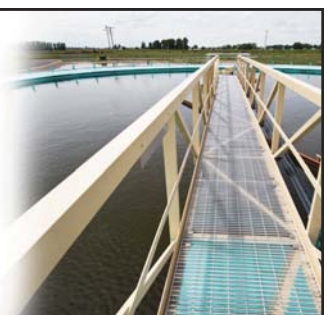
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A scenic winter landscape featuring a river flowing through a valley. The trees and ground are heavily covered in snow, creating a serene and cold atmosphere. The background shows misty, snow-covered mountains.

# WEAU

2013

## Buyers' Guide

Welcome to our *Digested News* Buyers' Guide. On the following pages, you will find information that will help you meet your purchasing requirements throughout the year ahead. The initial three pages of this Guide list categories of products and services along with the various companies that can provide them to you. The remaining three pages provide an alphabetical listing of the companies as well as the contact information you will need to reach them. All companies listed in this Buyers' Guide are advertisers in this issue of *Digested News*.

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# ➤ Products & Services Source Guide

## Activated Carbon

Calgon Carbon Corporation

## Adsorption Equipment

Calgon Carbon Corporation

## Advanced Metering Infrastructure

Neptune Technology Group Inc.

## Aeration Systems/Diffusers

Environmental Dynamics International

## AMR/AMI/MDM

Neptune Technology Group Inc.

## Anaerobic Gas Safety Equipment

Shand & Jurs, an L&J Technologies Company

## Anthrafilter / Filter Media

CEI

## Backflow Specialist

Flow Control Equipment Division

## Biogas Holders

WesTech Engineering Inc.

## Blowers/Instruments/ Gas Detection

LaTech Equipment, Inc.  
The Coombs-Hopkins Company

## Catch Basin

## Cleaning Equipment

Twin D Environmental Services

## Chemical Processing & Feed Systems

Pollard Water

## Coatings, Lining & Corrosion Control

Bowers Industrial Sales Inc.  
SpectraShield Liner Systems  
Val Kotter & Sons  
Wheeler Machinery Co.

## Computer Controls/Software

LaTech Equipment, Inc.

## Condition Assessment

Aqua Engineering, Inc.  
MWH Americas Inc.

## Construction Castings

EJ

## CSO & Stormwater Equipment

Degremont Technologies  
Hydro International  
WesTech Engineering Inc.

## Dechlorination

Pollard Water

## Design-Build Services

CH2M Hill  
EC Power Systems  
Sunrise Engineering

## Digester Gas

**Stream Equipment**  
Shand & Jurs, an L&J Technologies Company

## Disinfection Equipment

Calgon Carbon Corporation

## Electrical, Instrumentation/ Controls/Generators

EC Power Systems  
E&M Services  
LaTech Equipment, Inc.  
Pollard Water  
USEMCO

## Engineers/Consultants

Aqua Engineering, Inc.  
Bowers Industrial Sales Inc.  
Brown and Caldwell  
Carollo Engineers  
CH2M Hill  
E&M Services  
Forsgren Associates, Inc.  
Hansen, Allen & Luce, Inc.  
J-U-B ENGINEERS, Inc.  
MWH Americas Inc.  
Sunrise Engineering

## Environmental

## Contaminant Treatment

TrojanUV

## Filter Media

Degremont Technologies

## Filtration

BDP Industries, Inc.  
CEI  
Degremont Technologies  
Smith & Loveless Inc.  
The Coombs-Hopkins Company  
WesTech Engineering Inc.

## Fold And Form Pipe Lining

Val Kotter & Sons

## General Industrial

EC Power Systems  
Smith & Loveless Inc.

## Grit Removal & Washing

Hydro International  
Smith & Loveless Inc.  
WesTech Engineering Inc.

## Headworks Screening

Ambiente H2O Inc.  
Goble Sampson Associates  
WesTech Engineering Inc.

## Honda Power Equipment

EC Power Systems

## Inspector/Locators

Pollard Water

## John Deere Engine Driven Pumps

EC Power Systems

## Kohler Power Systems

EC Power Systems

## Laboratories/Supplies

Pollard Water

## Manhole Inspecting/ Locating/Mapping

J-U-B ENGINEERS, Inc.  
Twin D Environmental Services  
Val Kotter & Sons

## Manhole Rehab

SpectraShield Liner Systems

## Meters/Meter Testing

E&M Services  
Neptune Technology Group Inc.

## Meter Reading Systems

Neptune Technology Group Inc.

## Odor Control

Flow Control Equipment Division  
The Coombs-Hopkins Company

## Packaged Pump Stations

J & S Valve, Inc.  
Oldcastle Precast

## Pipe & Appurtenances

J & S Valve, Inc.

## Pipe Cleaning & Televising

Twin D Environmental Services  
Val Kotter & Sons

## Process Mechanical

Aqua Engineering, Inc.

## Pumps/Pump Systems

Ambiente H2O Inc.  
EC Power Systems  
Goble Sampson Associates  
Hansen, Allen & Luce, Inc.  
Penn Valley Pump Co., Inc.  
Pollard Water  
Smith & Loveless Inc.  
USEMCO

## Real Time Monitoring & Control

LaTech Equipment, Inc.

## Regulatory Compliance

Hansen, Allen & Luce, Inc.  
J-U-B ENGINEERS, Inc.  
Sunrise Engineering

## Residuals/Waste Management

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# ➤ Products & Services Source Guide

## Sewer Flow Monitoring (Sanitary, Storm & CSO)

Brown and Caldwell  
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Goble Sampson Associates  
J-U-B ENGINEERS, Inc.

## Sludge Screening

Hydro International

## Smoke Testing

Val Kotter & Sons

## Storage Tanks/ Reservoir Systems

Ambiente H2O Inc.  
Aqua Engineering, Inc.  
Brown and Caldwell  
J & S Valve, Inc.  
Oldcastle Precast

## Stormwater Detention & Treatment

Oldcastle Precast

## Studies/Master Plans

Hansen, Allen & Luce, Inc.

## Tools & Equipment

EC Power Systems  
Wheeler Machinery Co.

## Ultraviolet Disinfection

Ambiente H2O Inc.  
Brown and Caldwell  
Calgon Carbon Corporation  
Goble Sampson Associates  
The Coombs-Hopkins Company  
TrojanUV

## Utility Rates/ Finance Consultants

CH2M Hill  
Sunrise Engineering

## Valves

EJ  
Flow Control Equipment Division  
J & S Valve, Inc.

## Video Pipeline Inspection Equipment

Twin D Environmental Services  
Val Kotter & Sons

## Water Booster Stations

USEMCO

## Waste Gas Burners/Flares

Shand & Jurs, an L&J  
Technologies Company

## Water/Wastewater Treatment Systems

Ambiente H2O Inc.  
Aqua Engineering, Inc.  
BDP Industries, Inc.  
Brown and Caldwell

Calgon Carbon Corporation  
CH2M Hill  
Degremont Technologies  
Environmental Dynamics  
International  
Forsgren Associates, Inc.  
Goble Sampson Associates  
Hydro International  
J & S Valve, Inc.  
J-U-B ENGINEERS, Inc.  
Smith & Loveless Inc.  
The Coombs-Hopkins Company  
TrojanUV

## Water/WW/Pipeline/ Environmental Design

MWH Americas Inc,

## Wireless Communication

E&M Services

# ➤ Company Listings

## ➤ Ambiente H2O Inc.

925 East 900 South  
Salt Lake City, UT 84105  
801-815-8426 Fax: 303-380-0664  
[aokes@ambienteh2o.com](mailto:aokes@ambienteh2o.com)  
[www.ambienteh2o.com](http://www.ambienteh2o.com)

## ➤ Aqua Engineering, Inc.

533 West 2600 South Suite 275  
Bountiful, UT 84010  
801-299-1327 Fax: 801-299-0153  
[bradr@aquaeeng.com](mailto:bradr@aquaeeng.com)  
[www.aquaeeng.com](http://www.aquaeeng.com)

## ➤ BDP Industries, Inc.

354 Route 29  
Greenwich, NY 12834  
518-527-5417 Fax: 518-695-5417  
[Kelly@BDPIndustries.com](mailto:Kelly@BDPIndustries.com)  
[BDPIndustries.com](http://BDPIndustries.com)

## ➤ Bowers Industrial Sales Inc.

3645 West 1987 South  
Salt Lake City, UT 84104  
801-977-0508 Fax: 801-977-0549  
[bowers@xmission.com](mailto:bowers@xmission.com)  
[www.bowersindustrial.com](http://www.bowersindustrial.com)

## ➤ Brown and Caldwell

6955 Union Park Center Suite 270  
Salt Lake City, UT 84047  
801-316-9800 Fax: 801-565-7330  
[pbeck@brwnncald.com](mailto:pbeck@brwnncald.com)  
[www.brownandcaldwell.com](http://www.brownandcaldwell.com)

## ➤ Calgon Carbon Corporation

500 Calgon Carbon Drive  
Pittsburgh, PA 15205  
412-787-6700 Fax: 412-787-6676  
[info@calgoncarbon-us.com](mailto:info@calgoncarbon-us.com)  
[www.calgoncarbon.com](http://www.calgoncarbon.com)

## ➤ Carollo Engineers

1265 Fort Union Blvd., #200  
Midvale, UT 84047  
801-233-2500 Fax: 801-233-2501  
[CAshcroft@carollo.com](mailto:CAshcroft@carollo.com)  
[www.carollo.com](http://www.carollo.com)

## ➤ CEI

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800-344-5770 Fax: 888-204-9656  
[rick@ceifiltration.com](mailto:rick@ceifiltration.com)  
[www.ceifiltration.com](http://www.ceifiltration.com)

## ➤ CH2M Hill

215 South State Street, Suite1000  
Salt Lake City, UT 84111  
801-350-5200 Fax: 801-355-2310  
[Jim.Schwing@CH2M.com](mailto:Jim.Schwing@CH2M.com)  
[www.CH2M.com](http://www.CH2M.com)

## ➤ Degremont Technologies

8007 Discovery Drive  
Richmond, VA 23229  
804-756-8423  
[Sylvie.roy@degremont.com](mailto:Sylvie.roy@degremont.com)  
[www.degremont-technologies.com](http://www.degremont-technologies.com)

## ➤ EC Power Systems

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Salt Lake City, UT 84120  
801-886-1424 Fax: 801-886-1464  
[marks@e-c-co.com](mailto:marks@e-c-co.com)  
[www.ecpower.com](http://www.ecpower.com)

## ➤ E&M Services

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[bk84783@gmail.com](mailto:bk84783@gmail.com)  
[www.scadasystems4u.com](http://www.scadasystems4u.com)

## ➤ EJ

58 South 1200 West  
Tooele, UT 84074  
800-626-4653  
[us.sales@ejco.com](mailto:us.sales@ejco.com)  
[ejco.com](http://ejco.com)

## ➤ Environmental Dynamics International

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Columbia, MO 65202  
877-334-2478 Fax: 573-474-6988  
[environmentaldynamics@wastewater.com](mailto:environmentaldynamics@wastewater.com)  
[www.wastewater.com](http://www.wastewater.com)

## ➤ Flow Control Equipment Division

10291 South 1300 East-Suite 140  
Sandy, UT 84094  
801-571-0304 Fax: 801-576-5617  
[flowcontrolequipment@botmail.com](mailto:flowcontrolequipment@botmail.com)

## ➤ Forsgren Associates, Inc.

370 East 500 South, Suite 200  
Salt Lake City, UT 84111  
801-364-4785 Fax: 801-364-4802  
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[dritter@goblesampson.com](mailto:dritter@goblesampson.com)  
[www.goblesampson.com](http://www.goblesampson.com)

## ➤ Hansen, Allen & Luce, Inc.

6771 South 900 East  
Midvale, UT 84047  
801-566-5599 Fax: 801-566-5581  
[moble@hansenallenuce.com](mailto:moble@hansenallenuce.com)  
[www.hansenallenuce.com](http://www.hansenallenuce.com)

## ➤ Hydro International

2925 NW Aloclek Suite 140  
Hillsboro, OR 97124  
866-615-8130 Fax: 503-615-2906  
[wastewater@hydro-int.com](mailto:wastewater@hydro-int.com)  
[www.hydro-int.com](http://www.hydro-int.com)

## ➤ J & S Valve, Inc.

2323 1st Street  
Huffman, TX 77336  
281-324-3990 Fax: 281-324-4595  
[kmp@JandsValve.com](mailto:kmp@JandsValve.com)  
[www.jandsvalve.com](http://www.jandsvalve.com)

## ➤ J-U-B ENGINEERS, Inc.

466 North 900 West  
Kaysville, UT 84037  
801-547-0393 Fax: 801-547-0397  
[tlindley@jub.com](mailto:tlindley@jub.com)  
[www.jub.com](http://www.jub.com)

## ➤ LaTech Equipment, Inc.

1950 South 900 West, Suite S7  
Salt Lake City, UT 84104  
801-886-1145 Fax: 801-886-1170  
[info@latechequipment.com](mailto:info@latechequipment.com)  
[www.latechequipment.com](http://www.latechequipment.com)

## ➤ MWH Americas Inc.

2890 East Cottonwood Parkway, Suite 300  
Salt Lake City, UT 84121  
801-617-3200 Fax: 801-617-4200  
[Stanley.s.postma@mwhglobal.com](mailto:Stanley.s.postma@mwhglobal.com)  
[www.mwhglobal.com](http://www.mwhglobal.com)

## ➤ Neptune Technology Group Inc.

1600 Alabama Highway 229  
Tallahassee, AL 36078  
334-283-6555 Fax: 334-283-7293  
[marketing@neptunetg.com](mailto:marketing@neptunetg.com)  
[www.neptunetg.com](http://www.neptunetg.com)

## ➤ Oldcastle Precast

801 West 12th Street  
Ogden, UT 84404-5407  
888-965-3227  
[steve.kingsland@oldcastle.com](mailto:steve.kingsland@oldcastle.com)  
[www.oldcastleprecast.com/pumpstations](http://www.oldcastleprecast.com/pumpstations)

## ➤ Penn Valley Pump Co., Inc.

998 Easton Road  
Warrington, PA 18976  
215-343-8750 Fax: 215-343-8753  
[info@pennvalleypump.com](mailto:info@pennvalleypump.com)  
[www.pennvalleypump.com](http://www.pennvalleypump.com)

## ➤ Pollard Water

17515 NE 67th Court  
Redmond, WA 98052  
800-437-1146 Fax: 425-861-7235  
[info@pollardwater.com](mailto:info@pollardwater.com)  
[www.pollardwater.com](http://www.pollardwater.com)

## ➤ Shand & Jurs, an L&J Technologies Company

5911 Butterfield Road  
Hillside, IL 60162  
708-236-6000 Fax: 708-236-6006  
[mlatif@ljtechnologies.com](mailto:mlatif@ljtechnologies.com)  
[www.ljtechnologies.com](http://www.ljtechnologies.com)

## ➤ Smith & Loveless Inc.

14040 Santa Fe Trail Drive  
Lenexa, KS 66215  
913-888-5201 Fax: 913-888-2173  
[answers@smithandloveless.com](mailto:answers@smithandloveless.com)  
[www.smithandloveless.com](http://www.smithandloveless.com)

## ➤ SpectraShield Liner Systems

4527 Sunbeam Road  
Jacksonville, FL 32257  
904-419-4889 Fax: 904-419-4892  
[info@spectrashield.com](mailto:info@spectrashield.com)  
[www.spectrashield.com](http://www.spectrashield.com)

## ➤ Sunrise Engineering

12227 South Business Park Drive,  
Suite 220  
Salt Lake City, UT 84020  
801-523-0100 Fax: 801-523-0990  
[ckusterle@sunrise-eng.com](mailto:ckusterle@sunrise-eng.com)  
[www.sunrise-eng.com](http://www.sunrise-eng.com)

## ➤ The Coombs-Hopkins Company

2825 East Cottonwood Parkway  
#500  
Salt Lake City, UT 84121  
801-990-3174 Fax: 801-990-3247  
[mike@coombshopkins.com](mailto:mike@coombshopkins.com)  
[www.coombshopkins.com](http://www.coombshopkins.com)

## ➤ TrojanUV

3020 Gore Road  
London, ON N5V 4T7  
519-457-3400 Fax: 519-457-3030  
[info@trojanuv.com](mailto:info@trojanuv.com)  
[www.trojanuv.com](http://www.trojanuv.com)

## ➤ Twin D Environmental Services

3038 North 750 East  
Layton, UT 84041  
801-771-3038 Fax: 801-771-3040  
[medenny1@twind.net](mailto:medenny1@twind.net)  
[www.twind.net](http://www.twind.net)

## ➤ USEMCO

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Tomah, WI 54660  
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## ➤ Val Kotter & Sons

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435-734-9598 Fax: 435-734-9870  
[pearl@valkotterandsons.com](mailto:pearl@valkotterandsons.com)  
[www.valkotterandsons.com](http://www.valkotterandsons.com)

## ➤ WesTech Engineering Inc.

3665 South West Temple  
Salt Lake City, UT 84115  
801-265-1000 Fax: 801-265-1080  
[info@westech-inc.com](mailto:info@westech-inc.com)  
[www.westech-inc.com](http://www.westech-inc.com)

## ➤ Wheeler Machinery Co.

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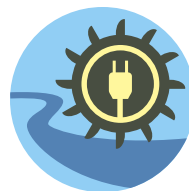
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# A busy year for the WEAU Student Activities Committee

By Gary Vance, WEAU – Student Activities Committee Chair

The student poster competition was held at the Midyear Conference and the winning poster was selected by conference attendees. Three posters were submitted. Congratulations to Allia Abu-Ramaileh from Utah State University who won \$500 for her poster. Thanks to David Hatch (Brown and Caldwell) for organizing the poster competition.

We also announced the winners of the Dr. Robert W. Okey scholarship at the mid-year conference luncheon. The Dr. Robert W. Okey Scholarship was established in honor of a man who dedicated over 50 years to the wastewater industry along with his service to WEAU. Thanks to Tom Holstrom (CVWRF) and Darrel Dixon for organizing the scholarship competition and creating essay questions with challenging topics such as industrial waste pretreatment, endocrine disruptors,

and water reuse applications. Seven essays were submitted. Congratulations to Nathan Coonen (Junior at Utah State University) and Sha Wu (graduate student at University of Utah) who each won \$3,000 for their papers.

Also recognized at the mid-year luncheon was the University of Utah student design team that competed at WEFTEC in New Orleans this year. Congratulations to Mitch Hogsett, Pei Huang, and Michael Moe on their strong showing. They were voted runner-ups for their presentation and paper on Phosphorus Removal and Struvite Mitigation Improvements at Central Valley Water Reclamation Facility.

We are excited to announce the topic for the 2013 Student Design Competition: Fats Oils and Grease (FOG) Recovery for Anaerobic Digestion Augmentation and Increased Methane Production Feasibil-

ity Study. Thanks to South Davis Sewer District for agreeing to participate in this competition. The Student Activities Committee has been busy coordinating and visiting with students and professors at USU, U of U, and BYU to get the word out about this prestigious competition. Once again, WEAU plans to sponsor the winning team to compete at WEFTEC 2013 in Chicago. Please direct any questions regarding this competition to Matt Myers (SDSD) or Gary Vance (J-U-B).

The WEAU Young Professionals Committee frequently sponsors tours of treatment plants and other activities throughout the year. As always, students, operators, and other WEAU members are invited to attend these activities to learn about technologies used at other treatment plants as well as to network and meet others in our industry. [DN](#)

# Thanks for your donations

By Becky Tanner

This year at the Midyear Conference we were able to collect a full bin of donations. The donations consisted of bedding, clothing, coats, games, personal care items, money & other miscellaneous items, which were all donated to **The Road Home**. **The Road Home** is located at 210 Rio Grande St in Salt Lake City.

**The Road Home** is a private non-profit social service agency that assists both individuals & families struggling along the Wasatch front. In 2011 they received the Non-Profit Achievement Award from the National Alliance to End Homelessness.

They have emergency shelters and personalized case-management personnel who help people identify and overcome their homelessness. Children staying in **The Road Home** family shelter are enrolled in programs that offer enrichment activities, exercise as well as helping the children with their homework. They have a supportive-service team whose goal is to provide the support and guidance needed to help find and maintain housing during this difficult transitional period.

**The Road Home** has an emergency shelter that provide rooms for families and individual beds for men and women. They have a winter shelter that operates from around November to April, located in Midvale at 529 W. 7300 S. for families. For more information about **The Road Home**, or to donate, you can go to their website [www.theroadhome.org](http://www.theroadhome.org). Thanks



again to all those who donated and for your help in giving to those in our community, that are looking for a hand up not just a hand out. [DN](#)

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# YPs busy at Midyear Conference

By David Hatch

The Young Professionals organized several events as part of this year's WEAU's Midyear Conference. The Young Professionals held a forum that allowed YP's, students, and others starting out in the wastewater industry to ask questions from leaders in the field to help them develop the skills and habits necessary for career advancement. The panel asked inquiring questions on tips about the interview/hiring process, and their opinion on what it takes to be successful in this industry.

This year's panel members were; Myron Bachman – Plant Superintendent North Davis Sewer District, Ed Macauley – Engineering Section Manager Utah Division of Water Quality, Jim Schwing – Vice President CH2M Hill, and Lance Wood – General Manager Central Weber Sewer Improvement District.

The panel discussion addressed the characteristics the panel members have developed throughout their careers. The forum also provided a unique perspective of how the industry has changed during the panel members careers and their thoughts on the direction the industry will be heading into the future. The forum was a huge success and everyone in attendance was thoroughly interested in the panel members thoughts and ideas.

The WEAU Young Professionals Committee held a first-ever evening social in conjunction with WEAU's fall Midyear Conference. The purpose of the social was to provide those YPs attending

the conference with an opportunity to network and discuss the highlights of the conference. The YP Midyear Conference social was held at Red Robin Gourmet Burgers in West Valley City. In attendance were about a dozen people, which included several practicing engineers, new hires, engineering undergraduate and graduate students, and Paul Krauth. The fun and friendly atmosphere helped every attendee form professionally beneficial relationships with their peers.

This year, the WEAU Young Professionals also held a cash and clothing drive for **The Road Home**. The YP Committee is planning to organize future service projects. Email one of us with your ideas!

The Young Professionals plan to organize several events for the winter and spring, including plant tours and events at the Annual Conference. If you have a suggestion or want to be on our YP email list send an email to [yp@weau.org](mailto:yp@weau.org). There are a number of ways to stay informed about our events:

- the WEAU email list ([membership@weau.org](mailto:membership@weau.org)),
- the YP email list ([yp@weau.org](mailto:yp@weau.org)),
- the Young Professionals page on the WEAU website (<http://www.weau.org/who-we-are/young-professionals>),
- a facebook page (Water Environment Association of Utah Young Professionals) and
- a twitter feed ([@weaunyp](https://twitter.com/weaunyp)).

Get involved! Young Professionals activities are open to anyone that is: an operator, engineer, regulator, technician or researcher in the wastewater field; 35 years old or younger; a recent WEAU member; a university student; or has been in the wastewater industry less than five years. [Dn](#)

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To reach Utah's water industry professionals through the *Digested News* magazine and its targeted readership, contact Chad at your earliest convenience to discuss your company's promotional plans for 2013.



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# Combined Committee Effort training



**T**he Combined Committee Effort offered training on November 28, 2012 for anyone interested in Pretreatment, Collections, and Biosolids. Eppie Trujillo, Central Valley, started off the morning off talking about illegal dischargers in pretreatment. Brian Nielson, Utah County Health Department shared his experience with illegal dumping/ septic haulers. Safety West finished the morning demonstrating fall protection and confined space equipment and safety points. Lunch was plentiful and tasty and of course, the brownies were my favorite.

Dr. Mike McFarland, Utah State University, discussed how to maintain Quality Biosolids through Pretreatment. His discussion about local limits and Maximum Allowable Headworks Load (MAHL) was very informative.

The weather was perfect, the training beneficial, the food great, but the time spent with friends and colleagues was the best part of the day.

A big thanks to the committees who put this training together. 



**Our concern for the environment**



## is more than just talk

**As we continue to deliver valuable information through the pages of this magazine, in a printed format that is appealing, reader-friendly and not lost in the proliferation of electronic messages that are bombarding our senses, we are also well aware of the need to be respectful of our environment. That is why we are committed to publishing the magazine in the most environmentally-friendly process possible. Here is what we mean:**

- We use lighter publication stock that consists of recycled paper. This paper has been certified to meet the environmental and social standards of the Forest Stewardship Council™ (FSC®) and comes from responsibly managed forests, and verified recycled sources making this a RENEWABLE and SUSTAINABLE resource.
- Our computer-to-plate technology reduces the amount of chemistry required to create plates for the printing process. The resulting chemistry is neutralized to the extent that it can be safely discharged to the drain.
- We use vegetable oil-based inks to print the magazine. This means that we are not using resource-depleting petroleum-based ink products and that the subsequent recycling of the paper in this magazine is much more environment friendly.
- During the printing process, we use a solvent recycling system that separates the water from the recovered solvents and leaves only about 5% residue. This results in reduced solvent usage, handling and hazardous hauling.
- We ensure that an efficient recycling program is used for all printing plates and all waste paper.
- Within the pages of each issue, we actively encourage our readers to REUSE and RECYCLE.
- In order to reduce our carbon footprint on the planet, we utilize a carbon offset program in conjunction with any air travel we undertake related to our publishing responsibilities for the magazine.

***So enjoy this magazine...and KEEP THINKING GREEN.***

# Recruiting

## Awards Committee needs

We are in need of experienced individuals to chair various evaluation committees:

- Pretreatment
- Collections
- Safety
- Operators
- Others

The kickoff meeting for the awards committees will be **January 3, 2013 from 11:00 to 12:30 at 195 North 1950 West in Salt Lake City**. Individuals will have the opportunity to visit nominated facilities and individuals throughout the State. Groups will be formed with 3 to 5 people with a lead. The lead in the group is required to have 3 years experience and be willing to coordinate the other members in the group to visit with the nominees, previous winners are a plus.

Forms will be provided at the kickoff meeting for CEU's to be submitted to Judy Etherington, once the committees have completed the visits with the nominees.

The WEAU awards program publicly recognizes excellence in individuals and entities in many areas of our industry throughout the year.

## Some of the rewards and benefits to you:

- State Wide Recognition
- Community Recognition & Exposure
- P/R and Marketing Opportunities
- Prestige and Enhanced Reputation
- Capacity and Leadership
- Award for Prominent Display
- Boost to Employee Morale
- Training/CEU'S
- Networking

Thanks for your support!! 



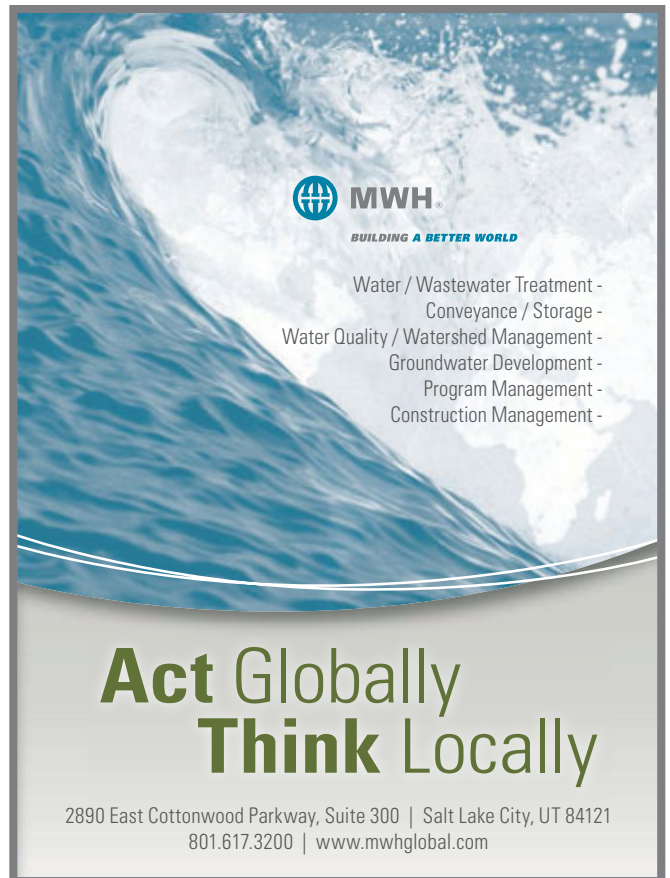
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