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• Sanitary Sewer Acoustic Inspection

Our Vision: The Virginia Water Environment Association (VWEA) will preserve and enhance Virginia’s Water Environment, now and for future generations.
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Sanitary Sewer Acoustic Inspection: Town of Mineral 41
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WATER AND WASTEWATER EQUIPMENT SALES

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**LANDIA:** Submersible Mixers, Recycle Pumps, Chopper Pumps, Jet Aerators, Digester Mixing Systems

**LIQUID TECH:** Bolted Stainless Steel Tanks

**OMNISITE:** Web Based Cellular Monitoring

**PROMINENT FLUID CONTROLS:** Liquid and Dry Polymer Feed Systems

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**PURIFICS:** Chemical Free Water and Wastewater Purification Systems including AOP+ Systems

**PW TECH:** Volute Dewatering Presses and Thickeners, CSO/SSO Products including Bar Screens, Cyclones, Tipping Buckets, and Solids/Floatables Removal

**ROBINSON GROUP:** Biogas Conditioning and Energy Production Systems for Municipal and Industrial Biogases

**SHELTER WORKS:** Fiberglass Enclosures

**THERMAL PROCESS SYSTEMS:** ThermAer™ ATAD Biosolids Reduction Process for Class A Biosolids

**VOGELSANG:** Rotary Lobe Sludge Pumps and In-Line Macerators

**WATER INCORPORATED:** Package and Field Erected Wastewater Treatment Plants
Greetings once again from the southwest corner of Virginia! Well, we’re at that point in our year where the VWEA activities are ramping up to full speed. Most likely you are receiving the monthly E-newsletter or individual event notifications, which are sent out regularly by our Association Administrator, Kathy Rabalais. If you haven’t been receiving these notifications, check your SPAM blocker, or ask your IT department if the domain or user name could be added as a safe sender. Doing so will ensure you are kept abreast of the latest offerings resulting from the diligent efforts of numerous committees that are developing events for the benefit of the membership. Of course, you can always go to www.vwea.org to determine what offerings are available in the event you don’t want to receive email notifications. The website is updated regularly so as to ensure the latest information is available to the membership. Whatever you choose as the means by which you obtain information on the upcoming events of the association, make sure to take the time and register early for the events you plan on attending, as some events may be limited to the number of registrants allowed.

**CALLING ALL VOLUNTEERS!** I am continuously amazed at the level of volunteer efforts within our association. Although the number of volunteers is substantial, there is always room for more. As the success of our many events continues to result in larger attendance, the amount of the workload for our volunteer base continues to increase. With that increased workload, and when considering many of our members have been volunteering their time for decades, many on multiple committees, there needs to be an influx of new volunteers to help spread the workload.

Several years back, the association

**Thank You, Volunteers**

responded to the need to provide a forum through which professional wastewater operators could obtain Continuing Professional Education (CPE) credits for license renewal requirements of the Commonwealth of Virginia. In order to provide the necessary review of training sessions to ensure they met the requirements to be qualified for CPE credit, the Continuing Education and Development committee was established to review abstracts to determine their worthiness for CPE credit. Considering the growth of so many of our conferences, the workload for this committee has greatly increased. If you feel that this is a committee on which you could volunteer, then contact me and I will put you in touch with the committee chair, or go to www.vwea.org, to access committee contact information.

Another committee, now a joint committee with VA AWWA, which is in need of a vice chairperson is the Safety and Security Committee. If you, or an associate you know, have experience as a safety manager or in the safety field, then this is an outstanding opportunity to get involved with this committee by volunteering your time. These are but two examples of the many volunteer opportunities that exist within the association. I encourage you to look at the committee offerings and determine on which committee(s) you could best serve, and then JUST DO IT! Each of us has received many benefits from VWEA over the years, so ask yourself, is it time for me to give back a little by volunteering on a committee?

I look forward to seeing as many of you as possible at the various VWEA events this year. It’s going to be a GREAT year! Oh, and one last request related to our committees – when you get the chance, say THANKS to the VWEA committee volunteers you know. They work hard for you! See you around.
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would like to take the opportunity to thank our 2013 corporate sponsors. You will find a complete list of this year’s sponsors on page 42 of this edition of The Conduit. Sponsors help us provide many programs and activities, including statewide specialty conferences, regional meetings on topics of local interest, operations training events, awards, public education, student design competition and judging of high school science fairs. Additionally, this year 50% of all sponsorship proceeds have been designated to go into the expanded VWEA Scholarship Fund! Thank you to each of our sponsors for helping make VWEA programs a success.

Another key part of the success of our organization is our leaders. This year VWEA’s Board of Directors will be soliciting nominations for Secretary/Treasurer, Vice President and PWO Representative. Serving on a professional association board can be very rewarding, both personally and professionally. Besides working with a great group of people, serving on the board provides you with the opportunity to develop leadership and management skills, build relationships and help shape the future of our association. If you are interested in serving or know someone who would be interested, please contact Grace LeRose, grace.lerose@richmond.gov.com.

If you feel serving on the board is too much of a leap we have many committees that can provide you with the opportunity to get involved, learn some new skills, meet new people and have some fun. All our committees are open to new members. Take a moment to visit our website, www.vwea.org, and view the committee descriptions and contact information. I am sure you will find one that piques your interest. As always, if you have questions or want more information, feel free to contact me. I will be glad to help!!

Join the Board
Come join us for the Joint Annual Meeting of The Virginia Water Environment Association and Virginia American Water Works Association – WaterJAM! Since 2002, WaterJAM has been a record-setting conference registering a growing number of participants each year, and 2012 was by far the most successful. Due to your commitments, WaterJAM grew another 14% this past year from 1189 attendees in 2011 to 1386 attendees in 2012! In 2013 we are enhancing our performance with the Racing to Richmond theme to ensure that we continue to grow our attendance, provide the latest in technology, and advance your knowledge and conference experience in this highly technical world.

We have partnered with the Greater Richmond Convention Center (GRCC) and the Richmond Marriott to host our activities from September 9-12, 2013. The GRCC and our host hotel, Richmond Marriott, are right in the heart of Richmond, our state capital, within walking distance to shops, restaurants, trendy boutiques, and numerous sports and entertainment attractions. Renowned for its flourished cultural community, first-class museums, prominent universities, its own symphony and ballet opera, spectacular dining and art galleries, and historic landmarks, Richmond is at the heart of Virginia which makes it the perfect location this September to attend another successful WaterJAM. With the fun and excitement of Richmond, the WaterJAM conference brings over 1300 professionals together who will present new ideas, update you on current regulatory initiatives, and discuss industry hot topics that we face in our water and wastewater world.

Again, due to your commitments, we had the largest response for our Call for Papers for 2013. An astonishing 14% increase in abstract submissions from 323 in 2012 to 377 in 2013. Needless to say that the Technical Programs Committee Co-Chairs Stephanie Spalding and Phil Yi are hard at work. Due to the overwhelming response, the Technical Program will be expanded again this year to offer nine concurrent sessions, resulting in 179 presentations given over three days. Some new sessions offered this year include: Stormwater Compliance, Stormwater Management and Planning, Wet Weather Planning, Disinfecting for Compliance, Innovated Approaches to Wastewater Treatment, and Water Distribution System Modeling. It is certain that there is something for everyone in the diverse program! Furthermore, the additional presentations will allow more engineer and operator educational credits to be offered than ever.

Local Arrangements Committee Co-Chairs Shawn Heselton and Paul Delphos and our well-oiled machine of volunteer committee and subcommittee members from both WVEA and VA AWWA have been hard at work to ensure your expectations are not only met but exceeded. The committee is focused on providing activities that give participants the opportunities to network, socialize, learn, and have fun. New for this year will be the Wellness Challenge, so stay tuned!

As always we strive for excellence and therefore The Country Club at the Highlands will be hosting our Golf Outing this year. In addition, our popular Clay Shoot will be held at none other than the Old Forge Sporting Clays in Providence Forge, Virginia. Each event is sure to provide loads of competition, opportunity for hole sponsorship, and excellent prizes provided by our generous water and wastewater community. For those who would rather stimulate their intellect than their golf swing, there will be workshops held covering a variety of timely topics on Monday that award you the opportunity for education and collaboration.

After your day of golfing, clay shooting, enjoying the workshops, join your friends at our host hotel, the Richmond Marriott for the Meet and Greet to kick off the conference in style with a racing theme to celebrate the NASCAR Race weekend at the Richmond Raceway! This venue, right in the heart of Richmond, has two restaurants and an amazing history of arts, and is sure to please at this casual event. Not to mention fantastic live acoustic music as a backdrop. Don’t miss this event and let your friends tell you how AWESOME it was the next morning!
At the pinnacle of the conference, we will host our Wednesday night Reception and Fun Night at the Richmond Marriott Hotel. The pre-dinner reception is a great time to mingle with friends and colleagues and a perfect opportunity to meet our WEF and AWWA national representatives. After dinner, it is always exciting to recognize the top performers in our profession with prestigious awards. Once the dinner hour is complete, it is time to have some fun. Think of the racing theme to get started, and let your imagination do its magic. More to come!

The Young Professional (YP) are as active as ever for this year’s WaterJAM. The YP Planning Committee is racing to make the 2013 JAM one of the best for new and current young professionals and students. Further details for all YP events will be available in the summer issue of The Conduit. In the meantime, if you have any questions or ideas, please contact our YP Liaison Christel Dyer at cdyer@hrsrd.com.

The YP Committee is currently planning the following events:
- Community Service Project – Planned for the Sunday prior to the start of JAM.
- Corn Hole Challenge – This event was a huge success last year. This year there will be three sets of boards to play on and win!
- YP Technical Session – An entire technical session showcasing current Young Professionals!
- YP Workshop – This year there will be two parts to the workshop. Part 1 will be technical in nature and Part 2 will be an open panel for experienced YPs to discuss what the up and coming students and YPs can expect in their career from the time they graduate into their early 30’s, in both the private and public sector.
- Poster Contest – Another great time to showcase students and YPs! The boards will be set up just outside of the exhibit hall. Watch for e-mails calling for abstracts; winning posters will receive $1,000!
- YP Meet and Greet – Join other young professionals and students who represent the future of our industry in a laid back atmosphere. This is a great opportunity to learn about YP activities and to get to know other YPs in varying fields. The YP Reception will be located in the Marriott, prior to the JAM Meet and Greet. Also, stay on the lookout for a flyer that will help fellow YPs navigate How to Gain Approval to Attend Water JAM 2013. This document will be available on the VWEA website, as well in the summer issue of The Conduit and Tap Into Virginia.

Keeping up with technology, WaterJAM has completely moved into the 21st century. Not only will we have a new and improved version of the waterJAM app at this year’s conference (Apple and Android), you can also start following us on Twitter (#WaterJAM). See you there!

The Exhibits Committee Co-Chairs, Matt
Harrison and Nate Mathis, are working to make sure this year’s Exhibit Hall is even bigger and better than last year. After the success of the exhibitor trailers last year, the committee has doubled the size of the trailer exhibit area. So this year, look for even more valves, pumps and other technologies that are emerging in our industry. Back by popular demand, Cornhole will be expanded to three sets of boards this year. Start warming up now, as the more games you win, the better chance you have at taking one of these custom sets home! As always, the event area will be hosting the Rapid Tappin’, Meter Madness, and other Utility Rodeo exhibitions. Don’t forget the Water For People Silent Auction, Water Reach Raffle, and free Wi-Fi access as you spend time in the Exhibit Hall visiting with vendors and networking over delicious food.

Our entire committee extends its gratitude for making last year an amazing success, but we want you to tell a friend or colleague how much you enjoyed the conference and bring them with you this year. Just imagine if 50% of the participants brought a friend, what an incredible Racing to Richmond WaterJAM we will have in 2013. We look forward to shaking your hand and welcoming you to Virginia’s capital this year, so please seek us out and let us know what you are excited about during this year’s WaterJAM.

The WaterJAM 2013 conference is the premier event for the Virginia water and wastewater professional to attend and hotel rooms will move quickly, so make sure to register and book early. Registration opens online on May 1, 2013. We look forward to seeing you in Richmond! @

Respectfully Yours,
Erica Carter and Eddie Abisaab
Water JAM 2013 Co-Chairs

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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.
To reach wastewater professionals through *The Conduit* magazine and its targeted readership, contact Dave at your earliest convenience to discuss your company’s promotional plans for 2013.

Dave Gill, Marketing Manager
Toll Free: 866-985-9791
E-mail: david@kelman.ca

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SAVE THE DATE
VA AWWA/VWEA WaterJAM 2013
September 8 through 12, 2013
Greater Richmond Convention Center

Racing to Richmond

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WATERJAM/FRESH IDEAS POSTER CONTEST
An event for Young Professionals to present their work at WaterJAM!

What is the WaterJAM/Fresh Ideas Poster Contest?

• An event for students and young professionals to present their work at WaterJAM.
• Posters will be displayed prominently at the statewide 2013 WaterJAM in Richmond, VA.
• A panel of industry experts will select the best overall poster as WaterJAM Poster Contest winner.
• The top poster related to drinking water topics will go on to represent the Virginia AWWA Section at the 2014 AWWA Annual Conference and Exposition and win $1,000 to cover travel costs!
• The top poster related to wastewater topic will also receive a prize in the amount of $1,000!

Submit your abstract today!

• Submit abstracts (100 words or less) by July 14, 2013
• Submit your abstracts and questions to:
  - Katy Baragar (Kathryn.Baragar@kimley-horn.com) at 757-548-7300 or
  - Ryan Clark (Ryan.Clark@kimley-horn.com) at 757-548-7353 for detailed contest rules.
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Here's the TrojanUV Signa™. It's ideal for those municipalities wanting to upgrade their wastewater disinfection system or convert from chlorine. The system provides high UV output, high electrical efficiency and the lowest lamp count (thanks to TrojanUV Solo Lamp™ Technology). It's also easy to operate and maintain. Quartz sleeves are automatically cleaned with ActiClean™. Lamp replacements are simple. And if you need to lift a bank from the channel, just activate the Automatic Raising Mechanism.

Learn more at trojanuv.com/signa.
Virginia Water Environment Association (VWEA)’s Operations Challenge and Operations Education Conference Committee invites you to attend!

Hosted in the Blue Ridge Mountains in beautiful Roanoke, Virginia.

EVENT CHAIRS
Barbara Jackson
City of Richmond Chair

Laurissa Cubbage
Hazen and Sawyer Vice-Chair, Education Conference

Dave Beck
Retired Co-Vice-Chair, Operations Challenge

Jewel Minor
City of Richmond Co-Vice-Chair, Operations Challenge

The VWEA Operations Education and Operations Challenge Committee invites you to the 2nd Annual Wastewater Operations Education Conference and Operations Challenge Competition. This year’s conference will include an operator-specific Education Event complete with workshop, a full-day technical program, and an Exhibit Hall with Career/Education Fair. The conference will showcase the VWEA 2013 Operations Challenge qualifying Virginia teams for national participation at this year’s WEFTEC. The Conference will also include Operations Awards Dinner. Attendance is recommended for any wastewater professional, wastewater operator, equipment manufacturers, engineers, and all those who want to have a good time!
Operations Challenge Competition

The VWEA Operations Challenge Competition recognizes excellence and professionalism in wastewater treatment, operations, maintenance, laboratory, safety, and collection systems personnel.

Participation
All teams will compete in all events. Each event will be judged and scored separately against established criteria. The scores of all events will be totaled to determine the champion team per division. Divisions shall include: Division I, Division II, and Invitational. *Terminal Velocity, the WEFTEC three-time champion, will be participating as an invitational team.*

Registration Information
All divisional team members (Division I and Division II) shall be current VWEA members. Refer to VWEA’s website for eligibility requirements. Registration for the VWEA Operations Challenge Competition is based on a four member team and one alternate or coach (5 total participants). Registration will include one T-Shirt per team participant (5 total), and admission to Operations Awards Dinner. Note: For online registration to be complete, each team member is required to submit a waiver form.

**Operations Challenge Events**

**Process Control**
Event Coordinator. *Wayne Staples*
Teams will be required to take an exam that covers various wastewater treatment processes. Each team will be asked 42 multiple choice, 20 extended multiple choice, 15 math, 4 scenario questions (one will be mandatory). The topic for all scenario questions is Safety. The questions and problems are taken from various topics including, but not limited to, sedimentation, solids dewatering, pumps and hydraulics, activated sludge, disinfection, biological nutrient removal processes, and wastewater treatment characteristics.

**Laboratory**
Event Coordinator. *TBD*
This event is a simulation of performing a BOD (Biological Oxygen Demand) analysis. Team members will use a YSI Pro-ODO meter and a YSI pH 100 meter along with all necessary laboratory apparatus to complete the given task. Teams will also be required to complete written calculations.

**Pump Maintenance**
Event Coordinator. *Tony Starks*
Teams will be required to respond to separate and simultaneous “Moisture Reset” failure conditions for a Wilo Emu submersible pump and a submersible mixer.

**Collection Systems**
Event Coordinator. *TJ Johnson*
This event simulates connecting a 4-inch PVC lateral sewer to an existing 8-inch PVC sewer while the sewer remains in service (the “wet” pipe). Teams will also be asked identify images of known pipe defects from the National Association of Sewer Services Companies.

**Safety**
Event Coordinator. *Kraige Moodie*
Teams will be required to perform a two-part rescue of two downed co-workers. Team members will perform a rescue of one co-worker found unconscious in a confined space. Teams will set up rescue equipment required to retrieve the victim from the confined spaced area. The second co-worker has had a heart attack that requires the team to perform CPR, using an AED to stabilize the victim until help arrives.

Sponsorship
Are you interested in sponsoring the winning Operations Challenge Teams to go on to national competition at WEFTEC? Please contact the Operations Challenge Host for more information. Please note that Operations Conference Exhibitors are welcome to purchase a booth separate from sponsorship. Please see the Exhibitors section of this brochure.
Operations Training Event

The Operations Training Event will consist of workshops on the first day, followed by technical sessions on the second day. See the Conference Schedule for agenda and speakers. Continuing Education Credits will be offered for Wastewater Operators and Professional Engineers. Day 2 Sessions are designed to allow participants to float between Sessions and attend the subjects of their choosing.

**Workshop 1: Wastewater Microbiology and Microscopic Examination**  (Day 1, 8:00 a.m. to 11:30 a.m.), 3 credit hours
This workshop allows participants to understand different types of microorganisms, how to identify those organisms, how they grow, and how they relate to actual wastewater treatment processes. The discussion centers on the types of microorganisms and things that affect their growth. It will also demonstrate, with hands-on instruments, the use of microscopy and techniques used to quickly determine types of microorganisms that may be affecting their processes or organisms that may give some indication of either specific or overall process conditions.

**Session A** (Day 2, 8:00 a.m. to 4:30 p.m.), 6 credit hours
This session features a wide range of topics from collections to electrical trouble-shooting. See Conference Schedule for specific topic line-up.

**Session B** (Day 2, 8:00 a.m. to 4:30 p.m.), 6 credit hours
This session features a wide range of topics and will be more specifically geared towards wastewater operations and hydraulics. See Conference Schedule for specific topic line-up.

**Session C: Math 101**  (Day 2, 8:00 a.m. to 4:30 p.m.), 6 credit hours
This session utilizes a different approach in style and format for tackling water and wastewater math. The foundation of the program is the inclusion of 149 “indexed” formulas presented in a format other than that usually seen in standard reference materials. Instructions focus on how we determine which of the indexed formulas to use for each particular application. “Walk-thru” problem solving allows participants to work problems themselves, before having the proper formula, step-by-step process and correct solution revealed. Hand-out materials include Formulas, an Index of Formulas and at the conclusion of the class, copies of each of the problems with step-by-step solutions.

Exhibitors Hall

Come visit our Exhibitors Hall, showcasing many exciting products from local equipment manufacturers, vendors, and sales representatives. The Exhibitors Hall will host the conference meals and refreshment breaks as well as the Operations Shoot-Out Competition. Exhibitors Hall will open just before the Operations Awards Dinner.

**Hall Hours:**  Monday, June 17, 6:00-9:00 p.m.  
Tuesday, June 18, 8:00 a.m.-3:30 p.m.

Within the Exhibitor’s Hall, a Career Fair will be set up for operators seeking higher education opportunities from local schools. The Career Fair is also seeking Human Resource tables for municipalities with available positions. Career Fair booths are available by contacting VWEA or the Conference Committee Chair.

Interested Exhibitors are encouraged to register for a booth using the registration link within this article on page 25.
# Conference Schedule

## Sunday, June 16

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:00 p.m.</td>
<td>Operations Challenge – Volunteers arrive to set up events – Tennis Courts</td>
</tr>
<tr>
<td>3:00-5:00 p.m.</td>
<td>Operations Challenge Team Check-in – Conference Center Lobby</td>
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## Monday, June 17

<table>
<thead>
<tr>
<th>Time</th>
<th>Operations Challenge</th>
<th>Education Events</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:00 a.m.</td>
<td>Hot Breakfast – Exhibitors Hall</td>
<td>7:00 a.m. Registration Open – Conference Center Lobby</td>
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<tr>
<td>7:00 a.m.</td>
<td>Operation Challenge Team Check-In – Conference Center Lobby</td>
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</tr>
<tr>
<td>7:00 a.m.</td>
<td>Operations Challenge Opening Meeting – Exhibitors Hall</td>
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<tr>
<td>8:00-9:30 a.m.</td>
<td>Operations Challenge – Process Event – Exhibitors Hall</td>
<td>8:00-9:30 a.m. Workshop 1 – Wastewater Microbiology and Microscopic Examination – Botany 1-4</td>
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<tr>
<td>9:30 a.m.</td>
<td>Break – Refreshments in the Exhibitors Hall</td>
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<tr>
<td>9:45 a.m. to 4:00 p.m.</td>
<td>Operations Challenge – Laboratory Event – Exhibitors Hall</td>
<td>10:00-11:30 a.m. Workshop 1 – Wastewater Microbiology and Microscopic Examination – Botany 1-4</td>
</tr>
<tr>
<td>11:30 a.m. to 1:00 p.m.</td>
<td>Box Lunches – Exhibitors Hall</td>
<td></td>
</tr>
<tr>
<td>4:00-5:30 p.m.</td>
<td>Challenge Event Breakdown – Tennis Courts</td>
<td>6:00 p.m. Exhibitor’s Hall Opens – Exhibitors Hall</td>
</tr>
<tr>
<td>6:30 p.m.</td>
<td>Operations Awards Dinner – Exhibitors Hall</td>
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The **Operations Awards Dinner**, hosted by our Exhibitors, will include the announcement of the Divisional Team and Invitational Team winners for the 2013 Operation’s Challenge Competition!

---

**Operations Shoot Out!**

*Tuesday @ 10:00 a.m.*

Exhibitors Hall
# Conference Schedule

### Tuesday, June 18

<table>
<thead>
<tr>
<th>Time</th>
<th>Session A (Botany 1-2)</th>
<th>Session B (Botany 3-4)</th>
<th>Session C (Amphitheater)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00-9:00 a.m.</td>
<td><strong>Cu and Zn Reduction Methods in Municipal Water and Wastewater Systems</strong>&lt;br&gt;Jeff Coyne, Timmons Group</td>
<td><strong>Practical Concepts of Microbiology in Wastewater Treatment</strong>&lt;br&gt;Andrew Jones, Timmons Group</td>
<td><strong>Math 101 – Introduction, Review of Hand-out Materials</strong>&lt;br&gt;John Hricko, American Association of Water and Wastewater Professionals</td>
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<td></td>
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<td></td>
<td><strong>Math 101 – How do I know which formula to use: Recognizing “givens” to select and solve problems.</strong></td>
</tr>
<tr>
<td>9:00-10:00 a.m.</td>
<td><strong>If it Stinks, It Corrodes: Basics of Sewer Line Odor and Corrosion</strong>&lt;br&gt;Doug Kelley, Inland Environmental Resources</td>
<td><strong>Flow Monitoring at Wastewater Treatment Plants</strong>&lt;br&gt;TJ Johnson, Delta Systems Environmental</td>
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<tr>
<td>10:00-10:30 a.m.</td>
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<td></td>
<td><strong>Break &amp; Operations Shoot Out! – <em>Exhibitors Hall</em></strong></td>
</tr>
<tr>
<td>10:30-11:30 a.m.</td>
<td><strong>Confined Space</strong>&lt;br&gt;Thomas Harris, City of Richmond</td>
<td><strong>Aerobic vs Anaerobic Digestion: Introduction to Theory and Economy</strong>&lt;br&gt;Evan Bowles, Hazen and Sawyer</td>
<td><strong>Math 101 – “Walk-Through” problem solving: Calculating required Lbs/ Gals, Calculating Flows, Volumes, Areas.</strong></td>
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<tr>
<td>11:30 a.m. to 1:00 p.m.</td>
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<tr>
<td>1:00-2:00 p.m.</td>
<td><strong>Operational Strategies for Energy Use Reduction and Energy Recovery</strong>&lt;br&gt;Christopher Wilson and Lauren Zuravnsky, Greeley and Hansen</td>
<td><strong>Intro to Wastewater Nutrient Removal Processes</strong>&lt;br&gt;Andrew Jones, Timmons Group</td>
<td><strong>Math 101 – “Walk-Through” problem solving: Calculating Concentration/ Dosage, Percent Strength, Lbs/Gals required for percent strength solutions, Horsepower.</strong></td>
</tr>
<tr>
<td>2:00-3:00 p.m.</td>
<td><strong>SCADA as a Resource: Solutions You Can Implement</strong>&lt;br&gt;TJ Johnson, Delta Systems Environmental</td>
<td><strong>Pumps Types and Applications</strong>&lt;br&gt;Brian Porter, Hazen and Sawyer</td>
<td><strong>Math 101 – “Walk-Through” problem solving: Calculating Diameters/ Depth, Chlorine Demand, Chlorine Dose, Chlorine Residual.</strong></td>
</tr>
<tr>
<td>3:00-3:30 p.m.</td>
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<td><strong>Break &amp; Raffle Drawings – <em>Exhibitors Hall</em></strong></td>
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## Registration Information

<table>
<thead>
<tr>
<th>Type of Registration</th>
<th>Before May 17</th>
<th>After May 17</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Member</td>
<td>Non-Member</td>
</tr>
<tr>
<td>Full Conference, 2-Day</td>
<td>$180</td>
<td>$234</td>
</tr>
<tr>
<td>One-Day Conference (Select Day 1 or Day 2)</td>
<td>$130</td>
<td>$169</td>
</tr>
<tr>
<td>Operations Challenge Team Registration, Division I and II, Full Conference</td>
<td>$620</td>
<td>NA</td>
</tr>
<tr>
<td>Operations Challenge Team Registration, Division I and II, One-Day</td>
<td>$500</td>
<td>NA</td>
</tr>
<tr>
<td>Operations Challenge Team Registration, Invitational</td>
<td>$400</td>
<td>$400</td>
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<tr>
<td>Judge/Speaker/Guest Pass, One-Day (Select Day 1 or Day 2)</td>
<td>$75</td>
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### Exhibitor Booths

- $350

<table>
<thead>
<tr>
<th>Type of Registration</th>
<th>Registration Type Includes:</th>
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<tbody>
<tr>
<td>Full Conference, 2-Day</td>
<td>Day 1 Workshops, Day 1 Food, Operations Awards Dinner, Day 2 Educational Tracks, Day 2 Food.</td>
</tr>
<tr>
<td>One-Day Conference</td>
<td>Either Day 1 Workshop, Day 1 Food <strong>OR</strong> Day 2 Educational Track, Day 2 Food. Operations Awards Dinner.</td>
</tr>
<tr>
<td>Operations Challenge Team Registration, Division I and II, Full Conference</td>
<td>Operations Challenge Team Registration for team of 5 participants, Day 1 Workshops, Day 1 Food, Operations Awards Dinner, Day 2 Educational Tracks, Day 2 Food. One T-shirt per team member</td>
</tr>
<tr>
<td>Operations Challenge Team Registration, Division I and II, One-Day</td>
<td>Operations Challenge Team Registration for team of 5 participants, Day 1 Food, Operations Awards Dinner. One T-shirt per team member</td>
</tr>
<tr>
<td>Operations Challenge Team Registration, Invitational</td>
<td>Operations Challenge Team Registration for team of 5 participants, Day 1 Food, Operations Awards Dinner. One T-shirt per team member</td>
</tr>
<tr>
<td>Judge/Speaker/Guest Pass, One-Day</td>
<td>Either Day 1 Food <strong>OR</strong> Day 2 Food. Operations Awards Dinner.</td>
</tr>
</tbody>
</table>

**Food Day 1 and Food Day 2 include:** Hot Breakfast, Mid-Morning Snack, Lunch, and Afternoon Snack. Operations Awards Dinner included in both Food Day 1 and Food Day 2.

**Operations Challenge Teams:** For team registration to be complete, each team is required to provide and submit online a team name, name and T-shirt size of each participant (5 total), and a waiver form.
Registration Information

How to Register
Register ONLINE at:
www.regonline.com/2013Opseducationandchallenge
Or, on your cell phone by scanning the bar code:

Register by MAIL or FAX
If unable to register online, please download the registration form at:
www.vwea.org
Mail registration form with check to:
VWEA, Operations Conference Committee
PO BOX 2324
Glen Allen, VA 23058
Fax credit card registrations to: 804-545-0849

On-Site Registration Hours
Sunday June 16, 2013 from 3:00 p.m. to 5:00 p.m.
Monday June 17, 2013 from 7:00 a.m. to 9:00 a.m. and 3:00 p.m. to 5:00 p.m.
Tuesday June 18, 2013 from 7:00 a.m. to 9:00 a.m.
(On-Site Registration is NOT available for Operations Challenge Teams)

Payments/Cancellations/Substitutions/Refunds
Please make checks payable to VIRGINIA WATER ENVIRONMENT ASSOCIATION. In the event a paid registrant cannot attend, a substitute may attend at no additional charge. If substitution is not an option, refund requests must be submitted in writing prior to June 10, 2013, and will incur a $50.00 processing charge.

Lodging
Sheraton Hotel and Conference Center
2801 Hershberger Road
Roanoke, VA 24017
http://www.sheratonroanoke.com/
A block of rooms is set aside, under the conference name, for Operations Education Conference and Operations Challenge Competition participants. A special rate of $96.00 + tax will be reserved for participants until May 27, 2013, after this time rooms are subject to market rate. Please mention that you are a participant in our conference even if you are outside of the room block deadline.

Things to Do
Roanoke offers many fun activities for families to enjoy; a couple of our favorites are listed below:

• Mill Mountain Overlook
• Science Museum of Western Virginia
• Center in the Square
• Blue Ridge Parkway
• Valley View Mall
• Tanglewood Mall
• Roanoke Valley Greenway
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Lab Practices Committee

ACTIVITY NEWS

By Mala Burton, outgoing LPC Chair

The WVEA/VA AWWA Joint Laboratory Practices Committee (LPC) is proud to announce that the 19th Annual Good Laboratory Practices Conference will be held at the Omni in Charlottesville on July 29 and 30 this year. This event will consist of several half-day workshops on July 29 with topics on wastewater microbiology, back to basics chemistry including turbidity, conductivity, pH, ISE, and general lab measurements; SOPs and document control, and lab calculations. Technical programs will be presented on July 30 with topics ranging from understanding the Method Update Rule, emerging contaminants, using ELNs, taste and odor, web-based chain of custody, electronic data collection, and more. A distinguished panel of speakers includes individuals from the Virginia State Laboratory, EPA and a Joint Editorial Board Member from Standard Methods. There will also be an exhibitor’s reception the evening of July 30, with the latest in instrumentation and equipment on display.

The LPC also plans to present a workshop at this year’s WaterJAM on September 9 at the Richmond Convention Center. The theme is Quality Systems Best Practices: Be the Best You Can Be.

This is an excellent opportunity to meet and network with fellow professionals from all over Virginia, and at the same time earn CPEs (for wastewater and water operators) and CECs. Information regarding these worthwhile events, as well as contact information, can be found on the WVEA and VA AWWA websites.

The LPC membership is represented by a variety of municipal wastewater and drinking water laboratories, commercial laboratories, as well as regulatory agencies and laboratory vendors. Meetings are held throughout the year to discuss such interesting topics as laboratory issues, changing methodologies, regulatory concerns, and quality assurance requirements.

The LPC holds regular meetings approximately every other month at the Henrico Water Reclamation Facility with subcommittee meetings starting at 10am and full committee meeting at 11:00 a.m. The remaining LPC meetings for 2013 are scheduled as follows: April 17, June 12, August 14, and October 23. A short technical presentation and lunch are provided at every meeting.

With the ever-increasing “do more with less” mantra in the workplace, the events and meetings described above present perfect opportunities to take advantage of the wealth of knowledge and experience typically available at these events. We encourage everyone to join and participate. 😊
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Mick Heavener
mick@clearwaterinc.net
Bernie Moore
bernie@clearwaterinc.net
At some point fatigue affects us all. It can range from not getting enough sleep one night to not getting enough sleep for several nights in a row or on a consistent basis. Fatigue is the condition of being physically or mentally tired and/or exhausted. Extreme fatigue however, can lead to serious problems for you and those around you.

With general fatigue, like what occurs when you do not get enough sleep for one night, it is possible to push through the next day with minimal impact. However, the more nights without enough sleep, the more significant the impact can be.

Some impacts of fatigue on a person include:
- Slowed job performance
- Reduced quality of work
- Errors in judgment
- Trouble focusing

All of these increase your chance of being injured or injuring others on and off the job. It isn’t a question of IF these impacts will occur, it is a question of WHEN will they occur.

If general fatigue is not addressed properly and allowed to continue, it will develop into extreme fatigue that you will not be able to push through. Your brain *will* start to automatically shut your body down and there is nothing you can do to stop it. You may be driving down the road, sitting in a meeting, or working at a task when it starts to happen. It will be similar to fainting or passing out. Your brain will just shut your body down in order to get the rest that it needs.

Where the line in the sand is between general fatigue and extreme fatigue is different for everyone. It depends on your overall health and condition. It will be different for people in good health, who eat right, exercise regularly, and takes care of themselves versus people in poor health and who do not take care of themselves.

A key point to remember is that although most of us have pushed the fatigue issue to the limit before, there is that point when your body will start reacting in a manner you can’t control.

A research facility compared the performance capabilities of fatigued individuals with those individuals under the influence of alcohol.
- 17 hours awake is equivalent to a blood alcohol content of .05

“If general fatigue is not addressed properly and is allowed to continue, extreme fatigue will develop that you will not be able to push through. Your brain will start to automatically shut your body down and there is nothing you can do to stop it.”
• 21 hours awake is equivalent to a blood alcohol content of .08 (legal limit)
• 24-25 hours awake is equivalent to a blood alcohol content of .10

No matter how it happens, fatigue has been found to be a factor in a large number of injury incidents. It is an issue that every safety program must address at some point or another. The challenging part is that no one else can make you get more sleep, eat better, exercise more or take better care of yourself. You must do each of them for yourself. These are all issues that only you can address. However, if not properly addressed, fatigue will impact your life in some manner sooner or later. Everyone must decide how to deal with fatigue before it jeopardizes their safety and the safety of the people around them.

“If not properly addressed, fatigue will impact your life in some manner sooner or later. Everyone must decide how to deal with fatigue before it jeopardizes their safety and the safety of the people around them.”

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Over the last couple of years, utility affordability programs have received significant national attention due to the current economic uncertainty and pressure on utility services not to increase rates on customers who are financially challenged. Additionally, over the past decade, utilities have been facing declining per capita usage and a shift toward conservation rate structures (volumetric based). This shift has impacted revenue streams and created budgeting challenges with respect to utility ability to offset fixed and rising operational costs. The Utilities Management Committee would like to invite members to join us in a dialogue scheduled for May 22, 2013 from 11:00 a.m. to 1:00 p.m. Registration information will be posted on the VWEA and VA AWWA websites after March 15. For additional information or questions you may contact, Mike Matichich mike.matichich@ch2m.com, Bart Kreps, bkreps@raftelis.com, or Matt Stolte (UMC Chairman) mstolte@blacksburg.gov.

Utilities Service Affordability and Rate Structures

SAVE THE DATE – Utility Management Committee Webinar — May 22, 2013 11:00 a.m. to 1:00 p.m.

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<tbody>
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<td>10191 Durhams Ferry Place</td>
</tr>
<tr>
<td>Suite 7, Towson, MD, 21204</td>
<td>Mechanicsville, VA 23116</td>
</tr>
<tr>
<td>Phone: 410-321-8930</td>
<td>Phone: 804-559-4259</td>
</tr>
<tr>
<td>Fax: 410-583-1625</td>
<td>Fax: 804-559-4482</td>
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The Central Virginia Regional Activities Committee (CVRAC) just hosted its first lunch-n-learn event for 2013 on March 7 at the Henrico County Water Reclamation Facility. Dr. Charles Bott was our guest speaker, and provided a very informative presentation on both current and next-generation treatment technologies for nitrogen removal from wastewater. Charles is the Research and Development Manager at Hampton Roads Sanitation District (HRSD) where he oversees research in this arena, so he was able to provide considerable insight into this high profile topic.

The overarching take-away from the presentation was the fact these new treatment methodologies have the potential to change the current landscape of biological nutrient removal practices in a very beneficial way. The event drew over 40 attendees, and everyone enjoyed catching up over lunch. We appreciate the Henrico County staff for hosting this event in their newly upgraded training room.

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With the exception of the four notable items discussed below, the Virginia General Assembly that ended February 23 was a relatively quiet session with respect to water-related issues. Legislative developments of note include: (1) substantial bond authorization for wastewater and stormwater programs, (2) transfer of water quality programs from the Department of Conservation and Recreation (DCR) to the Department of Environmental Quality (DEQ), (3) failure of legislation that would have lifted the uranium mining ban, and (4) new requirements for DCR review of more stringent local stormwater management ordinances. Each of these key developments is summarized below.

**Water quality funding (state budget amendments)**
The General Assembly approved a modified version of a major water quality bond package proposed by Governor McDonnell, capping off a two-year effort by a diverse water quality coalition, including the Virginia Association of Municipal Wastewater Agencies, the Virginia Municipal Stormwater Association, the Chesapeake Bay Foundation, and the Virginia Manufacturers Association among others. The package includes $106 million for Wastewater Treatment Plant (WWTP) Nutrient Removal Technology upgrades, $75 million for Combined Sewer Overflow corrective actions, and $35 million for a new Stormwater grants program to localities. Together with $88 million appropriated during the 2012 session, the WWTP Nutrient Removal Technology funds will fully meet the Commonwealth’s share of localities’ currently forecasted needs through June 30, 2016.

**DCR-DEQ Consolidation**
(SB 1279 – Hanger; HB 2048 – Sherwood)
The General Assembly passed an Administration bill to consolidate water quality programs in DEQ. A number
of water quality programs previously administered by DCR will be under the control of DEQ beginning July 1. Programs to be transferred from DCR to DEQ include stormwater management, construction general permits, municipal separate storm sewer system permits, Chesapeake Bay Preservation Act implementation, and erosion and sediment control. DCR will continue to staff the Soil and Water Conservation Board, which remains responsible for overseeing Soil and Water Conservation Districts and agricultural Resource Management Planning, as well as administering flood prevention and dam safety laws.

**Uranium Mining (SB 1353 – Watkins; HB 2330 – Miller)**
The moratorium on uranium mining in Virginia remains in place after the failure of proposed legislation to lift the ban. Following submission of a report by the Uranium Working Group, which provided a scientific policy analysis on the necessary regulatory framework should the current uranium mining moratorium be lifted, bills were introduced by Senator John Watkins and Delegate Jackson Miller to lift the uranium mining moratorium. The bills would have set forth a process for the Department of Mines, Minerals and

“Several South Hampton Roads localities have passed resolutions opposing uranium mining in Virginia due to concerns that water supplies could be contaminated by the accidental discharge of uranium mine tailings.”

continued on page 38
Energy (DMME) to issue permits for the mining of uranium ore and would have required DMME to promulgate regulations governing uranium mining. Senator Watkins withdrew his bill in committee in the face of likely defeat, and Delegate Miller’s bill was left in the House committee. Subsequently, both patrons have requested that Governor McDonnell direct state agencies to draw up regulations for uranium mining. Several South Hampton Roads localities have passed resolutions opposing uranium mining in Virginia due to concerns that water supplies could be contaminated by the accidental discharge of uranium mine tailings.

More Stringent Local Stormwater Management Ordinances (HB 2190 – Cosgrove)

The General Assembly passed a bill requiring localities to submit to DCR within 30 days after adoption, a summary of any more stringent stormwater ordinance adopted by the locality. Previous iterations of the bill would have required pre-adoption submittal to DCR, which could have tied up the adoption of such ordinances by a lengthy DCR advance review process. The locality must provide a summary explanation of why more stringent requirements were determined to be necessary. Only upon a request by a landowner or his agent within 90 days of the ordinance’s adoption will DCR review the ordinance to determine whether it meets the standards set forth in Va. Code § 10.1-603.7 for adoption of more stringent ordinances. A somewhat similar procedure will also apply to locality decisions to preclude jurisdiction-wide or otherwise limit geographically the use of BMPs approved by DCR. The DCR review provisions in the adopted bill were scaled back from previous drafts that would have required full DCR review prior to adoption of any more stringent stormwater management ordinance. Provisions of local ordinances in effect as of January 1, 2013 are grandfathered from this review process.
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Sanitary Sewer Acoustic Inspection:

Town of Mineral

On December 1, 2012, members of the Water Reach Committee and Town of Mineral personnel performed an acoustic inspection on a portion of the Mineral sewer system that was assumed to have the most infiltration and inflow (I&I). Water Reach members included Brad Humphrey, Pat Conroy, Jeff Kapinos, and Doug Phillips (also SERCAP). The equipment and training was provided by TJ Johnson (Delta Systems Environmental). The acoustic equipment is called Sewer Line Rapid Assessment Tool (SL-RAT).

In general, the acoustic inspection equipment includes a transmitter and a receiver. During inspection the transmitter is placed at the top of the designated inspection “start” manhole and the transmitter is placed at the top of the designated inspection “stop” manhole. The transmitter then sends a loud signal through the sewer and the receiver generates a score based on the clarity of the signal. The score ranges between 0 and 10. Generally, a 7 to 10 typically is a good score, meaning the sewer probably does not have any obstructions or deflections (could still have I&I though). A score from 4 to 6 may mean a slight deflection, root intrusion, or grease buildup and should require further inspection. A score of 3 or less probably means a significant problem in the sewer may exist and immediate attention/TV inspection should be considered.

A total of 19 sewer runs were evaluated, representing approximately 4,500 linear feet of sewer. Of these 19 sewer runs, 16 of them scored between 7 and 10, 1 (one) scored a 6, and 2 scored a 0 (zero), meaning these may have sags or serious root intrusion. The town has approximately 18,400 linear feet in the entire system, thus about 25% of the system was tested as part of the acoustic inspection.

Takeaways from the acoustic sewer inspection were:

1. The two sewer lines with zero (0) scores should be further inspected using a push camera to determine what may be occurring along with identifying the specific location. Sags or serious root intrusion should be acted upon as soon as possible.

2. The other sewer lines should be scheduled for TV inspection. By knowing they have a good score will minimize risk to the TV inspection contractor and may also indicate that only light cleaning of the sewer system will be needed. This should reduce the linear footage cost of the inspection to the town.

3. It would be helpful to complete the acoustic survey on the remaining portion of the sewer during 2013.

In summary, it appears that the acoustic testing equipment was helpful in identifying where significant problems may be present in the system. This technique is not meant to be a substitute for the TV inspection process, but does allow for quick initial sewer assessment.

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<th>Summary Results of Acoustic Inspection</th>
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Report submitted by Jeff Kapinos, Water Reach Committee
Old Dominion Utility Services, Inc., Civil Engineer, 757-888-0485, jeffrey.kapinos@ODUS.asusinc.com
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The Industrial Waste and Pretreatment (IWP) Committee held their 29th Annual IWP Workshop and Seminar on March 4-5 at the Charlottesville DoubleTree Hotel by Hilton. A total of 135 individuals participated in the two-day event which offered 8.0 CEUs for engineers and 6.0 CPEs for operators through attendance at the workshop (held on Monday) or the seminar (held on Tuesday). Nineteen suppliers, consultants and laboratories displayed their services and/or wares at booths located in the exhibit hall during both days.

**Workshop summary**
The theme of the half-day workshop held on Monday was *Improving Efficiency and Environmental Performance through Better Data Management* to support an emerging trend in compliant operations. Utilities and industry are rapidly seeing an increase in the volume of equipment and environmental data as more and more devices and processes are managed electronically. It is important that utilities make the most of these data to lower their operating costs and their environmental footprint. Approximately 100 attendees heard from experts in the field of remote sensing, digital information management, software and systems engineering applications to wastewater plant operations, compliance and reporting.

Topics were presented identifying hardware, software and integrated systems to make more data available and usable. Several speakers shared success stories of utilities and industries utilizing these enhanced archives of data to their benefit. Publicly Owned Treatment Works (POTWs) and Industrial Users (IUs) are using these data to improve effluent quality and manufacturing efficiency through better process control.

**Seminar and awards luncheon**
The seminar, held on Tuesday, was devoted to a variety of wastewater pretreatment topics. These included an EPA Region 3 Pretreatment update by the Region 3 Pretreatment Coordinator, John Lovell and a DEQ initiatives update by Melanie Davenport, Director of DEQ’s Water Division. Attorney Brooks Smith provided his annual update on regulatory challenges and considerations for future operations and the morning was rounded out with a case success story at HRSD by Chris Burbage of the Water Quality Technical Services Division, comprehensive digital management of plant and process operations at UOSA by the Deputy Director of Treatment Processes, and data management at Prince William County’s H. L. Moody WRF by Jaime Alba, Automation Engineer for CDM Smith.

During the luncheon on Tuesday, Annual Awards Coordinator Alex Tellez, Chairman Jim Johnston, and VWEA President Clarke Wallcraft presented this year’s Industrial Pretreatment Environmental excellence awards to the following industries:
- **Platinum award** – Afton Chemical Corporation (City of Richmond WWTP) and MGIC Advance Polymers, Inc. (Chesterfield County Utilities).
- **Gold Awards** – Covanta Alexandria/Arlington (Alexandria Sanitation Authority), Phillip Morris Manufacturing Center (City of Richmond WWTP), and Boehringer Ingelheim Chemicals (SCWWA).
- **Silver Awards** – Bunge Oils (Henrico County Water Reclamation Facility), Micron Technology, Inc. (Upper Occoquan Sanitation Authority), and Moore’s Bridges Plant (City of Norfolk Dept. of Utilities, HRSD).

Following the awards, IW&P Chairman, Jim Johnston, extended his sincere appreciation to the committee members, introducing them and thanking them for their hard work in planning and conducting the event.

In the afternoon John Lovell again took the platform to describe EPA Region 3 concerns and challenges with residual wastewater from hydraulic fracturing in New York, Pennsylvania and West Virginia. Principal Ecologist and Chairman of Applied Ecological Services, Inc., Steve Apfelbaum informed the audience of biofiltration, constructed wetlands and landscaping alternatives to managing landfill leachate, which is increasingly becoming a nemesis to POTWs for both quality and quantity reasons. Roger Lyman of Johnston, Inc., described equipment and methodology in use to remotely monitoring wastewater systems using the Internet and cellular services. Bill Batten, president of ThermaCo, Inc., wrapped the two-day experience with a presentation on control of Fats, Oils and Grease (FOG) in collection systems.

**IWP Exhibits**
Conference attendees talking with exhibitors during one of the breaks.
IW&P WORKSHOP AND SEMINAR 2014

Planning for the 2014 Workshop and Seminar has begun and the IW&P Committee can always make room for more industrious and energetic committee members from any sector, private or public. To join the team, contact the Vice-Chair, Robbie Graham at the Peppers Ferry plant, at 540-639-3947, or at rgraham1@jetbroadband.com.  

President Clarke Wallcraft and committee members Ryland Brown and Alex Tellez during a break at the conference.

Networking is always an important part of attending a conference.

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For more information, contact Brian Balchunas at: brian.balachunas@atkinsglobal.com

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Northern VA YP Activities

EVENTS

The Northern Virginia section of the joint VA AWWA/VWEA Young Professionals Committee held its first Afterhours/Recruiting Event on Thursday, February 21, 2013 at Buffalo Wild Wings in Ballston.

The event provided an opportunity for networking and meeting fellow committee members and other distinguished professionals.

Stay tuned for several upcoming events this year!

- April 6: Community Outreach Event – Stream clean-up along the Potomac River and along Sugarland Run.
- April 16: WEF 2013 Water Infrastructure Summit from 10:00 a.m.-12:00 p.m. at the Ronald Reagan Building in Washington DC.
- May: Washington Nationals Game or Afterhours event.

We highly encourage involvement and participation! If you have any questions or would like to get involved please contact Phill Yi (pyi@hazenandsawyer.com).

Afterhours Event at Buffalo Wild Wings (L-R: Phill Yi, David Riedel, Meredith Raetz, Christina Arnaout, and Jennifer Shore).

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The WEF Collection Specialty Conference is an intimate international gathering of the top collection system people. Typically about 500-750 people attend to hear a workshop (or two), and pick from about 60 presentations. There are numerous networking events, collection system tours, and about 50 exhibitors of collection system equipment. If there is something new and innovative in collection system technology, this is where you will learn about it. If you’re facing a problem with your collection system, this is where you’ll find the people who have been there and done that.

I attended my first CSSC in 2004 in Milwaukee, WI. At a sold-out workshop I learned the importance of private property issues to collection system capacity and overflows. A city in Minnesota documented that 90% of their inflow and infiltration (I/I) came from private property. Other municipalities discussed I/I programs that cost-effectively restored capacity to collection systems and kept the regulators off their backs. The information I that I learned at this conference has helped me through two jobs, and has helped my clients as well. It was well worth the trip to Milwaukee.

I’ve since been to CSSCs in Boston, Pittsburgh, and Portland, OR; each one carried different themes and topics and I had a great time at each. The education component was first rate at these conferences because it came from people who live and breathe collection systems. The social portion of the conferences was also great for the same reason. Collection systems have been the primary part of my business life for a lot of years and I’ve met a lot of good people. I usually get to connect with them at the CSC Specialty Conference.

Attendance at the Baltimore 2014 CSSC is expected to be record breaking. The previous attendance record was set at the Pittsburgh CSSC but Baltimore is expected to surpass this previous benchmark due its demographic and transportation advantages. For example, over 30% of the US population is within an easy drive of Baltimore. Baltimore also has great air access, with reasonably priced flights, and rail and light rail are available to bring visitors right into downtown. Drivers will find that Interstates 95, 83, 70 and 295 all point to the Inner Harbor.

Once in Baltimore, visitors are in for sensory and historic treats. Baltimore is well-known for great food, especially seafood. Learn how to pick crabs with Old Bay Seasoning and you’ll soon feel like a native. Enjoy the Inner Harbor, a destination on the scenic Chesapeake Bay. Explore Fells Point a few blocks away to find places haunted by famous people like Edgar Allan Poe (literally haunted). America’s oldest bar is right across the street from America’s oldest dive bar in Fells Point. Philly, DC, Gettysburg and Valley Forge are also very close by if you want to make a tour while you’re in the area.

Details for this event will be posted on the WEF website soon. Check http://www.wef.org/conferences to stay informed. Choose the Collection System Conference to find out how to register and where to stay.
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The Virginia Water Environment Association (VWEA) Sustainable Utilities Committee held a workshop entitled ENVISION™: The Sustainability Rating System for Water Infrastructure on February 26. The event was hosted by the Henrico County Water Reclamation Facility (WRF).

The purpose of the workshop was to introduce participants to the Envision™ sustainable infrastructure rating system criteria, provide hands-on experience using the rating system, discuss the advantages and challenges of using Envision™ on water utility projects and give an update on how the system has been implemented over the first year (2012-13).

Following a brief welcome and interactive poll by committee chair, Will Schafer, an overview of current trends in sustainability was delivered by committee vice chair and workshop organizer, Denise Nelson. The group was then addressed by Mr. James Grandstaff, Division Director at the Henrico County WRF, on the WRF’s efforts related to sustainability and a program overview of their Environmental Sustainability and Management System (ESMS). Jeff DuVal, the City of Alexandria’s Maintenance Division Chief, followed with a comprehensive look at the many sustainable rating tools and their usage in Virginia.

The introductory presentations on sustainability and the existing rating systems were an excellent foundation for the remaining portion of the workshop which focused on the new ENVISION™ rating system. Diane Linderman of VHB, previously the City Engineer and Director of Public Works for the City of Richmond, introduced the group to the Institute for Sustainable Infrastructure (ISI) and the specifics of the Envision™ process.

After a lunch and networking break, the group participated in credit discussion and exercise sessions led by Envision™ Verifier and ISI Credit Development Subcommittee member Robert Phinney, Denise Nelson, and Diane Linderman. The group enjoyed an interactive afternoon discussing case study projects as they related to the five categories that make up the 60 credit rating system: Quality of Life, Leadership, Resource Allocation, Natural World, and Climate and Risk.

Denise Nelson wrapped up with a review of the first year for Envision™ and what’s coming next. The group left with a good introductory understanding of the new rating system and a general knowledge of the available tools and accreditation requirements available on the Envision™ website. The Envision™ team left with some valuable feedback including recommendations for improvement and further clarification.

People interested in learning more about Envision™ are encouraged to visit ISI’s website (www.sustainableinfrastructure.org) and to look for future presentations at WaterJAM, WEFTEC, and other events.

The VWEA Sustainable Utilities committee would like to thank all of our speakers for a very successful event. Thanks also to Henrico County WRF for graciously offering to host this wonderful event, and Blase Keegel and Kathy Rabalais for assisting with coordination, CEP credit scanning, setup and cleanup.
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2012 VWEA FACILITY SAFETY AWARD APPLICATION

PURPOSE:
To encourage Wastewater Treatment Facilities to participate in promoting an active and effective safety program and to stimulate the collection and reporting of safety data.

Nominations for the VWEA Facility Safety Award and the WEF Burke Award are being solicited and must be made on this form. The Facility must have an active safety program with a good safety record. Facilities that received the award in the previous year (2011) are not eligible for the same award.

SELECTION CRITERIA:
The Virginia Water Environment Association, Inc. (VWEA) has established selection criteria, as follows:

a. A Wastewater Treatment Facility in each size category will receive an award, if at least one facility meets the award criteria. The number of employees at the facility determines the size category (Refer to Item 3 below).

b. At least one (1) employee of the Wastewater Treatment Facility must have a WEF Honorary, Life, Active or Corporate member status.

c. A facility or its parent organization (City, Town, Authority or Sanitation District) may nominate only one facility annually and may not consecutively repeat itself as an Award recipient.

d. Nominations will be selected from the completed application forms received. The Committee will screen the applications and select finalist (facilities) for on-site inspections by members of the Safety & Security Committee. Points will be assigned for various elements of the Facility’s safety program. Final selections will be based on the total accumulated points.

e. The Wastewater Treatment Facility with the most outstanding health and safety program from any of the 3 size categories will be nominated for the WEF George W. Burke Safety award. The winner from either of the remaining two size categories will receive the VWEA Facility Safety Award.

1. Name of Facility: ____________________________________________________________

Address: ___________________________________________________________________

Telephone: __________________ email Address: ____________________________________

Person in Responsible Charge: ________________________________________________

2. Name of VWEA Member: ___________________________________________________

Membership Number: _________________________________________________________

3. Facility Size (Circle one and list Design Flow), each size category may receive an award regardless of the number of applicants:

   SMALL (5 or less employees) Design Flow: __________

   INTERMEDIATE (6 to 20 employees) Design Flow: __________

   LARGE (more than 20 employees) Design Flow: __________

4. Facility Inspection: Upon receipt of your Application, a VWEA/AWWA Safety & Security Committee member will schedule a visit to your facility to review your overall safety program. Winner(s) will be selected by June 21, 2013 and notified as soon as results are final. Awards will be presented at the 2013 Joint Annual Meeting (JAM) September 8-12, 2013 at the Richmond Convention Center.

   Application (nomination) must be postmarked no later than April 26, 2013, for consideration.

   Forward a copy of this application to: Wayne Sima Phone: (703) 267-2764
   WVEA/VA AWWA Safety & Security Committee
   Hazen and Sawyer, PC.
   4035 Ridge Top Road, Suite 400
   Fairfax, Virginia 22030
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<td>270-522-3193</td>
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<td>Sherwood-Logan &amp; Associates</td>
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