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**2015 Membership
Renewals Due
Prior to February 28th**

**Individual Membership
\$30.00**

**Associate Membership
\$100.00**

**Check Inside
For Details**

KWWOA State Board Additions:

Recent months have brought about changes in the composition of the KWWOA state board. Due to other obligations, Ed Fortner who was elected Vice Chair in 2013 recently announced his resignation from the board. Ed was serving not only as the Vice Chair for the State board, but also as the President of the North Central Chapter which he will continue to serve.

In an effort to fulfill the vacant position, the board immediately began considering potential replacements. As allowed by the Association by-laws, the remaining board members, after careful consideration, appointed David Goodrum to carry out the unfinished term.



David recently retired from Glasgow Water after 35 years. He has also been a member of KWWOA for 35 years and won the "Earl T. Mitchell Award" in 2010 for his dedication to the water profession and KWWOA. He recently concluded a term as the President of the Central Chapter, one of many KWWOA positions held by David during his tenure. David was eager to accept the appointment and will serve as the Vice Chair until the annual conference in April when he will then advance to the position of Chairman.

Another recent change in the board is the position of Treasurer. In 2013, Kyle Cannon of Grayson County Water volunteered on an interim basis to fulfill the open position of Treasurer for the State Board. Kyle's background as an accountant served the board well as he reorganized the books and maintained the financial records for the association. However, Kyle's term was only temporary until the board could appoint a permanent replacement. So, in September 2014, after months of searching the membership for a viable candidate, the board appointed Julie Duncan as the new State Treasurer.

Julie has been a long time supporter of KWWOA and has volunteered her time for many KWWOA events. You may recognize Julie as one of the staff members working the registration desk at our annual conferences. Julie seemed to be a natural fit for the position due to her background as a bookkeeper and because she was already working part time for the association.



We welcome David and Julie to the KWWOA State Board and look forward to working with them both!

**58th Annual Water and Wastewater
Operators Conference
April 12–16, 2015**

Caution: KWWOA Operators at Work!

Check Inside For Details

KWWOA Vice Chair Nominees Needed!

The KWWOA needs the assistance of its members to fill a very important State Board position. David Goodrum will step into the KWWOA Chairman's position at the Annual Conference in April 2015. The Bylaws specify that the KWWOA State Vice Chairman must be elected from and by the membership for a two year term. Upon conclusion of this term, this individual then advances to the position of Chairman for a two year period. Initially, the Vice Chairman serves in a supportive role to the Chairman, but is charged with presiding over State Board meetings in his absence and as Chair of the Awards Committee. As a result, KWWOA is currently soliciting the names of 2014 members who would like to be considered for the Vice Chairman position and ultimately that of KWWOA Chairman. The intent is to solicit a sufficient number of nominees by **February 6, 2015**, such that voting ballots may be distributed prior to the 2015 KWWOA Annual Conference.

The job description for this position can be found on the KWWOA website (www.kwwoa.org) by selecting the "About Us" tab and reviewing the appropriate SOP under the "Procedures" tab. If you are interested in potentially serving as the State Vice Chairman and/or have questions regarding the position, please contact Chairman Shaun Youravich at 270-737-1056, ext. 304 or via email at the following address: youravich@hardincountywater2.org. You may also contact Lisa Detherage, Member Services Director, at 502-352-0510 or via email at kwwoa@fewpb.net. We look forward to hearing from you!

Ballots for the Vice Chairman position will be distributed to all 2014 KWWOA members by March 16, 2015. Once received, please mark your ballot and mail it to KWWOA, with a postmark no later than March 31, 2015.



**KWWOA Wishes all its Members
a Safe and Happy New Year!**

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Look Forward to Working with you in 2015!**



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New Faces at DCA!

By Jessica Willhoite

The Department for Environmental Protection is pleased to announce the appointment of three new staff in the Division of Compliance Assistance (DCA). Effective Oct. 16, 2014, Larry Taylor was appointed director of DCA. Mr. Taylor has 20 years of experience in the Department for Environmental Protection and was hired as the lead environmental scientist in the department's Commissioner's Office in 2003, and served in the role as science and policy advisor to the commissioner. As the primary science and technical advisor in the department, he provided leadership on numerous high profile, multimedia, or cross-program projects during his tenure. He has also served as the department's legislative liaison for 10 years, assisting the department with developing and reviewing legislation, testifying before legislative committees and meeting with legislators.

The division is pleased to welcome Paulette Akers as assistant director of DCA, effective November 1. A 12-year veteran of the department, Paulette was previously manager of the Watershed Management Branch in the Division of Water, where she has shown strong leadership in the development of public private partnerships intended to promote positive environmental behaviors and increase sustainable behaviors. Ms. Akers brings a broad knowledge of water-related issues, having served in various roles in the Water Quality Branch, addressing nonpoint source pollution and watershed management.

The DCA staff is also excited to announce the hiring of our newest drinking water and wastewater certification trainer, Dennis Minch, who joined the staff on November 1. He received a B.A. in chemistry from Bellarmine University in Louisville, Kentucky. Mr. Minch has over 12 years of experience working for Jim Beam Brands Company, Inc., with 10 years serving as their Environmental Chemist. Before his time at Jim Beam, he dedicated 24 years as the analytical chemist for Arch Chemicals (formally known as Olin Corp). Mr. Minch holds several certifications, including Drinking Water Treatment IV-A, Distribution II-D, Wastewater Treatment III and Collection III.

We look forward to working with all three new staff members, and hope you will join us in welcoming them aboard at DCA!

Thanks Susan Knuckles!!!!

By Roy Gray

The KWWOA, and specifically the Eastern Chapter (EKWWOA), would like to send out a huge thanks to Susan Knuckles for her involvement in the organization over the years as an operator and associate member, as well as serving in many officer roles at the State and Chapter level. During the last EKWWOA meeting of 2014, Susan announced that she will be stepping down as President of the Chapter. She will officially resign from the position at a EKWWOA training event to be held in London on February 3, 2015. While a hard decision for her to make given her devotion to KWWOA, it was a necessary one as Susan will begin a new life journey, as she has been accepted into the University of Pikeville, College of Medicine. Like everything else that she tackles, Susan will be devoting a significant amount of time to this endeavor, and knows that little time will be left to fulfill her job as an EKWWOA officer.

Susan will certainly be missed in her role as President! We appreciate her contributions to KWWOA and leading the EKWWOA with knowledge, compassion, understanding and an ever present smile. Susan shares a passion for the industry and KWWOA organization that will be hard to match. Susan, we wish you well in your schooling and new career choice, but certainly hope that you will stay involved with the KWWOA in some capacity, as we all benefit from your knowledge.

As noted above, elections will be held February 3, 2015 for the position of EKWWOA President, as well as Secretary. Lloyd Keyser has been serving as the EKWWOA Secretary and Wastewater Representative and would like to step down as Secretary. The duties for each of these positions can be found on the KWWOA website (www.kwwoa.org) by selecting the "About Us" tab and then the appropriate SOP under the "Procedures" tab. (The EKWWOA Secretary and Treasurer positions are two separate positions, so only the Secretary duties noted in the SOP will apply). If you are interested in running for either position, please contact David Dodd, Vice-President of the EKWWOA, at (606)528-4026 or by email at cuc_dodd@bellsouth.net. As a KWWOA member, this is a great opportunity to become involved, contribute to your profession and continue the work of EKWWOA, as it supports the operators of eastern Kentucky. If you feel that your skills could benefit the Chapter, do Susan proud and make the commitment! You won't regret it!



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Hazard Communication Standard Changes

By Chuck Page

The OSHA Hazard Communication Standard is now aligned with the Globally Harmonized System (GHS) of classification and labeling of chemicals. This alignment is an international approach to Hazard Communication that provides standardization requirements for container labeling and Safety Data Sheets (SDS). This update provides a common method to classifying chemicals and communicating their hazards in the workplace.

OSHA set three dates for employers, manufacturers, importers and distributors to meet the compliance requirements of the GHS. The first compliance date was December 1, 2013 when all employees were to be trained in the label elements and the SDS format. The next compliance date is June 1, 2015. Chemical manufacturers, importers, distributors and employers must comply with all of the modified provisions of the final rule, with one exception. Distributors may ship products labeled by manufacturers under the old system until December 1, 2015. By June 1, 2016, alternative workplace labeling and hazard communication programs must be updated and additional employee training for newly identified physical or health hazards provided. Chemical manufacturers, importers, distributors and employers may comply with either or both standards during the transition period of June 1, 2015 through June 1, 2016.

While the final implementation date is not until 2016, changes are already taking place. One significant change is how labels will look and communicate hazard information. Container labels will provide hazard information with pictograms, a signal word, along with hazard and precautionary statements.

Another important change is the transition from Material Safety Data Sheets (MSDS) to SDS. The basic function of the SDS is the same as the MSDS; to provide valuable information about chemicals in the workplace and follows the same, standardized, 16 section format.

OSHA recommends the following six steps to insure an effective hazard communication program and a smooth transition to the GHS chemical classification and labeling system.

Step 1—Learn the Standard/Identify Responsible Staff

- Obtain a copy of OSHA's Hazard Communication Standard.
- Become familiar with its provisions.
- Make sure that someone has primary responsibility for coordinating implementation.
- Identify staff for particular, implementation activities (training, etc).

Step 2—Prepare and Implement a Written Hazard Communication Program

- Prepare a written plan to indicate how hazard communication will be addressed in your facility.
- Prepare a list or inventory of all hazardous chemicals in the workplace.

Step 3—Ensure Containers are Labeled

- Keep labels on shipped containers.
- Label workplace containers where required.

Step 4—Maintain Safety Data Sheets (SDSs)

- Maintain SDS for each hazardous chemical in the workplace.
- Ensure that SDS are readily accessible to employees.

Step 5—Inform and Train Employees

- Train employees on the hazardous chemicals in their work area before initial assignment, and when new hazards are introduced.
- Include the requirements of the standard, hazards of chemicals, appropriate protective measures, and where and how to obtain additional information.

Step 6—Evaluate and Reassess Your Program

- Review your hazard communication program periodically to make sure that it is still working and meeting its objectives.
- Revise your program as appropriate to address changed conditions in the workplace (new chemicals, new hazards, etc.).

Additional guidance on the Hazard Communication Standard and the GHS can be found on OSHA's website at www.osha.gov/dsg/hazcom/index.html.



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CAUTION KWWOA OPERATORS AT WORK.



58TH ANNUAL WATER & WASTEWATER OPERATORS CONFERENCE,
APRIL 12 - 16, 2015, CROWNE PLAZA, LOUISVILLE, KY

58th ANNUAL WATER AND WASTEWATER OPERATORS CONFERENCE

WHO SHOULD ATTEND THE 58th ANNUAL OPERATORS' CONFERENCE?

- **Drinking Water and Wastewater (Municipal and Industrial) System Operators** requiring up-to-date information for the operation of systems and/or for license renewal. The Conference will offer 70+ sessions that will convey innovative tools, explore successful operational techniques, provide regulatory updates and share emerging solutions for system operations.
- **Lab Analyst** who must secure training as a part of their lab certification. A six hour series will be provided specifically for lab analyst on Wednesday, April 15.
- **Engineers** who must obtain continuing education for their license renewal.
- **Operators** who wish to test for certification with the Division of Compliance Assistance as a Distribution or Wastewater Treatment operator.

Continuing education attendees may earn up to **18 hours** by attending each six-hour day of classes. All technical presentations will be submitted for approval to the certifying authorities in Kentucky, Indiana and Ohio and the Division of Water's Lab Certification Program. Once approved by the certifying authorities, notice will be posted on the KWWOA website.

HOW DO I REGISTER TO ATTEND THE CONFERENCE?

Operators who plan to attend for continuing education purposes may complete the registration form on page 9 or online at www.kwwoa.org. One check may be submitted for multiple registrations. If paying online, you also have the option of paying by credit or debit card through PayPal for multiple registrants. You do not have to have a PayPal account to utilize this method of payment. No refunds will be granted for registrations cancelled after **March 12, 2015**.

Operators who wish to attend the Distribution or Wastewater Treatment certification review/testing sponsored by the Division of Compliance Assistance (DCA), must follow the registration procedures outlined on the DCA website (dca.ky.gov/certification). Certification applications and registration forms are also available by contacting the Certification and Licensing Branch at (502) 564-0323. **Applicants must apply and be approved in advance for testing and will be notified in writing by the Certification and Licensing Branch of their acceptance into the review/exam sessions.**

Approved Certification attendees are automatically registered for the Conference and granted a partial registration which entitles them to attend all Conference events with the exception of the Monday breakfast. If you wish to attend the Monday breakfast, you may pay for this event (\$30.00) onsite at the Conference Registration Desk.

WHAT IS INCLUDED IN THE CONFERENCE REGISTRATION FEE?

- | | |
|---|---|
| • Six hours of continuing education training each day, for a total of 18 hours | • 2 Meals (Monday breakfast & Tuesday lunch) |
| • Access to 90+ vendors within the Exhibit Hall | • Submittal of training hours earned to the appropriate regulatory authority. |
| • Conference Social Event | • If not a member, a 2015 KWWOA Membership, providing access to KWWOA training events throughout the year, most of which are free. |
| • Ability to network with speakers, exhibitors & peers. | |

CONFERENCE HEADQUARTERS AND LODGING RESERVATIONS

Crowne Plaza
830 Phillips Lane
Louisville, Kentucky
\$125.00 for all standard rooms sizes
(Check In—3:00 PM, Check Out—11:00 AM)

A block of rooms is being held through March 10, 2015, so make your reservation early to ensure availability and access to the quoted rate. Reservations can be made by visiting the KWWOA website at www.kwwoa.org, clicking on the "State Conference Information" tab and selecting the "Crowne Plaza Room Reservations" link or by calling 1-888-233-9527 (reference the KWWOA Conference to receive the rate quoted). Parking is free and internet access is included within the sleeping rooms at the rate quoted.

Tentative Conference Agenda

(Final Times May Vary Slightly)

Sunday, April 12, 2015

3:00 PM — 6:00 PM Registration Open

Monday, April 13, 2015

6:30 AM — 5:45 PM	Registration Open
7:00 — 8:30 AM	Breakfast, Opening Session, KWWOA Meeting & Awards Ceremony— Crowne Exhibit Hall
8:50 — 9:50 AM	Keynote Address/Technical Session 1
9:00 AM - 12:00 PM	Vendor Set-up
9:55 AM — 12:00 PM	Technical Sessions 2 & 3
12:00 — 1:30 PM	Lunch On Your Own
1:30 PM—5:45 PM	Exhibit Hall Open—Crowne Ballroom
1:30—2:30 PM	Technical Session 4
2:30 PM - 3:30 PM	Ice Cream Social-Exhibit Hall—Crowne Ballroom
3:30 PM - 5:35 PM	Technical Sessions 5 & 6
8:00 PM	Casino Night—Crowne “Exhibit Hall”

Tuesday, April 14, 2015

7:00 AM — 4:30 PM	Registration Open
8:00 AM—2:00 PM	Exhibit Hall Open—Crowne Ballroom
8:00 AM — 12:15 PM	Technical Sessions 1—4
12:15 - 2:00 PM	Lunch in the Exhibit Hall
2:00 — 4:05 PM	Technical Sessions 5 & 6

Wednesday, April 15, 2015

8:00 AM — 4:30 PM	Registration Open
8:00—9:00 AM	Coffee Available—Across from the Registration Desk
8:30 AM—11:40 PM	Technical Sessions 1—3
11:40 AM—1:00 PM	Lunch on Your Own
1:00 PM—4:10 PM	Technical Sessions 4—6

Thursday, April 16, 2015

8:00 AM	Certification Testing— Distribution and Wastewater Treatment
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58th ANNUAL WATER AND WASTEWATER OPERATORS CONFERENCE

CONTINUING EDUCATION
REGISTRATION FORM
Crowne Plaza, Louisville, Kentucky
April 12–15, 2015
(Please Print Clearly)

Name: _____ AI No. or KWWOA ID No.: _____

Home Address: _____

City: _____ State: _____ Zip Code: _____

Employer: _____

Work Address: _____

City: _____ State: _____ Zip Code: _____

Title: _____ Work Phone: _____

County: _____ Email Address (Home or Business): _____

Are You A 2015 Member? ____ Yes ____ No Prefer to receive KWWOA information at: ____ Home ____ Work

IMPORTANT NOTE: THIS FORM MUST BE COMPLETED IN ITS ENTIRETY

Registration includes: Technical Sessions, Exhibit Hall admittance, Monday breakfast, Tuesday Lunch and all Social Events.

<p>Pre-Registration (Postmarked by February 28, 2015)</p> <p><input type="checkbox"/> \$140 -2015 Member Registration</p> <p><input type="checkbox"/> \$170 -Non-Member Registration (Includes a 2015 KWWOA Membership)</p>

<p>Registration (Postmarked after February 28, 2015)</p> <p><input type="checkbox"/> \$190 -2015 Member Registration</p> <p><input type="checkbox"/> \$220 -Non-Member Registration (Includes a 2015 KWWOA Membership)</p>
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TOTAL REGISTRATION FEE INCLUDED (One check may be submitted for multiple registration forms): \$ _____

Name of Payee if different from the Registrant above: _____

Submit the Registration Form(s) and the appropriate payment, made out to KWWOA, to the following address:

KWWOA, P. O. Box 700, Lawrenceburg, KY 40342

No Refunds Issued after March 12, 2015.

Anyone registering online will receive an email confirmation. Those registering via regular mail will not receive a confirmation, but may log into their KWWOA account to confirm receipt of the order.

FOR INFORMATION, contact Lisa Detherage at (502) 352-0510 or via email at kwwoa@fewpb.net.

***Do not submit this application if applying to attend the Division of Compliance Assistance, Operator Certification Review & Exam.**



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John Thomas - A Man of Many Talents!

By Amanda Spaulding

On October 3rd 2014, John Thomas of Elizabethtown, KY passed away unexpectedly. John had made a career in the Kentucky water and wastewater industry including years spent working for the City of Elizabethtown as a Laboratory Technician and Water Treatment Plant (WTP) Operator, City of Scottsville as WTP Superintendent, and with Hardin County Water District No. 1 as WTP operator, Interim WTP Supervisor, and most recently as Project Coordinator. John briefly worked as well in the private sector for Freestone Technologies and U.S. Filter.



John never stopped learning. John often commented that he was old school, having to get his certifications the hard way - attaining his Class I Water Treatment Certification in September 1986, Class IVA Water Treatment Certification in October 1992 and his Class IV Distribution in September 2007. He earned his Class I WW Treatment Certification in July 2008 and Class II in January 2014. John was always open to educational experiences, attending numerous training events and attaining more than the required number of credits for license renewal. In keeping with his desire for knowledge, John decided in 2011 to pursue a college degree. His efforts to juggle a career, family life, and school were exemplary.

Through his extensive experiences and his desire to learn, John gained an incredible amount of knowledge about the water and wastewater industry. This served him very well as he wore many different hats as the District's Project Coordinator. In this capacity, John served as the Chair of the District's IT Committee and managed all of its IT programs, website, computer hardware and software support, and IT training. John played a key role in writing specifications and bid documents for construction projects, professional services, vehicles, and equipment for the District's five utilities. He assisted with project design, bidding, and inspections and coordinated with contractors during construction projects. John's expertise was recognized outside the District too as he served on the Water Resources Committee for the Lincoln Trail Area Development District and as the primary contact and mentor to West Point Water, a small utility in Northern Hardin County.

John was also willing to share his knowledge with others. He made himself available to coworkers, offering input when asked about treatment strategies, regulatory compliance, and record-keeping practices. John's computer skills were renowned and friends, family, and co-workers benefited from his benevolence in many ways. He would program computers, re-work internet connections, convert VCR tapes and old film reels to DVDs without asking for anything in return. He shared his secret recipes for barbecue rubs, frequently sharing barbecue and smoked wings, as well as breakfast with his co-workers. He passed on mint condition toys to those who had small kids.

John leaves behind a big void. Jim Bruce, General Manager of Hardin No. 1, commented, "Like many of our employees, John wore many hats and branched out into several roles. However, few of our employees could do such a wide range of duties which he carried out with skill, dedication, and reliability. John will be greatly missed at Hardin No. 1, but also in Kentucky and our industry!"

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Before renewing your 2015 Membership online, please check the accuracy of the your personal information on your KWWOA account. If changes are necessary, these can be made on the "edit" tab within your account. If you do not know how to access your account on the KWWOA website (www.kwwoa.org), contact Lisa Detherage, KWWOA Membership Director, at kwwoa@fewpb.net or by calling 502-352-0510 for your login and password.



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CKWWOA Fall Conference & Golf Scramble By David Goodrum



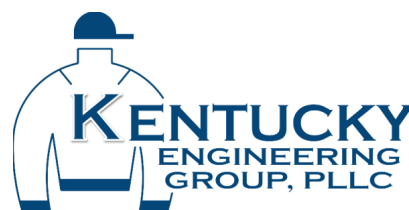
The Central Chapter of KWWOA (CKWWOA) held its Annual Fall Conference and Golf Scramble on September 24th and 25th, 2014 at Barren River Lake State Park. The Golf Scramble was held on the 24th under a sunny sky and enjoyed by 12 teams of approximately 48 golfers. The CKWWOA would like to thank all sponsors of the event, including Consolidated Pipe for sponsoring the cookout after the Scramble for the golfers and training attendees

The Conference provided six hours per day of approved drinking water and wastewater training for professional growth and license renewal purposes. Attendance averaged 80 operators for each day. Lunch was provided both days for the attendees. CKWWOA would like to thank S&K Equipment and the Kentucky Engineering Groups' Grilling/BBG Team for providing these meals to the attendees.

The pictures to the left shows the Kentucky Engineering Group in action and attendees enjoying one of the training session speakers. Thanks to all who taught, supported and attended this event. We hope to see you next fall!!



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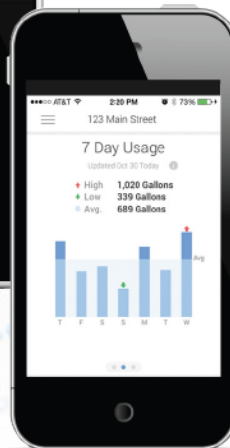
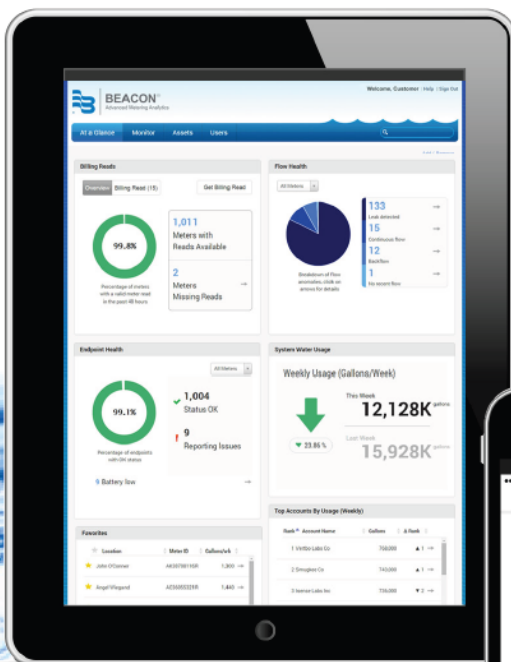
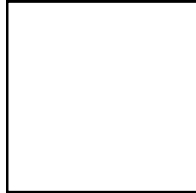
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Dedicated Controls—A Solution to Flow Measurement Requirements

David K. Pine, P.E.

The City of Irvington, Kentucky, was instructed by the Kentucky Department of Environment Protection to measure the influent entering their wastewater treatment plant. However, this was not an easy task considering the circumstances at the facility. All of the influent wastewater is pumped to the head works of the treatment facility by a sewage pumping station. To meter the flow from this station or the treatment facility would require significant excavation in order to insert a valve box and metering pit. For Irvington, as for any small municipality, this would be a costly project and would require funds that the city could utilize in other ways.

The City of Irvington asked WASCON, Inc. to come up with an economical solution. As a manufacturer's representative for Grundfos, we were well aware of the vast capabilities of the Grundfos CU362 controller. This controller is able to monitor and calculate flows based on the levels in the pumping station. No excavation would be needed at the plant. This application was submitted to the Department of Environment Protection and it was deemed an acceptable measuring device.

After a quick initial set up, the Grundfos CU362 controller utilized level transmitters located in the wet well to calculate the incoming flow. The controller could also measure the pumping rates of each pump by measuring the amperage of its motor. According to Chris Lucas, "By utilizing this very economical solution, Irvington's WWTP is now able to accurately measure the flow coming into the WWTP and is now in compliance with the state's influent measurement requirement."

The Grundfos CU362 dedicated controller is not only capable of accurately measuring inflow and pump outflow of sewage pumping stations it also has many other uses. For instance, WASCON has other customers who are utilizing this controller to record inflow and infiltration (I/I) flow data. A rain gauge can be monitored by the controller, which means that all of the data necessary to perform an I/I analysis in a sub-basin of your collection system, can be collected by a single economical controller. The controls have a full color graphic display and are capable of controlling a pump station with up to six pumps. By utilizing the CUE VFD with the CU362 controller, the optimal speed to run the pumps can be determined. Therefore, in addition to a low initial cost, your pumps are highly efficient, saving energy. The controller also includes an anti-blocking feature that, when coupled with a Grundfos CUE VFD, will detect and attempt countermeasures to unblock a pump. Lastly, the controller is easy to integrate with SCADA systems, utilizing open protocols (Modbus, Profibus, Canet, etc.) and a pre-configured profiles list.

WASCON, Inc. has been in the water and wastewater service and sales industry since 1979. For information on the Grundfos controller or any other water and waste water product or service that you may need, check their website at www.wasconinc.com.



SWAN ANALYTICAL USA, Inc.

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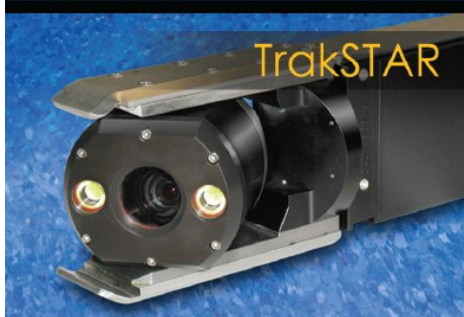
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In Case You were Wondering.

As a few Americans have contracted the Ebola virus, concern has spread. Outlined below are some basic facts about the Ebola virus from the Centers for Disease Control (CDC).

- The Ebola virus causes an acute illness that is often fatal with a death rate of up to 90 percent. The Ebola virus disease first appeared in 1976 in two simultaneous outbreaks, one in a remote area of Sudan and the other in a village near the Ebola River in the Democratic Republic of Congo, from which the disease takes its name. The current outbreak in West Africa (the first cases reported in March 2014) is the largest and most complex outbreak since the virus was discovered and is currently impacting both urban and rural areas.
- Ebola is not a foodborne, waterborne or airborne illness. The virus is transmitted to humans from wild animals and spreads in the human population through human-to-human transmission. Ebola is transmitted through direct contact with infected bodily fluids (e.g., blood, vomit, feces) and can only replicate within host cells. Therefore, it cannot survive long in water because it does not have its host — either a human or an animal.
- Because of Ebola's fragility when separated from its host, bodily fluids flushed by an infected person would not contaminate the water supply. Researchers believe Ebola survives in water for only a matter of minutes. This is because water does not provide the same environment as our bodily fluids, which have higher salt concentrations. Once in water, the host cell will take in water in an attempt to equalize the osmotic pressure, causing the cells to swell and burst, thus killing the virus.

On November 20, 2014, the CDC released interim guidance for all managers and workers handling untreated sewage that might contain the Ebola virus. The document addresses safety precautions, basic hygiene practices and recommendations for personal protective equipment, which should be used when handling untreated sewage from hospitals, medical facilities and other facilities treating confirmed Ebola patients.

According to the document, some workers might contact untreated sewage before it enters a wastewater treatment plant, and therefore are at a very low risk of exposure to the Ebola virus. These workers include:

- Plumbers in hospitals that are currently treating an Ebola patient,
- Sewer maintenance workers working on the active sewer lines serving the hospital with an Ebola patient, and
- Construction workers who repair or replace active sewer lines serving the hospital with an Ebola patient.

The following PPE is recommended for workers handling untreated sewage:

- Goggles or face shield: to protect eyes from splashes of untreated sewage,
- Face mask (e.g., surgical mask): to protect nose and mouth from splashes of human waste. If undertaking cleaning processes that generate aerosols, a NIOSH-approved N-95 respirator should be used.
- Impermeable or fluid-resistant coveralls: to keep untreated sewage off clothing,
- Waterproof gloves (such as heavy-duty rubber outer gloves with nitrile inner gloves) to prevent exposure of hands to untreated sewage, and
- Rubber boots: to prevent exposure of feet to untreated sewage.

Basic hygiene practices include:

- Wash skin with soap and water immediately after handling sewage, or any materials that have been in contact with sewage.
- Avoid touching face, mouth, eyes, nose, or open sores and cuts while handling sewage, or any materials that have been in contact with sewage.
- Wash hands with soap and water before eating or drinking after handling sewage.
- Remove soiled work clothes and do not take home to launder. Launder clothing at work or use a uniform service.
- Eat in designated areas away from untreated sewage.
- Do not smoke or chew tobacco or gum while handling human waste or sewage, or any materials that have been in contact with human waste or sewage.
- Cover open sores, cuts, and wounds with clean, dry bandages.

For additional information consult the CDC website at: www.cdc.gov/vhf/ebola/prevention/handling-sewage.html.

KWWOA Chapter—Do You Know Your Chapter Officers?



Eastern Chapter Counties: Bath, Bell, Boyd, Breathitt, Carter, Clay, Elliott, Fleming, Floyd, Greenup, Harlan, Jackson, Johnson, Knott, Knox, Laurel, Lawrence, Lee, Leslie, Letcher, Lewis, Magoffin, Martin, Menifee, Montgomery, Morgan, Owsley, Perry, Pike, Powell, Rockcastle, Rowan, Whitley and Wolfe.

Officers: Susan Knuckles	President	859-333-0879	susanknuckles@hotmail.com
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Lloyd Keyser	Secretary & Wastewater Rep	606-923-3760	lloydkeyseronsite@yahoo.com
Joe Dunaway, Jr.	Treasurer	606-748-8778	joedunaway@altiusbb.com
Roy Gray	State Board Water Rep	606-596-0296	manchesterwtp@yahoo.com

North Central Chapter Counties: Anderson, Boone, Bourbon, Boyle, Bracken, Campbell, Carroll, Clark, Estill, Fayette, Franklin, Gallatin, Garrard, Grant, Harrison, Henry, Jessamine, Kenton, Lincoln, Madison, Marion, Mason, Mercer, Nicholas, Owen, Pendleton, Robertson, Scott, Shelby, Spencer, Trimble, Washington, and Woodford.

Officers: Ed Fortner	President	859-986-4391	efortner@bereaky.gov
Matt Piccirillo	Interim Vice President & Secretary/Treasurer	859-441-0482	picciril@nkywater.org
Stewart North	State Bd. Wastewater Rep	859-223-1444	sanorth@sourcetechnologiesllc.com
Brian Bourne	Water Rep	502-229-2396	BBourne@fewpb.com

Central Chapter Counties: Adair, Allen, Barren, Breckinridge, Bullitt, Butler, Casey, Clinton, Cumberland, Edmonson, Grayson, Green, Hardin, Hart, Jefferson, Larue, McCreary, Meade, Metcalfe, Monroe, Nelson, Oldham, Pulaski, Russell, Taylor, Warren, and Wayne.

Officers: Robin Strader	President	270-259-3311	rdstrader@windstream.net
David Huffman	Vice President	270-404-4809	Huffmans@scrtc.com
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Jacob Billingsley	Wastewater Rep	270-670-3751	jbillingsley@glasgowh2o.com
Jeremy Woosley	Director of Water	270-879-8632	jwoosley@wrecc.com
Bradley Johnston	Director of Wastewater	270-351-6270	Bradley.johnston@veolia.com

Western Chapter Counties: Ballard, Caldwell, Calloway, Carlisle, Christian, Crittenden, Daviess, Fulton, Graves, Hancock, Henderson, Hickman, Hopkins, Livingston, Logan, Lyon, Marshall, McCracken, McLean, Muhlenberg, Ohio, Simpson, Todd, Trigg, Union, and Webster.

Officers: Keith Curneal	President	(270) 824-2145	kcurneal@madisonvillegov.com
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Chris Spriggs	Water Rep	(270) 824-2145	cspriggs@madisonvillegov.com
Alan Todd	Wastewater Rep	(270) 824-2170	atodd@madisonvillegov.com

KWWOA 2015 TRAINING & EVENT SCHEDULE

Chapter	Date	Training Cost	Location of Training	Type of Training*	Hours*
North Central	January 13-14	Free—KWWOA Members \$50.00—Non-Members	Annunciation Church Parish Center Paris, KY	January 13—General January 14—Wastewater	12
Central/KLA	Jan. 26 & 27	\$50 to \$240.00—Varies based on the class level selected and membership status.	Edmonton Maintenance Building Edmonton, KY	Field only Lab Application Prep— Water and Wastewater	12
Central/KLA	February 9-10	\$50 to \$240.00—Cost based on class selected & member- ship status.	Campbellsville Civic Center Campbellsville	Field Only Lab Application Prep— Water and Wastewater	12
Eastern	February 19	Free –KWWOA Members 50.00—Non-Members	London Utilities London, KY	Trenching and Shoring	6
Statewide	April 12-15	\$140.00-KWWOA Members \$170.00—Non-Members	Crowne Plaza Louisville, KY	Water and Wastewater	18
Central	April 29	Free—KWWOA Members \$50.00—Non-Members	Leitchfield Fire Dept. Training Center Leitchfield, KY	Confined Space	6
North Central	May 7	Free—KWWOA Members \$50.00—Non-Members	Frankfort Electric Water Plant Board Frankfort, KY	Water and Wastewater	6
Western	May 12-13	Free—KWWOA Members \$50.00—Non-Members	KY Dam Village State Resort Park Gilbertsville, KY	Water and Wastewater	6
Eastern	May 21	Free—KWWOA Members \$50.00—Non-Members	Eastern KY University Campus Manchester, KY	Water and Wastewater	6
Central	May 21	Free—KWWOA Members \$50.00—Non-Members	Hardin Co. Water District No. 2 Elizabethtown, KY	Trenching and Shoring	6
North Central	July 17	Free—KWWOA Members \$50.00—Non-Members	Maysville Community College Maysville, KY	Drinking Water	6
Eastern	August 20	Free—KWWOA Members \$50.00—Non-Members	Morehead Utility Maintenance Dept. Morehead, KY	Water and Wastewater	6
KLA	Sept. 1—4	150.00-All attendees Must be preapproved.	Grayson County Water District Leitchfield, KY	Sept. 1-3—Cert. Review Session Sept. 4—Exam**	18
Central	Sept. 22-23	Free—KWWOA Members \$50.00—Non-Members	Barren River State Resort Park Glasgow, KY	Water and Wastewater	12
North Central & Eastern	October 12-14	Free—KWWOA Members \$75.00—Non-Members	4 Point Sheraton Lexington, KY	Water and Wastewater	18
Central	October 22	Free—KWWOA Members \$50.00—Non-Members	Bowling Green Municipal Utility Bowling Green, KY	Confined Space	6
Central	December 3	Free-KWWOA Members	TBA	Holiday Awards Banquet	N/A
Western	December 7	Free-KWWOA Members	KY Dam Village State Resort Park Gilbertsville, KY	Holiday Dinner Meeting	N/A

* It is the intent of the KWWOA to solicit approval from the Division of Compliance Assistance and the Kentucky Boards of Certification for approval of the hours and type of training referenced above prior to the class. Once the hours have received Board approval, a notice will be posted on the KWWOA website with information on the particular class. If you need these hours for renewal purpose and/or the specific topic referenced, you should inquire ahead of time as to the agenda and whether approval has been obtained.

** Must be prequalified for this exam.



"Working Together to Preserve the Environment and Future of the Water and Wastewater Operator"



Membership Application/Renewal Form

—Please check the appropriate boxes and print clearly—

Refer to the list of counties on our website at www.kwwoa.org, to determine which Chapter serves your area.

☐ - Western

☐ - Central

☐ - North Central

☐ - Eastern

☐ - New Member

☐ - Membership Renewal

Name: _____ Agency Interest No. _____

Home Address: _____ County: _____

City: _____ State: _____ Zip Code: _____

Employed By: _____

Business Address: _____

City: _____ State: _____ Zip Code: _____

Phone: (Home) (_____) _____ - _____ (Business) (_____) _____ - _____

Email: (Home or Business) _____

Where would you prefer to receive KWWOA information/training announcements ? ☐ - Home ☐ - Business

If a valid email is provided, it will be utilized to ensure that you receive KWWOA information more quickly

NOTE: Associate Members should not use this form. Associate Membership Applications may be found at www.kwwoa.org.

Active Membership ☐ - By February 28, 2015.....\$30.00 ☐ - Postmarked March 1, 2015 & after 50.00

Active membership is designed for those who actually hold a valid water or wastewater license and/or who are employed in a water or wastewater utility. This includes administrative staff, pretreatment and/or lab technicians as well.

☐ **Honorary Membership.....Free**

Honorary membership is designed for those who are retired from the water or wastewater field and held an active membership in the KWWOA during the previous calendar year. There is no fee for Honorary membership.

☐ **KLA Membership.....\$10.00**

This fee is in addition of the Active Membership fee above.

TOTAL _____

Please forward this application and a check or money order, payable to **KWWOA**, to the address below. You may also elect to renew online, paying through PayPal at www.kwwoa.org.

KWWOA
P.O. Box 700
Lawrenceburg, KY 40342

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- Storm Water Permitting, BMPs, & Monitoring
- Groundwater Protection Plans
- Groundwater Investigations & Remediation Systems
- Groundwater Monitoring
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- Flowmeter Installation, Monitoring, & Calibration
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- Environmental Phase I & II

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