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### KWWOA NEWS:

Effective immediately, KWWOA's new mailing address is:

KWWOA

P.O. Box 700

Lawrenceburg, KY 40342

While mail to the old address will be forwarded, please share this with your employer and/or begin using the address above for any future correspondence.

Our phone number (502-352-0510) and email address (kwwoa@fewpb.net) remain the same.

Be on the lookout in January 2012, for the unveiling of KWWOA's new website at [www.kwwoa.org](http://www.kwwoa.org)!

## KWWOA—On the Hunt for Excellence 55th Annual Water and Wastewater Operators' Conference April 15—19, 2012

The 55th Annual Kentucky Water and Wastewater Operators' Conference, "On the Hunt for Excellence," is right around the corner and KWWOA has some exciting new activities planned for the week. In addition to the opportunity to earn 18 hours of classroom training, we will also hold a "Scavenger Hunt" in the Exhibit Hall for Water Treatment, Water Distribution, Wastewater Treatment and Collection System Operators that will include a training component. Hands-on training will be provided for Distribution and Collection System Operators, which allow operators to actually utilize the equipment and participate in the demonstration. While all of the training offered during the week will benefit the attendees, you may want to take advantage of these new training opportunities as well. KWWOA will also partner with the Division of Compliance Assistance to provide training and testing for Surface Water and Wastewater Treatment Certification.

On Monday, breakfast will be provided before the Opening Session for all conference attendees. As a part of KWWOA's "Hunt for Excellence" outstanding operators and plants, who are KWWOA members, will be recognized during the Opening Session. Attendees can then select and attend six hours of classroom training and/or participate in the Distribution Scavenger Hunt. After an action packed first day, a Welcome Reception will be held in the Exhibit Hall at 5:00 and then attendees will have the evening to visit with friends and/or take in the many activities around Louisville.

Tuesday will once again afford attendees the opportunity to attend and earn six continuing education hours, including the Scavenger Hunt for Water Treatment, Wastewater Treatment and

Collection System Operators. Lunch will be provided to all attendees in the Exhibit Hall. Immediately following the conclusion of training, don't find yourself in the "blind" and miss out on snacks in the Exhibit Hall and one more opportunity to talk with the many exhibitors. On Tuesday evening, you may also elect to participate in the Belle of Louisville Dinner Cruise with entertainment provided by the ever popular Endless Summer Band!

Wednesday is the last day of this continuing education event, but it isn't one to miss! Operators have an opportunity to attend six hours of quality training, including the hands-on demonstrations for Distribution and Collection System Operators.

The nice thing about this conference is the ability to attend 18 hours of continuing education, "scope" out industry specific products and services, and enjoy multiple opportunities to mix with other drinking water and wastewater professionals, all for the low fee of \$100.00 (for KWWOA members.) The Conference registration form is included in this newsletter. You may also register by completing this form online at [www.kwwoa.org](http://www.kwwoa.org). If you are interested in certification testing, you must register with and receive prior approval from the Division of Compliance Assistance. Register early and be sure to reserve your lodging as well or you may miss your "target"!

"Opening season" for the KWWOA Annual Water and Wastewater Operators' Conference begins April 15 and you don't want to miss it! If you have never attended, this is the perfect opportunity to join the "hunt" and if you are a conference regular, we can't wait to see you again at the **55th ANNUAL WATER AND WASTEWATER OPERATOR'S CONFERENCE!**

## Fourth Article on the Groundwater Rule Mapping Ground Water Rule Requirements: Sanitary Survey and Corrective Action

*Disclaimer: This article is not a rule and is not legally enforceable. As indicated by the use of non-mandatory language such as “may” and “should,” it does not impose any legally binding requirements. This article describes requirements under existing laws and regulations, and does not replace any existing established laws or regulations.*

*This is the fourth article in a series of five developed by US Environmental Protection Agency (EPA), Office of Ground Water and Drinking Water (OGWDW) that summarize key components of the Ground Water Rule (GWR). As with all drinking water rules, please check with your Primacy Agency for specific state-related requirements.*

### What are the Basic Requirements of the Ground Water Rule (GWR)?

Two of the four GWR requirements (Source Water and Compliance Monitoring) have been discussed in previous articles. Source Water Monitoring, which includes Triggered, Additional, and Assessment Monitoring, is required for systems not providing 4-log treatment. Compliance Monitoring is how an operator documents 4-log treatment of viruses by monitoring and maintaining a State-determined minimum disinfectant residual. In this article we will discuss the two remaining requirements: Sanitary Surveys and Correction Action.

### How the GWR impacts the State's role in Sanitary Surveys

The purpose of a sanitary survey is to review the public water system's source, equipment, facilities and treatment procedures to ensure they have been properly maintained and operated to make certain that safe drinking water is distributed to the public. Under the TCR, the States conducted sanitary surveys on a five-year cycle for community and non-community water systems (CWSs and NCWSs) that collected fewer than five TCR samples per month and every 10 years for the NCWSs that disinfected their source. Under the GWR, the sanitary survey requirements have been revised for GWSs to be consistent with surface water systems by increasing the frequency and completeness of the sanitary surveys to enhance the public health protection. GWR requirements regarding sanitary survey frequency and deadlines are shown in Table 1.

Table 1. Sanitary Survey Frequencies and Dates

System Type	Minimum Frequency	Compliance Date <sup>1</sup>
Community GWS (Conducting triggered source water monitoring)	Every 3 Years	December 31, 2012
Community GWS providing 4-log treatment (conducting compliance monitoring)	Every 5 Years	December 31, 2014
Community GWS with an outstanding performance record <sup>2</sup>	Every 5 Years	December 31, 2014
Non-community GWS	Every 5 Years	December 31, 2014

<sup>1</sup>Initial sanitary survey must be completed by the compliance dates.

<sup>2</sup>Outstanding performance records are determined by the State.

### How the Sanitary Surveys Might Impact Public Water Systems

The GWR requires that a sanitary survey address eight specific elements and for the surveyor to identify any significant deficiencies that may exist at the water system. A significant deficiency identified during the sanitary survey must be addressed by the public water system within a specified time frame determined by the State. GWSs should be aware of the eight elements in a sanitary survey and what might be considered a significant deficiency by the State to avoid compromising the quality of

the water and public health. The eight elements and some examples of what might be evaluated are described below:

1. Source—well construction, potential source contamination, setback distances, source quantity and quality, well locations, source water transmission mains, site security, and general housekeeping.
2. Treatment—design criteria, plant records, past inspections, operation, maintenance, and overall management of the treatment facility.
3. Distribution System—review schematics, operation and maintenance records, operating procedures, construction standards, and distribution system water quality data.
4. Finished Water Storage—tank integrity, operational readiness, site security, potential sanitary risks, proper maintenance checks, and operation and maintenance procedures.
5. Pumps, Pump Facilities, and Controls—pump capacity, maintenance, pump control system, emergency power back up, pump tests, remote monitoring, controls and alarms.
6. Monitoring, Reporting and Data Verification—compliance with site sampling and monitoring plans, monthly reports, daily logs, analytical results and monitoring data, and record keeping requirements.
7. System Management and Operation—managerial, and financial and technical sustainability.
8. Operator Compliance with State Requirements—properly certified staff depending on the size and type of system.

If while conducting a sanitary survey the State identifies a significant deficiency, it is the State's responsibility to inform the public water system of the deficiency and to work with the public water system to correct the significant deficiency.

### Corrective Action

Corrective action is required if the GWS falls into one of the scenarios described below:

- Significant deficiencies identified by the State during a field visit or sanitary survey.
- One of the samples collected during triggered source water monitoring is fecal indicator-positive (FI+) and the State requests the system to go straight to corrective action.
- One of the samples collected during the additional source water monitoring is FI+.

Groundwater Article Continued from page 2

There are four main corrective action options:

1. Correct all significant deficiencies.
2. Provide an alternate source of water.
3. Eliminate the source of contamination
4. Provide treatment that reliably achieves 4-log treatment of viruses.

The GWR specifies a schedule for corrective actions. The State notifies the GWS of a significant deficiency. The public water system has 30 days to consult with the State to determine an appropriate corrective action. The GWR states that the system has 120 days to complete measures or steps as indicated in their corrective action plan or they must be in compliance with a state-approved corrective action schedule. Table 2 provides a graphic representation of the GWR requirement for corrective action.

Frequently Asked Questions

**Question #1:** Can the system alone (without input from the State or Primacy Agency) decide whether to go directly to corrective

action or to conduct additional source water monitoring?

**Answer:** No. If a triggered source water sample is FI+, the GWS must conduct additional source water monitoring unless it is directed by the state to complete corrective action. If any of the additional source water monitoring samples are FI+ the system must take corrective action. GWSs must consult with the state within 30 days of being notified by the state of a significant deficiency or receiving the results from the lab that one or more of the additional source water monitoring samples were FI+.


**Question #2:** Can a significant deficiency only be identified during a sanitary survey?

**Answer:** No, Under the GWR, states have the authority to identify a significant deficiency at any time.

**Question #3:** Are significant deficiencies limited to fecal contamination (i.e., only virus-related contamination)?

**Answer:** No. A significant deficiency is defined as a situation that is causing, or has the potential to cause, introduction of contamination into the water delivered to consumers.

Table 2: Corrective Action Timeline Requirements		
Start Date is. . . .	Within 30 days	Within 120 Days
Notice of Significant Deficiency OR Notice from the lab of fecal indicator-positive sample from triggered source water monitoring and the State requires Corrective Action OR Notice of fecal indicator positive sample from at least 1 of 5 additional source water monitoring samples	System consults with state to determine Corrective Action  OR State specifies Corrective Action	System must complete steps outlined in Corrective Action Plan  OR System must be in compliance with state-approved Corrective Action plan & schedule



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# KWWOA

## On the Hunt for Excellence

55th Annual Kentucky  
Water & Wastewater  
Operators' Conference

April 15-19, 2012 | Exhibit Dates - April 16 & 17  
Galt House Hotel & Suites | Louisville, Kentucky

# 55th ANNUAL WATER AND WASTEWATER OPERATORS' CONFERENCE

## WHO SHOULD ATTEND THE 55th ANNUAL OPERATORS' CONFERENCE?

This is a "must attend" event for individuals requiring up-to-date, hands-on information for the operation of drinking water treatment, distribution, wastewater collection and treatment systems. The Annual Water and Wastewater Operators' Conference will provide access to over 80 technical sessions and over 90 exhibitors, as well as an opportunity to network and exchange information with fellow professionals. Operators can earn a maximum of 18 continuing education hours by attending each six-hour day of classes. Conference training will be submitted to the Kentucky Boards of Certification of Water Treatment, Distribution and Wastewater System Operators for approval toward license renewal. Documented training hours turned in at the conclusion of the conference, will be provided to the Division of Compliance Assistance and/or Dr. Pass as

## HOW DO I REGISTER TO ATTEND THE CONFERENCE?

Registration for the Conference can be accomplished by completing the "Registration Form" on the following page or online at [www.kwwoa.org](http://www.kwwoa.org). If completing the registration form on the following page, be sure to include payment with the form. If registering online, you may pay with a credit card, bank draft, debit card, etc., by simply following the PayPal instructions provided. Conference Registration includes all technical sessions, exhibit hall admittance, breakfast on day one, lunch on day two, and all evening social activities. If you plan to take a certification examination, do not register in either of these manners. See the information below under "Wastewater, Surface Water Treatment And Laboratory Analyst Exams."

## CONFERENCE HEADQUARTERS AND LODGING RESERVATIONS

Conference headquarters for the 55th Annual Kentucky Water and Wastewater Operators' Conference is the Galt House Hotel and Suites, Louisville Kentucky. A block of rooms has been reserved and reservations should be made before March 15, 2012 to ensure availability. Reservations can be made by visiting the KWWOA website at [www.kwwoa.org](http://www.kwwoa.org), clicking on the "State Conference" link and selecting the "Galt House Hotel Reservations" button. Reservations can also be made by contacting the Galt House directly at 502-589-5200 (be sure to reference the Conference to receive the room rate provided).

### Galt House Hotel & Suites

Suites Tower—\$135.00 Flat Rate   Rivue Tower—\$125.00 Flat Rate  
(Rate will increase after March 15, 2012 so REGISTER EARLY!)

*Check In—3:00 PM, Check Out—11:00 AM*

## WHAT IS INCLUDED IN MY CONFERENCE REGISTRATION FEE?

Registration includes the following: Access to all training sessions, access to the exhibit hall, breakfast—day one, lunch—day two, and access to all evening social functions. All of this is included for the KWWOA member price of \$100.00 or the non-member price of \$130.00 (which will make you a KWWOA member for 2012). Note: If you wish to bring a guest to the Belle of Louisville Cruise, an additional \$30.00 fee is required and should be noted on the Conference Registration Form.

## WASTEWATER, SURFACE WATER AND LABORATORY ANALYST EXAMS

Certification review sessions/exams will be held during the Conference for wastewater and surface water treatment personnel. Registration procedures for these exams are outlined on the Division of Compliance Assistance website. Certification Applications and Registration Forms are also available by contacting the Certification and Licensing Branch at (502) 564-0323 or online at [dca.ky.gov/certification](http://dca.ky.gov/certification). Applicants must 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. NOTE: If you wish to bring a guest to the Belle of Louisville Cruise, an additional \$30.00 fee is required. The \$30 fee and Conference Registration Form must be submitted to KWWOA. Do not complete this form as an attempt to register for a Division of Compliance Assistance certification examination.

KWWOA will also offer training and certification testing for Wastewater and Drinking Water Laboratory Analyst. These are voluntary certification programs sponsored by KWWOA and utilize exams prepared by the Association of Boards of Certification. If you are interested in testing, complete the Conference Registration form and the certification application will be forwarded to you upon receipt. Qualifications for testing, may be viewed on the KLA tab at [www.kwwoa.org](http://www.kwwoa.org).



# 55th ANNUAL WATER AND WASTEWATER OPERATORS' CONFERENCE

## REGISTRATION FORM

Galt House Hotel & Suites, Louisville, Kentucky

April 15-19, 2012

(Please Print Clearly)

Name (As you wish it to Appear on your Nametag): \_\_\_\_\_

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Employer: \_\_\_\_\_

Work Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Title: \_\_\_\_\_ Work Phone: \_\_\_\_\_

County: \_\_\_\_\_ Email Address: \_\_\_\_\_

Would prefer to receive KWWOA information at: \_\_\_\_\_ Home \_\_\_\_\_ Work

Would prefer to receive KWWOA information By: \_\_\_\_\_ Email (Address provided above) or \_\_\_\_\_ Regular Mail

Are You 2012 KWWOA Member? \_\_\_\_\_ Yes \_\_\_\_\_ No AI/KWWOA Unique ID: \_\_\_\_\_

### IMPORTANT NOTE: THIS FORM MUST BE COMPLETED IN ITS ENTIRETY

Registration includes all Technical Sessions, admittance to the Exhibit Hall, Breakfast—Day 1, Lunch—Day 2, and all Social Events.

\_\_\_\_\_ Pre-Registration for Members — Select this box if you have paid your 2012 dues \$100.00

\_\_\_\_\_ Pre-Registration for Non-Members (includes Membership) \$130.00

#### Registrations after March 1, 2012:

\_\_\_\_\_ Registration for Member \$140.00

\_\_\_\_\_ Registration for Non-Member (includes Membership) \$170.00

\_\_\_\_\_ I Plan to test for Wastewater and/or Drinking Water Laboratory Analyst certification \$100.00

\_\_\_\_\_ I Plan To Attend Ohio River Dance Cruise on the Belle of Louisville, Tuesday Evening, April 17 (cost is included in the conference registration fee).

\_\_\_\_\_ Guest/Spouse (includes admittance to exhibit hall, meal functions and Social Events). \$30.00

Guest Name: \_\_\_\_\_

TOTAL REGISTRATION FEE INCLUDED\*: \$ \_\_\_\_\_

*\*One check may be submitted with multiple registration forms. A separate check may be submitted for guest/spouse payment and included with form, if necessary.*

Name of Payee if different from the Registrant above: \_\_\_\_\_

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

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

**FOR MORE INFORMATION CONTACT:** Lisa Detherage at (502) 352-0510 or via email at [kwwoa@fewpb.net](mailto:kwwoa@fewpb.net). (Anyone registering online will receive an email confirmation of registration. Those registering with a check via regular mail will not receive a confirmation of registration.)

**No Refunds issued after March 15, 2012.**

## Tentative Conference Agenda

(Final Times May Vary Slightly)

### Sunday, April 15, 2012

3:00 PM—5:00 PM      Registration

### Monday, April 16, 2012

7:00 AM—8:00 AM      Breakfast  
 8:00 AM—9:00 AM      Opening Session  
 9:30 AM—5:00 PM      Training Sessions  
 12:30 PM-2:00 PM      Lunch On Your Own  
 1:00 PM—6:30 PM      Exhibit Hall Opens  
 5:00 PM—6:30 PM      Welcome Reception Exhibit Hall

### Tuesday, April 17, 2012

8:00 AM—3:30 PM      Training Sessions

### Tuesday, April 17, 2012 continued

8:00 PM—5:00 PM      Exhibit Hall Open  
 12:00 PM-1:30 PM      Lunch in the Exhibit Hall  
 3:30 PM—4:30 PM      Snacks in the Exhibit Hall  
 6:30 PM-11:00 PM      Belle of Louisville Cruise

### Wednesday, April 18, 2012

8:00 AM—3:30 PM      Training Sessions  
 12:00 PM-1:30 PM      Lunch On Your Own

### Thursday, April 19, 2012

8:00 AM      Certification Testing

## Water Training Institute

The Water Training Institute (WTI), developed by the Center for Water Resource Studies (CWRS) at Western Kentucky University (WKU) with funding through the National Science Foundation (NSF), combines both an academic and hands-on approach to training which leads to an Associate of Science Degree in Water Resource Management. This workforce development initiative seeks to both infuse the water and wastewater industry with a new crop of operators, as well as serve existing operators by providing career advancement opportunities.

The academic coursework is delivered to students on-line via the Internet, allowing course content to reach students in areas where face-to-face training opportunities are not readily available. Instructors in the program are qualified professionals in the industry, lending their expertise to the courses.

The degree program requires all students to complete an internship with a utility in order to gain their hands-on component. This led to the establishment of the Utility Network (UNet), which assists students in finding internships with utilities in their geographic area that will allow them to participate in the hands-on training necessary to become a proficient operator. Utilities can join the network by volunteering their resources to students, such as facility tours, access to laboratories, and internship opportunities.

Several utilities in Kentucky and Tennessee opened their doors to students in the program during the summer of 2011. Some of the students were new to the industry, and some were existing operators. At the onset of the internship, students worked with the utilities to establish a set of learning objectives for the internship. Once the objectives were established, the students tracked their progress with a daily log. Each student's supervisor was asked to complete an evaluation of the student's progress at the end of the internship, and the student received three semester credit hours for their efforts, not to mention an invaluable opportunity to find out more about the trade and make lasting connections in the industry. Employer feedback was overwhelmingly positive, with comments such as "motivated", "dependable", "great attitude", "pleasure to work with", "goal-oriented", and "strong work ethic". This also gives utilities the opportunity to "test drive" students to determine if they would be a good fit for current or future job openings. For example, the first graduate

of the WTI program was hired by the utility where he conducted his internship.

Students already employed in the industry can conduct their internship with their existing employer. In this case, the student and employer establish a set of learning objectives that are above and beyond the student's current job responsibilities. This could include researching future regulations and how they will affect the utility, cross-training the employee on new tasks, or other needs the utility may have. The learning experience for the employee and the additional support for the employer make this a win-win situation.

If your utility would be interested in pursuing internship opportunities for students in the WTI program, call 1-877-WTI-0999 or email [wti@wku.edu](mailto:wti@wku.edu).

Below: WKU student James Wood, prepping a slide to be analyzed at the Franklin Wastewater Treatment Plant.



Congratulations to John M. Ranburger, a Class III Wastewater Treatment and Class III Collection System Operator, for being selected for a KWWOA Scholarship issued by the Regent Scholarship Program through Western Kentucky University.



## BIRD CONTAMINATION AND YOUR WATER TANK

Article by Hugh McGee, Pittsburg Tank and Tower Co.

In 1993 a small community located in the "boot-heel" of Missouri suddenly experienced a large waterborne disease outbreak. In a community with a population of a little over 1100 people, there was an estimated 650 cases of gastroenteritis. Of these, fifteen individuals required hospitalization and seven residents of a local nursing home died. The resulting investigation by federal and state authorities determined, that among other problems with the water system, pigeon droppings had found access to the water in the community's 100,000 gallon water tower and had contaminated the city's drinking water. An inspection of the water tank showed that access had been allowed by an improper roof vent and an uncover hatch. Bird feathers were observed inside the tower indicating not only bird droppings in the water but also the possibility of dead birds and other contaminants.

Occurrences like this are all too common. Recent cases have happened in Kansas, Maine, Massachusetts, and other states across the country. One Midwest tank inspection firm reports that 20 to 25 percent of the tanks they inspect have serious sanitary defects. Improperly designed roof hatch systems and vents that do not provide a watertight seal are the cause of most of these defects. Damage or holes that have been cut in the tank's roof and not properly sealed or open and unlocked access openings, and in some cases, the construction practices in some tanks more than 30 years old are typical defects. Sometimes hanging cathodic protection systems do not provide a tight seal. If you can stand inside your tank and see daylight through the roof, you've got problems.

Why are these defects problems? Even if the openings in the roof aren't large enough for birds to enter, tank roofs are basically flat structures and birds defecate on the roof. These bird droppings dry up and the wind blows it, or rain washes it, under poorly fitting roof vents and hatches, into poorly fitting cathodic protection systems, and in the case of older, bolted tanks, into

the openings left when bolts have disintegrated or have worked themselves loose. Any section of the roof that has rusted through, even if not large enough to allow a bird entry to the tank, will allow the dried bird droppings access to your water supply.

As a water system operator what can you do to ensure that your system is not affected by a waterborne disease outbreak? A regular, thorough personal inspection of all your water tanks is a good place to start. Examine the vents and hatches to ensure they fit properly and are properly screened. Then examine the overflow or your tank. It should come to near grade and be fitted with a ¼" mesh screen which is inside a close fitting flap gate.

The American Water Works Association recommends tanks be drained and inspected every three years.. This would be a good time to have a professional tank inspection firm, knowledgeable in the sanitary aspects of tanks, to do the inspection. Not only can they address the issues of screens, access openings, cathodic protection devices, and problems inherent to radio antennas that may be on your tank, they can also do an ultra-sound to determine areas of your tank that may be susceptible to rusting through and causing more openings. A professional firm should also provide you with a written report of their findings and recommendations.

Contamination from birds is a major water quality problem in storage tanks. A lot of the contamination occurs because of a lack of attention to the sanitary integrity of the water tank. Routine inspections of tanks should be done on a daily or at least weekly basis to monitor the exterior of the tank for evidence of intrusion, security, or vandalism. Periodic inspections should be done to review areas of the tank not normally accessible from the ground, in other words, the roof. And a comprehensive inspection regularly (at least every three years as recommended by AWWA) should be done to evaluate the current conditions of the tank components.



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## KWWOA 2012 TRAINING & EVENT SCHEDULE

Chapter	Date	Training Cost	Location of Training	Type of Training	Hours*
North Central	January 17-18	Free-KWWOA Members \$50.00—Non-Members	Berea Municipal Utility Berea, KY	TBD	12
Eastern	February 16	Free-KWWOA Members \$50.00—Non-Members	Morehead Utility Plant Bd. Morehead, KY	Water and Wastewater	6 
Statewide	April 15-19	\$100.00—Members \$130.00—Non-Members	Galt House Hotel/Suites Louisville, KY	55th Annual Water & Wastewater Operators' Conference	18
North Central	May 3	Free-KWWOA Members \$50.00—Non-Members	Frankfort Plant Board Frankfort, KY	Water and Wastewater	6
Western	May 15-17	Free-KWWOA Members \$50.00—Non-Members	Kentucky Dam Village Gilbertsville, KY	May 15—Golf Scramble May 16-17—Water & Wastewater	12 
Central	May 16	Free-KWWOA Members \$50.00—Non-Members	Hardin Co. Water Dist. No. 2 Elizabethtown, KY	Trenching & Shoring	6
Eastern	May 17	Free-KWWOA Members \$50.00—Non-Members	Prestonsburg City Utility Prestonsburg, KY	May 16—Golf Scramble May 17—Water and Wastewater	6
Central	June 20	Free-KWWOA Members \$50.00—Non-Members	Leitchfield Fire Dept. Leitchfield, KY	Confined Space	6
Central	August 9	Free-KWWOA Members \$50.00—Non-Members	Bowling Green Utilities Bowling Green, KY	Confined Space	6
Eastern	August 16	Free-KWWOA Members \$50.00—Non-Members	London Wastewater Plant, London, KY	Confined Space Training	6
Central	Sept. 19-20	Free-KWWOA Members \$50.00—Non-Members	Rough River State Park Falls of the Rough, KY	Fall Conference & Golf Scramble Water and Wastewater	12
Eastern & North Central	October or November	Free-KWWOA Members \$75.00—Non-Members	TBD Lexington, KY	Fall Conference	18
Western	October 16 & 17	Free-KWWOA Members \$50.00—Non-Members	Economic Development Building Madisonville, KY	Water and Wastewater	12
Central	December 7	Holiday Dinner Meeting	Mammoth Cave Natl. Park Mammoth Cave, 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 referenced above. If you need these hours for renewal purpose, you should inquire ahead of time as to whether this approval has been obtained.



Courses listed with the Water Training Institute logo are part of the Associates Degree program of Western Kentucky University for water and wastewater professionals. Individuals enrolled in the degree program may utilize these hours to satisfy a portion of their academic requirements for the degree in addition to CEU credit toward license renewal.

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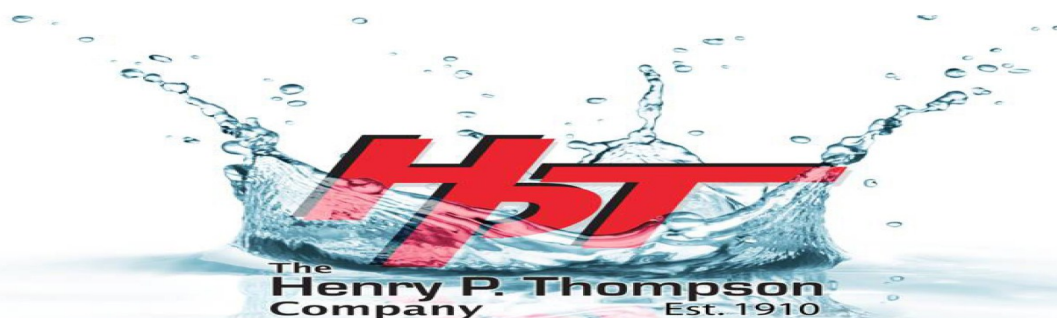
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## Active and Honorary Membership Application/Renewal Form

—Please check the appropriate boxes and print clearly—

For determination of the chapter you need to join, refer to the list of counties on our website at [www.kwwoa.org](http://www.kwwoa.org)

☐ - Western
 ☐ - Central
 ☐ - North Central
 ☐ - Eastern  
☐ - New Member
 ☐ - Renewing Membership

Name: \_\_\_\_\_

Home Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Employed By: \_\_\_\_\_

Business Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Phone: (Home) (\_\_\_\_\_) \_\_\_\_\_ - \_\_\_\_\_ (Business) (\_\_\_\_\_) \_\_\_\_\_ - \_\_\_\_\_

Email: (Home) \_\_\_\_\_ (Business) \_\_\_\_\_

Where would you like your KWWOA information sent?: ☐ - Home ☐ - Business

How Would You Prefer To Receive KWWOA Training Announcements? ☐ - Email\* ☐ - Regular Mail

\*Selection of the Email option will ensure that you receive KWWOA information more quickly.

**Active Membership** ☐ - Prior to February 29, 2012.....\$30.00 ☐ - After February 29, 2012.....\$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 pretreatment and/or lab technicians as well. NOTE: Associate Members Should Not Use This Membership Application. A separate application form is available for Associate Membership.

☐ **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**

**TOTAL** \_\_\_\_\_

Please make check payable to **KWWOA** and forward with the application to the address below. You may also elect to renew online, paying through PayPal at [www.kwwoa.org](http://www.kwwoa.org).

KWWOA  
P.O. Box 700  
Lawrenceburg, KY 40342



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Membrane Systems**

### KWWOA Wants Your Input!

KWWOA is an organization of and for Operators. As a result, we want to hear from our members as to how we can better serve you. For example, we would like your input on the following issues:

1. What topics would you like for us to address during the 2012 training sessions? Would you like to conduct a training session?
2. We are constantly looking for volunteers to give us input on various projects KWWOA is working on. Are you retired or have some extra time, and you would like to lend us your operational knowledge and expertise?
3. Are you interested in working with your local KWWOA Chapter on the activities they have planned for 2012?

If you are interested in becoming more involved in KWWOA, we welcome your input. Please email [kwwoa@fewpb.net](mailto:kwwoa@fewpb.net) to share your thoughts and/or to ask how you might become more involved!

### KWWOA Advocate Passes Away



Jasper Herman "Bunk" Sullivan, Jr., died at home on Dec. 12, 2011, at the age of 82. Bunk worked in construction, helping build many landmarks in Central Kentucky, such as the Chapel at Asbury Seminary and water and wastewater treatment plants in Kentucky and Georgia. Bunk also served for 30 years as the water superintendent at the Frankfort Plant Board, where he oversaw major upgrades and expansion of the utility's water service to surrounding counties. One of his crowning achievements during his career was spearheading construction of the Plant Board's



innovative concrete, martini glass-shaped water tower that bears his name and was one of the first of its kind in the nation.

During his tenure with the Frankfort Plant Board, Bunk always found time to support KWWOA and the American Water Works Association. Bunk served on various committee's for both organizations, including many years on the KWWOA Conference Committee and the AWWA committee that advocated for and helped to write backflow prevention standards. He worked tirelessly to promote the professionalism of operators and KWWOA's mission of improving the quality and supply of clean water through the education of operators.

Bunk was an active member of the Frankfort Kiwanis and First Christian Church. He will be remembered for his remarkable community spirit, love of life, and intense pride in his family, including his lovely wife Margaret. He is survived by his sister, nine children, 10 grandchildren and 3 great-grandchildren.

Bunk started out his career as a carpenter, but he quickly grew into a builder. The builder of a strong and intelligent family that contributes much to society; the builder of water treatment and distribution systems that provide clean water to citizens across the country; the builder of strong organizations, such as KWWOA, Frankfort Plant Board, Kiwanis and First Christian Church, that provide support to their members and communities. Bunk was not a certified operator, but you would never know it given how he promoted KWWOA. His work at the Frankfort Plant Board was not just a job, but a vocation and that energy and love spilled over to his work with KWWOA. KWWOA, and operators in general, are better off given Bunk's contributions to the profession. Bunk, we will miss your constant smile and love of life! May we honor you by not forgetting where we as an organization have come from under your guidance and that we, as water quality professionals, don't just think of our work as jobs, but as vocations!





*wishes all of our members  
a happy and prosperous 2012!*



#### KWWOA's Website Has a New Look!

KWWOA has been revamping its website to make it more secure and user friendly, while maintaining the current functions of the former site. The site will be available January 2012 and will allow operators to confirm their membership status and update personal information at any time. To create a more secure site, all members will be required to register/create an account with a password and unique email address. If you don't have an email address, you must make one up, but you should then note that you want KWWOA materials sent to you via regular mail. Creation of a site account is the first step, before paying your 2012 membership, registering for training, etc. If your 2012 membership has not been paid before you attempt to register for training, the nonmember fee will be referenced. We will also request your Division of Compliance Assistance, Agency Interest Number on your account, to assist in documenting training hours earned and serve as a unique identifier. This unique number must be referenced by employers who register on the site to pay your membership and/or training fees. If you are a member who is not certified, a KWWOA ID Number will be assigned and the employer may pay your dues by referencing this number. Once the site is available, information will be posted on the Home Page to make the registration process seamless, but if you have any questions do not hesitate to contact us at [kwwoa.fewpb.net](mailto:kwwoa.fewpb.net) or by calling (502)352-0510.



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## KWWOA STATE BOARD

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For information, comments or questions regarding KWWOA or this newsletter, contact:

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Member Services Director  
P. O. Box 700  
Lawrenceburg, KY 40342  
(502) 352-0510( Office)  
[kwwoa@fewpb.net](mailto:kwwoa@fewpb.net)

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## 2012 Membership Form and 55th Annual Conference Registration Packet Enclosed!

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- Universal Waste Handling Programs
- Hazardous Waste Management
- Air Emissions Registration & Permitting
- Industrial Hygiene Air Monitoring

PLEASE CONTACT TAB FARTHING OR RANDY  
SHELLEY FOR ASSISTANCE.