



## Thankful Beyond Measure

By Lisa Detherage

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This Holiday Season, I have thinking about the organization I work for, Kentucky Water & Wastewater Association (KWWOA), and the many people that I am blessed to work with throughout the year. What I kept coming back to over and over was how dedicated KWWOA is to the operator community, and the support we receive from our members. I can honestly say that every decision we make is based on what is best for our members. For example, what types of training will our members benefit from the most? If we select this venue, what will be the cost and benefit to KWWOA, the operator community and our Associate Members. Are we advocating for our members the best that we can? If we make a particular purchase, are we being the best stewards of our membership fees?

KWWOA is managed by volunteers and two part-time employees. We could not provide the training we offer to the operator community without the support of our members. These volunteers are supported by organizations who purchase memberships for their employees, even those who are not operators, year-in and year-out, whether they need training or not because they know the value of KWWOA. They also allow their employees, who serve as our State and Chapter officers to attend meetings, schedule and coordinate training and sponsorship events. This shows that they are not only dedicated to providing safe drinking water and protecting the waters of the Commonwealth, but by allowing their employee's participation, they also believe in supporting all drinking systems and operators throughout the Commonwealth. In a day and time when we are being asked to do more with less and our benefits appear to be in jeopardy, it is nice to see employers who support their employees' interests and who don't always view everything from the bottom line, so to speak.

KWWOA is allowed to keep our membership and training prices to a minimum, due to our loyal Operator and Associate members. Yes, you could say that our Associate membership price is low and they are benefitting from a business standpoint, but I can say that isn't always their sole motivation. When I call on our Associate members and other vendors, I know which ones will step up to offer a session or locate a speaker for a training class; the ones that want to be a part of the organization to offer assistance, but yet don't have to be in the forefront; those that don't care whether an operator is one of their customers or not when they plan an event, and those that offer to work, even if they are not on the training program. It isn't always about the money! In fact, I always tell operators that getting to know the personality behind the vendor, tells them more about how they do business and the support they will provide in a crisis.

As we begin a new membership year, I wanted to take a moment and thank all of our 2017 members for their assistance over the past year. We can't do it without you and we are forever grateful for your contributions, no matter the situation. Please know that we support you and appreciate the unique talents each and every one of you bring to the table throughout the year. We hope that you know how much KWWOA values you and your contributions to the operator profession!



**2018 Membership  
Renewals received  
Prior to February 28th**

**Individual Membership  
\$40.00**

**Associate Membership  
\$120.00**

**Check Inside  
For Details**

**61st Annual Water and Wastewater  
Operators Conference  
April 8—12, 2018**

**Force of the Future**

**Check Inside For Registration Details**

## Thanks 2017 KWWOA Associate Members!!!

Advanced Sealing Technology  
 American Development Corporation  
 American Flow Control  
 Appalachian States Analytical  
 Beckmar Environmental Laboratories  
 Bledsoe & Associates, Inc.  
 Buchanan Pump Service  
 Cann-Tech, LLC  
 CDP Engineers, Inc.  
 Charles R. Day  
 Clearwater Environmental Services  
 Covalen  
 Culy Contracting  
 D.M. Anderson, Inc.  
 Delaney & Associates, Inc.  
 Dixon Engineering, Inc.  
 DM Anderson, Inc.  
 Eco-Tech, Inc.  
 EJ USA, Inc.  
 Engineered Design Solutions, Inc.  
 Fortiline Waterworks  
 Fouser Environmental Services  
 Gatterdam Industrial Services  
 GRW Engineers  
 Hall Environmental Consultants, LLC  
 HPP Industrial Sales  
 ITM, Inc.—Inspection, Testing & Maint., Inc.  
 InControl Technical Solutions  
 Indelco Plastics Corporation  
 Insituform Technologies, LLC  
 Instrument & Chemical Services, Inc.  
 Kentucky Engineering Group, PLLC  
 Kenvirons, Inc.  
 LabtronX  
 Layne Company  
 Maryland Biochemical Co., Inc.  
 Master Meter, Inc.  
 McCoy & McCoy Laboratories, Inc.  
 Microbac Laboratories, Inc.  
 Mineral Labs, Inc.  
 Mueller Company

Nalco Company  
 NECO Water  
 Nesbitt Engineering Inc.  
 Preiser Scientific  
 Ressler & Associates  
 RJN Group  
 Rogers Hydrant Service  
 S4 Water Sales and Service, LLC  
 Schaeffer Manufacturing Company  
 Service Pump & Supply Co.  
 Service Specialties, LLC  
 SGS North America, Inc.  
 Sherwin-Williams  
 Sidener Environmental Services, Inc.  
 Source Technologies, LLC  
 SpectraTech, LLC  
 Strand & Associates, Inc.  
 Tech Coat, Inc.  
 Thornton, Musso and Bellemin, Inc.  
 timothyrrickettstraining.com  
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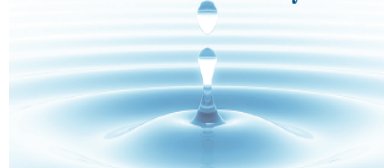
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# Central KWWOA—Closing out the Year with some Fun & Cheer!

By Jacob Billingsley

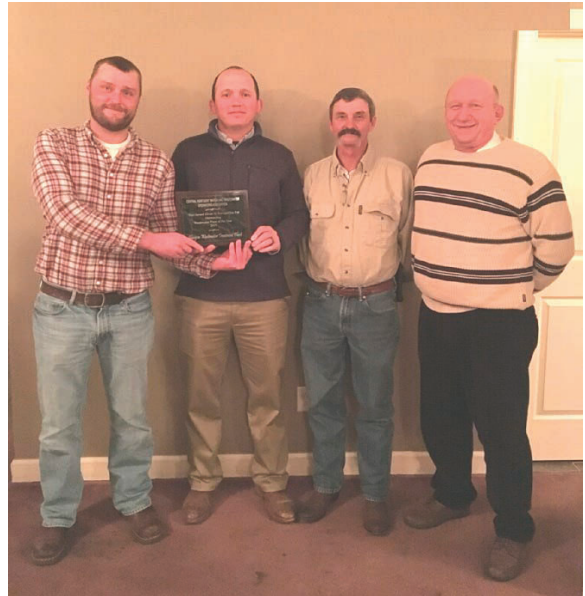
The Central Chapter of the Kentucky Water & Wastewater Operators Association (KWWOA) held its annual Christmas dinner, membership meeting and awards ceremony at the Elizabethtown Country Club on Dec. 7<sup>th</sup>, 2017. After eating an amazing meal of prime rib, green beans and mashed potatoes, salad, and a dessert, the Chapter held its annual Central KWWOA meeting. We were honored by the presence of several associate members and three wastewater certification board members. The meeting was somewhat brief, but there was some discussion about possibly moving the 2018 date for Christmas Dinner, Chapter awards were distributed recognizing some outstanding plants, operators, and educators, and door prizes were distributed. Everyone in the crowd was a winner as Water Management Services donated two Country Hams, Beckmar Labs provided a gas card and the Central Chapter gave away Tumbler cups engraved with CKWWOA, t-shirts to all members present and \$300 in cash prizes.

The following 2017 CKWWOA award winners were recognized for their system operations and/or contributions to the operator profession. These recipients are now in the running for a KWWOA State Award which will be distributed April 9, 2018, during the 61st Annual KWWOA Conference which will be held at the Northern Kentucky Convention Center.

Article continued on page 14



**CKWWOA Water Plant of the Year**  
**Edwin Nichols Water Treatment Plant—Grayson Co. Water District**  
Pictured: Jeremy Woosley, Russel Webb, James Hale & David Poole



**CKWWOA Wastewater Plant of the Year**  
**Glasgow Water Company Wastewater Treatment Plant**  
Pictured: Adam Headrick, Jacob Billingsley, Ronnie Poynter & David Huffman



**CKWWOA Educator of the Year**  
**Mike Wetherington, President & CEO of American Development Corporation**  
ADC is a big supporter of KWWOA and is always willing to contribute training topics for the many events that we have throughout the year.

**CKWWOA Drinking Water Operator**  
**Jeremy Woosley, Water Quality and Metering Supervisor for the Grayson Co. Water District**  
Jeremy is CKWWOA's Drinking Water Representative to the KWWOA State Board and holds Class IV Water Treatment & Class IV Distribution Licenses.



## Northern Kentucky - KWWOA is on its way!!!

Fellow Water & Wastewater Colleagues,

On behalf of the Conference Committee of the Kentucky Water & Wastewater Operators Association, I would like to invite you to attend and participate in the 61st Annual KWWOA Conference, "FORCE OF THE FUTURE". This year Conference has been moved upstream of the mighty Ohio River, to the Northern Kentucky Convention Center, Covington, KY. The Annual conference is scheduled for April 8 – 12, 2018. Details on this event and how to register may be found on pages 6– 9 of this newsletter. We have been hard at work on planning this event and hope to have an outstanding list of technical sessions, exhibits and networking opportunities for you! In order to acquaint you with the area, we have included several articles about activities you might like to participate in during your time in the area.

In keeping with our "Star Wars" type theme, I thought I would share a quote with you. "Without the Jedi, There Can Be No Balance In The Force." It is the same relationship you see between operators and the environment. "Without the Operator, There Can Be No Balance In Our Environment nor The Quality of our Drinking Water". We hope to see you in Northern Kentucky!

Sincerely, Darran Rankin, KWWOA Conference Chair

## Quick Breaks—10 Things to Do in Two Hours or Less in Northern Kentucky

### 1. Mainstrasse Village

Covington's crown jewel, Mainstrasse Village is a National Register Historic District conceived in the 1970s as a restored 19th-century German village. Blocks of well-preserved and renovated buildings are home to both adventurous urban dwellers and a charming array of shops, boutiques, restaurants and cafes. The charming, tree-lined Sixth Street Promenade includes the towering bronze Goose Girl Fountain inspired by the Brothers Grimm fairy tale — and is the time-honored location for numerous annual festivals including Maifest, Oktoberfest and Goetta Fest, a freewheeling homage to the region's ubiquitous German meat and pin oat staple. In Goebel Park, the beautiful glockenspiel Carroll Chimes Bell Tower features four illuminated clock faces and 43 bells.

### 2. John A. Roebling Suspension Bridge

While John Roebling may be best known for New York's famed Brooklyn Bridge, his groundbreaking design for this stately signature spanning the Ohio River was completed nearly 30 years earlier. Though its completion was delayed by the Civil War, it opened Dec. 1, 1866, as the longest suspension bridge in the world at 1,057 feet, and the first to utilize both vertical suspenders and diagonal stays fanning from either tower. Placed on the National Register of Historic Places in 1975, it remains a busy span for transportation, a distinctive pedestrian connector and a beloved subject of photographers.



### 3. Licking Riverside Historic District

Rising from the confluence of the Ohio and Licking rivers, this remarkably intact historic district encompasses blocks of sprawling, beautifully preserved estates and townhomes in the Greek Revival, Federal, Queen Anne, High Victorian, Gothic, Italianate, and French Second Empire styles. In fact, just the residences lining its four-block riverfront drive demonstrate every major evolutionary style of American architecture from 1815 to 1920. Its appealing walkability, architectural intrigue, seven lifelike bronze historical figures and stunning views of the river and Cincinnati skyline make it one of the area's most popular attractions.

## Problems.

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1,2,3-TCP



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## Quick Breaks—Continued from page 4

### 4. Newport Aquarium

While many people flock to Newport's riverfront for the views and recreation, one of the Midwest's most popular water adventures is actually indoors. The Newport Aquarium at Newport on the Levee — named a top U.S. aquarium by the Travel Channel — features 70 exhibits and 14 galleries swarming with thousands of exotic fish, fearsome sharks, adorable penguins, rare turtles, reptiles, amphibians and more — from all over the world — in a million gallons of water. Stroll seamless acrylic tunnels surrounded by aquatic life — and, if you dare, step across the world's first and only Shark Bridge, suspended just inches above a 385,000-gallon open water tank — and over two dozen sharks, shark rays and stingrays!

### 5. Cathedral Basilica of the Assumption

Named one of "The Most Beautiful Churches in the World" by the *Catholic Reporter*, the Cathedral Basilica of the Assumption is an ornate Gothic Revival achievement that draws attention and visitors from all over the world. Planned and built over a 30-year span, it is 13th century French-Gothic style, with an interior modeled after the Abbey Church of St. Denis and a facade designed to mirror Notre Dame de Paris.

Among its interior appointments are 82 hand-poured stained glass windows, including one of the largest in the world, and two massive rose windows, each 26 feet in diameter, modeled after those in Notre Dame Cathedral. Visitors will also find three pipe organs, murals by Covington native Frank Duveneck, and its signature Stations of the Cross, each an immense mosaic masterpiece containing more than 70,000 pieces of Italian tile. Outside, 26 sensational gargoyles, each hand-carved in Italy, ring the exterior and watch over the grounds.

### 6. Smale Riverfront Park

Arguably America's newest and most remarkable urban "front lawn," this \$120 million park spans 45 acres of scenic riverfront connecting Cincinnati — and the entire region — back to its historic beginnings. The perfect destination for a peaceful stroll, its dizzying array of features and interactive attractions includes gardens and great lawns, playgrounds and water features, bike paths and walkways — even family-sized porch swings, a giant foot piano and a one-of-a-kind, hand-carved carousel — all nestled between the Ohio river and the soaring city skyline.

### 7. The Banks

Question: How many U.S. cities have erected a dynamic, entirely new entertainment, residential and business district bordered by two professional sports stadiums and a 45-acre riverfront park? Answer: One. The Banks is a urban mix of bars, brewpubs, restaurants, retail and museums nestled between the glittering Cincinnati skyline and the gleaming Ohio River, just a bridge away from Northern Kentucky.

### 8. Findlay Market

Erected in 1852 and in continuous operation since 1855, Findlay Market is one of the oldest surviving municipal market houses in the U.S. Listed on the National Register of Historic Places in 1972, the structure was among the first markets in the United States to use iron frame construction technology and among just a few that have survived. Today, the Market hosts over one million visitors per year, dependably abuzz with the region's most socially, economically, racially and ethnically diverse crowds. Over 150 years after its opening, Findlay remains a true regional institution, as well as a continually evolving, quintessentially unique urban shopping experience.

Located in the Over-the-Rhine historic district, Findlay Market is home to dozens of indoor merchants selling meat, fish, poultry, cheese, produce, flowers, and ethnic foods — and surrounded by a wildly eclectic array of shops, delis and restaurants housed in restored 19th century buildings.

### 9. Over-the-Rhine

Quite simply, there is no place in the U.S. that compares to Over-the-Rhine, the two-square-mile historic district just a few blocks north of Cincinnati's central business district. While its architectural significance has been likened to New Orleans' famed French Quarter, OTR (as it's known to locals) is pure Cincinnati, both its oldest neighborhood and one of America's most remarkable urban turnarounds.

Home to the country's largest collection of 19th-century Italianate architecture (nearly 1,000 buildings), OTR is the largest, most intact urban historic district in the U.S., with a rich culture rooted in its legacy as port of entry for immigrants to Cincinnati. Starting in the mid-1800s, thousands of Germans settled and built this burgeoning neighborhood, separated by a canal from the northern fringe of the city. Reminded of the Rhine River in their native homeland, they nicknamed the canal "The Rhine" — and the rapidly growing village beyond it became "Over-the-Rhine. Here you'll find blocks of dining, drinking and entertainment options — from casual cafés and eclectic bistros to innovative gastropubs, upscale cuisine and everything in between.

### 10. Touring on Cincy Red Bikes

Most visitors are surprised to discover how compact and convenient it is to get around Northern Kentucky and downtown Cincinnati, especially given they're in two states separated by one of America's grand rivers. That's just one of the beauties that makes Cincy Red Bike — a public bicycle sharing system with 50 stations and 385 bikes — an ideal way to tour either or both sides of the river.

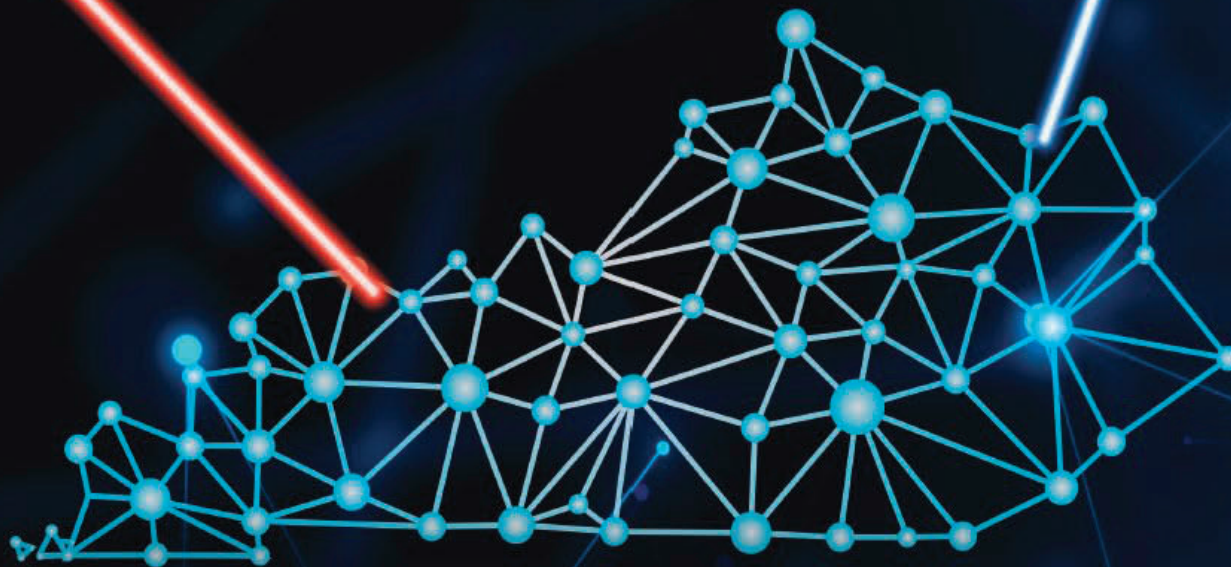
The system opened to the public in September 2014 with 30 stations, but its immediate popularity quickly demanded expansion to 50 stations, including 11 in Northern Kentucky. Simply locate a station, purchase a pass, grab a bike and off you go.

# KWVOA

## FORCE OF THE FUTURE

61<sup>ST</sup> ANNUAL CONFERENCE

ATTENDEE REGISTRATION PACKET



**APRIL 8 - 12, 2018**

**NORTHERN KENTUCKY CONVENTION CENTER  
ONE WEST RIVERCENTER BLVD, COVINGTON, KY**

## 61st ANNUAL KWWOA CONFERENCE

### WHO SHOULD ATTEND ?

- Drinking Water and Wastewater (Municipal and Industrial) System Operators requiring up-to-date information for system operations and/or continuing education training hours for license renewal. The Conference will offer 70+ technical 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 Tuesday, April 10th.
- Lab Analyst who wish to take KWWOA's Voluntary Lab Analyst training and certification exam.
- Engineers who must obtain continuing education for license renewal.
- Water District Commissioners who require training based on the Public Service Commission's rules.

Attendees may earn up to six hours of training each day, for a total of 18 hours. All technical presentations will be submitted for approval to the certifying authorities in Kentucky, Indiana and Ohio, the Division of Water's Lab Certification Program and the Public Service Commission for use as continuing education. Once approved by the appropriate regulatory authority a notice will be posted on the KWWOA website.

### HOW DO I REGISTER?

Attendees may complete the registration form and mail it or register online at [www.kwwoa.org](http://www.kwwoa.org). One check may be submitted for multiple registrations. If registering online, you have the option of paying by check, or credit or debit card through PayPal for multiple registrants. You do not have to have a PayPal account to pay online. No refunds will be granted for registrations cancelled after March 9, 2018.

Attendees who wish to apply and test for KWWOA's Voluntary Lab Analyst Certification may register as referenced above. You will also have to submit a certification application that may be found at [www.kwwoa.org](http://www.kwwoa.org) on the "KLA" tab and you will be notified of your acceptance into the review/exam session prior to the date of the class. The registration and application must be submitted by March 16, 2018.

### WHAT IS INCLUDED IN THE CONFERENCE REGISTRATION FEE?

- Six hours of continuing education training each day
- Access to 100+ vendors within the Exhibit Hall
- Monday night social event—New Riff Distillery
- Ability to network with speakers, exhibitors & peers.
- Two-day Southbank Shuttle pass (set route through Covington, Newport & Cincinnati)
- Two meals (Monday breakfast & Tuesday lunch)
- Submittal of training hours earned to the appropriate regulatory authority.
- If not a member, a 2018 KWWOA Membership, providing access to KWWOA training events throughout the year, most of which are free.

### LODGING RESERVATIONS

The Conference is being held at the Northern Kentucky Convention Center, Covington, Kentucky. The host hotels, Marriott RiverCenter and the Embassy Suites RiverCenter are located across the street from the Convention Center and have provided a discounted room rate. The room rate is \$139 plus tax, per night for each hotel through March 24, 2018. The room rate includes self-parking, internet access and a check-in time of 4:00 p.m. For those staying at the Embassy Suites, breakfast is included in the rate. An online reservation's link, as well as other details, may be found on the "State Conference" page on the KWWOA website ([www.kwwoa.org](http://www.kwwoa.org)). Reservations may also be made by calling 877-465-9282, Monday thru Friday, 9—4:00 p.m. EST (reference the KWWOA Conference).

Marriott RiverCenter  
10 West RiverCenter Blvd.  
Covington, Kentucky

Embassy Suites RiverCenter  
10 East RiverCenter Blvd.  
Covington, KY

## Tentative Conference Agenda

(Final Times May Vary Slightly)

### Sunday, April 8, 2018

4:00 PM – 6:00 PM      Registration Open

### Monday, April 9, 2018

6:30 AM – 5:45 PM      Registration Open  
 7:00 – 8:30 AM      Opening Breakfast, KWWOA Meeting  
                                  & Awards Ceremony  
 8:50 – 9:50 AM      Keynote Address/Technical Session 1  
 9:00 AM – 12:00PM      Vendor Set-up  
 9:55 AM – 12:00 PM      Technical Sessions 2 & 3  
 12:00 – 1:30 PM      Lunch On Your Own  
 1:00 PM – 5:45 PM      Exhibit Hall Open  
 1:30 – 2:30 PM      Technical Session 4  
 2:30 PM - 3:30 PM      Ice Cream Social-Exhibit Hall  
 3:30 PM - 5:35 PM      Technical Sessions 5 & 6  
 8:00 PM                  New Riff Distillery—Tours, Music, Cornhole & Food

### Tuesday, April 10, 2018

7:00 AM – 4:30 PM      Registration Open  
 8:00 AM – 4:30 PM      Exhibit Hall Open  
 8:00 AM – 12:15 PM      Technical Sessions 1–4  
 11:00 AM                  Wastewater Certification Board Meeting  
 12:15 - 2:00 PM      Lunch in the Exhibit Hall  
 2:00 – 4:05 PM      Technical Sessions 5 & 6  
 2:00 PM                  Drinking Water Certification Board Meeting

### Wednesday, April 11, 2018

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 & Drinking Water Plant Tour  
 11:40 AM – 1:00 PM      Lunch on Your Own  
 1:00 PM – 4:10 PM      Technical Sessions 4–6 & Wastewater Plant Tours

### Thursday, April 12, 2018

8:00 AM                  KWWOA Voluntary Lab Analyst Certification Exam

## 61st ANNUAL KWWOA CONFERENCE

### REGISTRATION FORM

Northern Kentucky Convention Center

April 8–12, 2018

(Please Print Clearly)

Name: \_\_\_\_\_ AI No: \_\_\_\_\_

Home Address/Street: \_\_\_\_\_

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

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

Work Address/Street: \_\_\_\_\_

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

Home Phone: \_\_\_\_\_ Work Phone: \_\_\_\_\_

County: \_\_\_\_\_ Email Address (Home or Business): \_\_\_\_\_

Are You A 2018 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, all Social Events and a 2-day Southbank Shuttle Pass.

#### Pre-Registration (Postmarked by February 28, 2018)

- \$180—2018 Operator and/or KLA Member
- \$220—Non-Member Operator Registration
- \$300—Non-Member Associate Registration  
(Non-member registrations include a 2018 KWWOA Membership)
- \$10—KLA Membership Fee
- \$75—KLA Certification Exam Fee\*

#### Registration (Postmarked March 1, 2018 or after)

- \$230—2018 Operator and/or KLA Member
- \$270—Non-Member Operator Registration
- \$350—Non-Member Associate Registration  
(Non-member registrations include a 2018 KWWOA Membership)
- \$10—KLA Membership Fee
- \$75—KLA Certification Exam Fee\*

Yes, I plan to attend the New Riff Distillery Social Event on April 9, 2018 (included in the registration fee).

Submit the Registration Form(s) and the appropriate payment, made out to KWWOA, to the following address.  
Multiple registrations may be paid for with one check:

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

No Refunds issued after March 9, 2018.

FOR INFORMATION, contact Lisa Detherage at (502) 352-0510 or via email at [Lisa@kwwoa.org](mailto:Lisa@kwwoa.org)

\*KLA applicants—do not forget to submit the Certification application found at [www.kwwoa.org](http://www.kwwoa.org) on the "KLA" tab by March 16, 2018.

## Bourbon—It's in our blood!

Booker's. Bulleit. Blanton's. Four Roses. And, of course, Pappy.

When it comes to bourbon – and in Kentucky, it *always* comes to bourbon, the debate never ends. Because today's bourbon business is booming like never before, and 95 percent of it is made right here in Kentucky. In fact, there are now more than 20 (and growing) working distilleries in Kentucky, lovingly aging over 200 brands.

Every enthusiast has a favorite, or four, and from the grand old bluebloods to the newest craft distillers, you can literally spend a lifetime tasting them all. That's exactly why The Kentucky Bourbon Trail, created by the Kentucky Distillers Association in 1999, has become so phenomenally popular – a holy grail for aficionados and named by CNN as one of “10 Classic American Experiences”. Northern Kentucky is proud to be home to its northern “trailhead,” [New Riff Distilling](#), the newest member of the Kentucky Bourbon Trail Craft Tour®. Indeed, it seems the rest of America – and visitors from all over the world – are eagerly catching on to what Kentuckians have known all along.



### New Riff: the northern terminus

Its name is no accident, as the owners of New Riff Distillery set out to bring a new twist to Kentucky's historic bourbon heritage. From its strikingly modern design to its solidly urban location – with exceptional views of the Cincinnati skyline – New Riff blends old-world craftsmanship with a decidedly next-gen aesthetic. Its 60-foot-tall, 24-inch-diameter column still, made by Vendome Copper & Brass Works of Louisville, can produce about a dozen 53-gallon barrels per day, or about 2,000 a year, but that's plenty to please even its most ardent admirers. Designed with tours and tourists in mind, New Riff offers visitors a chance to see the distilling process firsthand. Tours begin outside, where visitors can take in the full height of the huge copper still, gleaming in its glass-encased tower, and end in the tasting room with samples of their newest take on “America's Original Native Spirit”.

KWOWA is excited as well to be hosting their Monday, April 9th, Social Event at this premier location during the Conference, offering distillery tours, music, corn hole and food. Come see this beautiful and interesting facility and have a relaxed and great time as well.



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## Scottsville's Chlorine Dioxide Chemical Trial

Justin Spears

The past few years, Disinfection By-Products (DBPs) have been one of the more dominating topics in the water industry. It seems that for many plants using conventional treatment, it's been an uphill climb trying to stay in compliance with Stage II DBP testing. Like many plants, we at Scottsville were looking for answers, and only finding more questions. At the time, there was a lot of talk about things that could be done in the distribution system to help lower these numbers. We brought in a few people to give us a quote on adding a mixer to our storage tank, refitting the tanks to have separate inlet and outlets, etc.

I was finally advised by one of the engineers at GRW to do a complete DBP profile study, testing from the source water, through the treatment process, and continuing on into the distribution system. This turned out to be some really good advice, because the problem wasn't where I thought it was. What we found through our testing was that most of our DBP's were forming in the clearwell of our water plant. In fact we were only seeing an approximate increase of 20% in our DBP numbers from the clearwell to our compliance testing locations in the system. So our problem was at the treatment plant.

Our focus had to shift from fixing a problem in our distribution system, to preventing a problem from occurring at the treatment plant, which was the more preferable option in my opinion. We began looking at our options, which mainly centered on alternative disinfection technologies. Many of the options out there claim to be the cure for the problem, but they each had their own disadvantages. We specifically were trying to find an option that didn't add a significant cost increase to our budget, and allow us to avoid building or expanding to accommodate the new treatment.

We met Randy Bush, who works with Thornton, Musso & Bellemin, Inc. (TMB), at a conference in Louisville. One of TMB's specialties is Chlorine Dioxide, which we were interested in. After several conversations we decided to give TMB a try and see if chlorine dioxide was the answer we were looking for. TMB has been great to work with, and their service for us has been second to none. They assured us from the beginning that they would oversee this chemical trial and help us figure out how to make it work best with our water and plant.

The preparation and setup was no problem and TMB orchestrated and handled everything. The chlorine dioxide is made on sight by mixing chlorine gas, which we had already in place, with sodium chlorite. In fact, the only addition we had to make at our plant was a storage tank to hold the sodium chlorite, and TMB provided that tank for us. The pump that is used for the sodium chlorite was also provided by TMB and it is calibrated and maintained by our local TMB rep, Rory Bush, on a weekly basis even to this day.

All source water is different and every plant is set up differently, so implementing a new chemical is always challenging. Thankfully, TMB was able to get us up and running on the chlorine dioxide without too much difficulty. We have learned more about our water through this process, mainly from all the testing that was done by our local TMB rep. He was here testing several times per week for months, many things we had never checked ourselves. We took it slow in the beginning, but had fully implemented chlorine dioxide into our treatment process in about 6 months. I will say that we saw very immediate results in our DBP numbers; no long months of waiting required once we had the system running optimally.

Our main goal was to lower the DBP numbers in our clear well, which we knew would also lower them out in the system, and after four quarters of testing I can say that we have achieved that goal. What is amazing is that it didn't take a year to start working. Each quarter of testing showed a significant decrease in DBP's compared to the same quarter the previous year. As you can see in the charts below, we saw immediate results and they have continued during all four quarters of testing. We began our chlorine dioxide trial in the fall of 2015, so

fourth quarter of 2015 was the first results we have that reflect chlorine dioxide in our treatment process.

As you can see these are not insignificant results, but dynamic reductions to our DBP's. We have benefited from every aspect of this chemical trial, and are currently working to make this a permanent part of our treatment process. We are still learning about chlorine dioxide and continue to fine tune the treatment, which changes as our water chemistry changes throughout the year, but our rep Rory still comes to our plant weekly to do testing and help us keep things optimal. As this isn't meant to be a technical paper, many specific details have not been included, but I would be more than happy to provide more detail or answer any questions that you may have. I, Justin Spears, can be reached at: [h2oplant@nctc.com](mailto:h2oplant@nctc.com) or 270-237-0874.

2015/2016	Clearwell Results	
Quarter	HAA's	TTHM's
4 2015	0.016	0.0259
1 2016	0.009	0.0123
2 2016	0.0301	0.0384
3 2016	0.0582	0.0754

2016/2017	Clearwell Results			
Quarter	HAA's	Reduction from previous year	TTHM's	Reduction from previous year
4 2016	0.0115	-28%	0.0084	-67%
1 2017	0.0078	-13%	0.0055	-55%
2 2017	0.0157	-48%	0.0145	-61%
3 2017	0.0174	-70%	0.0233	-69%

## HJR 56 - What is the implication for Package Wastewater Plants?

During the 2017 Kentucky General Assembly, House Joint Resolution (HJR) 56 was passed and went into effect March 27, 2017 directing the Kentucky Division of Water to conduct a study identifying privately owned and operated, small wastewater treatment plants in the state, as well as provide certain data relating to the plants, to devise a practical emergency intervention method to respond to plant failures, and to suggest any legislative changes necessary to prevent failures or abandonment of these plants and ensure continuity of service to the plants' customers. The concern being that many privately owned and operated wastewater package plants were not being properly funded and/or maintained and in jeopardy of failure due to these factors and/or that they have aged beyond their useful life. This report was to be submitted to the legislature prior to December 1, 2017, so that any recommendations could be considered prior to the 2018 Regular Session of the General Assembly.

As a part of the HJR 56, the DOW was asked to consult a multitude of organizations, including the Kentucky Water & Wastewater Operators Association (KWWOA), who could provide insight on how best to address the issues identified above. KWWOA solicited our members and Tom Sanders, City of Elizabethtown, agreed to represent KWWOA on this DOW Committee.

The HJR 56 specifically tasked the group with:

- identifying privately owned and operated small package treatment plants and collect relevant information regarding the plant and collection system attributes;
- Identifying indicators that are useful and necessary in conducting an assessment of the risks and financial failure, technical failure, structural failure or abandonment of these type systems;
- Identifying potential emergency intervention methods to respond to plant failures in a collaborative manner between state and local entities; and
- Identifying legislative changes that may assist to mitigate the failure or abandonment of these plants or to otherwise provide for continuity of service to its customers.

This review was completed and a report presented to the Interim Joint Committee on Natural Resources and Interim Joint Committee on Local Government for consideration.

Outlined below are some of the more salient points addressed within this report:

- There are approximately 180 privately owned wastewater treatment plants in the state. Of these, 94 are located within 1.0 mile of a regional wastewater treatment facility. Of these, the Public Service Commission only regulates 36 of these.
- When assessing the potential for failure, the group identified the following risk factors that can come into play and whether they are valid:

### Financial

- Sewer-use rates
- Lack of recapitalization
- Median household income of customers served by the facility
- Number of customers/households served
- Operating costs

### Structural Indicators

- Age
- Maintenance
- Construction material
- Installation method

### Technical

- Number and classification of certified operators
- Operator classification appropriateness for the system size
- Frequency of visits by the operator
- Number of overflows/bypasses within a given period
- Design flow
- Sludge disposal records for the facility
- Complaints lodged against the facility within a given period

### Abandonment Indicators

- Ownership type
- Regulated by PSC
- Small system not regulated by PSC
- Enforcement history
- System within one mile of a regional facility
- Systems not near a regional facility
- Costs

- Emergency and Intervention Failures - What statutory or regulatory authority exists for the state to address and/or mitigate a system failure and are these sufficient.
- Legislative actions necessary to held the Commonwealth prevent and/or address system failures:
  - Provide the Cabinet with authority to require small systems to implement financial measures designed to prevent failure.
  - Create or enhance existing funding to facilitate regionalization, consolidation
  - Funding to facilitate the continued operation of the facility
  - Funding to facilitate replacement of the facility if regionalization is not an option.

The full report has been posted to KWWOA's website under the "Resources, Useful Links" tabs. Outside of the Commonwealth's regulatory purview, time will tell if the legislature will give the regulatory community additional resources to deal with these potential health hazards.

## Tom Sanders—Perspective on the HJR 56 Process

For the past 20 years, I have helped operate three small package treatment plants. In May 2017, I was asked to represent the KWWOA on the House Joint Resolution 56 committee for small package plants. I was enthusiastic about being part of the discussion on any proposed regulations. From the first meeting, I realized the major concern was the potential abandonment of residential package plants serving subdivisions and/or trailer parks. Non-residential plants serving businesses or schools were excluded from the list for discussion. During the course of the monthly meetings, we collectively agreed on the final proposal which was presented to two legislative subcommittees. If you read the proposal, you will find that most of the recommendations are for new package plants. The thought was that more regulation on current plants that are already struggling, would increase the potential for abandonment.

Abandonment of a package treatment plant usually occurs when the plant's operating and maintenance costs exceed the system's revenue. Other reasons for abandonment include owner/operator death or retirement with no provisions for operator replacement. The Kentucky Division of Water (DOW) requires that package plants be operated by a "properly certified" operator. In the past, there has been little enforcement of this regulation. Improperly maintained equipment and structures or lack of any maintenance could lead to plant or structural failures over time. The committee felt possible plant failures could be lessened if the DOW made a requirement that daily visits must be made by a certified operator with the correct classification and sludge disposal records maintained and routinely reviewed by the DOW. If problems are corrected as they are found, the plant would last much longer. Think of a treatment plant as a car. If you do the regular maintenance and small repairs, it will be dependable for years.

The committee also expressed that DOW should be more aggressively inspecting small treatment plants. During our meetings, we learned that most bypasses and violations come from small treatment plants. Some of the plants we reviewed had hundreds of violations in a three (3) year span. I do not know of a single case where a larger municipality could get by with a fraction of those violations without enforcement. Since most package plants lack proper funding enforcement is rarely issued.

It was a pleasure to participate in this discussion and meet people from other associations and affiliations who wanted to help anticipate and remediate failing package treatment plants. Most of the proposed ideas may not be implemented due to the lack of funding. Some of the proposals are already in statute and the DOW said they would be more proactive about inspecting and enforcement going forward. This discussion was needed and hopefully it will continue so that the basic amenity of sewer that separates us from a third world country goes uninterrupted.

## Economic Benefits of Investing in Water Infrastructure—Fact Sheet

The Value of Water Campaign commissioned a new report, "The Economics of Investing in Water Infrastructure" to assess how investments in the nation's water infrastructure can affect economic growth and employment. This fact sheet outlines the key findings of the study, that may prove beneficial as you talk with your community or its leaders. The full report can be found at [www.thevalueofwater.org/resources](http://www.thevalueofwater.org/resources).

- The US is funding just one-third of its water infrastructure needs.**— Most water and wastewater system in the US are well beyond their useful life. The US needs to invest a total of \$123 billion per year in water infrastructure over the next 10 years to bring systems to a state of good repair. Our national water infrastructure investment gap is \$82 billion per year. While federal contributions to transportation infrastructure have stayed constant at approximately 1/2 of total capital spending, federal investment in water infrastructure has declined from 63% to 9% since 1977.
- Closing the water infrastructure investment gap creates jobs and strengthens the economy.** - By closing the annual investment gap in water infrastructure, we can generate over \$220 billion in economic activity (direct, indirect & induced), exceeding the gross product generated in 26 states, as well as \$1.5 million American jobs, more than the employed workforce of 26 states.
- Water service disruptions are more than an inconvenience to American employees and business; they are costly.** — At a national level, a one-day disruption in water services would result in \$43.5 billion daily sales loss to businesses and \$22.5 billion loss in gross domestic product. For every day water service is disrupted, the average US business loses \$230 in sales per employee. In industries most reliant on water, sales drop by up to 75 percent, or up to \$5,800 per employee.
- Keeping water infrastructure in a state of good repair is essential to business productivity.** —If the water infrastructure gap is not addressed, industries are projected to experience higher costs in the form of higher water rates, cost of self-supply, or costs of relocating to better-served areas. Closing the water investment gap saves businesses \$94 billion in annual sales & 505,000 jobs over 10 years.
- Now is the time to invest.** — Reliable water infrastructure is fundamental to our nation's economic health and competitiveness. Meeting the investment need will require collaboration across public and private sectors, including strong partners at the local, state, and federal level.

## CKWWOA Cheer Continued

Continued from Page 3

The Chapter had several nominees, but the wastewater award was ultimately given to Ronnie Poynter, Glasgow Water Company. Ronnie retired with 37 years of experience and is now back working part-time for the Glasgow Water Company WWTP.



### Bob Bickner Has Left the Farm— Landfarm that Is!

Bob Bickner, Supervisor with the Division of Waste Management will end his 27 year career with the Cabinet on December 31, 2017. Most of you will likely know Bob since he began with the Solid Waste Branch in 1991 where he was involved in the permitting of land application (landfarming), composting, waste tires, transfer stations, medical waste, coal ash, and demolition debris facilities. He has been supervisor of the Registered Permit by Rule & Special Waste Section since 1999. However, Bob will most likely be associated with the "landfarming" program.

Bob has been instrumental in supporting the recycling of products ranging from biosolids, water treatment solids, and food processing solids via land application and composting since he began with the Solid Waste Branch. Bob's background in soils and his knowledge and interest in agriculture have allowed him to become a great resource for those he regulated. His long tenure with the Division helped him acquire a vast knowledge of the state and federal regulations which helped him to be a great resource to everyone he worked with.

Bob's experience and support of the land application program will be greatly missed by everyone who has any involvement in this area. Furthermore, his calm demeanor and service mentality will be equally missed and very hard to replace. We wish Bob a happy retirement and thank him for his service to our industry.

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## Groundhog Day!!!

In the movie, Groundhog Day, a Pittsburg weatherman, Bill Murray, is reluctantly sent to cover a story about a weather forecasting "rat" (as he calls it). This is his fourth year on the story, and he makes no effort to hide his disdain for having to cover the story again. On awaking the 'following' day he discovers that it's Groundhog Day again, and again, and again. First he uses this to his advantage, then comes the realization that he is doomed to spend the rest of eternity in the same place, doing the same thing EVERY day until he strives to get it right. Those of us on the KWWOA Technical Committee are beginning to think we are Bill Murray in Groundhog Day, as we work on our fourth website upgrade (the "rat") since 2011. This time, however, we hope, like Bill Murray, that we got it right and this will be our last website upgrade for awhile!

The first major change we made is to move to a new platform, WordPress, that is backward compatible. What that means is that we won't have to redo the site each time WordPress is upgraded. Secondly, we have moved to a company that we hope will be a bit more attentive when it comes to customer service. What exactly though does this mean for you? Well, we hope not much. We hope that once you log into the website, that you find the new site to works much like the old one, but more efficiently.

With the change to a new website platform, we had to have all our users reset their passwords. You should have received an email in December to facilitate this. If you did not change your login password this way, you can try and login in and reset it that way. If you have trouble, you can email [info@kwwoa.org](mailto:info@kwwoa.org) and give me the exact password you want and I will enter it for you.

Once logged in, you will notice is that we are doing away with the use of "KWW" numbers for people who are not certified. They basically had no function on the website, so we got rid of them. If you have been newly certified since you created your KWWOA user account, be sure and add your Agency Interest Number to your account, as we use it for the entry of training hours.

Secondly, you will note that we have added drinking water and wastewater certificate fields to the operator and associate user accounts. We did this as we hope in the future to be able to scan a card to document the training you attend, versus using stamp sheets, and then upload this data to the state versus having to type it in. We are a ways from doing this, but wanted to go ahead and prepare for this possibility during the website upgrade. If you had an Agency Interest Number on your account and/or we were able to locate one and add it for you, we uploaded your certificate numbers to your account. If not, you will need to add this information to your account. We do ask that you check this information on your account to make sure it is correct. If not, you may alter and save the data when logged into your account.

We have also included a new form on the website that allows our operators and associate members to identify that they would like to make a presentation at the Annual Conference and/or one of our regional training events. If you are interested in making a presentation during a 2018 KWWOA training event, please complete the "KWWOA Presentation Form" which can be found on the "State Conference" tab. Please do this immediately, if interested in speaking at the 61st Annual KWWOA Conference.

I would like to take this time to thank Alan Todd, Madisonville Wastewater Treatment Plant, and Forrest Pollock, Hardin County Water District No. 2, for continuing to serve on the KWWOA Technical Committee. They were diligent in their efforts to help us locate a new website designer and with the upgrade. As volunteers, we appreciate their assistance and many trips to Louisville to meet on the website programming. We cannot effectively serve our members without diligent volunteers like Alan and Forrest, who share their expertise and time on projects like this! Thank goodness for their help and hopefully we won't have to "cover" this rat again in 2018!!!

## Someone is masquerading as me and it isn't even Halloween!!!

Over the past few months, you may have received an email from Lisa Detherage with an invoice link in it. Many of you have noticed that while my name is referenced, it doesn't include either of the KWWOA emails addresses ([info@kwwoa.org](mailto:info@kwwoa.org) or [Lisa@kwwoa.org](mailto:Lisa@kwwoa.org)) that we use for correspondence. This is because someone is using my name (what is called phishing in the internet world), but attached it to their email address. We have tracked two of these emails down and one was from Texas and another from Australia. Their sole purpose to cause havoc with your own computer and/or try and get you to pay for an invoice you think is outstanding. Unfortunately, we are all seeing this go on with many companies as we use the internet more and more.

My point in sharing this with you, is to let you know that we are working our best to try and stop this activity as it comes to our attention. We also have checked the KWWOA computer and these emails are not the result of any type of virus on our part. We did, however, want to alert you never to open an email from me without first checking to see if it also includes one of the emails referenced above. We do not send out invoices unless you have just placed an order on our website and/or we have talked and you have requested such. Otherwise, just delete the email and certainly do not open any links within that email.

While we taken several steps to try and stop this activity, we cannot stop someone from using my name on their email address, other than to report them. We can only caution you to closely check the email address next to my name, particularly if you have not made a purchase from us recently. Hopefully, if these solicitors are not successful in using my name to obtain money, they will move on. If you received one of these emails, we are truly sorry for any inconvenience it might have caused and appreciate the time you took to alert us and/or the help you provided to help us track some of these people down.

## Eastern Chapter Updates

### By Katie Avera

The Eastern Chapter of KWWOA would like to thank everyone that has been involved in this year's training classes. We have seen tremendous participation in our classes from our vendors to attendees. We strive each year to provide training that our members will find beneficial. Our latest class at Morehead had over 50 participants! We are hard at work planning our programs for 2018! As a Chapter, we would love to see more of our classes taught by our operators and superintendents! If you have an idea for a class, please reach out to either Roy Gray or James Poindexter with your ideas.

- Roy Gray                                      Manchester Water Plant                                      Phone: 606-596-0296                                      Email: manchesterwtp@yahoo.com
- James Poindexter London Wastewater Treat. Plant                                      Phone: 606-309-8026                                      Email: jamespoindexter@yahoo.com

We would also like to take a moment to thank Brad Reed, with the Mt. Sterling Water & Sewer System, for serving as the Eastern Chapter's Vice President over the past several years. Unfortunately, Brad is having to step down from the board to focus on his new job responsibilities. We are excited for Brad's new career opportunity, but know we will miss him as a Chapter Officer, given his past contributions. He has been a great asset to the Eastern Chapter and we greatly appreciate all of his hard work and dedication to making the EKWVOA chapter thrive! With that change in office, James Poindexter, with London Utilities, has moved into the VP position. At the moment, he is serving as both Wastewater Representative and VP and will do so until the 2018 elections. If you would be interested in serving as the Chapter's Wastewater Representative, please feel free to contact any of the Eastern Chapter officers (found on page 17) for details on what the position entails.

### North Central Chapter's "Thank You" Shout Out!

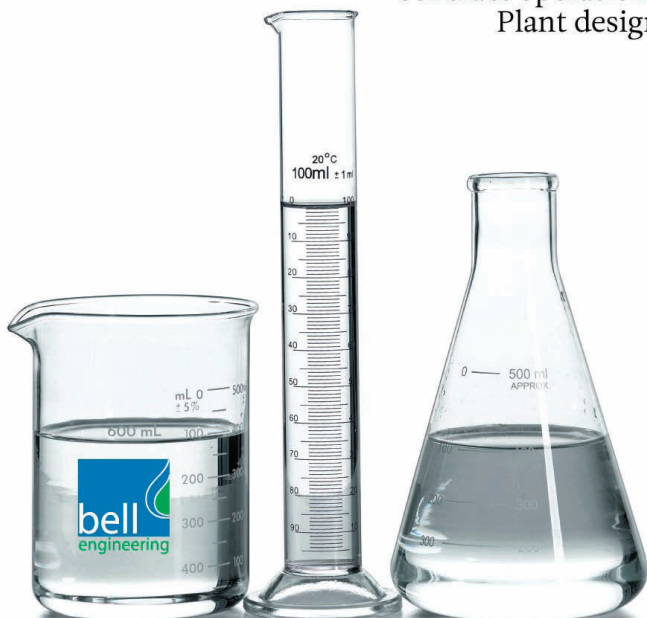
Water and Wastewater professionals across the State have been working with Stewart North for years. His knowledge of wastewater has helped systems with treatment issues and to save valuable dollars in the process. Everyone that knows him realizes what a terrific resource he is to the industry. But what you may not be aware of is how valuable his volunteer work has been to the North Central Chapter and KWWOA in general. It takes a lot of time and effort to balance career, life, and volunteer work. For this, all who know him should be truly grateful. Stewart has been a long time member of KWWOA. For the past eight years, he has been heavily involved with the North Central chapter, first as their Wastewater Representative to the State Board and ultimately becoming President of the North Central Chapter. Under Stewart's leadership the chapter has flourished as he worked diligently to improve the training programs. Golf outings and vendor sessions at training events are a couple of examples, but his overall willingness to help is what sets Stewart apart. The North Central chapter will be forever grateful for the role he has played.

We all know what a tough decision it was for Stewart to step away from a leadership role in the Chapter, but we hope to be able to continue working with and seeing you at North Central events!

Thanks again for everything Stewart!

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## KWVOA 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: Katie Avera	President	606-682-0887	kavera@eco-tech.net
James Poindexter	Vice President	606-864-7611	jamesepoindexter@yahoo.com
Tim Goble	Secretary	606-226-3554	timgoble.pcuc@gmail.com
Joe Dunaway, Jr.	Treasurer	606-748-8778	joedunaway@altiusbb.com
Roy Gray	Water Rep	606-596-0296	manchesterwtp@yahoo.com
James Poindexter	Wastewater Rep	606-864-7611	jamesepoindexter@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: Matt Piccirillo	President	859-441-0482	picciril@nkywater.org
Dave Enzweiler	Vice President	859-547-6658	adaevie@gmail.com
Nathan Hodges	Secretary/Treasurer	859-441-0482	nhodges@nkywater.org
Brian Bourne	Water Rep	502-229-2396	BBourne@fewpb.com
Matt Chancellor	Wastewater Rep	859-327-0225	mchancellor@gmwss.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: Jacob Billingsley	President	270-670-3751	jbillingsley@glasgowh2o.com
David Huffman	Vice President	270-404-4809	Huffmans@scrtc.com
Mandy Spalding	Secretary/Treasurer	270-862-4340	aspalding@hcwd.com
Jeremy Woosley	Water Rep	270-259-2917	jwoosley@graysonwater.com
Bradley Johnston	Wastewater Rep	270-422-3025	rosemaryjohnston@two.com
Justin Spears	Director of Water	270-237-0874	justin.spears@topper.wku.edu
Corey Bond	Director of Wastewater	270-737-7733	corey.bond@elizabethtownky.gov

**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: Jimmy Grimm	President	(270) 217-4108	jimmy.grimm@fortiline.com
Daniel Lancaster	Vice President	(270) 887-1680	dlancaster@hwea-ky.com
Darran Rankin	Secretary/Treasurer	(270) 444-5581	drankin@pwwky.com
Leslie Rogers	Water Rep	(270) 887-4232	lrogers@hwea-ky.com
Alan Todd	Wastewater Rep	(270) 824-2170	atodd@madisonvillegov.com

## KWWOA 2018 TRAINING & EVENT SCHEDULE

Chapter	Date	Training Cost*	Location of Training	Type of Training**	Hours**
North Central	Jan. 10 & 11	Free—KWWOA Members \$100.00—Non-Members	Berea Folk Center Berea, KY	General & Drinking Water (WW is on January 11th)	6 WW 12 DW
Central	January 25	Free—KWWOA Members \$75.00—Non-Members	Hardin County Water Dist. No. 2 Elizabethtown, KY	Pump & Motor Controls	6 DW & WW
Central	February 15	\$100—KWWOA Members \$150—Non-Members	Pirtle Springs Water Treat. Plant Cecilia, KY	Motor Controls Workshop (Multi-meter given to all attendees)	6 DW & WW
Statewide	April 8–12	\$180—KWWOA Members \$220—Operator Non-Members \$300—Assoc. Non-Members \$75 + Conf. Fee —KLA Exam	Northern KY Convention Center Covington, KY	Annual Conference & KLA Cert. Review & Exam***	18
Central	May 3	Free —KWWOA Members \$75—Non-Members	Ronald H Hudson Fire Station No. 1 Leitchfield, KY	Confined Space	6 DW & WW
Western	May 8 & 9	Free—KWWOA Members \$100.00—Non-Members	KY Dam Village State Resort Park Gilbertsville, KY	Water and Wastewater	12
Eastern	May 17 & 18	Free—KWWOA Members \$100.00—Non-Members	London Wastewater Plant London, KY	Water and Wastewater	12
Central	May 24	Free—KWWOA Members \$50.00—WW Class Nonmembers \$75.00— DW Class Non-Members	Hardin County Water Dist. No. 2 Elizabethtown, KY	Trenching & Shoring	3 WW & 6 DW
North Central	June 6	Free—KWWOA Members \$75.00—Non-Members	VFW Frankfort, KY	Water and Wastewater	6 DW & WW
Eastern	June 20	Free—KWWOA Members \$75.00—Non-Members	Mountain Arts Center Prestonsburg, KY	Water and Wastewater	6
Central	Sept. 24-25	Free—KWWOA Members \$100.00—Non-Members	Rough River State Resort Park Falls of the Rough, KY	Water and Wastewater	12
Western	October 18	Free—KWWOA Members \$75.00—Non-Members	Murray Sate Uni. Regional Campus Hopkinsville, KY	Water & Wastewater	6
Central	October 25	\$100—KWWOA Members \$150—Non-Members	Brooks Electric Brownsville, KY	Motor Controls Workshop (Multi-meter given to all attendees)	6 DW & WW
Eastern & North Central	Oct. 23–25	\$40—KWWOA Members \$125—Non-Members	4 Points by Sheraton Lexington, KY	Water and Wastewater	18
Eastern	Nov. 15	Free—KWWOA Members \$75.00—Non-Members	Morehead Utility Maint. Dept. Morehead, KY	Water and Wastewater	6

\*Pricing may reflect an "early bird registration price.

\*\*KWWOA will solicit the KY Division of Compliance Assistance & the Boards of Certification for approval of the hours and type of training referenced prior to the class. Once the class is approved, a notice will be posted on the KWWOA website for that particular class. If you need these hours for renewal purposes and/or the specific topic referenced, you should inquire ahead of time as to whether approval has been received.

\*\*\*Must be prequalified for this exam.



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### 2018 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](http://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](http://www.kwwoa.org).**

**Active Membership**  - By February 28, 2018.....\$40.00  - Postmarked March 1, 2018 & after ..... 60.00

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](http://www.kwwoa.org).

KWWOA  
P.O. Box 700  
Lawrenceburg, KY 40342

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

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KWVOA  
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Lawrenceburg, KY 40342



MUNICIPAL	INDUSTRIAL
<ul style="list-style-type: none"> <li>Pretreatment Program Administration</li> <li>Wastewater Ordinance Development</li> <li>KPDES Permitting</li> <li>Sampling &amp; Analysis</li> <li>Wastewater Operations Consulting</li> <li>DMR Reporting</li> <li>FOG Program Development &amp; Administration</li> <li>Local Industrial Limits Evaluation</li> <li>GIS Mapping of Sewer Systems</li> <li>Landfarm Permitting &amp; Reporting</li> <li>Regulatory Assistance</li> <li>Drinking Water Operations Consulting</li> <li>Consumer Confidence Reports</li> </ul>	<ul style="list-style-type: none"> <li>Storm Water Permitting, BMPs, &amp; Monitoring</li> <li>Groundwater Protection Plans</li> <li>Groundwater Investigations &amp; Remediation Systems</li> <li>Groundwater Monitoring</li> <li>Pretreatment Sampling &amp; Analysis</li> <li>Industrial Pretreatment Compliance Consulting</li> <li>Wastewater Treatment System Consulting</li> <li>Hazardous Waste Management</li> <li>Toxic Release Inventory Reporting</li> <li>SPCC Development</li> <li>Flowmeter Installation, Monitoring, &amp; Calibration</li> <li>Environmental Studies</li> <li>Environmental Phase I &amp; II</li> </ul>
<p>PLEASE CONTACT RANDY SHELLEY OR CYNTHIA LEASOR FOR ASSISTANCE.</p>	
<p>1376 DANVILLE ROAD + LOOP 1 + NICHOLASVILLE, KY 40356 + PH: (859) 885-3331 + FAX: (859) 885-4613 + EMAIL: <a href="mailto:HALLENV@QX.NET">HALLENV@QX.NET</a></p>	