



# Kentucky Rural Water Association

Helping water and wastewater utilities help themselves

April 6, 2018

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APR 10 2018

PUBLIC SERVICE  
COMMISSION

Ms. Gwen R. Pinson, Executive Director  
Public Service Commission  
P. O. Box 615  
Frankfort, KY 40602-0615

Dear Ms. Pinson:

Kentucky Rural Water Association (KRWA) will host its Operator EXPO on Tuesday and Wednesday, May 22-23, 2018 at the Hardin County Fairgrounds in Glendale, Kentucky. The Operator EXPO is not the typical classroom training. Speakers are encouraged to offer hands-on training/demonstrations for their sessions instead of the normal PowerPoint presentations. For that reason, we do not have copies of presentations to submit with this request for approval of continuing education credit. If handouts are provided for any of the sessions, KRWA will forward the information to the Commission.

A training summary/timed agenda is enclosed that includes a description of the topics and brief bios for the speakers. Although 14.5 hours of instructional credit are offered, the maximum credit that can be earned is 10 hours. Tuesday's sessions will offer up to four (4) hours of training. On Wednesday, attendees can earn a maximum of six (6) hours of training credit. KRWA has also submitted this training to the Kentucky Board of Certification of Water Treatment & Distribution System Operators. A copy of the application is included (we have received verbal notice that the sessions were approved, but written confirmation has not been forwarded to us).

With this letter and enclosures, Kentucky Rural Water Association respectfully requests that this training be approved for up to ten (10) hours of continuing education credit for water district commissioners as referenced in regulation 807 KAR 5:070. If additional information is needed, please do not hesitate to contact our office.

Sincerely,

Janet Cole  
Education Coordinator  
j.cole@krwa.org

Enclosures  
(Original and 10 copies)

<p><b>Mail to:</b></p> <p>Division of Compliance Assistance  Certification and Licensing Branch  Operator Certification Program  300 Fair Oaks Lane  Frankfort, KY 40601</p>	<p>Commonwealth of Kentucky  Department for Environmental Protection</p> <p><b>Application for Approval of Courses for  Continuing Education Credit</b></p> <p><i>Drinking Water Treatment, Drinking Water Distribution,  Bottled Water,  Wastewater Treatment and Collection System</i></p> <p>Telephone: 1-800-926-8111  www.dca.ky.gov/certification</p>	<p><i>For Official Use Only  Do not write in this space</i></p> <p><b>COPY</b></p>
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I. **Course Sponsor Information:** Agency Interest Number: 108571

A. Sponsoring Organization (school, business, association, etc.):

Kentucky Rural Water Association

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Key Contact Person:

APR 10 2018

Name and Title: Janet Cole, Education Coordinator

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Address: 1151 Old Porter Pike

City, State and Zip: Bowling Green, KY 42103

Phone and Fax: Ph: 270.843.2291 Fx: 270.796.8623

E-mail: j.cole@krwa.org

Web Page: www.krwa.org

One-Time Approval Requested

Two-Year Approval Requested

B. If individual requesting approval is different than the key contact person for the sponsor, please complete the following information:

Name and Title: \_\_\_\_\_

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

City, State and Zip: \_\_\_\_\_

Phone and Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_

II. **General Course Information:**

A. Title: 2018 Operator EXPO

B. Location and Date/s: Hardin Co. Fairgrounds, Glendale, KY May 22-23, 2018

C. Cost per Student or Group: \$ 50.00

D. Delivery Format or Media (check those that apply):

Classroom

Web/Online

Laboratory

Exhibition

Field

CD-ROM

Video/Audio

Correspondence

Other (Explain)  
Hands-on  
demonstrations

E. Continuing Education Credits (**hours**) Requested for Target Audience:

Drinking Water Treatment, Distribution and/or Bottled Water: 14.5 hrs. (Maximum 10)

Wastewater Treatment and/or Collection: 14 hrs. (Maximum 10)

**(Attach a detailed description explaining how this training relates to the wastewater treatment process.)**

**III. Required Items** (must be attached to submittal, check off as completed):

- A.  Course Learning Objectives
- B.  Criteria for Successful Completion by Operators
- C.  Agenda (timed with instructors identified and brief description of topics)
- D.  Credentials for All Instructors

**IV. Additional Attachments** (required for distance learning courses, optional for other training):

- A.  Instructional Design (developed by whom/their credentials)
- B.  Curriculum Content (subject matter experts/their credentials)
- C.  Required Assignments and/or Examinations (type, passing score, etc.)
- D.  Mandatory Time Constraints (deadlines, granting of extensions, etc.)

**V. Signature of Sponsor's Contact Person**

I confirm that all information provided with this application is accurate to the best of my knowledge. A complete list of attendees and credits to be awarded to them will be forwarded on a "Continuing Education Activity Report" to the Kentucky Division of Compliance Assistance (within 30 days of completing the course when possible).

Printed Name and Title: **Janet Cole, Education Coordinator**

Signature and Date: 

**March 5, 2018**

**Training Sponsor:** Kentucky Rural Water Association  
**Session Title:** 2018 Operator EXPO  
**Date:** May 22-23, 2018  
**Location:** Hardin County Fairgrounds, Glendale, Kentucky

**Learning Objective:** The objective of these sessions is to introduce processes and procedures that will enhance operations of water and wastewater utilities. Through classroom instruction and small group demonstrations, utility personnel will gain knowledge of products, services and procedures that will add to their knowledge and have a positive impact on job performance.

**Criteria for Training Credits:** Participants will be granted credit for actual time attending training sessions. The EXPO will offer a total of 14.5 hours for water district commissioners; however, the maximum number of credit hours that can be earned will be ten hours (4 hours on Tuesday and 6 hours on Wednesday). A Verification of Continuing Education Credit sheet will be given to each attendee to record their presence at the sessions. This sheet will be stamped by KRWA personnel after the completion of each session and turned in at the close of the EXPO in order to receive continuing education credit.

## Training Summary/Timed Agenda

### Tuesday, May 22, 2018

#### Site D

**Session 1:** 12:00 p.m. – 1:00 p.m. (1.0 hr.)

**Topic:** Laboratory Analysis for Water and Wastewater (Part 1)  
**Core:** Regulatory requirements/Facility compliance  
**Elective:** Managing key contaminants/water treatment basics

**Presenter:** Lance Williams, Hach Company

**Description:** This session will cover a number of analyses typically performed by water operators in water and wastewater utilities. Topics will include the methods for running the analyses, how the analytical equipment operates, calibrations, and steps involved for completion of the analyses. Also included will be different types of inline automated analytical devices used in water and wastewater treatment plants such as inline turbidimeters, dissolved oxygen, and chlorine analyzers and the care and maintenance of these devices.

**Session 2:** 1:10 p.m. – 2:10 p.m. (1.0 hr.)

**Topic:** Laboratory Analysis for Water and Wastewater (Part 2)  
**Core:** Regulatory requirements/Facility compliance  
**Elective:** Managing key contaminants/water treatment basics

**Presenter:** Lance Williams, Hach Company

**Description:** This session is a continuation of Session 1.

**Session 3:** 2:20 p.m. – 3:20 p.m. (1.0 hr.)

**Topic:** Portable Flow Meters for Validation or Calibration - Know the Difference  
**Core:** Inspections, water loss, physical asset management

**Presenter:** Jeff Merman, Automatic Controls Company

**Description:** Clamp-on ultrasonic meters are the most misunderstood meter as a management tool. Ultrasonic meters can be a great trouble shooting tool and can even be used to calibrate certain devices. However, they can also get utilities in trouble when they are misused. This session teaches the use of meters in wastewater & drinking water utilities for proving flow and where calibration may be acceptable.

**Session 4:** 3:30 p.m. – 4:30 p.m. (1.0 hr.)

**Topic:** Vibration Analysis  
**Core:** Inspections, water loss, physical asset management

**Presenter:** Jeff Merman, Automatic Controls Company

**Description:** This session will cover new technologies in vibration analysis for pumps and motors. New technology will be discussed that allows vibrations emanating from pumps and motors to be used to check the quality of new installations. This technology is also extensively used to check older motors to catch maintenance problems before they become critical. Also covered will be how this technology can allow utilities to catch maintenance problems sooner and how equipment failure can be predicted.

#### Speaker Bios for Site D (Tuesday)

**Lance Williams** joined Hach Company in 2016 as the Kentucky Regional Sales Manager. Lance holds an MBA from Midway University (2012) and a Civil Engineering degree from West Virginia University Institute of Technology (1990). Hach is a leader in the industry for laboratory instruments, process analyzers and water quality monitoring.

**Jeff Merman, President, Automatic Controls Co., has over 30 years of experience in Kentucky in the industrial instrumentation and controls business. Jeff holds an Associate's degree in Industrial Engineering from Northern Kentucky University.**

## Wednesday, May 23, 2018

### Concurrent Sessions (Sites A, B, & C)

#### Concurrent - Site A

**Session 5: 8:00 a.m. – 8:30 a.m. (No credit for Water District Commissioners)**  
**Topic: The Collection System: Problems and Solutions**  
**Presenters: Keith Bevins, Aulick Chemical Solutions**  
**Description:** This session will cover the collection system from the customer's lateral to the headworks at the wastewater treatment plant. Topics will include the sources and controls of fats, oils, and greases, and collection system maintenance & inspection. Also covered will be odor control, where hydrogen sulfide problems come from, and methods of control.

**Session 6: 8:45 a.m. – 9:15 a.m. (0.5 hrs.)**  
**Topic: Boring for Water and Wastewater Lines**  
**Core: Inspections, water loss, physical asset management**  
**Speaker: Rory Allison, Ditch Witch Mid-States**  
**Description:** This session will explain line boring for utilities. The discussion will include when and where line boring is the proper method to use. Also covered will be what to do to prepare for the job such as how to physically prepare the site, line location, maps, etc.

**Session 7: 9:30 a.m. – 10:00 a.m. (0.5 hrs.)**  
**Topic: Scanning Technology for Utility Asset Management (Part 1)**  
**Core: Inspections, water loss, physical asset management**  
**Speaker: Ron Householder and David Carter, CDP Engineers**  
**Description:** GIS tools have advanced significantly over the years. The new technology of laser scanning has gotten cheaper in recent years and is now easily within the reach of drinking water and wastewater utilities. This session will involve an explanation of the technology and how and where it can be useful for utilities.

**Session 8: 10:15 a.m. – 10:45a.m. (0.5 hrs.)**  
**Topic: Scanning Technology for Utility Asset Management (Part 2)**  
**Core: Inspections, water loss, physical asset management**  
**Speaker: Ron Householder and David Carter, CDP Engineers/MapSync**  
**Description:** This session is a continuation of Session #7. Field laser scanning will be demonstrated and ways to update/improve upon as build maps and engineering drawings will be explained.

**Session 9: 11:00 a.m. – 11:30 a.m. (No credit for Water District Commissioners)**  
**Topic: Types of Wastewater Pumps Available in the Marketplace**  
**Speakers: Jonathan Cummings and Josh Cravins, Wascon**  
**Description:** As pump manufacturers continue to flood the municipal marketplace, wastewater operators can be overwhelmed with the number of different pumps that are available to them. This presentation will give a brief overview of the major types of pumps they will see in marketplace and how to select the right pump for their specific application. Examples of certain pumps will be available for attendees to inspect.

**Session 10: 11:45 a.m. – 12:15p.m. (No credit for Water District Commissioners)**  
**Topic: Collection System and Manhole Inspections**  
**Speakers: Matt Glass and Tim Blanton, Kentucky Rural Water Association**  
**Description:** This session will cover the basics of collection system inspections to include sewer main inspection as well as manhole e inspections. A tractor sewer camera will be demonstrated and attendees will be able to see the capabilities and limitations of a typical sewer camera. Also discussed will be manhole inspections, the basics of what to look for, how to record observations, and how to prioritize problems found.

#### Speaker Bios for Concurrent A

**Keith Bevins started work with Aulick Chemical Solutions in 2013, as a sales representative. Prior work experience includes working for Kentucky Rural Water Association as a Wastewater Technician from July 1999 to 2013, as the Wastewater Facilities Manager for Pike County, and Chief Operator of Utilities for Wheelwright.**

**Rory Allison is a Regional Manager for Subsite Electronics and a Regional Sales Manager for Hammerhead Trenchless Equipment, both of which are subsidiaries of the Ditch Witch Company. Previously he has worked in the oil drilling industry as well as serving as a Combat Medic in the U.S. Army. Rory earned a BS in Business and Commerce from Oklahoma State University in 2002.**

**David Carter**, President of CDP Engineers, is a 1982 graduate of the University of Kentucky with a BSCE in Civil Engineering with high distinction. David is a licensed civil engineer and professional land surveyor. His engineering experience has focused on storm water management and modeling, water distribution systems, wastewater collection systems and site development. Since 1994, David has integrated engineering and GIS into sustainable workflow products for communities, institutions and utilities. As the principle software architect of GeoSync software (GeoSync, GeoSync XG, GeoSync Go), David has an intimate knowledge and understanding of new technologies and how they can be integrated with design services to provide sustainable solutions.

**Ron Householder**, PLS, has held management positions for MapSync, Co. since June 1, 1994. Prior to this he was the owner of In-House Solutions, a mapping and consulting firm based in Lexington, Kentucky. He is a registered land surveyor with over twenty-nine years of experience in the land surveying, mapping and civil engineering fields. Mr. Householder has experience in Global Positioning Systems (GPS), Geographic Information Systems (GIS), and mapping application software development. He currently serves as Past-President of the Board of Directors of the Indiana, Kentucky and Ohio-Geospatial Information Technology Association (IKO/GITA).

**Jonathan Cummings** has worked for WASCON since 2004 where he started in the service department and worked his way into sales. His first experience at Wascon was rebuilding grinder pumps in the shop. From there he moved to doing service calls and service jobs. WASCON does service and sales on all equipment in the water & wastewater industry. Jonathan now maintains inside sales covering all quotes that are required on jobs in both municipal fields. Along with inside sales Jonathan also does classes on troubleshooting and repair of sewer pumps.

**Josh Cravins** currently holds the position of sales manager for WASCON, where he is responsible for managing all sales and marketing. Josh graduated from University of the Cumberland where he earned a Bachelor of Science in Business Administration with a minor in Computer Programming in the spring of 2006. Since graduating, Josh has worked with WASCON in both the service and sales portions of the business. Josh has knowledge in pump sizing, selection and specifying, as well as low pressure sewer system design.

**Matt Glass** joined Kentucky Rural Water Association in March of 2002 as a Groundwater Technician. He later worked in the Water and Wastewater Services Division of KRWA providing practical infrastructure management solutions for small & rural communities, such as mapping, manhole inspection, smoke testing, flow monitoring & video inspection. Matt now serves as the Wastewater Circuit Rider for KRWA. Matt attended Western Kentucky University where he obtained a bachelor's degree in Geography with an emphasis in hydrogeology. He worked on several projects as a geologic technician for the Center for Cave and Karst Studies at Western and completed a planning internship under Dr. Nicholas Crawford, focusing on the development of a storm water management plan for the city of Bowling Green.

**Tim Blanton** came to work for Kentucky Rural Water Association in June, 2007 as a Circuit Rider. His many years of experience in water, wastewater, and public works began in the City of Grand Junction, Colorado. For 10 years he held various positions in billing and collections for the departments of water and solid waste. He gained knowledge of public relations, billing & collections, water system operations, metering, leak locating and repairing, welding and much more. After moving to Vermont, Tim continued his career in the water and wastewater industry for another 11 years. He served as the Public Works Manager for the Village of Derby Center before taking a position as the Regional Manager for a contract utility operations business. His responsibilities included the management and operations of 36 municipal water systems and six sewer systems. Tim holds an Associate Degree in Architectural Structural Design.

## Concurrent - Site B

**Session 11:** 8:00 a.m. – 8:30 a.m. (0.5 hrs.)

**Topic:** The Advantages of Mini Excavators for Utilities

**Core:** Inspections, water loss, physical asset management

**Speaker:** Glen Gish, Wilson Equipment Company

**Description:** This session will cover the advantages that mini excavators can provide to utilities. Mini excavators are much smaller and lighter than a conventional backhoe. As such, they can be towed by smaller trucks, take up less space on the job site, make for a smaller job site, can fit into tighter work spaces, and cost substantially less than larger equipment.

**Session 12:** 8:45 a.m. – 9:15 a.m. (0.5 hrs.)

**Topic:** Pipeline Materials, Pipe Repair, Coupling, and Restraining Methods for Sewer Force Mains and Drinking Water Mains

**Core:** Inspections, water loss, physical asset management

**Speaker:** Mike Rullo, Smith-Blair

**Description:** This session will cover pressurized pipelines. Topics will include choosing the proper pipe for the specific wastewater or drinking water application, pipe size, pipe materials, and how to select the best pipe for the task. Also covered will be pipe coupling types and their usage, restraining pressurized sewer force mains and water mains, repairing pressurized sewer force mains and water mains, valve insertions, tapping, etc. This class will offer hands-on materials for attendees to both visualize and use directly.

- Session 13:** 9:30 a.m. – 10:00 a.m. (0.5 hrs.)  
**Topic:** Leak Detection with Correlators  
**Core:** Inspections, water loss, physical asset management  
**Speaker:** Jeff Merman, Automatic Controls Company  
**Description:** This session will demonstrate the use of a Listening Device and a Water Leak Correlator. Also included will be a demonstration of the use of an iPad based Asset & Maintenance Management System which is designed for documenting field activities in a real time environment.
- Session 14:** 10:15 a.m. – 10:45 a.m. (0.5 hrs.)  
**Topic:** Leak Detection with Correlators (repeat of Session #13)  
**Core:** Inspections, water loss, physical asset management  
**Speaker:** Jeff Merman, Automatic Controls Company  
**Description:** This session will demonstrate the use of a Listening Device and a Water Leak Correlator. Also included will be a demonstration of the use of an iPad based Asset & Maintenance Management System which is designed for documenting field activities in a real time environment.
- Session 15:** 11:00 a.m. – 11:30 a.m. (0.5 hrs.)  
**Topic:** Chemical Feed Pump Maintenance and Repair  
**Elective:** Water treatment basics  
**Speaker:** Jason McGee, American Development Corporation  
**Description:** This session will cover chemical feed pumps used by drinking water and wastewater treatment facilities. These pumps are often used in corrosive environments as well as frequently pumping corrosive chemicals. This session will explain some of the common maintenance issues and repairs that operators encounter in the day to day running of a utility.
- Session 16:** 11:45 a.m. – 12:15p.m. (0.5 hrs.)  
**Topic:** Ductile 101 – Introduction to Ductile Iron Pipe  
**Core:** Inspections, water loss, physical asset management  
**Elective:** Preventative maintenance  
**Speaker:** Roy Mundy, McWane Ductile  
**Description:** This session will cover the basics of ductile iron pipe. Topics will include the dos and don'ts of ductile iron pipe, pipe corrosion protection and prevention, and some basics of installation.

### **Speaker Bios for Concurrent B**

**Glen Gish** is in Business Development and Sales for Wilson Equipment Company. He received an Undergraduate and Graduate degree in Business from the University of Louisville. He has 40 years of experience in the industry. Glen worked for Hunt Tractor for 35 years and joined Wilson Equipment Company 4 years ago.

**Mike Rullo** has been employed as the Territory Manager for Smith-Blair since February, 2011. Mike provides technical presentations, workshops, and education training throughout the Midwest, including Indiana, Kentucky, Michigan and Ohio. Mike began his waterworks career in 1982 as a Sales Representative for Victory White Metal Waterworks Division in Cleveland, Ohio. Other work experience includes American Flow Control Company (1990-1998) and Julian Supply Company (1998-2011).

**Jeff Merman**, President, Automatic Controls Co., has over 30 years of experience in Kentucky in the industrial instrumentation and controls business. Jeff holds an Associate's degree in Industrial Engineering from Northern Kentucky University.

**Jason McGee** is in Sales and Technical Service for American Development Corporation. Before coming to ADC five years ago Jason worked as a private contractor for two years. His work experience includes ten years as the Chief Operator at a surface water plant in Fayetteville, Tennessee. Jason holds a Grade IV water treatment and a Grade II Distribution license in Tennessee.

**Roy Mundy** has extensive experience in the waterworks profession having spent 35 years working up through the ranks at American Water Company to reach the position of President and CEO of AWC's Kentucky-American Water Company. Roy then served as the Commissioner of the Kentucky Department of Vehicle Regulation in the Transportation Cabinet before becoming an instructor and Vice-President of Advancement with Midway College in Kentucky.

### **Concurrent - Site C**

- Session 17:** 8:00 a.m. – 8:30 a.m. (0.5 hrs.)  
**Topic:** Aerial Drones for Utilities  
**Core:** Inspections, water loss, physical asset management  
**Speaker:** Eric Muncy, Precision Products  
**Description:** Drones or Unmanned Aerial Vehicles (UAVS) are becoming useful devices that utilities can use for

logistic purposes. Utilities can take advantage of these devices for various inspections and tasks. This session will look at some of these tasks as well as the federal and local regulations of owning and operating a UAV. A short demonstration of a UAV will be performed.

**Session 18: 8:45 a.m. – 9:15 a.m. (0.5 hrs.)**

**Topic: Aerial Drones for Inspection of Water Tanks and Utility Assets**  
**Core: Inspections, water loss, physical asset management**

**Speaker: Eric Muncy, Precision Products**

**Description:** This session will cover the use of aerial drones for inspection of utility assets. The capability of today's drones for inspecting water and wastewater utility assets in the field will be demonstrated. Also covered will be how the aerial inspections can be integrated into a utility's larger asset management program.

**Session 19: 9:30 a.m. – 10:00 a.m. (0.5 hrs.)**

**Topic: Safely Cutting Pipe in a Trench**  
**Elective: Risk management**

**Speaker: Scott Lewis, Lewis Municipal Sales**

**Description:** Pipe cutting is a common task for drinking water and wastewater operators. This task is complicated when having to complete it while in a trench. This session will cover various methods to safely cut pipe while operators are in a trench. Different types of saws, such as chop saws, belly saws, and chain saws will be on hand for viewing and demo purposes.

**Session 20: 10:15 a.m. – 10:45 a.m. (0.5 hrs.)**

**Topic: Line Location Technologies**  
**Core: Inspections, water loss, physical asset management**  
**Elective: Preventative Maintenance**

**Speaker: Jason Myers, Tracer Electronics**

**Description:** This session will cover various methods for locating underground utility lines. Included in this discussion will be the advantages and disadvantages of the various methods and technologies as well as under what conditions those methods work best.

**Session 21: 11:00 a.m. – 11:30 a.m. (0.5 hrs.)**

**Topic: Fire Hydrant Operation and Maintenance**  
**Core: Inspections, water loss, physical asset management**  
**Elective: Preventative Maintenance**

**Speaker: Luke Darby, EJ USA**

**Description:** Fire hydrants often sit unused for years at a time. If used improperly they can cause significant damage to the distribution system. This session will cover the basics of hydrant operation so that water hammer and other damage to the hydrant is avoided. Also covered will be some simple maintenance steps operators can do to help ensure that hydrants give decades of reliable use.

**Session 22: 11:45 a.m. – 12:15 p.m. (0.5 hrs.)**

**Topic: Safety Grates and Manhole Safety**  
**Elective: Risk management**

**Speaker: Luke Darby, EJ USA**

**Description:** This session will demonstrate safety grate systems for underground vaults and manholes. These systems are designed to both prevent falls into open vault and manholes and are also designed to facilitate safe entry and exit from vaults and manholes.

### **Speaker Bios for Concurrent C**

**Eric Muncy is the Mapping-GIS Sales Consultant for Precision Products, the authorized dealer for Mapping and Survey Trimble GPS Products for Kentucky. Eric has been in the GPS and GIS fields for over 18 years, working on a variety of GIS projects including FEMA Flood Studies, National Guard Environmental Impact Studies, and Stormwater Planning Projects in Oklahoma, Tennessee, North Carolina, and Kentucky. Eric graduated from the University of Louisville in 1994 with a BS degree in Geography with a concentration in Environmental Analysis with a focus in his Senior year in GIS/Computer Mapping. Today, as the sales consultant for Mapping and GIS products, he helps educate customers about what particular GPS products might be the best fit for their needs. He also helps train and support customers throughout the Kentucky and southern Indiana area.**

**Scott Lewis joined Lewis Municipal Sales in 2014, after twelve years in the IT field. With the growing prevalence of computerized control systems in the waterworks industry, Scott brings his in-depth knowledge of computer technology to the firm to assist customers in understanding the increasingly sophisticated capabilities of tools and equipment the firm offers. His current focus is on training customers in the use of line locating and leak detection products, and also assists customers in their purchase decisions involving valve exercising equipment; all three of which now incorporate sophisticated electronic controls.**



**Jason Myers** is the Kentucky/Tennessee Sales Manager for Tracer Electronics, a company which repairs, calibrates and tests underground utility locating equipment. He has held this position for the last 2 years. Jason previously worked for USIC as an underground utility locator for 7 years.

**Luke Darby** started with EJ USA in November of 2014. As an outside salesman, he currently covers the entire state of Kentucky and the southern portion of Ohio including the cities of Cincinnati and Dayton. Luke handles all sales and engineering requests for the hydrant and valve line as well as the extensive street casting product offering. Luke earned a bachelor's degree in Construction Management from BYU-Idaho in 2007 and started working with Ferguson Waterworks as a management trainee. During his 7 years with Ferguson, his duties included that of a trainee, inside salesman, outside salesman and during his final 3 years with the company he served as the branch manager of the Richmond, Kentucky office. Luke takes great pride in working for EJ USA, a family owned business that is dedicated to offering local perspective to meet their customers' needs.

LUNCH: 12:15 p.m. to 1:30 p.m.

## Site D

**Session 23:** 1:30 p.m. – 2:30 p.m. (1.0 hr.)

**Topic:** Sampling Collection and Preservation

**Core:** Regulatory Requirements

**Elective:** Managing key contaminants

**Presenter:** Johnny Osborne, McCoy & McCoy Laboratories

**Description:** It is not unusual for water and wastewater utilities to receive violations that can be traced to bad sampling practices. This session will cover standard operating procedures for the collection and handling of samples in the field. The SOPs for the collection, handling, storage, and hold times for a number of required analyses will be discussed.

**Session 24:** 2:40 p.m. – 3:40 p.m. (1.0 hr.)

**Topic:** Workplace Safety: Trenching and Shoring, Lock-out/Tag-out, and Confined Space Entry (Part 1)

**Core:** Regulatory Requirements

**Elective:** Risk management

**Presenter:** Steve Capps, Kentucky Rural Water Association

**Description:** This session will cover several workplace safety topics of confined space entry, Lock-Out/Tag-Out, and Trench Safety. Topics of discussion include assessment of the confined space environment, entry into continuous system confined spaces (such as sewers), entry into closed system confined spaces (such as tanks and pits), emergency entry into all confined spaces, and training of employees. Locking out and tagging out, what's involved, what gets locked out, how do you know when to lock out a device, and where do you get the proper devices will be covered in this session. Also included will be trench safety for utility workers, types of soils, trench regulations, and competent persons.

**Session 25:** 3:50 p.m. – 4:50 p.m. (1.0 hr.)

**Topic:** Workplace Safety: Trenching and Shoring, Lock-out/Tag-out, and Confined Space Entry (Part 2)

**Core:** Regulatory Requirements

**Elective:** Risk management

**Presenter:** Steve Capps, Kentucky Rural Water Association

**Description:** This is a continuation of Session #24.

## Speaker Bios for Site D (Wednesday)

**Johnny Osborne** has been with McCoy and McCoy Laboratories since March 2002. Mr. Osborne has numerous years of experience in scheduling and reporting of water, wastewater, and soil samples for analysis. He is responsible for marketing and maintaining client relations. As a certified wastewater operator he understands the responsibility involved with proper sampling procedures. Previous laboratory experience includes working for Appalachian States Analytical.

**Steve Capps** came to Kentucky Rural Water Association in 1994 from the City of Burkesville, Kentucky, where he had served as Director of Public Works for twelve (12) years. He also had experience as the Water Treatment Plant Operator and also the Wastewater Treatment Plant Operator for six (6) years. He is currently certified in water treatment, wastewater treatment and holds a certificate as a water distribution system operator. Mr. Capps served as the Wastewater Technician for the Kentucky Rural Water Association from June 1994 to June 1999. His primary duties as Wastewater Technician were to provide technical assistance and hands-on training to rural wastewater utility personnel throughout Kentucky. Mr. Capps' position with the Kentucky Rural Water Association from June 1999 to the present is that of Wastewater Trainer/Technician and Compliance. In that capacity he provides on-site technical assistance and training to small rural municipal wastewater treatment systems and rural systems in unincorporated areas.