

## **Kentucky Rural Water Association**

Helping water and wastewater utilities help themselves

April 11, 2013

RECEIVED

APR 16 2013

Mr. Jeff Derouen, Executive Director Public Service Commission P. O. Box 615 Frankfort, KY 40602-0615

PUBLIC SERVICE COMMISSION

Dear Mr. Derouen:

Kentucky Rural Water Association will host its 2013 Outdoor EXPO at Park Mammoth Resort in Park City, Kentucky on June 11-12, 2013. We would like to request that this training be approved for continuing education credit for water district commissioners as referenced in regulation 807 KAR 5:070.

Please find enclosed a training summary/timed agenda and biographies for the speakers. Approval for this training session has been submitted to the Kentucky Boards of Certification for Water Treatment and Distribution System Operators and Wastewater System Operators. A copy of the application is enclosed.

With this letter and enclosures, Kentucky Rural Water Association is requesting the approval of up to nine (9) hours of continuing education credit for water district commissioners. If additional information is needed, please do not hesitate to contact our office.

Sincerely,

Randall Kelley
Training Specialist

jc

Enclosures

(Original and 10 copies)

### RECEIVED

Training Sponsor: Kentucky Rural Water Association

Title: 2013 Outdoor EXPO

Location: Park Mammoth Resort, Park City, KY

Dates: June 11-12, 2013

APR 16 2013

PUBLIC SERVICE COMMISSION

**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, attendees 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: Attendees will be granted credit for actual time attending training sessions. The EXPO will offer a total of 13 hours for drinking water and 10.5 hours for wastewater; however, the maximum number of credit hours that can be earned will be 9 hours for drinking water and 9 hours for wastewater. An individual sheet will be given to attendees to record their presence at each session. 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** (Drinking Water Sessions are noted in red)

#### Day 1 – June 11, 2013

**Session 1---**Site C 8:30 a.m. – 9:30 a.m. 1.0 hr. **DW/WW** 

Topic: GPS for Water and Wastewater Utilities (Classroom portion)

**Speaker:** Eric Muncy, Precision Products

**Description:** This session will cover the use of GPS equipment for collecting location data on utility infrastructure. Topics will include GPS receivers, their function, their capabilities, and how they can be tailored for use by utilities. This session will be followed by optional hands-on GPS training sessions.

Session 2—Site B 9:45 a.m. – 11:45 a.m. 2.0 hrs. DW/WW

**Topic:** GPS for Water and Wastewater Utilities (Hands-on Part 1)

**Speaker:** Eric Muncy, Precision Products

**Description:** The hands-on portions of the GPS training will involve the use of GPS equipment to both collect location data and also the use of GPS to find previously located points. These sessions will cover how GPS can be used to collect data on different types of water and wastewater devices such as meters, valves, manholes, etc., and how the GPS unit can be tailored for each type and need of the utility. Each Part of the hands-on training will build upon the information learned in the previous sessions and will not be a duplication of information.

LUNCH 11:45AM—1:00 PM

<u>Session 3</u>---Site C 1:00 p.m. – 2:00 p.m. 1.0 hr. **DW**/WW

Topic: Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Speaker: Tim Nelson, Midwestern Engineers, Inc.

**Description:** The GHS is an acronym for the Globally Harmonized System of Classification and Labeling of Chemicals. The GHS is a system for standardizing and harmonizing the classification and labeling of chemicals. It is a logical and comprehensive approach to identifying chemicals and their hazards and will see increased usage worldwide. This session will provide and introduction to GHS and cover how the GHS will affect water and wastewater operators.

<u>Session 4---Site C</u> 2:15 p.m. – 3:15 p.m. 1.0 hr. **DW/WW** 

Topic: How to Read a Pump Curve and Why It's Important

Speaker: Danny Vance, Service Pump and Supply

**Description:** Improperly sized pumps, pumps improperly located, and pumps asked to do something they were not designed to do are all problems that can exist in water and wastewater systems. This session will cover pump curves and why it's important for operators to know and understand how to read a pump curve.

Session 5---Site C 3:30 p.m. – 4:30 p.m. 1.0 hr. DW/WW

Topic: Water and Wastewater Analysis Speaker: Shayna Lawrence, Hach Company

**Description:** This session will cover a number of analyses typically performed by water and wastewater operators in the treatment plant labs. 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 the proper care and cleaning of laboratory analytical equipment and associated hardware.

#### Day 2 – June 12, 2013

**Session 6**—Site A 8:00 a.m. - 8:30 a.m. .5 hrs. **DW/WW** 

Topic: Variable Speed Drives and Controllers Speaker: Steve Gott, S&K Equipment Company

**Description:** This session will cover the basics of variable speed drives and controllers. Included in the session will be how to adjust the controllers, uses for the drives, advantages, and the potential for electrical savings within water and wastewater utilities.

<u>Session 7</u>—Site B 8:00 a.m. – 8:30 a.m. .5 hrs. **DW/WW** 

Topic: Pipe Cutting, New Technologies
Speaker: Tom Lewis, Lewis Municipal Sales

**Description:** This session will cover some new technologies for cutting both water and wastewater pipe for both initial installations and pipe repairs in distribution systems, collection systems, and water and wastewater plants. Types of saws and blades and their uses will also be covered.

<u>Session 8</u>—Site C 8:00 a.m. – 8:30 a.m. .5 hrs

**Topic:** Leak Detection

Speakers: Jeff Merman, Automatic Controls Company, Inc.

Tim Blanton and Dell Harris, Kentucky Rural Water Association

**Description:** This session will cover leak detection equipment and techniques. Topics will include types of devices used for detecting and locating leaks from underground water mains. In addition to devices, methods for narrowing search areas where a leak could be will also be covered. This session will be conducted in the classroom with outdoor instruction to follow in other sessions.

<u>Session 9</u>—Site A 8:45a.m. – 9:15 a.m. .5 hrs **DW** 

**Topic:** Leak Detection

Speakers: Jeff Merman, Automatic Controls Company, Inc.

Tim Blanton and Dell Harris, Kentucky Rural Water Association

**Description:** This session will be conducted outside and will focus on the use of leak detection equipment in the field. Attendees will be able to use leak detection equipment to locate simulated water leaks. Different devices will be compared and contrasted and their pros and cons discussed and demonstrated.

<u>Session 10</u>—Site B 8:45a.m. – 9:15 a.m. .5 hrs **DW**/WW

Topic: Valves for Water and Wastewater

Speaker: Brian Hall, EJ USA, Inc.

**Description:** This session will cover valves for water and wastewater applications. Topics covered will include valve history, valve designs, AWWA standards C509 vs C515, and written specifications for valves.

<u>Session 11</u>—Site C 8:45a.m. – 9:15 a.m. .5 hrs **DW**/WW

Topic: Chlorine Safety and Equipment Troubleshooting

Speaker: Steve Aker, Chlorination Co., Inc

**Description:** This session will cover the fundamentals concerning the use of chlorine by water and wastewater operators in day to day operations. Topics will include safety, general theory of equipment operation, and basic troubleshooting.

Session 12—Site A 9:30 a.m. – 10:00 a.m. . .5 hrs DW

Topic: Leak Detection

Speakers: Jeff Merman, Automatic Controls Company, Inc.

Tim Blanton and Dell Harris, Kentucky Rural Water Association

**Description:** This session will be conducted outside and will focus on the use of leak detection equipment in the field. Attendees will be able to use leak detection equipment to locate simulated water leaks. Different devices will be compared and contrasted and their pros and cons discussed and demonstrated.

**Session 13**—Site B 9:30 a.m. – 10:00 a.m. .5 hrs **DW** 

Topic: Hydrants

Speaker: Brian Hall, EJ USA, Inc.

**Description:** This session will cover hydrants, their history and design, required information when ordering hydrants, hydrant components, inspection, and other hydrant related topics.

<u>Session 14</u>—Site C 9:30 a.m. – 10:00 a.m. .5 hrs **DW**/WW

**Topic:** Ice Pigging

Speaker: Brad Brown, Utility Service Company

**Description:** This session will cover a new technique for cleaning water distribution system mains and collection system force mains using slush ice called Ice Pigging. Ice Pigging has been proven to be between 100 and 1000 times more effective at removing sediment and biofilm than water flushing alone.

Session 15—Site A 10:15 a.m. – 10:45 a.m. .5 hrs WW

**Topic:** Manhole Inspections

Speakers: Matt Glass and Tim Blanton, Kentucky Rural Water Association

**Description:** Manholes inspections are a crucial component of I&I control within a collection system. This session will cover the basics of conducting a manhole inspection, what to look for, and will touch on the Manhole Assessment and Certification Protocol (MACP) and its purpose.

**Session 16**—Site B 10:15 a.m. --10:45a.m. .5 hrs **DW** 

Topic: Tank Inspections

Speaker: Jay Hoffman, Wet or Dry Tank Inspection.

**Description:** This session will cover the basics of inspecting water storage tanks. Included in the session will be an onsite demonstration of a robotic submersible used for inspecting tanks that are full and in service. The session will be held at a ground storage tank located at the facility. Attendees will have a chance to see what an inspection entails and what a proper inspection looks for both inside and outside a storage tank.

<u>Session 17</u>—Site C 10:15a.m.—10:45 a.m. .5 hrs DW

Topic: THM Removal through In-tank Aeration Speaker: Brad Brown, Utility Service Company

**Description:** This session will demonstrate how the combination of proper stripping and mixing assists operators in the management of water quality within their storage tanks. Participants will learn about new innovative sustainable strategies for the management of water quality from the water plant through storage by minimizing those things that consume disinfectant, namely, organic and inorganic materials through the use of in-tank aeration.

Session 18—Site A 11:00 a.m.—11:30 a.m. .5 hrs WW

**Topic:** Video Inspections of Sewer Lines

Speakers: Matt Glass and Tim Blanton, Kentucky Rural Water Association

**Description:** This session will cover video inspections of collection system pipelines. Attendees will be able to observe a video camera, the supporting van, and to see what the operations entail. Attendees will also learn the abilities and limitations of pipeline cameras and the video images they provide.

<u>Session 19</u>—Site B 11:00 Aa.m.—11:30 a.m. .5 hrs

**Topic:** Servicing PRVs and Altitude Valves

Speaker: Josh Cravins, Wascon

**Description:** PRVs and altitude valves are crucial to the proper function of a distribution system, but are often ignored until they fail. This session will cover the basics of proper maintenance of PRVs and altitude valves and will show how simple the task can be.

Session 20—Site C 11:00a.m.—11:30 a.m. .5 hrs DW

**Topic:** Lead Free Brass

Speakers: Billy Heck, A.Y. McDonald Company

Clem Wethington, Kentucky Rural Water Association

**Description:** On January 1, 2014 new regulations go into effect concerning the use of leaded brass products in potable water. There is considerable confusion over some aspects of the new rules and how they will impact drinking water utilities. This session will cover the new regulations and provide some clarification of the matter.

<u>Session 21</u>—Site A 11:45a.m.—12:15 p.m. .5 hrs WW

Topic: Sealing Manhole Chimneys
Speaker: Matt Terranova, AJ Enterprises

**Description:** Manholes are a major source of inflow and infiltration, and the chimney section alone can be a major source of the problem. This session will demonstrate methods for sealing manhole chimneys for the purpose of preventing I&I while holding up to the stresses encountered by manhole chimneys.

<u>Session 22</u>—Site B 11:45a.m.—12:15 p.m. .5 hrs WW

**Topic:** Positive Displacement Pumps vs Centrifugal pumps in Low Pressure Systems

Speaker: Josh Cravins, Wascon

**Description:** Low pressure sewer systems are becoming more and more common across the state. Some utilities only have a handful of grinder stations while others have hundreds. This session will cover the differences between positive displacement pumps and centrifugal pumps when used in low pressure sewer systems.

<u>Session 23</u>—Site C 11:45a.m.—12:15 p.m. .5 hrs DW

**Topic:** The Use of Sodium Permanganate

**Speaker:** Jason McGee, Amercian Development Corporation

**Description:** This session will discuss the use of sodium permanganate as an alternative to potassium permanganate as an oxidant for use in water treatment facilities. The advantages and disadvantages, effectiveness, and cost comparisons of sodium permanganate will be discussed.

#### **SPEAKER BIOS**

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. He has worked on a variety of data collection projects from Manhole Inspections to full blown GPS data collections. One notable project was the Louisville Water GIS Data conversion project. Eric managed and trained 10 crews collecting GPS for water features for about 3 years. He 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.

**Tim Nelson** joined Midwestern Engineers in 2006. His current duties as Environmental & Safety Administrator include report author for various wellhead protection, erosion control, NPDES, Land Application plans, permits, and renewals; as well as providing training. Course topics include: OSHA Authorized 10HR & 30HR Construction & General Industry, Red Cross First Aid/CPR/AED and Bloodborne Pathogens, Utility Locating, Hazard Communications, Fire Extinguishers, PPE, Confined Spaces, Lockout/Tagout, Fall Protection, and Trenching and Shoring. His tasks also include marketing, system evaluations, and project inspection.

**Danny A. Vance**, President, Service Pump & Supply, Inc. started this company in 1980 by selling and engineering pump and electrical systems to mining, industrial and municipal markets. Previous experience includes working for the Stanco Manufacturing company as a territory manager and technical advisor for submersible pumps and with Hutchison Supply, another pump company.

**Shayna Lawrence** is the Regional Sales Manager for Hach Company. Ms. Lawrence attended Western Kentucky University before earning her Chemical Engineering degree from the University of Kentucky. Shayna joined the Hach Company as Regional Sales Manager in early 2011. Previously she has worked for G.E. Water and for ChemTreat, Inc.

**Steven Gott** is the owner of S & K Equipment Company. Throughout his work experience Steve has attended various pump and systems courses as well as valve and hydraulic schools. He has had extensive instruction on controls and systems, is a graduate of National Radio Institute (NRI)-electronics, and has completed credited gas chlorination, equipment & design classes.

**Tom Lewis** of Lewis Municipal Sales is a graduate of the University of Arkansas, Tech Campus, with a degree in Business Administration and Economics. Tom spent 21 years working for Premier Industrial Corporation in various sales management positions. While with Premier, Tom sold lubrication and coating products primarily to contractors and the steel manufacturing industry. In 1999, Lewis Municipal Sales (LMS) was established as a manufacturer's rep agency and Tom began working in the waterworks industry. The manufacturers represented by Tom's company supply a variety of products, both technical and commodities, to municipalities and contracting companies.

**JEFF MERMAN, President, Automatic Controls Co.**, has over 30 years experience selling industrial instrumentation and controls in the Commonwealth of Kentucky.

- ➤ 21+ years with Automatic Controls Co.
- ➤ Prior speaker at various ISA Conferences, TAPPI & other Water & Waste Water Training Classes.
- > 25 Year Member of ISA.
- > Other memberships: Kentucky Rural Water Assn., The Vibration Institute, and agency member of MANA.

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.

Dell Harris joined the Kentucky Rural Water Association in September 1997 as a Circuit Rider. He had nine (9) years experience in the water treatment field beginning in 1988, when he became a water treatment plant operator and acquired Kentucky Class IV-A and Class III-D operator licenses while working for Hardin Co. Water District #1. Mr. Harris went to work for the Hardin County Water District #1 in April 1988 and operated the Pirtle Springs and Muldraugh Water Treatment Plants. He was promoted to Supervisor at the Pirtle Springs facility in July 1991 and obtained his Class IV-A license in April 1992. From September 1993 to September 1994, Dell served as Interim General Manager for the water district. He obtained his Class III-D license in April 1997. Mr. Harris earned an Associate Degree from the Elizabethtown Community College. His studies included Total Quality Management (TQM), Computer Science, and financial management. As a result of the The Bioterrorism Act of 2002, Dell has attended the following training sessions to gain knowledge on security issues: "RAM-W," sponsored by the Sandia National Laboratories, Austin, TX, and "Security Emergency Management System" (SEMS), sponsored by National Rural Water Association, Atlanta, GA.

**Brian Hall** has worked for East Jordan Iron Works since 2004 where he is currently a Sales Representative. Mr. Hall has a B.S. in Chemistry from Kentucky Wesleyan College.

**Steven Aker** is the owner/operator of Chlorination Co. Inc. where he has been employed for the last 32+ years. Chlorination Company sells and services chemical feed equipment and related items primarily for water and wastewater. Steven graduated from Purdue University in 1979 with a B.S. degree in Business Management and in 2006 with a associate degree in electronics technology.

**Brad Brown** has been a Water System Consultant with Utility Service Co., Inc. in Mississippi, Virginia, and now Kentucky over the last 7 years. Brad served one year as the director of training for national sales force. He has been solely in the water tank maintenance and water quality management industry for that 7 year span. His focus is in the area of water quality management tools to assist water systems in ways to better manage current and future regulatory compliance issues. He played four years of collegiate base ball and graduated from Valdosta State University.

Matt Glass joined the Kentucky Rural Water Association in March of 2002 as a Groundwater Technician. His primary responsibilities include conducting manhole inspections, video inspections of sewer mains, and collecting GPS data. Matt obtained a bachelor's degree in Geography with an emphasis in hydrogeology from Western Kentucky University. 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 stormwater management plan for the city of Bowling Green.

Josh Cravins is the Sales Manager for Wascon, Inc. and has had many years of experience in providing products and service to the water and wastewater industry. He has literally grown up in the business since his family started the company in 1980. Since the beginning, Wascon has provided Tennessee and Kentucky with quality products and service. With years of experience in the municipal business, Wascon is dedicated to providing quality service and products to their customers.

**Billy Heck** has worked for A.Y. McDonald Mfg for 14 years covering Kentucky, Tennessee, and West Virginia selling waterworks brass, pumps, high pressure gas valves, and plumbing valves. He has previously worked for Knoxville Utilities Board in the water department for 11 years.

Clem Wethington, Compliance Specialist, came to Kentucky Rural Water Association in 1987 from the City of Eddyville where he was Superintendent of Public Works for over eight years. For nine years he served on the Eddyville City Council. Clem holds the following licenses: Class IIIA Kentucky Water Treatment Plant Operator's License, Class II Kentucky Water Distribution System Operator's License, and Class I Kentucky Wastewater Treatment Plant Operator's License. Other positions Mr. Wethington has held while at KRWA is that of Circuit Rider, Groundwater Technician, Program Specialist, and Education Director. His primary duties as Circuit Rider were to provide technical assistance and hands-on training to rural water utility personnel. As a Groundwater Technician he helped communities develop local wellhead protection plans. The Program Specialist is dually responsible for providing training and technical assistance to water systems. As a Compliance Specialist he trains and assists utilities with regulations, recordkeeping, & reporting.

Matt Terranova of A J Enterprises has worked in the water and sewer industry for over 25 years. He has experience in doing material take off's of sewer pump and lift stations as well as consulting with engineers on specific materials in these stations Matt has been worked with engineers and municipalities on the different processes for relining manholes and sealing the chimney area to reduce or eliminate inflow and infiltration. Matt holds a B.S. in Mechanical Engineering from the University of Louisville (1986).

**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.

#### Mail to:

Division of Compliance Assistance Certification and Licensing Branch Operator Certification Program 300 Fair Oaks Lane Frankfort, KY 40601

I.

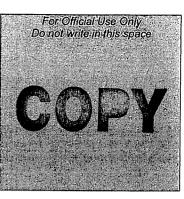
II.

Commonwealth of Kentucky
Department for Environmental Protection

# Application for Approval of Courses for Continuing Education Credit

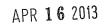
Drinking Water Treatment, Drinking Water Distribution, Bottled Water, Wastewater Treatment and Collection System

Telephone: 1-800-926-8111 www.dca.ky.gov/certification



Course Sponsor Information:			ncy Interest Numbe	r:108571			
A. Sponsoring Organization (school, business, association, etc.):							
Kentucky Rural Water Association							
Key Contact Persor	ո։						
Name and Title:	Janet Cole, Education Co	ordinator					
Address: P0 Box 1424							
City, State and Zip:	Bowling Green, KY 42:	102-1424		A STATE OF THE STA			
Phone and Fax:	Ph: 270.843.2291	Fx: 270.796.8623		The state of the s			
E-mail: <b>j.cole@krwa.org</b>							
Web Page: www	u kmua ard						
☑ One-Tim	ne Approval Requested		☐ Two-Year A	pproval Requested			
B. If individual req the following inf	uesting approval is diffe ormation:	rent than the key cor	tact person for the sp	onsor, please complete			
Name and Title:							
A data a a c							
City, State and Zip:							
Phone and Fax:							
E-mail:							
General Course Info	ormation:						
A. Title: <b>2013 0</b> ut	tdoor EXPO						
B. Location and Da	te/s: Park Mammoth I	Resort, Park City, KY		June 11-12, 2013			
C. Cost per Studen	t or Group: \$ <b>75.00</b>						
D. Delivery Format or Media (check those that apply):							
	n 🔲 Web/Online	•	Laboratory	Exhibition			
☐ Field ☐ Other (Exp	Dlain)		☐ Video/Audio	Correspondence			









f	E. Co	ontinuing Education Credits <b>(hours)</b> Requested for Target Audie	ence:			
	D	rinking Water Treatment, Distribution and/or Bottled Water:	13 hrs. (maximum 9)			
Wastewater Treatment and/or Collection:		/astewater Treatment and/or Collection:	10.5 hrs (maximum 9)			
	(A	ttach a detailed description explaining how this training rela	ates to the wastewater treatment process.)			
m. F	Requi	red Items (must be attached to submittal, check off as complete	ed):			
A.	X	Course Learning Objectives				
В.	X	Criteria for Successful Completion by Operators				
C.		Agenda (timed with instructors identified and brief description of topics)				
D.		Credentials for All Instructors				
IV.	Addit	ional Attachments (required for distance learning courses, opti	onal for other training):			
A. B. C. D.		Instructional Design (developed by whom/their credentials) Curriculum Content (subject matter experts/their credentials) Required Assignments and/or Examinations (type, passing s Mandatory Time Constraints (deadlines, granting of extension	core, etc.)			
V. <u>s</u>	Signa	ture of Sponsor's Contact Person				
atter	idees	that all information provided with this application is accurate to and credits to be awarded to them will be forwarded on a Division of Compliance Assistance (within 30 days of completing	"Continuing Education Activity Report" to the			
Print	ed Na	ame and Title: Janet Cole, Education Coordinator				
Sign	ature	and Date: Aut Ole	4-8-2013			