



# Kentucky Rural Water Association

Helping water and wastewater utilities help themselves

April 8, 2008

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PUBLIC SERVICE  
COMMISSION

Ms. Stephanie Stumbo, Executive Director  
Public Service Commission  
P. O. Box 615  
Frankfort, KY 40602-0615

2008-134

Dear Ms. Stumbo:

Kentucky Rural Water Association will host its 2008 Operator Expo at the Nelson County Fair Grounds in Bardstown, Kentucky on May 21-22, 2008. We request that this training be approved for commissioners as referenced in HB-75, KRS 74.020.

Please find enclosed a training summary, which includes a timed agenda, a description of each session, and speaker biographies. Approval for this training session has also been submitted to the Kentucky Boards of Certification for Water Treatment and Distribution System Operators and Wastewater System Operators. A copy of that application is included.

With this letter and enclosures, Kentucky Rural Water Association is requesting the approval of six (6) hours for commissioner and board member training. If additional information is needed, please do not hesitate to call.

Sincerely,

Clem Wethington  
Education Director

Enclosures

**Kentucky Rural Water Association  
Operator Expo  
Nelson County Fairground, Bardstown, Kentucky  
May 21 -22, 2008**

**Training Summary/Timed Agenda**

**Learning Objective:**

The objective of these sessions is to introduce and explain processes and procedures that will enhance operations of water and wastewater utilities. Attendees will learn how various products can be utilized and how to develop and implement procedures to operate equipment more efficiently. The training will also demonstrate record keeping strategies and how to develop communication channels.

**Criteria for Training Credits:**

Attendees will be granted credit for actual time attending or participating in the training sessions. The maximum number of credit hours each day will be three (3) hours. The maximum number of continuing education credit hours for this two day course will be six (6) hours.

**DAY ONE – May 21      2:00 P.M. - 5:15 P.M.**

**2:00 – 3:00**

**Session 1:                      Pumps and Controls for Water and Wastewater  
Presenter:                      Steve Gott, S&K Equipment Company**

Water and wastewater systems use pumps and motors for various functions. In water systems pumps and motors are necessary from the intake all the way through the treatment and distribution process right up to the delivery of potable water to the consumer. In wastewater systems pumps and motors may be used from individual customer grinder pumps, through sewage lift stations, and through the wastewater treatment plants. This session will explain the different types of pumps and where each is used, types of motors, and the options available to control the operation of the pumps and motors. Installation, maintenance, and energy management will also be addressed. The presentation will include:

1. Control valves and devices
2. Pump installation procedures
3. Packaged booster stations – above and below ground
4. Wastewater recirculation pumps
5. Wastewater sludge pumps
6. Packaged wastewater lift stations

**3:00 – 4:00**

**Session 2:                      Restoring Residuals, Reducing DBP's, Regaining Flows  
Presenter:                      Scott Hiatt, Re-Ox**

This session will explore new technology that removes scale and film deposits that attach to all surfaces in contact with water, including stainless steel, iron, galvanized, and plastics. Treatment of the scale and film deposits in a water distribution system will result in benefits which include improvement of chemical function in water, higher equipment efficiency, and longer equipment life. Changing the properties of water chemistry will lower chemical accumulation and help to control BOD, COD, and TSS levels and lower impact of wastewater treatment costs.

**4:15 – 5:15**

**Session 3:                      Sampling Procedures for Water and Wastewater  
Presenter:                      Ama Bentley, Appalachian States Analytical**

This session will provide one (1) hour of training and will focus on the sampling requirements and procedures for water and wastewater systems. The presentation will include:

- 1 Proper sample collection and preservation methods
- 2 Holding times for water and wastewater samples
- 3 EPA approved methods for water and wastewater samples
- 4 Laboratory procedures and reporting requirements

**DAY TWO – May 22 8:00 A.M. – 11:15 A.M.**

**8:00 – 9:00**

**Session 1: Digging and Trenching Equipment**  
**Presenter: Bill Lenberger, Ditchwitch of Kentucky, Inc.**

Many of the components of a water or wastewater system are located underground. This session will provide one (1) hour of instruction on the various types of equipment used to install and maintain this buried infrastructure. The presentation will include:

1. Types of equipment for various locations, soils, and terrain
2. Operation and maintenance procedures
3. Safety considerations for traffic and by-standers
4. Precautions when operating near open pits, trenches, and buried utilities

**9:00 – 10:00**

**Session 2: Pipe Replacement Contingency Planning**  
**Presenter: Roger Riddle, JCM Industries, Inc.**

The pipe network within water distribution systems and wastewater collection systems periodically need replacement. The utility personnel and the decision making boards should have a contingency plan in place for pipe replacement. Some of the things to be considered include current and future demands, location, sizing, type of materials, and funding. Other considerations may include pipe replacement using a pipe-bursting technique or pipe replacement prior to major construction or paving projects. A pipe replacement contingency plan will enable water and wastewater systems to be proactive and avoid pipe failures and unexpected budget demands.

**10:15 – 11:15**

**Session 3: Trench Safety**  
**Presenter: Scott Wallace, Infrastructure Systems, Inc.**

Excavation cave-ins are a major source of fatalities within the water and wastewater industry each year. Many operators are injured, some of them with serious long term disabilities. Mistakes leading to these situations include working alone, working where soil has been stockpiled at the very edge of the trench, not considering the vibrations from a backhoe operating near the excavation, no ramp or escape ladder, no sloping back of the trench walls, and most important no shoring of the walls to shield the workers. This session will address these issues and provide information on the regulatory requirements to provide a safe work environment.

# *S & K Equipment Company*

STEVEN GOTT  
P. O. Box 342  
VINCENNES, IN 47591  
(812) 886-0245

## Work Experience

2002	S & K Equipment Company, Owner
1988-2002	Straeffer Pump & Supply Director of Sales Education; Outside Sales, and Manager of Service Dept.
1985-1988	Hague Equipment Service, Sales, and Design
1982-1985	Graham Equipment Sales and Service

## Educational Background

Have attended various pump and systems courses as well as valve and hydraulic schools  
Extensive instruction on controls and systems  
Graduate of National Radio Institute (NRI) – Electronics  
Credited gas chlorination, equipment & design classes  
Dale Carnegie courses

Scott Hiatt  
RE-Ox LLC  
1216 North 155<sup>th</sup> Street  
Basehor, KS 66007  
Ph.: 913.583.9916

**Scott Hiatt** has over 30 years of experience in water supply distribution systems. He achieved his expertise through his experience as a system operator as well as a municipal water department superintendent. Scott has been with RE-Ox for over a year.

RE-Ox is a breakthrough technology that removes scale and film deposits, the complex mixture of inorganic and organic material accumulated amidst a matrix attached to all surfaces in contact with water. This product has an impact on both water and wastewater. With water rates and wastewater treatment fees on the rise, plants are now being monitored and charged for excess BOD, COD, or TSS. Changing the properties of process water chemistry with RE-Ox will lower chemical accumulation, which lowers impact on wastewater treatment fees.

Re-Ox LLC is a member of the American Water Works Association, the National Rural Water Association, and numerous state/regional water associations.

## **APPALACHIAN STATES ANALYTICAL, LLC**

**P. O. Box 520**

**Shelbiana, KY 41562**

**Phone: 606.437.5616**

**Fax: 606.437.0615**



### **Ama B. Bentley**

Ama B. Bentley began working in a coal laboratory in 1974 and in 1978 opened the Pikeville office of McCoy and McCoy Laboratories. Ama managed the Eastern Kentucky Division of McCoy & McCoy Labs until 1998.

In 1998 she left to open her own environmental laboratory service, Appalachian States Analytical, LLC. Ama's laboratory is located in Shelbiana, Kentucky.

As the daughter of a coal miner, Ama Bentley was born and raised in the hills of Pike County, Kentucky. She attended Murray State University, Prestonsburg Community College, and Pikeville College.

**DitchWitch of Kentucky**  
**400 Sparrow Drive**  
**Shepherdsville, Kentucky**  
**Mail To: P.O. Box 6556 Shepherdsville, KY 40165**  
**502-543-3309**

**Bill Lenberger President - DitchWitch of Kentucky**

Bill Lenberger made the decision to become a DitchWitch dealer over 38 years ago. He presides over DitchWitch of Kentucky operations in Shepherdsville and Lexington, Kentucky as well as Evansville, Indiana. DitchWitch of Kentucky sets a high standard with their top-quality products and their commitment to customers. The dealerships provide a full range of services including rental, leasing, tow and show, parts, on-site service, and full service departments. DitchWitch of Kentucky also offers 24/7 emergency assistance, ensuring that customers get the help they need as soon as the need arises.

Bill describes his company as a family-owned business that shares a strong commitment to customers and employees. People who work in the underground construction industry know that every job demands a series of critical decisions. Those who know Bill Lengerger and DitchWitch of Kentucky can always count on one sure thing: high-quality equipment backed by the absolute best in customer support.

## **ROGER RIDDLE, Sales Representative**

### **JCM Industries, Inc.**

2296 West 900 South

Trafalgar, IN 46181

Ph: 317.538.7439

Fx: 317.878.5782

E-mail: [rriddle@jcmind.com](mailto:rriddle@jcmind.com)

JCM Industries, incorporated in 1976 in Nash, Texas, is a leading manufacturer of pipe fittings and fabrications for the repair, connection and branching of all types of pipe.

Roger Riddle has been with JCM Industries for the last eight years as the Territory Product Specialist, covering Ohio, Kentucky, Indiana, West Virginia, Western Pennsylvania, and Southern Michigan. With 24 years experience in the industry, Roger has been called upon throughout his territory as someone that can provide training for continuing education credit. JCM employees take personal pride in production and delivery efforts and a commitment to a high standard of excellence for customer service. This commitment is demonstrated by Mr. Riddle with his participation in, and support of the water industry through many association memberships.

**Infrastructure Systems, Inc.**

**260 West Vincennes St.**

**P. O. Box 148**

**Orleans, IN 47452**

**812.865.3309**

**Scott Wallace**  
**Project Manager**

Scott Wallace is currently employed at Infrastructure Systems, Inc. where he is a Project Manager. Mr. Wallace oversees the construction of water and sewer plants, wastewater collection and water distribution systems, and various other utility related projects. Over the past four years he has had numerous utility projects in Indiana, Kentucky, Georgia, and Ohio.

Before joining Infrastructure Systems in October, 2005, Scott worked for Reynolds, Inc. (June 2002-Oct. 2005) in the positions of sales representative and project manager. From September, 1998 to June, 2002, Scott worked for Kentucky Rural Water Association as the WKU Small System Circuit Rider. He also served seven years in the United States Air Force at McChord AFB in Washington as a C141B Operations Manager & Maintenance Crew Chief. He was the recipient of many meritorious awards and medals during his stay in the Air Force and he also qualified as a Persian Gulf War Era Veteran.

Scott earned his credits toward an Associate of Science Degree from Pierce College in Tacoma, Washington while in the service and successfully completed the one-year course in Water Treatment Plant Operations from the California State University School of Engineering in Sacramento, California.

# Application for Approval of Courses for Continuing Education Credit

Kentucky Division of Compliance Assistance / Operator Certification Program  
14 Reilly Rd., Frankfort, Kentucky 40601



## I. Course Sponsor Information

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

Kentucky Rural Water Association

B. Key Contact Person:

Name & Title: Clem Wethington Education Director

Address P. O. Box 1424

City, State & Zip Bowling Green, KY 42102-1424

Phone & Fax 270.843.2291 270.796.8623

Email j.cole@krwa.org

Web Page www.krwa.org

## II. General Course Information

A. Title: 2008 Operator EXPO

B. Location & Date/s Nelson Co. Fairground, Bardstown, KY May 21-22, 2008

C. Cost per Student or Group \$45

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

- Classroom       Web/Online       Laboratory       Exhibition  
 Field       CD-ROM       Video/Audio       Correspondence  
 Other (Explain) \_\_\_\_\_

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

Drinking Water Treatment &/or Distribution Operator Hours 6

Wastewater Treatment &/or Collection Operator Non-process Control Hours 4

Wastewater Treatment Operators Process Control Hours 2

**(Attach 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 & 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.  Needs Analysis of Participants (Designed by whom / methods / results)  
D.  Field Testing of Course (Developed & conducted by whom / audience / results)  
E.  Ongoing Course Evaluation (Methods for feedback & assessment / results to date)  
F.  Support Available to Participants (instructions / validation of content / references)  
G.  List of colleges, universities, regulatory agencies, etc. that have awarded credits for the course (provide semester hours and/or continuing education awarded).  
H.  Required Assignments &/or Examinations (type, passing score, etc.)  
I.  Mandatory Time Constraints (deadlines, granting of extensions, etc.)  
J.  Documentation of Results to Students (copy of certificate, letter, etc.)  
K.  Security Procedures (Operator identification, tracking of hours, exam proctors, 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 Water (within 30 days of completing the course when possible).

Printed Name & Title Clem Wethington Education Director

Signature & Date *Clem Wethington* March 27, 2008

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**For Division of Water Use Only**

Evaluated by:

- Drinking Water Board      Date \_\_\_\_\_
- Wastewater Board      Date \_\_\_\_\_

This course has been approved for the following continuing education credits (hours):

- Drinking Water Treatment Operator Hours \_\_\_\_\_
- Drinking Water Distribution Operator Hours \_\_\_\_\_
- Total DW Hours (if for both treatment and distribution) \_\_\_\_\_
- Wastewater Treatment &/or Collection Non-process Control Hours \_\_\_\_\_
- Wastewater Treatment Process Control Hours \_\_\_\_\_

Consideration of this course has been tabled or denied.

Reason Tabled (additional information needed)

Reason Denied

Reconsidered by:

- Drinking Water Board      Date \_\_\_\_\_
- Wastewater Board      Date \_\_\_\_\_

Results of Reconsideration (Provide narrative here and update cells above):

\_\_\_\_\_  
\_\_\_\_\_