



Kentucky Rural Water Association

Helping water and wastewater utilities help themselves

July 12, 2007

Ms. Beth O'Donnell, Executive Director
Kentucky Public Service Commission
P. O. Box 615
Frankfort, KY 40602

RECEIVED

JUL 16 2007

PUBLIC SERVICE
COMMISSION

Case No. 2007-00311

Dear Ms. O'Donnell:

Kentucky Rural Water Association will host its 28th Annual Technical Conference and Exhibition, *Strength in Numbers*, at the Galt House Hotel in Louisville, Kentucky on August 27-29, 2007. We respectfully request that this training be approved for commissioners as referenced in HB-75, KRS 74.020.

Please find enclosed a timed agenda, a description of each session, and speaker bios. The following two items are herein referenced with this application:

- 1) Copies of written materials given to commissioners during the conference will be collected and forwarded to the PSC after the conference;
- 2) Approval for continuing education credit for Drinking Water and Wastewater Operators has been requested from the Kentucky Board of Certification of Water Treatment and Distribution System Operators and the Kentucky Board of Certification of Wastewater System Operators. A copy of that correspondence is included.

With this letter and enclosures, Kentucky Rural Water Association requests the approval of a total of twelve (12) hours for commissioner/board member training. If additional information is needed, please do not hesitate to call.

Sincerely,

Clem Wethington
Education Director

jc

Enclosures

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: 28th Annual Technical Conference and Exhibition - Strength in Numbers

B. Location & Date/s Galt House Hotel & Suites, Louisville, KY August 27-29, 2007

C. Cost per Student or Group \$125.00

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	<u>12</u>
Wastewater Treatment &/or Collection Operator Non-process Control Hours	<u>8</u>
Wastewater Treatment Operators Process Control Hours	<u>4</u>

(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* July 12, 2007

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):



Kentucky Rural Water Association

Helping water and wastewater utilities help themselves

July 12, 2007

Facsimile #: 502.564.9720

Pages: 18

Ms. Lisa Butler
Operator Certification Section
Division of Compliance Assistance
14 Reilly Road
Frankfort, KY 40601

Dear Ms. Butler *Lisa*

Please present the enclosed "Application for Approval of Courses for Continuing Education Credit" to the Kentucky Board of Certification of Water Treatment and Distribution System Operators and the Kentucky Board of Certification of Wastewater System Operators at their next respective meetings, as outlined below:

TOPIC	DATE(S)	LOCATION	TYPE
28 th Annual Technical Conference and Exhibition – <i>Strength in Numbers</i>	August 27-29, 2007	Galt House Hotel Louisville, KY	DW/WW

Resumes for the speakers have been enclosed along with the training summary that includes a brief description and timed agenda for each session. Should you have any questions, please do not hesitate to contact the Kentucky Rural Water Association office at 270.843.2291.

Sincerely,

Janet Cole

Janet Cole
Education Coordinator

Enclosures

Kentucky Rural Water Association
28th Annual Technical Conference and Exhibition – *Strength in Numbers*
August 27-29, 2007
Galt House
Louisville, Kentucky

TRAINING SUMMARY

Learning Objectives: This 3-day Annual Conference will be directed toward the operators, managers, office personnel, and decision-makers of water and wastewater utilities throughout Kentucky. The conference theme, *Strength in Numbers*, will be confirmed as we rely on the expertise of peers, technical assistance providers, industry professionals, and governmental agencies, to share their knowledge and professionalism with those in the water and wastewater industry.

Day One – Monday, August 27, 2007

Topic #1 8:30-9:30 a.m. ***Protecting and Maintaining Equipment*** (NPC)

Craig Morgan, Loctite Division of Henkel

This session will explain how special products can be used to protect and assure proper operation of equipment and components in water and wastewater systems. Topics of discussion will include chemistry makeup of the products, controlling corrosion and vibration, protecting equipment from thermal cycling, pipe connections, and thread sealing.

Topic #2 9:40-10:40 a.m. ***Scale and Film Removal*** (PC)

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.

Topic #3 10:50-11:50 p.m. ***Pumps and Motors*** (PC)

Steve Gott, S&K Equipment

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.

11:50 A.M.-1:00 P.M.

LUNCH ON YOUR OWN

Topic #4 1:00-2:00 p.m. ***Innovative Metering Solutions*** (NPC)

Tom Lindner, Badger Meter Company

Various types of meters are used in the water and wastewater systems to determine product usage, flow volumes, and also chemical addition in treatment processes. Meter accuracy in treatment processes is necessary in order to correctly complete sampling and reporting requirements for state and federal regulations. Meters have been described as the “cash registers” for water and wastewater systems. Since wastewater fees are typically based upon the amount of water that passes through a meter it is very important to have accurate individual customer meters to assure sufficient revenue for water and wastewater systems. This session will demonstrate some of the newest technologies in meters and explain how these innovations can help water and wastewater systems operate more efficiently.

Topic #5 2:10-3:10 p.m. ***Hydrants, Valves, & Restraint Systems*** (NPC)

Tony Omohundro, Mueller Company

Valves and hydrants are important components of water and wastewater systems. Hydrants are used in water systems for fire protection and water quality flushing programs. In wastewater treatment plants hydrants are used primarily for cleaning basins, flumes, and equipment. Valves are also used in water and wastewater systems but some types of valves may not be suitable for wastewater systems. This session will address valves used in water systems, types of valves to address the corrosion and flow characteristics of wastewater systems, and the proper installation, operation, and maintenance of valves and hydrants. This session will also explain the importance of adequate restraint necessary to maintain the integrity of the piping network in water distribution systems, sewer force mains, and pumping stations.

Topic #6 3:20-4:20 p.m. ***Control Valves*** (PC)

David Windler, Watts Water Technologies, Inc.

Water and wastewater systems are equipped with valves for various functions. Manual operation of these valves is not efficient or feasible. Control valves play an integral part in the operation of water and wastewater systems. Types of control valves commonly found in water and wastewater systems include float, solenoid, pump control, rate of flow, pressure reducing, check valves, and altitude valves. Control valves can be actuated by various means including mercury switches, pressure sensors, electrical energy, radio signals, and other methods. Like many other components of water and wastewater systems, control valves require specific maintenance and troubleshooting practices. This session will address the various applications, installation requirements, and operation of various control valves.

Day Two – Tuesday, August 28, 2007

Topic #1 1:30-2:30 p.m. **Public Relations**
Barbara Crow, Louisville Water Company (NPC)

Water and wastewater systems provide products and services to the public. A good public relations program that provides information to consumers on such things as services provided, regulatory requirements, construction projects, and health issues helps to maintain confidence within the community. Ten years ago the Louisville Water Company initiated a public relations program to promote the health benefits, convenience, and value of tap water. Since 1997 the Louisville Water Company has given away over one million "Pure Tap" empty bottles to fill with tap water from anywhere in Louisville. The bottles are used at homes, schools, civic meetings, and sporting events. The "Pure Tap" program includes education programs for children and adults. This session will demonstrate the value of a public relations program for local water and wastewater systems.

Topic #2 2:40-3:40 p.m. **ConnectKentucky**
Hilda Legg, ConnectKentucky (NPC)

Water and wastewater systems are relying more and more on the internet to conduct research, download regulations, transfer data to regulatory agencies, and communicate with consumers and other industry personnel. ConnectKentucky coordinates the planning, funding, deployment and adoption of high-speed internet, also called broadband, and related technology at the local level and is charged with carrying out Kentucky's "Prescription for Innovation." The Prescription for Innovation is Kentucky's comprehensive plan to accelerate technology growth, particularly in the areas of broadband service and technology use. Through the work of ConnectKentucky and its partners, Kentucky's Prescription for Innovation has led to Kentucky being recognized as the national leader in technology acceleration. ConnectKentucky supports the technology planning efforts of Kentucky's executive branch, the Kentucky General Assembly and local community leaders and maintains a strategic alliance of technology-minded companies, universities and government entities to share knowledge, ideas, and resources.

Topic #3 3:50-4:50 p.m. **Compliance and Electronic Transfers**
Donna Marlin, Kentucky Division of Water (NPC)

Federal and state regulatory agencies are discovering that the use of electronic transfers of data will reduce the number of violations that water and wastewater systems have been experiencing. Some states have already set up procedures for all compliance data to be electronically submitted. Electronic transfer of data reduces the chance of human error or the transposing of analytical data and allows extra time for the water or wastewater personnel or their contract labs to correct any detected problems before it becomes a non-compliance issue. This session will provide information about what is currently being done in Kentucky and what the plans are for the future. It will also explain the necessity for systems to have adequate computers and internet connections in order to meet the new EPA data transfer requirements.

Day Three – Wednesday, August 29, 2007

8:30-11:50 a.m. **Concurrent Sessions**

Session 1 8:30-9:30 a.m. **Pipe Replacement Contingency Planning** (NPC)
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.

Session 1 9:40-10:40 a.m. **Telemetry and SCADA** (PC)
Alan Morrison, C.I. Thornburg Co.

This session will explain how telemetry and SCADA can be used in the treatment processes and operations of water and wastewater systems. The presentation will explain the basic components such as transmitters, receivers, sensors, and means of conveyance and how to integrate with existing equipment and applications. The instructor will also demonstrate how telemetry and SCADA can be used for treatment, sampling and monitoring, operation functions, and security systems and alarm systems.

Session 1 10:50-11:50 a.m. **Industry Professionalism** (NPC)
Bob Cashion, Southeastern Laboratories, Inc.

This session will focus on how social and regulatory changes are affecting the water and wastewater industry. The presentation will explain how new regulations have impacted the water and wastewater industry. The session will demonstrate the need to have skilled personnel and not just "button pushers." Differences in work ethics within the generations will be addressed. The instructor will explain how appearance, attitude, and public perception depict industry professionalism and how professionalism improves performance.

Session 2 8:30-9:30 a.m. **Budgets and Rate Structures** (NPC)
Carryn Lee, Kentucky Rural Water Association

Water and wastewater systems need to have good working budgets and have adequate rates and rate modification procedures in place. This session will include discussion on:

Revenue Requirement - A basic analytical service to determine whether a utility has user rates adequate to meet the revenue requirements of the utility's operations.

Cost of Service - A comprehensive examination of the true and proposed costs associated with providing drinking water or wastewater services. Cost-based rates can only be achieved through a systematic approach to determining cost.

Rate Analysis - An analysis used to design a rate or rates that meet revenue requirements and spread the costs appropriately to the types of customers being served.

Purchase Adjustments - For utilities that have received an increase from their wholesale water supplier or have received an increase in wastewater treatment costs by another contracted utility.

Session 2 9:40-10:40 a.m. **KRWA Finance Programs** (NPC)
Bob Pennington, Morgan Keegan & Company

Decision makers need to know what options are available when it comes to financing water and wastewater projects or to obtain necessary equipment. This session will provide information on:

Municipal Bond Overview & Terminology.

Interim Finance Program - provides construction funding for water and sewer systems that have received a permanent loan commitment from the United States Department of Agriculture-Rural Development ("RD"). The program structure provides communities access to short-term loan funds at favorable interest rates during the construction period.

Flexible Term Finance Program - provides financing for a variety of projects with loan terms up to thirty-five years. The program aims to make the process of obtaining funds less complicated than its alternatives and to have funds available as quickly as possible. The program has similarities to that of a traditional bond issue; however, it also has the efficiencies of a pooled structure.

Other Funding Options

Session 2 10:50 -11:50 a.m. **Board and Manager Training Initiative** (NPC)
Andy Lange, Kentucky Rural Water Association

The Kentucky Rural Water Association, through SRF set-aside funding from the Division of Water and the Kentucky Infrastructure Authority, has developed three new courses for water and wastewater utility managers and decision makers. This session will introduce these new courses that focus on board and manager communications and interactions, financial reporting to the board, conducting effective board meetings, and the challenges associated with operating and managing a small municipal utility. These courses will be available, without charge, to any member utility and can be conducted at the utility's own facilities at regular meetings or at special called meetings.

Session 3 8:30-9:30 a.m. **Watershed Protection** (NPC)
Peter Goodmann, Kentucky Division of Water

Federal and state agencies have developed watershed protection strategies. There has been a considerable amount of research performed in Kentucky's watersheds. This session will demonstrate some of the research findings and show how water and wastewater systems continue to impact these resources. Information will be provided on what is being done on a state level to protect watersheds throughout the state. This session will also explain the protection options available on a local level and the role of the utility decision makers and management.

Session 3 9:40-10:40 a.m. **Drought and Water Shortage Response Plans** (NPC)
Bill Caldwell, Kentucky Division of Water

Kentucky is currently experiencing moderate to severe drought conditions as a result of a substantial deficit in precipitation. Drought can increase the potential for unsustainable demands from water customers to overwhelm a water supplier's ability to treat, pump or store adequate quantities of potable water. In order to be prepared to deal responsibly with water supply shortages that often result from these rainfall deficits, the Natural Resources and Environmental Protection Cabinet has developed a Water Shortage Response Plan. This plan specifies the respective roles of state and local agencies in the event of a water supply shortage. Another factor that is under consideration is the effect of wastewater discharges on the receiving streams. The changes in hydraulics and organics have the potential to impact aquatic life and water quality. This session address these issues and explains what water and wastewater systems should do during drought conditions.

Session 3 10:50-11:50 a.m. **Community Education Programs** (NPC)
Clay Kelly, Strand Associates

Utilities must comply with various agency requirements as well as maintain information on routine operations. Any change in regulations, operations, or services has the potential to affect members of a community. Water and wastewater system personnel should make efforts to keep their customers informed. This session provides information on community education programs that promote positive impacts.

Request for Continuing Education Credit

Monday, August 27, 2007	6 hours
Tuesday, August 28, 2009	3 hours
Wednesday, August 29, 2009	3 hours
Total hours requested:	12 hours

Criteria for Training Credits: Credit will be granted for actual time attending or participating in the training sessions. The maximum number of credit hours for the 3-day session will be twelve (12) with the daily breakdown as listed above. An individual sheet will be provided to each commissioner/board member to record their presence at the sessions. This sheet will be retained as a record of all persons attending the approved training.

Craig Morgan

Craig Morgan Adhesives & Sealants Specialist

4350 Accomack Drive

Louisville, KY 40241

Ph: 502.429.8997

Fx: 502.327.0805

Craig Morgan has an extensive mechanical background that makes him uniquely qualified to teach Henkel Loctite® Maintenance Repair Adhesives and Sealants.

Craig started his career onboard ship in the Navy in Ship Fitting and Damage Control. Following his time in the service, he built special equipment for a company that cut insulation for GE Appliance Park in Louisville, Kentucky. After studying to be a Machinist, he eventually ran an internal company with a five-man shop. Upon leaving there, Craig helped in the up-start of a veneer manufacturing company where he oversaw a four-man maintenance crew and was in charge of purchasing. From there, Mr. Morgan came to Loctite® as an MRO Trainer. He has been a trainer for Loctite for 19 years in maintenance related products and technology.

LOCTITE

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 155th 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.

TOM LINDNER

Badger Meter Company
4545 W. Brown Deer Road
PO Box 245036
Milwaukee, WI 53223

tlinder@badgermeter.com

Tom Lindner is the Distribution Sales Manager for Badger Meter, Inc., a leading marketer and manufacturer of products using flow measurement and control technology, serving industrial and utility markets worldwide (public and private). Its products are used to measure the flow of liquids in a variety of applications. Products produced for the water utility markets make up a complete line of flow meters, including positive displacement, turbo, fire service and compound flow meters, and meter reading technologies, using telephone, radio frequency, and satellite technologies.

Founded in 1905, Badger Meter has earned an international reputation as a leader in the development of flow measurement technology.

Tony Omohundro, Sales Representative

Mueller Company
147 Avawam Drive
Richmond, KY 40475
jomohundro@muellercompany.com
(859) 229.0210

Tony Omohundro, has worked for Mueller Company since January 1, 2003 as Sales Representative. Tony is a graduate of the University of Kentucky with a B.S. in Mechanical Engineering. In his position as Sales Representative, Tony has provided numerous hydrant training sessions throughout the state.

Mueller Co. has a long history of trust and leadership in the American flow control industry spanning more than a Century. Mueller Co. is the largest full-line supplier of flow control products used in distribution systems for municipal potable water and natural gas, and is ISO certified. With years of industry leadership and a pioneering spirit as its base, Mueller Co. has in place the elements necessary to serve its customers most effectively. Products, process, and people - all have been finely tuned to provide the customer with the full compliment of services necessary to uphold Mueller's end of a successful partnership.

David Windler

Watts Water Technologies, Inc.

Cell ph:630.988.5516
Office/fax: 414.762.3137

David Windler holds a BA in economics from the University of Wisconsin Milwaukee (1974). In 1978 he moved to San Jose, California and opened an industrial PVF supply branch which eventually specialized in automated valves of all types. In 1985 David went to work for the Watts/Ames representative in Northern California and Nevada where he handled Watts Industrial Ball valves, automation, and the Automatic Control Valves. In that capacity they stocked unpipec valves and built each valve to the customer's desired configuration. David also handled all field service and start up requirements. Mr. Windler moved back to Milwaukee in 2003 and was hired by Watts to be the Midwest Regional Sales Manager for the ACV division, which markets to the plumbing/commercial market with the Watts control valves and the Waterworks and Fire prevention markets through the Ames product groups.

Barbara Crow, Public Information Manager

Louisville Water Company
550 South 3rd Street
Louisville, KY 40202
Ph.: 502.569.3600

Barbara Crow

My most important roles in life are mom and wife! I have two children, Ben and Grace. My husband, Mike, is a freelance video photographer. I'm from a family of 10, grew up in Louisville, Kentucky and graduated from Western Kentucky University. I am a cancer survivor.

Louisville Water Company

Public Information Manager: Corporate Communications, Media & Community Relations, Customer Ombudsman, Employee Communications, Corporate Giving (Metro United Way, Water for People, Fund for the Arts), Special Events Coordinator

Broadcast Journalism

WHAS-TV, Louisville, Kentucky
WBKO-TV, Bowling Green, Kentucky
WKCT-Radio, Bowling Green, Kentucky
Public Information Department, Governor John Y. Brown
(Reporter, video tape editor, anchor, writer, producer-8 years new experience)

Professional

Public Relations Society of America (PRSA), American Water Works Association, Friends of the Ohio Education Committee, Ohio River Sweep Coordinator, Metro United Way Campaign Coordinator, Fund for the Arts Campaign Coordinator, American Cancer Society Public Relations Committee

Hilda Legg



Governmental Affairs Consultant

As Governmental Affairs Consultant, Hilda assists ConnectKentucky's business development, providing strategic direction regarding public relations. She advises, represents, and fosters key relationships on various government levels on behalf of ConnectKentucky.

Prior to joining ConnectKentucky, Hilda served as the 15th Administrator of the Rural Utilities Service. Hilda was appointed by President George W. Bush and confirmed by a unanimous vote of the U.S. Senate September 27, 2001. As Administrator of the Rural Utilities Service (RUS), Hilda administered to the infrastructure needs of rural America through loan and grant funds totaling over \$9 billion for Water and Environment Programs, Rural Telecommunications Programs and Rural Electrification Programs.

Education

- B.A., Campbellsville University
- Master's Degree, Western Kentucky University
- Senior Executive Program at Harvard University's John F. Kennedy School of Government

Donna S. Marlin, Drinking Water Branch Manager

Department for Environmental Protection
Division of Water
14 Reilly Road
Frankfort, KY 40601

Current Position:

Manager, Drinking Water Branch, Division of Water

Previous Positions within Department for Environmental Protection:

Environmental Engineer Assistant, Drinking Water Branch
Co-op Engineer, Facilities Construction Branch
Office Supervisor, Enforcement Branch, Certification Section

Education:

B. S. in civil engineering, 1995
University of Kentucky, Lexington, Kentucky

ROGER RIDDLE, Sales Representative

JCM Industries, Inc.

2296 West 900 South
Trafalgar, IN 46181
Ph: 317.538.7439
Fx: 317.878.5782
E-mail: riddle@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.

ALAN S. MORRISON, P.E.

C. I. THORNBURG CO.
4034 ALTIZER AVENUE
HUNTINGTON, WV 25722
Alan.morrison@cithornburg.com

The C. I. Thornburg Co. was founded in 1931 in Huntington, West Virginia. Over the years the company has expanded into a supplier for water and wastewater needs ranging from a full line of pipe, valves, and fittings; a complete line of engineering products including all types of pumps, control and telemetry systems, and specialty valves; chemicals for water and wastewater treatment; automated meter reading systems; and complete fabrication capabilities through 42" ductile iron pipe. In April 2006 the Engineered Products Division expanded to increase their capabilities for in-house control systems design and construction by opening a control panel shop. They now offer local design, control panel fabrication and integration of control systems covering the entire spectrum of water and wastewater technology.

Alan S. Morrison is Vice President of the C. I. Thornburg Company. After earning his degree from Virginia Tech, Alan Morrison joined the company in 1977. In his many years with the company, Mr. Morrison has provided training on various topics for water and wastewater operators, including telemetry and SCADA.

Bob Cashion, C.W.T.
District Manager
Southeastern Laboratories, Inc.

16+ years experience
Class IV Water Certification
Class IV Wastewater Certification

Graduate: Water & Wastewater Tech. School
Neosho, MO

Missouri Southern State College
Environmental Tech.

Western KY University
Environmental Sciences

Positions
Held:

Superintendent
General Manager
Public Utilities Director
Senior Territory Manager

P. O. Box 10189
Goldsboro, NC 27532-0189

Bus: (919) 751-1001
Res: (270)782-0023

Total Water & Waste Treatment-Services & Products

BIOGRAPHY

CARRYN LEE

Prior to coming to work for the Kentucky Rural Water Association, Carryn Lee was employed for 24 years with the Kentucky Public Service Commission. Most recently she served as Assistant Director of the Financial Analysis Division of the Kentucky Public Service Commission. The Division is responsible for determining the revenue requirement and rate design for all jurisdictional utilities. Carryn also served as Branch Manager of the Water and Sewer Rate Design Branch. This branch is responsible for preparing cost of service studies and designing water and sewer rates. The branch additionally reviews water and sewer tariff filings, purchased water adjustments and non-recurring charge cases filed with the Commission.

Carryn has been involved in various research and studies conducted at the Commission, including The Design and Use of System Development Charges, Rate Indexing, Phased Rates, Fire Protection Rates and Extension of Service issues.

Carryn began employment as a Rate Analyst with the Kentucky Rural Water Association in October 2002. In this position, she will prepare cost of service studies for water and sewer utilities enabling them to meet state and federal requirements of charging cost based rates.

Carryn has a B.A from Western Kentucky University and an M.P.A. from Kentucky State University. She has attended various training seminars including the Annual Regulatory Studies Program, NARUC Utility Seminars, Eastern Utility Rate Seminar and a Cost of Service Rate Making Seminar. Carryn has served on the NARUC Staff Subcommittee on Water and is an active member of the American Water Works Association.

A native of Pulaski County, Carryn currently resides in Harrodsburg. Her interest include traveling, water skiing and riding horses.

Bob Pennington, First Vice President

Morgan Keegan & Company
489 East Main Street
Lexington, KY 40507
Phone: 859.232.8211

Mr. Pennington joined Morgan Keegan & Company as First Vice President in 2003. Prior investment associations have been with Kirkpatrick Pettis and Hilliard Lyons. Earlier experience includes employment with the Kentucky State Office of Financial Management and Economic Analysis, where he worked specifically with the Kentucky Infrastructure Authority as a financial analyst.

During his five years with the Kentucky Infrastructure Authority, Mr. Pennington was involved with the structuring and sale of several federal and state revolving loan program bonds, various interim financing note issues and bond program financings.

While Mr. Pennington's concentration has been with infrastructure finance, he has also worked on numerous other financing efforts, to include school district and healthcare finance.

Mr. Pennington has extensive experience in various computer software programs to include Micro-Muni Debt, Sizing and Refunding, plus experience in spreadsheet software, including Lotus and Excel.

Mr. Pennington is a Kentucky native and currently lives in Frankfort. He is a 1988 graduate of the University of Kentucky, with a Bachelor of Business Administration with a concentration in finance.

BIOGRAPHY

Andrew C. Lange

Andy Lange is the Assistant Director for the Kentucky Rural Water Association (KRWA) and has been employed there since 1989. Prior to joining KRWA, Mr. Lange worked for the Barren River Area Development District for five (5) years, providing administrative and financial assistance to local governments in the ten-county BRADD region. Mr. Lange has earned a Bachelor of Science in Geography and a Master of Public Administration from Western Kentucky University in Bowling Green, Kentucky.

As Assistant Director, Mr. Lange is involved with all management and administrative activities of the Association. He was originally responsible for performing loan sub-servicing under the Asset Management Program contract with National Rural Water Association (NRWA) for eight (8) years, ending in 1997. He also currently oversees KRWA's partnership with Western Kentucky University (WKU). These programs are the WKU Small System Circuit Rider, the Utility Management Institute (UMI), and the Technology Demonstration Project. Mr. Lange received the "Field Representative of the Year" award at NRWA's 1996 Annual Conference.

Mr. Lange's other responsibilities at KRWA include: coordinating and monitoring internal membership activities, producing and editing KRWA printed publications, and assisting in the administration of KRWA finance programs. In addition, Mr. Lange has been involved in the production of over seventy-five operation and maintenance manuals for water systems, has produced the final report for the Kentucky River Authority Water Counts project, and has participated in, and written, Operation Review studies for three (3) water and wastewater utilities since 1995.

Andy is a native of Dallas, Texas and has lived in Bowling Green, Kentucky since 1962. He is married to Janice Sims Lange, a Catholic Elementary School Principal, and has two children, Katherine and Jacob.

Peter Goodman, Groundwater Branch Manager

Department for Environmental Protection
Division of Water
14 Reilly Road
Frankfort, KY 40601

The mission of the Groundwater Branch is to establish and implement a comprehensive groundwater program that manages, enhances and protects the groundwater resources of the commonwealth for present and future generations through regulation technical assistance and collection of resource information.

Bill Caldwell, Division of Water

Department for Environmental Protection
Division of Water
14 Reilly Road
Frankfort, KY 40601

The Kentucky Division of Water continuously monitors hydrologic conditions throughout the state, including precipitation, streamflows, lake elevations and various drought indices. This information is used to detect emerging drought conditions, to identify the locations and severity of drought and to provide timely and appropriate public notification.

D. Clay Kelly, PE

Strand Associates, Inc.

325 West Main Street, Ste. 710
Louisville, KY 40202
Ph. 502.583.7020
Clay.kelly@strand.com

Education

B.S. Mechanical Engineering – University of Louisville, 1993

Registration

Professional Engineer in Kentucky, Civil

Field of Expertise

Design, project management and construction administration of community water supplies; Business development; Client maintenance; Right of way acquisition; and Staff training.

Positions Held

Strand Associates/PEH Engineers 1996-Present
Business Development/Project Engineer, Assistant Director of Marketing

Baptist Mission of Ethiopia 1993-1996
Water Development Engineer

Professional Experience

Water Development – Responsible for design, construction, and implementation of seven rural water systems for villages and communities in Ethiopia. These projects included both gravity and pump supplied systems, constructed under challenging conditions while working in the Amharic language. Water customers ranged from 150 to 3,000 people. Facilitated community meetings involving local customers and government officials; analyzed water needs and source quantity and quality; surveyed routes and facility sites; completed preliminary and final designs; developed construction schedule, materials list, and costs; wrote project reports in order to apply for funding; purchased and transported materials; oversaw importation of materials into Ethiopia; managed laborers; hand dug pipelines; hand mixed concrete and performed masonry work; cut, threaded and connected pipes. Projects included spring eye protection; stone masonry storage tanks up to 10,000 gallons; pump and motor sizing; distribution lines including pipe sizing, depth, material and routes, up to 16,000 lineal feet; overflow usage including buffer tanks, laundry facilities, and livestock watering troughs; distribution points of single and multi-tap outlets. Assisted in the retrieval and replacement of a water well pump which had fallen from the riser pipe in a 385' well shaft. Aided in design and construction of hand dug wells and surface mounted hand pumps. Provided assistance to erosion control programs, selecting new rural roadway routes, and designing improvements to existing roads.

Water Quality – Performed stream and river sampling on the Ohio River and its tributaries as part of the federal Combined Sewer Overflow program and for the regional Ohio River Valley Sanitation Commission.

Client Maintenance and Development – Responsible for developing new client base from which future projects will emerge. Extensive training focused around gaining working knowledge of several aspects of design engineering. These include: wastewater conveyance and treatment, water treatment and distribution, site development, industrial permitting and environmental regulation compliance, and comprehensive infrastructure planning.

Right of Way Acquisition – Served as Acquisition Agent/Negotiator on the Kentucky Transportation Cabinet's KY555 Project.

Presentations

"Water Development in Ethiopia"
American Society of Civil Engineers
International Right of Way Association
City of Elizabethtown Rotary Club

"Regional Water Supply – The Logan-Todd Project"
Kentucky Rural Water Association Training Seminars

Peter Goodman, Groundwater Branch Manager

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Division of Water
14 Reilly Road
Frankfort, KY 40601

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Donna S. Marlin, Drinking Water Branch Manager

Department for Environmental Protection
Division of Water
14 Reilly Road
Frankfort, KY 40601

Current Position:

Manager, Drinking Water Branch, Division of Water

Previous Positions within Department for Environmental Protection:

Environmental Engineer Assistant, Drinking Water Branch
Co-op Engineer, Facilities Construction Branch
Office Supervisor, Enforcement Branch, Certification Section

Education:

B. S. in civil engineering, 1995
University of Kentucky, Lexington, Kentucky

Bill Caldwell, Division of Water

Department for Environmental Protection
Division of Water
14 Reilly Road
Frankfort, KY 40601

The Kentucky Division of Water continuously monitors hydrologic conditions throughout the state, including precipitation, streamflows, lake elevations and various drought indices. This information is used to detect emerging drought conditions, to identify the locations and severity of drought and to provide timely and appropriate public notification.

Kentucky Rural Water Association
28th Annual Technical Conference and Exhibition – *Strength in Numbers*
August 27-29, 2007
Galt House
Louisville, Kentucky

TRAINING SUMMARY

Learning Objectives: This 3-day Annual Conference will be directed toward the operators, managers, office personnel, and decision-makers of water and wastewater utilities throughout Kentucky. The conference theme, *Strength in Numbers*, will be confirmed as we rely on the expertise of peers, technical assistance providers, industry professionals, and governmental agencies, to share their knowledge and professionalism with those in the water and wastewater industry.

Day One – Monday, August 27, 2007

Topic #1 8:30-9:30 a.m. ***Protecting and Maintaining Equipment*** (NPC)
Craig Morgan, Loctite Division of Henkel

This session will explain how special products can be used to protect and assure proper operation of equipment and components in water and wastewater systems. Topics of discussion will include chemistry makeup of the products, controlling corrosion and vibration, protecting equipment from thermal cycling, pipe connections, and thread sealing.

Topic #2 9:40-10:40 a.m. ***Scale and Film Removal*** (PC)
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.

Topic #3 10:50-11:50 p.m. ***Pumps and Motors*** (PC)
Steve Gott, S&K Equipment

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.

11:50 A.M.-1:00 P.M. LUNCH ON YOUR OWN

Topic #4 1:00-2:00 p.m. ***Innovative Metering Solutions*** (NPC)
Tom Lindner, Badger Meter Company

Various types of meters are used in the water and wastewater systems to determine product usage, flow volumes, and also chemical addition in treatment processes. Meter accuracy in treatment processes is necessary in order to correctly complete sampling and reporting requirements for state and federal regulations. Meters have been described as the “cash registers” for water and wastewater systems. Since wastewater fees are typically based upon the amount of water that passes through a meter it is very important to have accurate individual customer meters to assure sufficient revenue for water and wastewater systems. This session will demonstrate some of the newest technologies in meters and explain how these innovations can help water and wastewater systems operate more efficiently.

Topic #5 2:10-3:10 p.m. ***Hydrants, Valves, & Restraint Systems*** (NPC)
Tony Omohundro, Mueller Company

Valves and hydrants are important components of water and wastewater systems. Hydrants are used in water systems for fire protection and water quality flushing programs. In wastewater treatment plants hydrants are used primarily for cleaning basins, flumes, and equipment. Valves are also used in water and wastewater systems but some types of valves may not be suitable for wastewater systems. This session will address valves used in water systems, types of valves to address the corrosion and flow characteristics of wastewater systems, and the proper installation, operation, and maintenance of valves and hydrants. This session will also explain the importance of adequate restraint necessary to maintain the integrity of the piping network in water distribution systems, sewer force mains, and pumping stations.

Topic #6 3:20-4:20 p.m. ***Control Valves*** (PC)
David Windler, Watts Water Technologies, Inc.

Water and wastewater systems are equipped with valves for various functions. Manual operation of these valves is not efficient or feasible. Control valves play an integral part in the operation of water and wastewater systems. Types of control valves commonly found in water and wastewater systems include float, solenoid, pump control, rate of flow, pressure reducing, check valves, and altitude valves. Control valves can be actuated by various means including mercury switches, pressure sensors, electrical energy, radio signals, and other methods. Like many other components of water and wastewater systems, control valves require specific maintenance and troubleshooting practices. This session will address the various applications, installation requirements, and operation of various control valves.

Day Two – Tuesday, August 28, 2007

Topic #1 1:30-2:30 p.m. **Public Relations**
Barbara Crow, Louisville Water Company (NPC)

Water and wastewater systems provide products and services to the public. A good public relations program that provides information to consumers on such things as services provided, regulatory requirements, construction projects, and health issues helps to maintain confidence within the community. Ten years ago the Louisville Water Company initiated a public relations program to promote the health benefits, convenience, and value of tap water. Since 1997 the Louisville Water Company has given away over one million "Pure Tap" empty bottles to fill with tap water from anywhere in Louisville. The bottles are used at homes, schools, civic meetings, and sporting events. The "Pure Tap" program includes education programs for children and adults. This session will demonstrate the value of a public relations program for local water and wastewater systems.

Topic #2 2:40-3:40 p.m. **ConnectKentucky**
Hilda Legg, ConnectKentucky (NPC)

Water and wastewater systems are relying more and more on the internet to conduct research, download regulations, transfer data to regulatory agencies, and communicate with consumers and other industry personnel. ConnectKentucky coordinates the planning, funding, deployment and adoption of high-speed internet, also called broadband, and related technology at the local level and is charged with carrying out Kentucky's "Prescription for Innovation." The Prescription for Innovation is Kentucky's comprehensive plan to accelerate technology growth, particularly in the areas of broadband service and technology use. Through the work of ConnectKentucky and its partners, Kentucky's Prescription for Innovation has led to Kentucky being recognized as the national leader in technology acceleration. ConnectKentucky supports the technology planning efforts of Kentucky's executive branch, the Kentucky General Assembly and local community leaders and maintains a strategic alliance of technology-minded companies, universities and government entities to share knowledge, ideas, and resources.

Topic #3 3:50-4:50 p.m. **Compliance and Electronic Transfers**
Donna Marlin, Kentucky Division of Water (NPC)

Federal and state regulatory agencies are discovering that the use of electronic transfers of data will reduce the number of violations that water and wastewater systems have been experiencing. Some states have already set up procedures for all compliance data to be electronically submitted. Electronic transfer of data reduces the chance of human error or the transposing of analytical data and allows extra time for the water or wastewater personnel or their contract labs to correct any detected problems before it becomes a non-compliance issue. This session will provide information about what is currently being done in Kentucky and what the plans are for the future. It will also explain the necessity for systems to have adequate computers and internet connections in order to meet the new EPA data transfer requirements.

Day Three – Wednesday, August 29, 2007

8:30-11:50 a.m. **Concurrent Sessions**

Session 1 8:30-9:30 a.m. **Pipe Replacement Contingency Planning** (NPC)
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.

Session 1 9:40-10:40 a.m. **Telemetry and SCADA** (PC)
Alan Morrison, C.I. Thornburg Co.

This session will explain how telemetry and SCADA can be used in the treatment processes and operations of water and wastewater systems. The presentation will explain the basic components such as transmitters, receivers, sensors, and means of conveyance and how to integrate with existing equipment and applications. The instructor will also demonstrate how telemetry and SCADA can be used for treatment, sampling and monitoring, operation functions, and security systems and alarm systems.

Session 1 10:50-11:50 a.m. **Industry Professionalism** (NPC)
Bob Cashion, Southeastern Laboratories, Inc.

This session will focus on how social and regulatory changes are affecting the water and wastewater industry. The presentation will explain how new regulations have impacted the water and wastewater industry. The session will demonstrate the need to have skilled personnel and not just "button pushers." Differences in work ethics within the generations will be addressed. The instructor will explain how appearance, attitude, and public perception depict industry professionalism and how professionalism improves performance.

Session 2 8:30-9:30 a.m. **Budgets and Rate Structures** (NPC)
Carryn Lee, Kentucky Rural Water Association

Water and wastewater systems need to have good working budgets and have adequate rates and rate modification procedures in place. This session will include discussion on:

Revenue Requirement - A basic analytical service to determine whether a utility has user rates adequate to meet the revenue requirements of the utility's operations.

Cost of Service - A comprehensive examination of the true and proposed costs associated with providing drinking water or wastewater services. Cost-based rates can only be achieved through a systematic approach to determining cost.

Rate Analysis - An analysis used to design a rate or rates that meet revenue requirements and spread the costs appropriately to the types of customers being served.

Purchase Adjustments - For utilities that have received an increase from their wholesale water supplier or have received an increase in wastewater treatment costs by another contracted utility.

Session 2 9:40-10:40 a.m. **KRWA Finance Programs** (NPC)

Bob Pennington, Morgan Keegan & Company

Decision makers need to know what options are available when it comes to financing water and wastewater projects or to obtain necessary equipment. This session will provide information on:

Municipal Bond Overview & Terminology.

Interim Finance Program - provides construction funding for water and sewer systems that have received a permanent loan commitment from the United States Department of Agriculture-Rural Development ("RD"). The program structure provides communities access to short-term loan funds at favorable interest rates during the construction period.

Flexible Term Finance Program - provides financing for a variety of projects with loan terms up to thirty-five years. The program aims to make the process of obtaining funds less complicated than its alternatives and to have funds available as quickly as possible. The program has similarities to that of a traditional bond issue; however, it also has the efficiencies of a pooled structure.

Other Funding Options

Session 2 10:50 -11:50 a.m. **Board and Manager Training Initiative** (NPC)

Andy Lange, Kentucky Rural Water Association

The Kentucky Rural Water Association, through SRF set-aside funding from the Division of Water and the Kentucky Infrastructure Authority, has developed three new courses for water and wastewater utility managers and decision makers. This session will introduce these new courses that focus on board and manager communications and interactions, financial reporting to the board, conducting effective board meetings, and the challenges associated with operating and managing a small municipal utility. These courses will be available, without charge, to any member utility and can be conducted at the utility's own facilities at regular meetings or at special called meetings.

Session 3 8:30-9:30 a.m. **Watershed Protection** (NPC)

Peter Goodmann, Kentucky Division of Water

Federal and state agencies have developed watershed protection strategies. There has been a considerable amount of research performed in Kentucky's watersheds. This session will demonstrate some of the research findings and show how water and wastewater systems continue to impact these resources. Information will be provided on what is being done on a state level to protect watersheds throughout the state. This session will also explain the protection options available on a local level and the role of the utility decision makers and management.

Session 3 9:40-10:40 a.m. **Drought and Water Shortage Response Plans** (NPC)

Bill Caldwell, Kentucky Division of Water

Kentucky is currently experiencing moderate to severe drought conditions as a result of a substantial deficit in precipitation. Drought can increase the potential for unsustainable demands from water customers to overwhelm a water supplier's ability to treat, pump or store adequate quantities of potable water. In order to be prepared to deal responsibly with water supply shortages that often result from these rainfall deficits, the Natural Resources and Environmental Protection Cabinet has developed a Water Shortage Response Plan. This plan specifies the respective roles of state and local agencies in the event of a water supply shortage. Another factor that is under consideration is the effect of wastewater discharges on the receiving streams. The changes in hydraulics and organics have the potential to impact aquatic life and water quality. This session address these issues and explains what water and wastewater systems should do during drought conditions.

Session 3 10:50-11:50 a.m. **Community Education Programs** (NPC)

Clay Kelly, Strand Associates

Utilities must comply with various agency requirements as well as maintain information on routine operations. Any change in regulations, operations, or services has the potential to affect members of a community. Water and wastewater system personnel should make efforts to keep their customers informed. This session provides information on community education programs that promote positive impacts.

Request for Continuing Education Credit

Monday, August 27, 2007	6 hours
Tuesday, August 28, 2009	3 hours
Wednesday, August 29, 2009	3 hours
Total hours requested:	12 hours

Criteria for Training Credits: Credit will be granted for actual time attending or participating in the training sessions. The maximum number of credit hours for the 3-day session will be twelve (12) with the daily breakdown as listed above. An individual sheet will be provided to each commissioner/board member to record their presence at the sessions. This sheet will be retained as a record of all persons attending the approved training.