



The Kansas Rural Water Association is offering three workshops on the use of chemicals in water and wastewater facilities. These workshops are directed to water and wastewater system operations and maintenance staff who are involved in the application of chemicals, chemical safety and maintaining chemical feed systems.

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## Specialized Training Seminars

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### Chemicals: Application, Safety and Feed Pumps

**Tuesday, August 10, 2010**

Golden Eagle Casino  
1121 Goldfinch Road  
Horton, KS

**Thursday, August 12, 2010**

Celebration Hall  
1737 S. Elm  
Ottawa, KS

**Tuesday, August 17, 2010**

Memorial Hall  
503 Pine Street  
Pittsburg, KS

### TRAINING NOTICE:

The Kansas Rural Water Association is pleased to sponsor three training workshops entitled "Chemicals: Application, Safety and Feed Pumps". The workshops are directed to water and wastewater systems and operators and maintenance staff who are directly involved with chemicals at their facilities. Many water and wastewater systems apply chemicals using liquid chemical feed pumps. The workshop will discuss the applications of chemicals and their proper use. Chemical safety will be discussed to assure all operators understand the importance of chemical safety. The workshops will also discuss the proper operation of feed pumps. All sessions begin with registration check-in at 8:30 a.m. The training begins at 9:00 a.m. and will conclude by 4:30 p.m. Lunch is on your own.

### DATES & LOCATION:

**9:00 am to 4:30 pm (8:30 am Registration)**

**Tuesday, August 10, 2010**  
Golden Eagle Casino, 1121 Goldfinch Road  
Horton, KS

*Directions: from Highway 75, turn east on Highway 20; proceed east on Highway 20 to the Casino which is approximately five miles west of Horton.*

**Thursday, August 12, 2010**  
Celebration Hall, 1737 S. Elm  
Ottawa, KS

*Directions: from Interstate 35, proceed north on Business Highway 59; proceed north to 17th Street; turn west on 17th Street to Elm Street; turn south on Elm to Celebration Hall (fairgrounds).*

**Tuesday, August 17, 2010**  
Memorial Hall, 503 Pine Street  
Pittsburg, KS

*Directions: from Highway 69, proceed into town on Broadway, proceed on Broadway to 5th Street, turn west on 5th Street to Pine Street. Enter building on the south side basement entrance.*

### CERTIFICATION CREDIT:

Water and wastewater operators who attend the full day session will earn five (5) recertification credits.

### COURSE TOPICS:

This course will address chemical application, safety and feed pumps for the following:

- Disinfectants - chlorine, sodium Hypochlorite, calcium hypochlorite
- Oxidants- potassium and sodium permanganate, hydrogen peroxide, chlorine dioxide
- Coagulants - aluminum sulfate, ferric sulfate, ferric chloride, aluminum chlor-hydrate, poly-aluminum chloride
- Polymers - polyamines, polyadmacs, acrylamides, polyphosphates, sodium phosphates, phosphoric acid
- Acids and Bases - hydrochloric acid, sulfuric acid, citric acid, caustic soda, soda ash, lime
- Fluoridation - hydrofluosilicic acid, sodium fluoride
- Carbon - powder and granular

### PRESENTER:

Randy Dye, Brenntag Southwest Inc., Iola, KS and Nowata, OK. Randy has been with Brenntag Southwest for 25 years and is presently a Water Treatment Chemist, Chemical and Technical Sales and Service Representative. Randy received a BS degree in Biology and Chemistry from Pittsburg State University. Randy has been a certified water and wastewater operator in Oklahoma for the past 18 years.

### REGISTRATION:

Complete the attached form and return it by mail or fax it to KRWA at 785/336-2751 or you may call KRWA at 785/336-3760. You may also register online at [www.krwa.net](http://www.krwa.net) under "training". Early registration is encouraged by Friday, August 6.

### COST:

This session is offered at NO CHARGE by Kansas Rural Water Association with support through the Training and Technical Assistance Program which administered by the National Rural Water Association.