

## This Training Session:

Whether you are ground water, surface water, or wastewater, this is a superb class to learn everything about working with chlorine. All forms of chlorine; gas, liquid, and solid, will be covered. Learn about the properties, history, applications, feed equipment, handling, maintenance, and how to be safe when working with chlorine.

What do you do if your system is required to meet 4 log disinfection criteria? Or maybe you have a problem with disinfection by products! In this class you will also be introduced to UV & Ozone as alternative or additional disinfection measures.

Remember, disinfection training applies to both Water & Wastewater Operators!

### For additional information:

Phone  
**406-438-2070**

-or-

Visit our website  
<http://www.mrws.org>

### **Montana Rural Water Systems**

**925 7th Avenue South  
Great Falls, MT. 59405**

Phone: 406-454-1151

Fax: 406-454-3116

E-mail: [mrws@bresnan.net](mailto:mrws@bresnan.net)

*"This training session is designed for **"Awareness Training"** and is not intended to be your only source of information!"*

**IF YOU PLAN ON ATTENDING THIS  
WORKSHOP, PLEASE E-MAIL THE MRWS  
OFFICE AT**

[mrws@bresnan.net](mailto:mrws@bresnan.net)

I need a headcount for refreshments and for the speakers to have a count for handouts.

### Speaker Contact Info:



*Kollin Syverson*

Branch Manager

Hawkins Water Treatment Group  
2576A Industrial Drive, Washburn, ND 58577  
701-462-8588

*Joe Schmidt*

Technical Applications Specialist  
Hawkins Water Treatment Group  
2576A Industrial Drive, Washburn, ND 58577  
701-462-8588



**Montana Rural Water  
Systems Inc.**

*Presents*

# **2018 Chlorination & Alternative Disinfection Options**

### Training Conducted by:

**Kollin Syverson, John Moberg &  
Joe Schmidt**  
*Hawkins Water Treatment Group*

**Julie Allen**  
*Montana Rural Water Systems*

Recommended for Operators, Managers,  
& First Responders

**No Registration Fee !!**  
**CEC's: 0.6 Dual**

## *Date & Location:*

Glendive, MT.

Tuesday

April 24, 2018

@

Ambulance Multi-Use Bldg

312 S. Merrill Ave

Glendive, MT 59



### ADA Meeting Announcement Statement:

MRWS will make reasonable modifications for persons with disabilities who wish to participate in this public training. If you would like to request an accommodation, contact the MRWS office 5 days prior to the event to advise us of the nature of the accommodation that you need.

### Morning Session:

8:30—9:00 AM REGISTRATION

9:00 – 10:00 AM Mechanisms for Improved Water Quality  
A talk centered around cleaning of water systems, reduction of DBP and Biofilm formation, and improving chlorine or chloramine residuals. Includes information about Blue Earth Products.

10:00 – 11:00 AM Corrosion Inhibition Chemistry  
A discussion of phosphate treatment products, corrosion, and how Hawkins selects the correct product for your system.

11:00 AM – 12:00 PM Coagulation and Flocculation  
A talk that takes a good look at coagulants and flocculants, how are they made, what makes them different, proper uses and applications.

12:00—1:00 PM — >>>> LUNCH <<<<

### Afternoon Session

1:00—2:00 PM — GAS CHLORINE

- ◆ Physical Properties
- ◆ O & M
- ◆ Safety

2:00—3:00 PM — SODIUM HYPOCHLORITE

- ◆ Physical Properties.
- ◆ O & M
- ◆ Safety

4:00—5:00 PM — CALCIUM HYPOCHORITE

- ◆ Physical Properties
- ◆ O & M
- ◆ Safety

4:00 PM — Turn in CEC Forms & Evaluations

>>>> Adjourn <<<<



For professionals in fields other than water or wastewater that need continuing education credit for this training, please contact your training authority and bring appropriate forms needed to receive credit. I will be happy to provide needed information or verify your attendance.

**BE CAREFUL**

**Learning May Occur at This Workshop**

### About Our Speakers:

**Kollin Syverson** has 23 years of experience in the water treatment industry and oversees the Washburn, ND facility. **John Moberg** has 15 years of experience in the water treatment industry and provides sales and service to customers in eastern Montana and western North Dakota.

**Joe Schmidt** has been in the chemical business for over thirty years, the last six as Technical Applications Specialist with Hawkins Inc. He is responsible for tech support of product applications in 5 Hawkins branches, located in North Dakota, South Dakota, and Montana. Joe makes his home in Bismarck, ND, has been married for 40 years, and has two children.

**Hawkins Water Treatment Group** supplies The Hawkins Water Treatment Group supplies products to customers in 18 states across much of the U.S. Our drivers are skilled technicians trained to provide on-the-spot service with the ability to troubleshoot and repair chemical feed equipment in the field. An inventory of parts and loaner feed equipment are available on our delivery trucks.



The Hawkins Water Treatment Group supplies products and equipment to treat drinking water, municipal and industrial wastewater, industrial process water, poultry barns and non-residential swimming pool water.

Hawkins and your Sales/Service Representative are available 24 hours a day, 365 days a year to meet your needs. Hawkins has and will continue to aid customers with emergencies as well.