

For more information on training, visit  
our website at:  
[www.nyruralwater.org](http://www.nyruralwater.org)

Don't forget to join us at Turning Stone  
Convention Center in Verona for our...  
39<sup>th</sup> Annual Technical Training  
Workshop and Exhibition  
May 21 – 23, 2018.

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***LIMITED ATTENDANCE***

***- 40 -***

Please pre-register as soon as possible

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Register by fax or mail only to:

**NEW YORK RURAL WATER  
ASSOCIATION**  
P.O. Box 487  
Claverack, NY 12513  
Fax: (518) 828-0582  
Phone: (518) 828-3155  
for more information



**WATER  
TRAINING SESSION**

**Nitrate Reduction  
& Corrosion Control**

**Date:** April 25, 2018

**Location:** Walton FireHall  
61 West Street  
Walton, NY 13856

**FOR:** Delaware, Owego, Schoharie,  
Ulster and Sullivan counties.

**MORNING SESSION**

7:30 - 8:00 Registration

8:00 - 10:00 am

**Nitrate Reduction Methods**

Discussion Elevated and increasing nitrate levels in groundwater are of significant concern to water utilities across the US that depends on groundwater as a source of drinking water. Physical chemical methods, such as ion exchange and reverse osmosis, can reduce nitrate levels in the treated water but these technologies are expensive to operate in part due to the need to dispose of a concentrated waste stream.

10:15 - 12:00 noon

Conventional biological systems remove nitrate by biologically converting it to nitrogen gas, however conventional biological systems have long start-up times, are susceptible to process upsets and produce sludge streams that require management. The presentation discussed an innovative biological treatment system that was implemented at Sunny Slope Water Company resulted in California Department of Health (now Division of Drinking Water (DDW)) granting Conditional Acceptance of the technology

**Please Note** – If you wish to cancel your registration for this session, you must do so within 3 business days prior to the session to receive a refund. Otherwise, you will be responsible for payment.

**Nitrate Reduction –  
Corrosion Control**

April 25, 2018

**AFTERNOON SESSION**

12:00 – 1:00 pm Lunch

1:00 - 3:30 pm

**Corrosion Control for Water Treatment**  
Phosphate properties and uses. The use of phosphates in water systems can greatly improve the quality of the water, in addition to protecting the system from costly corrosion. Phosphates may be a viable option for small or medium drinking water systems for iron and manganese sequestration and corrosion control.

Specific uses of phosphates:

Applied to municipal water systems they are typically used for three purposes: corrosion control, sequestering and microbiological or biofilm control.

3:30 pm Closing Remarks/Certificates

**Speakers for this session:**

Rich Ross, Westech Engineering  
Loren Swears, Slack Chemical

NYS DOH is expected to grant 6.0 contact hours toward recertification.  
NO HOURS FOR PARTIAL ATTENDANCE

PLEASE DETACH AND RETURN  
PRIOR TO April 16, 2018

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**PRE-REGISTRATION FORM**

April 25, 2018 – Walton, NY

All information MUST be filled out.  
(Please use a separate form for each attendee)

**Personal Information**

Name: \_\_\_\_\_

Home Address: \_\_\_\_\_  
\_\_\_\_\_

DOH Cert.# \_\_\_\_\_ DEC Cert.# \_\_\_\_\_

System: \_\_\_\_\_

County: \_\_\_\_\_ Phone: \_\_\_\_\_

*e-mail address:* \_\_\_\_\_

Member of NYRWA YES or NO

SPDES# \_\_\_\_\_ PWSID# \_\_\_\_\_

**Billing Information**    \_\_\_ same as above

System/Company Name: \_\_\_\_\_

Billing Address: \_\_\_\_\_  
\_\_\_\_\_

Phone: \_\_\_\_\_

**SESSION FEE \$ 30.00**

*(fee includes meals and facility fees)*

**Send registration form & payment to:**

New York Rural Water Association  
PO Box 487 - Claverack, NY 12513  
or fax: (518) 828-0582