



Advanced Activated Sludge Process Control & Optimization Class

October 20 & 21, 2015

NH Audubon Center, Concord, NH

The NH Department of Environmental Services is pleased to host this 2 day class on advanced activated sludge process control by Eric Wahlberg, PE., Ph.D., of WasteWater Technology Trainers, Fountain Valley, CA. Eric taught this class for us last year, and one attendee commented: *"Eric's class was one of the best wastewater training events I've attended. Eric's passion, expertise, and ability to blend the operational and engineering worlds make this a practical class with real and immediate applications. In just two days, we've identified a number of areas we can look for further improvements in our operations. Eric's challenge to provide efficient and effective wastewater services is supported by the know-how and tools to start that process. I'd encourage our staff to attend this powerful class in the future."*

Class Objective: to give activated sludge front-line supervisors and operators, and process control operators and engineers, a more in-depth understanding of the activated sludge process. With this understanding, effluent quality variability and process energy usage can be reduced.

Topics to be presented include: wastewater characterization, biological N & P removal, the importance of sludge quality, measuring and controlling sludge quality, WAS flow control, BOD conversion vs. removal, RAS flow optimization, secondary clarifier performance diagnostic testing, and a state point analysis. Paper copies of the presentation will be provided.



Instructor: As WasteWater Technology Trainers' president and primary instructor, Eric Wahlberg is an operator, engineer, and Ph.D. The Water Environment Federation has awarded Eric numerous awards for his efforts in research, contribution to operations, and operational problem solving. He is well known for his work in developing activated sludge process control and performance tests and has written and presented extensively on those subjects. Eric is also a nationally renowned expert in primary and secondary clarifier operations.

More info: www.wastewatertechnologytrainers.com.

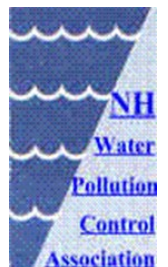
Registration Fee: \$120 This includes lunch for both days. 1.3 CEUs

Registration Deadline: September 28, 2015

This class would not be possible without the generosity of our sponsors:



DAVID F. SULLIVAN & ASSOCIATES, INC.
Manufacturers' Representatives



Date and Times: Tuesday, October 20 and Wednesday, October 21, 2015 from 8 am to 3:30 pm. Registration will begin at 7:45. Morning refreshments and lunch are included in your class fee and will be provided by *The Crust and Crumb*, NH's first bakery to be Certified Local by the *NH Farm to Table Connection*.

Training Credits: A total of 13 hours of training and each participant will be awarded 1.3 CEUs. You must attend both days to receive credit.

Location: The class will be held at the Susan N. McLane Audubon Center, 84 Silk Farm Road, Concord NH. The Center is located off I-89, Exit 2. Directions and additional information will be provided upon receipt of your registration form.



Lodging: Hampton Inn, Bow NH has offered a group rate of \$88 per room, per night. You must call the hotel directly and ask for the Eric Wahlberg Seminar block. Free hot breakfast buffet is included. Hampton Inn is only 5 minutes from the Audubon Center, located at 515 South Street, Bow, NH 03304. 603-224-5322. **Reservations must be made by September 28, 2015 to secure this rate.**

Registration Information: Preregistration is required. Class size is limited to 40, so please register early to guarantee a seat. **Registration deadline is September 28, 2015.** Payment can accompany the attached registration in the form of a check made payable to NHWPCA. We can also issue an invoice or take a purchase order. Upon receipt of registration, an e-mail confirmation will be sent. There will be no refunds granted after September 28, 2015.

Completed registration forms w/check should be mailed to:

NHDES
Water Division - Wastewater Operations Section
P.O. Box 95
Concord, NH 03302-0095

Completed registration forms w/a purchase order number or invoice request may be mailed to the address above or faxed to 603-271-4128. You may also email registrations to Wes or Mary Jane at the addresses below.

For questions or additional information contact:

Wes Ripple, 603-271-2940 or e-mail wesley.ripple@des.nh.gov

or Mary Jane Meier, 603-271-5553 or e-mail maryjane.meier@des.nh.gov



The mission of the New Hampshire Department of Environmental Services is to help sustain a high quality of life for all citizens by protecting and restoring the environment and public health in New Hampshire. <http://des.nh.gov/>



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Registration Form

**Cost is \$120 per person. Registration deadline is September 28, 2015.
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Name(s) _____

Facility / Company name _____

Mailing address _____

Phone _____ FAX _____

E-mail _____

Check enclosed _____ Purchase order # _____

Total amount \$ _____ Please invoice me _____

Mail this completed form with a **check made payable to NHWPCA** to:

NHDES
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If you are requesting an invoice or providing a purchase order number, this form may be faxed to 603-271-4128 or e-mailed to wesley.ripple@des.nh.gov