

## September 15, 2020

### #7199 - Preventing a Major Event at a W or WW System Through Good Operational Practices

#### 6 WATER & WASTEWATER CONTACT HOURS

Operators and superintendents must understand that many of the common practices utilized at water and wastewater systems can lead to potential major issues. We will look at the lack of verification of even the very basic chemicals delivered, document case histories where events have occurred, and show how simple and easy a verification program is to establish. Next, we will cover other operational monitoring issues. Lastly, why infrastructure age requires extra vigilance to prevent system contamination, why water stagnation and biofilm formation can lead to bacterial contamination, and how operations can minimize these issues with simple low-cost steps.

## September 16, 2020

### #7200 - Screening W & WW Systems for Safety, Security & Toxicity

#### 6 WATER & WASTEWATER CONTACT HOURS

Routine monitoring of your water quality can lead to significant improvements in effective operations. This course covers daily and weekly practices that any operator can perform for better control of their water/wastewater system. The Activated Sludge Process has limitations in handling toxic influents of unknown origin and strength. Once the bug population is destroyed or inactivated due to toxicity, or loading issues, regrowth is a painful time consuming process. Quick screening of the process can provide real-time decision-making. Simple screening tools such as: Chemical Oxygen Demand tests, Quick Biological scans, Rapid Biological Toxicity Screening, & Oxidation Reduction Potential (ORP) will be covered. Quick screens of key areas of your distribution for safety/security vulnerabilities can act as an early warning tool. The course will examine case-histories, view low-cost ideas and applications to monitor strategic areas of your distribution system.

## Ramada Greensburg 100 Ramada Inn Drive Greensburg, PA 15601 Westmoreland County

**Class Time:** 8:00 am - 3:30 pm  
**Registration:** 7:30 am

*Lunch and materials provided  
with your registration*

**Instructor: Michael Harrington**  
*Certified Environmental Instructor*

**Questions?**  
Call 800-653-7792 ext. 107 or 108  
Or email: Training@PRWA.com  
**WE HOPE TO SEE YOU THERE!**

### THE PRWA PROMISE

If you're not 100% satisfied with the training class for any reason, we will give you a refund!

**WWW.PRWA.COM/PROMISE**

**Attendance cost per person:**  
 \$120 per day for PRWA Members  
 \$155 per day for Non-Members

**PRWA Member?**  Yes  No

#### Registration Form

9/15/2020 - #7199: Preventing a Major Event at a W or WW System Through Good Operational Practices

9/16/2020 - #7200: Screening W & WW Systems for Safety, Security & Toxicity

#### Location:

**Ramada Greensburg**  
100 Ramada Inn Drive  
Greensburg, PA 15601  
Westmoreland County

Name: \_\_\_\_\_ PA-DEP Client ID (if applicable): \_\_\_\_\_

System/Company: \_\_\_\_\_ Phone: \_\_\_\_\_

Address:  Home  System Fax: \_\_\_\_\_

City \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ Email: \_\_\_\_\_

#### PAYMENT:

Check (payable to PRWA)

Invoice Me:  Home  System

Credit Card:  AmEx  Discover  Visa  MasterCard

Card Number: \_\_\_\_\_

Exp Date (mm/yy): \_\_\_\_\_ CVC (3 or 4 Digit # on card): \_\_\_\_\_

Name on Card (Please print): \_\_\_\_\_

Signature: \_\_\_\_\_

To register by FAX or MAIL:

FAX: 814-353-9341

MAIL: 138 W. Bishop St., Bellefonte PA 16823

EMAIL: TRAINING@PRWA.COM

EMAILING REGISTRATIONS: EMAIL IS INHERENTLY INSECURE. CREDIT CARD INFORMATION SHOULD NOT BE EMAILED OR SENT IN AN ATTACHMENT.

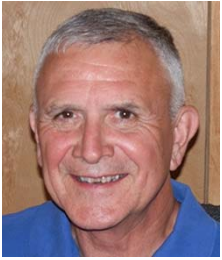
Amount Due: \$ \_\_\_\_\_

#### Questions?

Call 800-653-7792 ext. 107 or 108

*Signature shown on card*

## MEET THE INSTRUCTOR



**Michael Harrington**

Mike Harrington is a Certified Environmental Instructor (CET) and holds certification from Texas, Oklahoma, and Maryland in water, wastewater, and industrial wastewater. He has numerous years experience as an operator, as well as work experience with manufacturers and suppliers to the industry.

For 25 years, Mike has been writing and presenting water and wastewater operator training to municipalities, training centers, and regulatory agency professionals across the country. He holds an undergraduate BS/BA degree from Columbia Union University, and continues to pursue a Master degree from Wilmington University.

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Linked  

**pa rural water**  
*Association*

138 West Bishop Street  
Bellefonte, PA 16823  
800-653-7792

WWW.PRWA.COM

**TWO SEMINARS TO CHOOSE FROM!**

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**September 16, 2020**

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**pa rural water**  
*Association*