

#6951  
Septage and Toxicity

#3776  
Wastewater Bacteria

6 WASTEWATER CONTACT HOURS

**Septage and Toxicity:** This course reviews the composition of septage, its impact upon biological treatment processes including toxicity and operational measures for the safe handling and treatment of septage. Toxicity and its mode of attack are described, and toxic inorganic and organic wastes and their partitioning in the activated sludge process are presented. Relative quantities of toxic wastes that are needed to cause toxicity are reviewed and discussed with respect to their impact upon cBOD removal, nitrification and methane production. Operational measures for preventing and recovering from a toxic event are addressed. Indicators of an unstable biomass are reviewed.

**Wastewater Bacteria:** This course reviews the significant bacterial groups, the roles they perform in wastewater treatment and the operational conditions that affect their activity.

**Topics to be covered:**

- Undesired growth of filamentous
- Toxicity
- Identifying potential dischargers of toxic wastes
- Significant bacterial groups responsible for the success or failure of a wastewater treatment process
- Roles performed by aerobic, facultative anaerobic and anaerobic bacteria

May 8, 2019

Quality Inn and  
Conference Center  
1411 Liberty Street  
Franklin, PA 16323  
*Venango County*

**Class Time:** 8:00 am - 4:00 pm  
**Registration:** 7:30 am

*Lunch and materials provided  
with your registration*

**Instructor: Michael Gerardi**  
*Wastewater Microbiologist*

**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:**  
\$195 for PRWA Members  
\$230 for Non-Members

**PRWA Member?**  Yes  No

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: \_\_\_\_\_

**May 8, 2019**

#6951 - Septage and Toxicity

#3776 - Wastewater Bacteria

**Location:**

*Quality Inn and Conference Center  
1411 Liberty Street  
Franklin, PA 16323  
Venango County*

**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.

**Questions?**

Call 800-653-7792 ext. 107 or 108

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

*Signature shown on card*

## MEET THE INSTRUCTOR



**Michael Gerardi**

*Wastewater Microbiologist*

Michael has developed and offered numerous wastewater biology courses in the United States, Canada, Caribbean and Europe. He has over 35 years experience in the wastewater treatment profession and has authored seven wastewater microbiology texts for John Wiley and Sons. He has performed microscopic analyses of wastewater samples and provided troubleshooting services for numerous municipal and industrial wastewater treatment facilities. He managed the Williamsport Sanitary Authority wastewater treatment facilities for 10 years.

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## Septage and Toxicity

## Wastewater Bacteria



# May 8, 2019

**Quality Inn and Conference  
Center  
Venango County**

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*Association*

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

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