

**#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

**June 11, 2019**

**Ramada by Wyndham**  
700 West Main Street  
Uniontown, PA 15401  
**Fayette 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: \_\_\_\_\_

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

**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

**June 11, 2019**

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**Location:**

**Ramada by Wyndham**

700 West Main Street

Uniontown, PA 15401

**Fayette County**

*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



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Ramada by Wyndham  
*Fayette County*

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*Association*

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800-653-7792

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