

#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

April 10, 2019

**Senator James J. Rhoades
Downtown Center**
1 W. Centre Street, 2nd Floor
Mahanoy City, PA 17948
Schuylkill 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.

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Location:

Senator James J. Rhoades Downtown Center

1 W. Centre Street, 2nd Floor

Mahanoy City, PA 17948

Schuylkill 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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