



The 13th EBS Industrial Wastewater Treatment Seminar

April 28th – April 30th
Mandeville, LA

Overview

This is one of the most comprehensive seminars offered specifically to industrial wastewater treatment plants. This seminar is designed for all industrial wastewater and environmental personnel, particularly operations personnel such as operators, supervisors, and laboratory personnel. The course is also useful for plant environmental managers, technical directors, and supervisors as well as consultants and chemical suppliers to wastewater treatment systems. The material focuses on monitoring, operating, and optimizing biological wastewater treatment systems in industrial facilities. With courses designed for pulp & paper, petrochemical, petroleum refining, and food processing industries, there is something for everyone. Both experienced wastewater professionals and newcomers to the field will find the courses extremely valuable. Even seasoned wastewater veterans will take away process optimization and cost reduction ideas.



The Courses

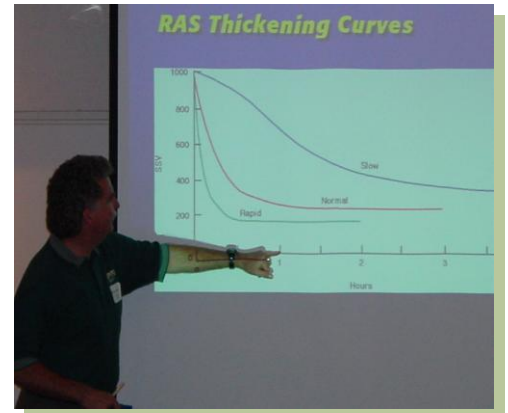


- Day 1: Introduction to biological treatment of Industrial Wastewater - 7 hrs (0.7 CEUs)
- Day 2: Breakout sessions on topics relevant to class attendees - 7 hrs (0.7 CEUs)
- Day 3: Hands-on Laboratory Workshop – 5 hrs (0.7 CEUs)

Day 1: Introduction to Wastewater Treatment

Instructors: Mike Foster & Carl Siener

This is a great introduction into wastewater treatment with topics that include evaluating wastewater for BOD loading, treatability and environmental impact. Growth pressures of biological treatment, aeration, and wastewater microbiology are covered. It also provides an insight into types of wastewater treatment processes as well as both primary and secondary treatment.



Day 2: Breakout Sessions

Instructors: Mike Foster, Carl Siener & J'ohnnie Wilson.

We will have breakout sessions that will be industry dependent and treatment system dependent. The specific breakouts will be determined once we have a good indication of the class make up. The format for these sessions will include lecture, group discussion, and hands on lab work.

Likely breakout sessions will cover:

- Operation and control of pulp and paper mill aerated stabilization basins (ASBs)
- Refinery wastewater treatment processes
- Microscopic examination of attendee samples (shipped in or brought in)
- Nutrient control and TMDLs
- Activated sludge process control
- Nitrification and denitrification
- Aeration control and optimization
- Upgrading pulp and paper ASBs

Day 3: Hands-on Lab Workshop

Instructors: J'ohnnie Wilson, Marissa Jimenez, Christopher Agosta, & Marie Tranchina.

Laboratory tests for monitoring wastewater treatment systems



This course is a hands-on workshop detailing the how and why of running tests used for monitoring and optimizing treatment systems. The class will be broken into small groups who will learn the specific test used in their system type. It will include instruction on monitoring oxygen demands (BOD and COD),

Continuing Education Credits (CEUs)

Previous seminars were approved for operator training continuing education credit for wastewater operator certification in LA, MS, AR, KY, and GA. Other state approvals will be submitted upon request.

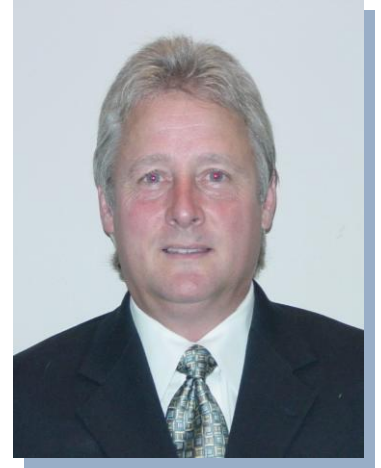
The Speakers

Primary Instructors

- Mike Foster, CET - Principal Consultant, Environmental Business Specialists, LLC
- Carl Siener - Representative, Environmental Technical Sales, Inc.
- J'ohnnie Wilson- Technical Director, Environmental Business Specialists, LLC

Mike, Carl and J'ohnnie have over sixty years of combined experience in providing wastewater training and technical support for ASB, activated sludge, and other biological treatment systems in many types of industrial facilities.

Mike Foster is Principal Consultant for Environmental Business Specialists, LLC in Mandeville, LA. Mike started EBS in 1997 after a thirteen-year career with a major supplier of wastewater treatment chemicals. EBS provides training, products, and consulting services to industrial wastewater treatment systems, particularly the pulp and paper industry. Mike conducts training classes and seminars throughout North America and Europe on activated sludge systems, ASBs, polymers, and the use of chemical and biological technologies in these systems.



Mike received his B.S. degree in Chemistry and a M.S. degree in Instructional Technology from the University of Southern Mississippi. He is a Certified Environmental Trainer (CET) in wastewater and holds Class IV Wastewater Operator Licenses in MS, LA, and AR. For the past six years, Mike has served as course chairman of the TAPPI Environmental Biological Wastewater Workshop.

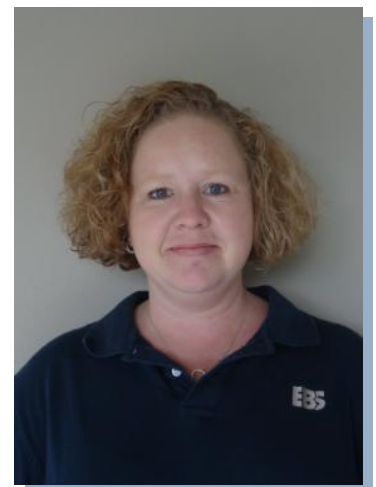


Carl Siener is a representative for Environmental Technical Sales (ETEC) of Baton Rouge, LA. ETEC represents over thirty equipment manufacturers serving the wastewater treatment industry. Carl will present information on aeration equipment and aeration basin flow optimization.

Carl graduated from Louisiana State University in 1976 with a B.S. in Chemical Engineering. He has over twenty-five years of experience in the industrial wastewater treatment industry.

J'ohnnie Wilson is Laboratory Manager for Environmental Business Specialists. J'ohnnie started with EBS in 2007 after an eleven year career with a major pulp and paper manufacturer. She also worked as a microbiologist and chemist in the simulations lab for a biological products company and as a chemist for an analytical testing laboratory.

J'ohnnie received her B.S. degree in Microbiology from Louisiana State University, Baton Rouge Campus in 1992. She has fifteen years of experience in the fields of chemical testing, microbiological testing, and wastewater treatment troubleshooting.



Accommodations

Lodging: The seminar is held at the EBS Lab and Training Center in Mandeville, LA. Mandeville is approximately 45 minutes from the airport, on the north side of Lake Pontchartrain. The registration form provides a list of hotels in Covington (immediately north of Mandeville) along with phone numbers. All of these hotels are within 10 miles of our training center.

Meals: Lunch will be provided Tuesday through Thursday. Snacks and drinks will be available during the day. Breakfast and dinner are not included. However, a hospitality event will be held on Tuesday evening at the Foster's home. All attendees and their spouses or guests are encouraged to attend this event.

Spouses. The downtown New Orleans and French Quarter areas are great for shopping and include many restaurants, both famously old and new. New Orleans is home to many old plantations, shops, antique stores, and museums. Additionally there are many shops and antique stores on the Northshore. Your spouse will enjoy borrowing the car and taking in the sights.

Travel Arrangements

Air Travel. New Orleans is served by all major airlines including Southwest and Delta, both of whom have frequent flights and generally reasonable fares.

Rental Cars. You will require a rental car if flying in.

**For more information, contact Marie Tranchina at (985) 674-0900
or by email at tranchina@ebsbiowizard.com**