

Upcoming Training - Save the Date!

8:00 AM - 4:00 PM

September 11-13, 2018 at City of Fremont Water Reclamation Center

Limited to first 24 attendees

Troubleshooting Activated Sludge

An advanced course for experienced wastewater treatment professionals

This course has proven helpful to advanced wastewater treatment operators, managers and engineers.

- You can't control what you don't measure
- The class is arbitrarily divided into 3 groups for 3 separate plant "trips"
- Each group experiences extensive hands-on activities in the performance of assigned measurements in plant

18
CONTACT
HOURS*

\$425
PER MEMBER

\$500
PER NONMEMBER & ONE
YEAR OF FREE OWEA &
WEF MEMBERSHIP

*Thursday, September 13th is a half-day making a total of 18 hours for the three day course.

Data Collection Trips

Trip 1- Influent

- Pretreatment/Primary Treatment
- Industrial waste/Tank dimensions
- Raw waste characterization: COD, TSS meter, Test kits for ammonia, pH, alkalinity
- Flow meter(s) accuracy

Trip 2- Aeration Tanks

- Flow Splitting & Mixing
- DO Profiling
- Process Measurements: ORP, alkalinity, pH, ammonia, nitrate, MLSS meter, Centrifuge spins, Settleometer test
- Microbiology: floc, protozoa, metazoa, filaments

Trip 3- Clarifiers

- Flow splitting
- Baffling
- Short circuiting & currents
- RAS/WAS solids concentrations
- Sludge Blankets

Class Participation

- As the course proceeds, the entire class is encouraged by the instructors to provide findings and information discovered during the field trip. These findings are discussed in the classroom after each field trip.
- The amount of data accumulated in the short period of the course allows for class recommendations for operational improvement at the facility that the attendee can then "take home" and apply to their facility
- Often the findings during this course allows the student to better control the activated sludge process at his/her own facility which often results in a substantial operational cost savings

PLEASE NOTE: Attendance at all three days is mandatory to obtain contact hours

Brought to you by:



Location

City of Fremont
Water Reclamation Center
1019 Sand Street
Fremont, OH 43420

Instructors

Keith Kroeger, **Retired**
Lynn Marshall, **TWC Enterprises**
Jon van Dommelen, **OEPA**