

2018 Microbiology Workshop
March 28, 2018
AGENDA

8:00 - 8:30	Registration and Light Breakfast
8:30 - 8:45	Introductions and Workshop Objectives
8:45 - 9:30	Overview of Biological wastewater treatment plant <ul style="list-style-type: none">• Process design• Operation
9:30 - 9:45	Process and tools used to monitor your WWTP's performance
9:45 - 10:15	Basic microscopic analysis tools and techniques
10:15 - 10:30	Coffee Break
10:30 - 11:30	Conventional microscopic analysis of activated sludge <ul style="list-style-type: none">• Floc structure• Filament abundance and identification• Higher life forms
11:30 - 12:00	Practice 1: Microscopic observation <ul style="list-style-type: none">• Wet-mount• Smear Preparation
12:00 - 1:00	Lunch
1:00 - 1:30	Foaming and Bulking Problems/ Control
1:30 - 2:30	Practice II: Staining Techniques <ul style="list-style-type: none">• Gram Stain• India ink reverse stain
2:30 - 3:30	Evaluation and review of Samples (How are your bugs doing?)
3:30 - 4:00	Introduction to some of the current mind blowing techniques for activated sludge analysis (Optional)
4:00 - 4:30	Summary – What we did today and what you plan to do with this information, and how!
4:30	Adjourn