

**Using the Microscope to Evaluate Process
16-hour workshop**

Proper Use of a Phase Contrast Microscope – 2 hr

- Phase vs. light microscopes
- Phase condenser and objectives
- Using 100x oil immersion lens
- Sample handling, Slide preparation

Evaluating a sample – 100x - 2 hr

- What is in flocs
- Sizing and classifying flocs
- Classifying protozoa and metazoa
- Assessing Filament abundance
- Class Exercises using samples

Filament Identification – 1000x – 2 hr

- Filament characteristics
- Common filaments - characteristics
- Filament Identification Techniques
- Gram, Neisser, India ink staining
- Class Exercise using a sample

Evaluating Actual Samples - 8 hr

- Floc Sizing
- Classifying Protozoa
- Filament Abundance
- Filament Identification
- Interpreting Results and applying to Process

Question & Answers, Discussion of Problems – 2 hr

Lunch will be 30 minutes .