

**OHIO WATER ENVIRONMENT ASSOCIATION
ADVANCED ACTIVATED SLUDGE WORKSHOP**

Day 1

Time	Topic	Speaker	Contact
8:00 - 8:30	Registration		
8:30 - 9:00	Introduction by Host and facility design data	Host	
	Introduction of presenters for workshop	All	30 min
9:00 - 9:30	Connecting the dots		
	*Good data, good decisions	Keith	30 min
9:30 - 9:40	Break		
9:40 - 10:10	Connecting the dots		
	*Good decisions, good results	Keith	30 min
10:10 - 10:40	Conversion and Separation at Kent WWTP		
	*Large WWTP, efficient process control	Bob	30 min
10:40 - 11:40	Conversion		
	*Troubleshooting Chart: Conversion issues	Jon	60 min
11:40 - 12:30	Lunch		
12:30 - 2:00	Conversion field analysis		
	*DO profile, temp, alkalinity, ammonia	All	90 min
2:00 - 3:00	Separation		
	*Troubleshooting Chart: Separation issues	Keith	60 min
3:00 - 3:10	Break		
3:10 - 4:40	Separation field analysis		
	*Settleometer, core sampler, RAS rate	All	90 min
			7.0 hours

Day 2

Time	Topic	Speaker	Contact
8:30 - 9:00	What if...? *Scenarios for ASPC flow chart	All	30 min
9:00 - 10:00	Biological Nutrient Removal *Zones, measurements, analysis, adjustments	Jon	60 min
10:00 - 10:10	Break		
10:10 - 12:10	BNR field analysis *PO4-P, NO3-N, NH3-N in anaerobic, anoxic and oxic zones	All	120 min
12:10 - 12:55	Lunch		
12:55 - 1:25	Class room discussion of BNR field data *What does the data indicate? VARiON trending data?	Jon	30 min
1:25 - 2:25	Digesters and side streams *What goes around, comes around	Bob	60 min
2:25 - 2:35	Break		
2:35 - 3:05	What if...? *Scenarios for anaerobic, anoxic and oxic flow charts	All	30 min
3:05 - 3:35	Disinfection *Chlorine and Ultraviolet	Jon	30 min
3:35 - 4:20	NPDES Permit *There is more than the limits table	Keith	45 min
4:20 - 4:35	Day 2 wrap up Comments, questions?	All	15 min
			7.0 hours

Day 3

Time	Topic	Speaker	Contact
8:30 - 9:30	Microscope Basics		
	*What all is in that aeration tank anyway?	Jon	60 min
9:30 - 9:40	Break		
9:40 - 11:10	Scope work		
	*Live microscopic examination of MLSS	Jon	90 min
11:10 - 11:25	Break		
11:25 - 12:25	Saving energy, saving money, saving time		
	Turbine blowers	Bob	15 min
	*Strategies for more efficient operations	Jon	45 min
12:25 - 12:55	Workshop summary		
	*Good data / good decisions	Keith	30 min
	*What struck you?		
	*What will you implement?		
1:00	Go Home!		
			4.0 hours