

**Activated Sludge Process Control  
Redmond, OR – June 20-21, 2022**

Ron Schuyler, PE, BCEE, WEF Fellow, CWP

**Objective:**

To provide tools for attendees to control activated sludge processes through better understanding of the process and its capacity, microbiology, representative data collection, wasting, return, and DO control, process awareness, and decision-making and to point you in the right direction as you answer the question:

**Are you running the process or is the process running you?**  
**Or, put another way,**  
**Are you the horse or the rider?**

**Monday**

08:00 – 08:45 – Introduction and Overview of Process Control	Tab 1
08:45 – 09:30 – Activated Sludge Processes	Tab 2
09:30 – 10:00 – Microbial Growth	Tab 3
10:00 – 10:15 – Break	
10:15 – 11:30 – Microbial Ecology	
11:30 – 12:15 – Representative Data collection	Tab 4
12:15 – 01:00 – Lunch	
01:00 – 01:45 – Settleometer Test	Tab 5
01:45 – 03:00 – Return Control – what is the process telling you?	Tab 6
03:00 – 03:15 – Break	
03:15 – 04:20 – Mass Balance – what is the process telling you?	Tab 7
04:20 – 04:30 – Summary	

**Tuesday**

08:00 – 09:00 – OUR/SOUR – what is the process telling you?	Tab 8
09:00 – 10:00 – ORP – what is the process telling you?	Tab 9
10:00 – 10:15 – Break	
10:15 – 11:45 – Nitrification/Denitrification	Tab10
11:45 – 12:30 – Lunch	
12:30 – 01:45 – Foaming and Bulking Control	Tab11
01:45 – 02:45 – Process Awareness	Tab12
02:45 – 03:00 – Break	
03:00 – 04:00 – Pressures and Process Control Plan	Tabs 13 & 14
04:00 – 04:20 – Round Table Discussion	
04:20 – 04:30 – Summary	