

# **THE INTEGRATION OF NUTRIENTS, CYANOBACTERIAL BIOMASS AND TOXINS: FROM A MULTI-USE RESERVOIR THROUGH WATER TREATMENT**

This presentation is an integrated evaluation of cyanobacterial growth and toxin production, from a reservoir through drinking water treatment - where biomass and toxin removal are achieved. Data is generated by a variety of methods: online instrumentation for chlorophyll, dissolved oxygen, temperature and pH; enzyme linked immune substrate (ELISA) and liquid chromatography/mass spectrometric (LC/MS) methods for toxin analysis; microscopic methods for species identification; quantitative PCR methods for species identification; and bench-scale engineering studies for removal of toxins and biomass through drinking water treatment.