



# Environmental Science Graduate Program Seminar Series



## Natalie Hull, PhD

Assistant Professor  
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The Ohio State University

**Smith 3150 | 2 - 1 - 19 | 3:00 pm - 4:00 pm**

### *Water Microbes: Comprehension and Control*

Microorganisms and byproducts of their metabolism present increasing challenges for protection of public and environmental health. By expanding fundamental biological understanding, engineers can more sustainably control microbes in natural and engineered aquatic environments.

The objectives of this research were

- (1) to characterize microbiota and their surroundings in aquatic niches including tap water and humidifiers, and
- (2) to elucidate microbial responses to treatments including conventional surface water treatment and disinfection by ultraviolet light.

These results add to a growing body of knowledge that will evolve alongside emerging synthetic and molecular biology tools to enable improved detection and control of microbes and their related risks. This talk will also cover elements of constructing an effective academic job talk.

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*Dr. Hull earned her B.S. in Civil Engineering at the University of Kentucky, and her M.S. in Civil Engineering with Environmental Specialization and Ph.D. in Environmental Engineering at the University of Colorado Boulder. She is an Assistant Professor in Civil, Environmental, and Geodetic Engineering at The Ohio State University, and leader of the Water TEAM (Treatment Engineering and Microbiome) research group. Her group focuses on optimizing engineered treatments to sustainably manage water microbiomes.*

