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Seminar Invitation

Predictive models to identify risks associated with *Legionella* in premise plumbing of green buildings

Speaker **Dr. Jade Mitchell, Associate Professor, Department of Biosystems and Agricultural Engineering, Michigan State University**

When **September 28, 2021, 16.00 – 17.00**

Where Online via Zoom, contact admin.umik@eawag.ch for access details

Abstract **BIO**: Dr. Jade Mitchell's research interests include risk assessment, understanding how chemical and microbial stressors from diverse environmental exposures including water quality and food safety lead to adverse human health outcomes. She uses quantitative analysis and modeling to characterize risks to support risk management decision making, engineering design and environmental policy. She is keenly interested in evaluating risk trade-offs between quality and quantity in the areas of food safety, water quality and antibiotic resistance. Dr. Mitchell is currently focused on evaluating risks associated with opportunistic pathogens in premise plumbing and drinking water distribution systems through a U.S. Environmental Protection Agency (EPA) funded National Priorities grant. She received her B.S. in 1997 from the University of Pittsburgh in Civil and Environmental Engineering. After graduation she worked for engineering consultant firms in project management and storm water design. A strong desire to understand and direct the "best management practices" she used in her daily work prompted her to purse an M.S. in Civil Engineering, which she obtained in 2007 followed by her Ph.D. in Environmental Engineering in 2010 from Drexel University. Prior to joining Michigan State University, Dr. Mitchell completed post-doctoral research with the U.S. EPA National Exposure Research Laboratory and the USDA Food Safety Inspection Service.