



Environmental Science Graduate Program Guest Seminar Series

Health Sustainability and Resiliency Modeling

Mark H. Weir, PhD

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◆ Environmental Health Sciences
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Smith 3150 | January 31, 2020 | 2:00-3:00pm



Abstract

What do drinking water, healthcare environments and poop all have in common? Infectious disease risks. Dr. Weir leads his laboratory to quantify the effects of water treatment and sanitation technologies on infectious disease hazards. His research focuses on the convergence science – microbial risk analysis – modeling the mechanisms of infectious diseases, how this knowledge affects resulting health risks, and how to develop technologies and policies to mitigate these risks. His current focuses are on: how to use drinking water and sanitation data smarter, what does system resiliency mean for developed and developing nations, and making decisions under uncertainty for healthcare associated infections (HAIs).

Want to know if your tap water will make you sick? Ask Dr. Weir – spoiler the answer is “it depends”.