

The next MinnMass Fall Meeting will be held October 27<sup>th</sup> at the St. Anthony Falls Laboratory in Minneapolis. Tours of the facility will be available from 5:00-6:30 PM, followed by pizza and beverages at 6:30 and a presentation by Professor William Arnold at 7:00 PM.

Abstract:

From triclosan to dioxins: How your handsoap leads to an unanticipated environmental problem. Triclosan is an antimicrobial chemical added to liquid handsoaps. After being washed down the drain, triclosan enters wastewater treatment plants where it is not completely removed. The triclosan (and related compounds) that is discharged into surface waters is transformed by sunlight into dioxins. Dioxins are persistent, bioaccumulative, toxic pollutants. Analysis of lake sediments demonstrates that dioxins arising from triclosan are accumulating in the environment.

Bio:

William (Bill) Arnold is the Joseph T. and Rose S. Ling Professor in the Department of Civil Engineering at the University of Minnesota. Research in the Arnold group focuses on the fate of organic chemicals in natural and engineered aquatic systems. Specific research areas include studying the kinetics, pathways and mechanisms of anthropogenic chemical reactions that occur at surfaces or via photochemical processes; evaluating mass transfer effects on reaction rates; developing new remediation/containment techniques; and using computational chemistry techniques to predict and/or explain experimental observations. He has a B.S. in Chemical Engineering from MIT, an M.S. in Chemical Engineering from Yale, and Ph.D. in Environmental Engineering from The Johns Hopkins University.

Location:

Details about the location (including a map and parking information) are available at the URL below:

<http://safl.umn.edu/contact>

Additional information about the laboratory is available at the URL below:

<http://safl.umn.edu/facilities/laboratory>

Please RSVP with the number of attendees to [minnmass@minnmass.org](mailto:minnmass@minnmass.org)