



Water Safety Community & Civil Engineering Research Seminar Series

Multi-scale modeling for membrane processes in drinking water and wastewater treatment



By: Dr. David A. Ladner

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David Ladner joined the Department of Environmental Engineering and Earth Sciences at Clemson University in 2010 after completing a PhD in Environmental Engineering at the University of Illinois at Urbana-Champaign and a postdoc at Arizona State University. The Ladner research group studies physical-chemical processes for applications such as the removal of pesticides from drinking water, the removal of salt from seawater, and treatment of high-strength industrial wastewater. The group specializes in automated and remotely-deployable membrane filtration systems and computational fluid dynamics (CFD) modeling for process design. The ultimate goal is to increase sustainability and resiliency by lowering energy and life-cycle costs in drinking water and wastewater infrastructure. Ladner enjoys time with his family, including his wife Miriam and three children, Isaac, Grace, and Simon. He also enjoys running, biking, and swimming; piano and guitar; and following Major League Baseball.

Engineering Science Building – Room: 308
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