

Publications: * denotes undergraduate student

Edmiston, P.L., Hill, N., Hershberger*, R., Hartmann*, H., Carter, E. and Divine, C., 2023. Laboratory validation of an integrative passive sampler for per-and polyfluoroalkyl substances in water. *Environmental Science: Water Research & Technology*. 2023

Edmiston, P.L., Carter, E., Toth, K., Hershberger, R.*, Hill, N.*, Versluis, P., Hollinden, P., Divine, C. Field evaluation the Sentinel™ integrative passive sampler for the measurement of per- and polyfluoroalkyl substances in water using a modified organosilica adsorbent. *Groundwater Monitoring & Remediation (2023) in press*.

Kim, Y.*, Pike, K. A.*, Gray, R., Sprankle, J. W.*, Faust, J. A., & Edmiston, P. L. Non-targeted identification and semi-quantitation of emerging per-and polyfluoroalkyl substances (PFAS) in US rainwater. *Environmental Science: Processes & Impacts*. 25, 1771 - 1787 (2023)

Invited Seminars and Conference Presentations (Past 12 years):

SERDP Webinar Series. “Field-Ready PFAS Passive Sampler Calibrated to EPA 1633 Analytes” August 2023

“Passive Sampler for the Time-Integrative Measurement of Per- and Polyfluoroalkyl Substances in Water, SETAC North America Conference November 2022.

2022 Emerging Contaminants in the Environment Conference, “Elucidating the Mechanisms of PFAS Adsorption by Varying Sorbent Surface Chemistry” March 2022

SERDP & ESTCP Symposium, “Elucidating the Mechanisms of PFAS Adsorption by Varying Sorbent Surface Chemistry” December 2021

BASF Scientific Innovation and Interaction Seminar, BASF North America, “Adsorption and Encapsulation Using Mesoporous Organosilica that Swells”, Detroit, February 2020.

From Oceans to Clouds: The Environmental Chemistry of Water. Graduate Student Symposium – Presidential Event. “Per- and Polyfluoroalkyl Substances (PFAS) in the Environment: Lessons Learned from Studying Adsorption to Porous Solids. ACS National Meeting, San Diego, CA, September 2019

University of Illinois, Sustainable Technology Center, “Removal of Perfluoroalkyl Substances (PFAS) from Water Using Tailored and Highly Porous Organosilica Adsorbents” March 2019.

American Chemical Society Meeting National Meeting Presentation: Removal of Perfluoroalkyl Substances from Water Using Molecularly Engineered Coatings on Sand and Silica San Francisco, CA April 2017

“Combining Forces: Enhancing Function Through Chemomechanical Hybrid Materials” Indiana University-Purdue, Fort Wayne, IN March 2016.

The U.S. Algal Toxin Conference 2015. “Testing of new filter media to remove undesired molecules produced by Algae: Osorb media products for the Selective Removal of Microcystin” Akron, OH April 2015.

SERDP Tech

Edmiston, P.L. ACS Presidential Symposium on Ensuring the Sustainability of Critical Materials and Alternatives. “New Tools in the Water Technology Toolbox: Swellable Organosilica for the Reversible Extraction of Organics and Metals” American Chemical Society National Meeting, Philadelphia August 2012.

Lubrizol Innovation Week, Plenary Speaker, Cleveland, September 2012 “Discovery Process in the Chemical Sciences” (Talk on innovation to 200 scientists at Lubrizol, and billion dollar specialty chemical company.)

Edmiston, P.L.; Pickett, D. “Osorb: A new platform technology for water purification” World IUPAC Meeting, San Juan, Puerto Rico, July 2011.

Edmiston, P.L. “The ACS Graduate Fellowship: Past, Present, and Future.” PITTCON, Orlando, FL March 2012.

Edmiston, P.L. Varga, M. Curtze, A. “Versatile catalyst supports that use swellable, highly tensioned organosilica materials to pre-concentrate reagents in nanoscale pore

