

Jonathan W. Peterson

Dean of Natural and Applied Sciences Division
Professor of Geology & Environmental Science

Ruth and John Reed Faculty
Achievement Award

2021

Hope College

MEMBERSHIPS

Geological Society of America
American Society of Civil Engineers

COURSES TAUGHT:

First Year Seminar-Water (IDS 100)
First Year Seminar-Petroleum, People and the Hydrocarbon Age (IDS 100)
First Year Seminar-

Peterson*, Jonas M., Tarp*, Cleveland E., Wade, Randall D., Brokus, Sarah A., Pikaart, M.J., Krueger, Brent P., and Best, Aaron A. (2021). A global reconnaissance of particulates and metals/metalloids in untreated drinking water sources. *Environmental Monitoring and Assessment*, 193:307, <https://doi.org/10.1007/s10661-021-09086-y>.

Nathan Tintle, Kristin Van De Griend, Rachel Ulrich, Randall D. Wade, Tena M. Baar*, Emma Boven*, Carolyn E. A. Cooper*, Olivia Couch*, Lauren Eekhoff*, Benjamin Fry*, Grace K. Goszkowicz*, Maya A. Hecksel*, Adam Heynen*, Jade A. Laughlin*, Sydney M. Les*, Taylor R. Lombard*, B. Daniel Munson*, Jonas M. Peterson*, Eric Schumann*, Daniel J. Settecerri*, Jacob E. Spry*, Matthew J. Summerfield*, Meghana Sunder*, Daniel R. Wade*, Caden G. Zonnefeld*, Sarah A. Brokus, Francesco S. Moen, Adam D. Slater, **Jonathan W. Peterson**, Michael J. Pikaart, Brent P. Krueger and Aaron A. Best. (2021) Diarrhea prevalence in a randomized, controlled prospective trial of point-of-use water filters in homes and schools in the Dominican Republic. *Tropical Medicine and Health*, v. 49:1 <https://doi.org/10.1186/s41182-020-00291-y>

Peterson, J.W., Stock*, M.L., Brophy*, E.E., and Mattson*, B.D. (2019) Using laboratory settling experiments to characterize the suspended load or moveable matrix portion of an urban aquifer: potential relationships to land use. *Journal of Environmental Engineering*, V. 145, Issue 7, DOI: 10.1061/(ASCE)EE.1943-7870.0001547

Peterson, J. W., Petrasky*, L.J., Seymour, M.D., Bergmans*, R.S.,(2016) Laboratory investigation of antibiotic interactions with Fe₂O₃ nanoparticles in water. *Journal of Environmental Engineering*, V.142, Issue 5, May 2016.

Peterson, J.W., Gu, B., Seymour, M.D., (2015), Surface interactions and degradation of a fluoroquinolone antibiotic in the dark in aqueous TiO₂ suspensions. *Science of the Total Environment*, 532, 398-403.

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- Bodenbender, B.E., Hansen, E.C., Peaslee, G.F., and Peterson, J.W., (2000), The environmental science minor: a disciplinary approach to interdisciplinary studies with a grounding in undergraduate research: *Council on Undergraduate Research (CUR) Quarterly*, v .21, n. 2, p. 72-76.
- Peterson, J.W. DeBoer*, M.J. and Lake*, K.L., (2

- Pharmaceuticals in Groundwater: PETRASKY*, Laura J., SEYMOUR, Michael D., and PETERSON, Jonathan W., *Annual Meeting of the Geological Society of America, in Denver, CO, October 31-November 3, 2010.*
- Textural, Mineralogical, and Infiltration Capacity Analysis of Athletic Field Soils: A Metadisciplinary Study for Turf Management: GARCIA*, Katherine G., PETERSON, Leah Marie, and PETERSON, Jonathan W., *Annual Meeting of the Geological Society of America, in Denver, CO, October 31-November 3, 2010.*
- The Role of "Fines" in the Transport of Pharmaceuticals and Personal-Care Products (PPCPs) through Sediments and Soils: WILCOX, Jeffrey D., KERR*, Katharine A., GARCIA*, Katherine G., SEYMOUR, Michael D., and PETERSON, Jonathan W., *Annual Meeting of the Geological Society of America, in Denver, CO, October 31-November 3, 2010*
- Breakdown of Penicillin Antibiotic in Water by Nano-scale Oxides: Implications for Removal of Pharmaceuticals from Aqueous Systems :Laura L. Petrasky*, Michael D. Seymour, and Jonathan W. Peterson, *Annual Meeting of the American Institute of Chemical Engineers (AIChE), Salt Lake City, UT, November 5-8, 2010.*
- Pharmaceuticals and Personal Care Product (PPCP) Adsorption to Managed Turf Soils: Implications for Waste Water Recycling: Katherine G. Garcia*, Leah Marie Peterson, Katharine A. Kerr*, Jeffrey D. Wilcox, Michael D. Seymour and Jonathan W. Peterson, *Annual Meeting of the American Institute of Chemical Engineers (AIChE), Salt Lake City, UT, November 5-8, 2010.*
- Burkhart*, R S., Shaw*, D.C., Schuiling*, A.B., and Peterson, J.W., (2009) *Ampicillin adsorption to nanometer-size Al₂O₃ in water: macroscopic experiments and mechanistic investigations*: Annual Meeting of the Geological Society of America, Portland, OR, October 17-21, 2009.
- Peterson, J.W., Andresen*, D.E., Seymour, M.D., Wang, W. and o0 g0 G{Pet}-4(e)9(r)-3(son,)9(J.W)-3(.,)11(A)5(ndr 79

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- Peterson, J.W.; Bassman*, J., Cencer*, J.L., and Johnson*, E., (2004), Analysis of Insect Occurrence in Groundwater in a Coastal Lake Michigan Aquifer: Poster presentation at *Geological Society of America Annual Meeting*, Denver, Colorado, November 7-10, 2004.
- Halloran*, D.J. and Peterson, J.W., (2004) Analysis of Onychiuridae Occurrence in Groundwater Beneath the Hope College Campus, *Michigan Academy of Science, Arts and Letters, Annual Meeting*, March 5, 2004.
- Peterson, J.W., Weiss*, W.J., Knapman*, M.Y., and Ingersoll*, E.N., (2003), Research Offspring in Your Own Backyard: The Campus Ground Water Project, Invited presentation in a CUR/GSA Special Session, *Geological Society of America Annual Meeting*, Seattle, Washington, November 2-5, 2003
- Peterson, J.W., (2002), Phase relations in undergraduate research: seeking equilibrium in a 3-component system. (Abstract & Presentation), *Geological Society of America Annual Meeting*, October 27-30, 2002, Denver, Colorado.
- Peterson, J.W. and Northup*, A. (2001), Particle-size heterogeneity and subsurface stratification in air sparging: laboratory experiments-field implications (abstract & presentation): *Geological Society of America Annual Meet Ame.00000912 0 61t 2 792r000912 0 6e2 reW*BT/BT/F5 11.04 Tf,9(f)-/impl*

Peterson, J.W., Peaslee, G.F., and Hansen, E.C., (1998), The research seminar: an integrated capstone to an environmental science curriculum (abstract): *Geological Society of America Annual Meeting*

