

**Jonathan W. Peterson**  
Dean of Natural and Applied Sciences Division  
Professor of Geology & Environmental Science

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**August 2025**

<b>EDUCATION</b>	Ph.D.	Geology	1989	University of Chicago
	B.A.	Geology	1984	Hope College

<b>TEACHING FIELDS</b>	Physical Geology, Mineralogy, Petrology, Geochemistry, Analytical Methods, Environmental Public Policy, Environmental Science, Hydrogeology, Petroleum Geology
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**EMPLOYMENT & PROFESSIONAL EXPERIENCE**

2023-current	Dean of Natural and Applied Sciences
2020-2023	Interim Dean for Natural and Applied Sciences
2015-2019	Lavern and Betty DePree VanKley Professor of Geology & Environmental Science
2014,15,16,17	Visiting Summer Professor-Au Sable Institute of Environmental Studies
2014 (Fall)	Resident Director-Fall 2014 GLCA/ACM-Oak Ridge Science Semester Program
2007,08,14	Visiting Scientist-Oak Ridge National Laboratory, Environmental Sci. Div., Environmental Chemistry & Technology Group
2007 (Fall)	Resident Director-Fall 2007 GLCA/ACM-Oak Ridge Science Semester Program
2001-2007	Chairperson - Department of Geological and Environmental Sciences
2009-current	Professor of Geology & Environmental Science, Hope College
2000-2008	Associate Professor of Geology & Environmental Science, Hope College
1994-2000	Assistant Professor of Geology & Environmental Science, Hope College
1992-1994	Remediation Coordinator, Amoco Oil Company
1990-1992	Development/Exploitation Geologist, Amoco Production Company
1989-1990	Exploration Geologist, Amoco Production Company

**HONORS & SELECTIONS**

***Honors:***

Sigma Xi	1988	University of Chicago
Phi Beta Kappa	1984	Hope College
Mortar Board National Honors Society	1983	Hope College

***Selections:***

George F. Baker Scholar (1983-84)	1983,1984	Hope College
Faculty Representative to Technos Intl University, Tokyo, Japan	1999	Hope College
Project Kaleidoscope (PKAL) Faculty for 21st Century	1995	Hope College

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-All that Glitters is not Gold: Precious Metals, Rare Earth Elements, and the Geology of Wealth (IDS 100)  
Physical Geology (GES 101)  
Environmental Geology (GES 108)  
Environmental Geology Lab (GES 109)  
Planet Earth (GEMS 157/GES 100)  
Planet Earth Lab (GEMS 157/GES 100)  
How the Earth Works: Introduction to Plate Tectonics (GES 111)  
Earth Environmental Systems-I (GES 211)  
Laboratory Methods in Environmental Science (GES 220)  
Mineralogy & Mineralogy Lab (GES 241)  
Field Course in Environmental Geology of the Pacific Northwest (GES 295)  
Introduction to Petroleum Geology (GES 320)  
Petroleum and People (GEMS 295)  
Environmental Public Policy (GES 310)  
Petrology and Petrography Lab (GES 332)  
Field Course-Regional Geology of Arizona (GES 341)  
Advanced Environmental Research Seminar (GES 401)  
Environmental Geochemistry (GES 430)  
Hydrogeology and Lab (GES 450)  
Senior Seminar: God, Earth and Ethics (IDS 495)  
Senior Seminar: George Washington and the Presidential Role Model (IDS-495)  
Geochemical Literature Seminar (GES 490)  
Land Resources (Au Sable Institute)

## PUBLICATIONS

**Peer-reviewed Journal Publications:** (\* indicates undergraduates)

Duvvuru\*, Ashish R., Wrobel\*, Ashley M., Kane\*, Eli D., and Peterson, Jonathan W. (2024). Analysis of heavy metals in Ictalurus punctatus (channel catfish), Perca flavescens (yellow perch), and Aplodinotus grunniens (freshwater drum) in a coastal Lake Michigan watershed. *Total Environment Advances*, 10, 200105, <https://doi.org/10.1016/j.teadva.2024.200105>.  
Peterson, Jonathan W., Powers\*, Nicholas S., Yeske\*, Katherine, Peterson\*, Leah M., and Wilcox, Jeffrey D. (2021). Reconnaissance study on adsorption of pharmaceuticals and personal care products to managed turf soils and associated oxide nanoparticles. *Journal of Environmental Engineering*, 147 (11), DOI:10.1061/(ASCE)EE.1943-7870.0001920.  
Peterson, Jonathan W., Fry\*, Benjamin M., Wade\*, Daniel R., Fishman\*, Ford J., Stid\*, Jacob T.,

- 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. Settecce\*, 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 Fe<sub>2</sub>O<sub>3</sub> 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 TiO<sub>2</sub> suspensions. *Science of the Total Environment*, 532, 398-403.
- Peterson, J.W., O'Meara, T.A., Seymour, M.D., (2014) Effects of added Fe<sup>0</sup>, Fe<sub>3</sub>O<sub>4</sub>, and Fe<sub>2</sub>O<sub>3</sub> on sorption of cephalosporin antibiotic in quartz-rich sands. *Journal of Environmental Engineering* 140, 40-47.
- Van Wieren\*, E.M., Seymour, M.D., Peterson, J.W., (2012) Interaction of the fluoroquinolone antibiotic, ofloxacin, with titanium oxide nanoparticles in water: adsorption and breakdown, *Science of the Total Environment*, 441, 1-9.
- Peterson, J.W., Petrasky\*, L.J., Seymour, M.D., Burkhart\*, R.S., and Schuiling\*, A.B., (2012) Adsorption and breakdown of penicillin antibiotic in the presence of titanium oxide nanoparticles in water, *Chemosphere*, 87, 911-917.
- Peterson, J.W., Burkhart\*, R.S., Shaw\*, D.C., Schuiling\*, A.B., Haserodt\*, M.J., and Seymour, M.D., (2010) Experimental determination of ampicillin adsorption to nanometer-size Al<sub>2</sub>O<sub>3</sub> in water, *Chemosphere*, 80, 1268-1273.
- Sullivan, T.J.; Dreyer\*, A.; and Peterson, J.W., (2009) Genetic variation in a subterranean arthropod (*Folsomia candida*) as a method to identify low-permeability barriers in an aquifer, *Pedobiologia*, 53, 99-105.
- Peterson, J.W., O'Meara\*, T.A.; Seymour, M.D.; Wang, W.;and Gu, B., (2009) Sorption mechanisms of cephalosporin, a veterinary antibiotic, onto quartz and feldspar minerals as detected by Raman spectroscopy, *Environmental Pollution*, v. 157, 1849-1856.
- Peterson, Jonathan W., O'Meara\*, T.A., and Seymour, M.D., (2008), Experimental investigation of cephalosporin adsorption to quartz filter sands and dune sands. *Hydrogeology Journal*, vol. 16:879-892.
- Peterson, J.W., Johnson\*, E.M., Cencer\*, J. L., and Thomason\*, C.J.; (2006), Physiochemical conditions of *Folsomia candida* occurrence in a shallow coastal Lake Michigan aquifer, *Environmental Geology*, vol. 49, no. 8, p. 1125-1138 .
- Peterson, J.W.; (2004), "Geology/Earth Science" in The College Board Book of Majors, 1<sup>st</sup> Edition, T. Vandenberg, Edt., Published by College Entrance Examination Board, New York, 1252 pgs.
- Peterson, J.W. and Murray, K.S., (2003), Grain-size heterogeneity and subsurface stratification in air sparging: laboratory experiments-field implications. *Environmental and Engineering Geoscience Journal*, vol IX, No.1, pp.71-82.

- Peterson, J.W., Murray, K.S., Tulu\*, Y.E., Peuler\*, B.D. and Wilkens\*, D.A., (2001), Air-flow geometry in air-sparging of fine-grained sands, *Hydrogeology Journal*, v. 9, p. 168-176.
- 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., (2000), A laboratory simulation of toluene cleanup by air sparging of water-saturated sands, *Journal of Hazardous Materials: Special Issue on Air Sparging* 72, 167-178.
- Peterson, J.W., Lepczyk\*, P.A., and Lake\*, K.L. (1999), Effect of sediment size on area of influence during ground water remediation by air sparging: a laboratory approach: *Environmental Geology*, v. 38, n 1, p.1-6.
- Peterson, J.W., Lepczyk\*, P.A., VandenHeuvel\*, B.A., Lake\*, K.L., and Shull\*, K.A. (1999), An experimental look at air-flow geometry in sediments and its role in cleanup of contaminated ground water: *Michigan Academician*, v. 31, n 1, p. 45-57.
- Peterson, J.W., (1999), Numerical stewardship of the environment: *Perspectives: A Journal of Reformed Thought*, v. 14, n. 1, p. 19-20.
- Peterson, J.W. and Bouma-Prediger, S., (1998), Ethical analysis of risk-based environmental cleanup: a distributive justice approach: *Proteus, A Journal of Ideas*, Fall 1998, Humans and the Environment, v. 15, n 2, p. 19-24.
- Hansen, E.C. and Peterson, J.W., (1996), Undergraduate research in environmental science & environmental science education: a reconnaissance survey: *Council on Undergraduate Research (CUR) Quarterly*, v.16, n. 3, p. 150-156.
- Peterson, J.W., Chacko, T. and Kuehner, S.M., (1991), The effects of fluorine on the vapor-absent melting of phlogopite + quartz: implications for deep-crustal processes: *American Mineralogist*, 76, p. 470-476.
- Peterson, J.W. and Newton, R.C., (1991), CO<sub>2</sub>-enhanced crustal melting: a possible link among porphyritic granite, lamprophyres and gold deposits, in *Greenstone Gold and Crustal Evolution*, Robert, F., Sheahan, P.A., and Green, S.B., eds., *Geological Association of Canada Mineral Deposits Division, NUNA Conference Volume*, p. 67-72.
- Peterson, J.W. and Geiger, C.A., (1990), The Hardwood Gneiss: evidence for high P-T Archean Metamorphism in the Southern Province of the Lake Superior Region: *Journal of Geology*, 98, p. 273-281.
- Goldsmith, J.R. and Peterson, J.W., (1990), Hydrothermal melting behavior of KAlSi<sub>3</sub>O<sub>8</sub> as microcline and sanidine: *American Mineralogist*, 75, p. 1362-1369.
- Skirius, C.M., Peterson, J.W. and Anderson, A.T., (1990), Homogenizing rhyolitic glass inclusions from the Bishop Tuff: *American Mineralogist*, 75, p. 1381-1398.
- Peterson, J.W. and Newton, R.C., (1990), Experimental biotite-quartz melting in the KFMASH-CO<sub>2</sub> system and the role of CO<sub>2</sub> in the petrogenesis of granites and related rocks: *American Mineralogist*, 75, p. 1029-1042.
- Peterson, J.W. and Newton, R.C., (1989), Reversed experiments on biotite-quartz-sanidine melting in the system KFMASH: implications for crustal anatexis: *Journal of Geology*, 97, p. 465-485.
- Peterson, J.W. and Newton, R.C., (1989), CO<sub>2</sub>-enhanced melting of biotite-bearing rocks at deep-crustal pressure and temperature conditions: *Nature*, 340, p. 378-380.
- Chacko, T., Ravindra Kumar, G.R. and Peterson, J.W., (1988), Water activities in the Kerala khondolite belt, in Workshop on the Deep Continental Crust of South India: *Journal of the Geological Society of India*, 31, p. 16-18.

**Abstracts (Published & Presented at Scientific Meetings, \* indicates undergraduates):**

- Almquist\*, Seth, and Peterson, Jonathan W., EFFECTS OF DRUG ADSORPTION ON THE SETTLING OF VERY FINE PARTICLES IN AQUEOUS SUSPENSIONS, *Annual Meeting of the Geological Society of America, Portland, OR, October 10-13, 2021.*
- Duvvuru\*, Ashish, Kane\*, Eli, Wrobel\*, Ashley, and Peterson, Jonathan W., SURVEY OF HEAVY METAL CONTENTS OF FISH IN A COASTAL LAKE MICHIGAN WATERSHED, *Annual Meeting of the Geological Society of America, Portland, OR, October 10-13, 2021.*
- Peterson\*, Jonas M. and Peterson, Jonathan W., CHARACTERIZING THE FUNCTIONAL SIZE DISTRIBUTION OF SETTLEABLE PARTICLES IN VERY-FINE GRAINED AQUEOUS

- SUSPENSIONS USING A COMMONLY ACCESSIBLE SPECTROSCOPIC TECHNIQUE, *Annual Meeting of the Geological Society of America, Phoenix, AZ, September 22-25, 2019.*
- Fry\*, Benjamin, Wade\*, Daniel R., Fishman\*, Ford, Peterson, Jonathan W., Pikaart, Michael J., Schumann\*, Eric, Stid\*, Jacob T., Peterson\*, Jonas M., Brokus, Sarah A., Wade, Randall D., Best, Aaron and Krueger, Brent. HEAVY METALS IN WATER: A GLOBAL SURVEY TO CHARACTERIZE UNTREATED DRINKING SOURCES, *Annual Meeting of the Geological Society of America, Phoenix, AZ, September 22-25, 2019.*
- Peterson, Jonathan W.<sup>1</sup>, Fry\*, Benjamin<sup>2</sup>, Peterson\*, Jonas M.<sup>1</sup>, Stid\*, Jacob T.<sup>3</sup>, Wade, Randall D.<sup>1</sup>, Brokus, Sarah A.<sup>1</sup>, Pikaart, Michael J.<sup>2</sup> and Best, Aaron A. (2018), GLOBAL RECONNAISSANCE SURVEY OF METALS IN UNTREATED DRINKING WATER SOURCES: *Annual Meeting of the Geological Society of America, Indianapolis, IN, November 4-7, 2018.*
- Best, Aaron A.<sup>1</sup>, Baar\*, Tena<sup>1</sup>, Laughlin\*, Jade<sup>1</sup>, Les\*, Sydney<sup>1</sup>, Schoonover\*, Lexi<sup>1</sup>, Slater\*, Adam<sup>1</sup>, Sunder\*, Meghana<sup>2</sup>, Brokus, Sarah A.<sup>3</sup>, Moen, Francesco<sup>1</sup>, Wade, Randall D.<sup>3</sup>, Pikaart, Michael J.<sup>4</sup> and Peterson, Jonathan W.:<sup>5</sup> GLOBAL SURVEY OF MICROBIAL POPULATIONS IN UNTREATED DRINKING WATER SOURCES: *Annual Meeting of the Geological Society of America, Indianapolis, IN, November 4-7, 2018.*
- Peterson\*, Jonas M.<sup>1</sup>, VanderRoest\*, Jacob P.<sup>1</sup>, Wade\*, Daniel R.<sup>1</sup>, Peterson, Jonathan W.<sup>2</sup>, Wade, Randall D.<sup>3</sup>, Brokus, Sarah A.<sup>4</sup>, Pikaart, Michael J.<sup>5</sup> and Best, Aaron A.<sup>6</sup> DETERMINING SIZE DISTRIBUTION OF VERY FINE PARTICLES IN ENVIRONMENTAL SAMPLES VIA A SIMPLE SETTLING EXPERIMENT: A SPECTROSCOPIC RECONNAISSANCE METHOD: *Annual Meeting of the Geological Society of America, Indianapolis, IN, November 4-7, 2018.*
- Wade\*, Daniel R.<sup>1</sup>, VanderRoest\*, Jacob P.<sup>1</sup>, Tarp\*, Cleveland E.<sup>1</sup>, Stid\*, Jacob T.<sup>2</sup>, Peterson\*, Jonas M.<sup>1</sup>, Peterson\*, Josiah J.<sup>1</sup>, Wade, Randall D.<sup>1</sup>, Brokus, Sarah A.<sup>1</sup>, Best, Aaron A.<sup>3</sup>, Pikaart, Michael J.<sup>4</sup> and Peterson, Jonathan W., A GLOBAL RECONNAISSANCE SURVEY OF PARTICULATES IN UNTREATED DRINKING WATER SOURCES: POTENTIAL RELATIONSHIPS TO WORLDWIDE METADATA: *Annual Meeting of the Geological Society of America, Indianapolis, IN, November 4-7, 2018.*
- Cleveland Tarp\*, Jonas Peterson\*, Owen Donahoe\*, Randall Wade, Sarah Brokus, Michael Pikaart, Aaron Best, and Jonathan Peterson (2017), GLOBAL SURVEY OF SUSPENDED LOAD MINERALOGY, HEAVY METAL CONTENT, AND ANTIBIOTIC RESIDUES IN RURAL DRINKING WATER SOURCES USING POINT-OF-USE WATER FILTER KITS: *Annual Meeting of the Geological Society of America, Seattle, WA, October 22-25, 2017.*
- McKenzie Stock\* and Jonathan Peterson (2017), DEVELOPING AN EMPIRICAL MODEL TO PREDICT THE SIZE OF VERY-FINE PARTICLES IN NATURAL WATER SUSPENSIONS VIA A LABORATORY SETTLING EXPERIMENT: *Annual Meeting of the Geological Society of America, Seattle, WA, October 22-25, 2017.*
- Owen Donahoe\*, Jonas Peterson\*, Cleveland Tarp\*, Sarah Brokus, Randall Wade, Sarah Brokus, Michael Pikaart, Aaron Best, and Jonathan Peterson (2017), GLOBAL SURVEY OF SUSPENDED LOAD MINERALOGY AND HEAVY METAL CONTENT IN RURAL DRINKING WATER SOURCES USING POINT-OF-USE WATER FILTER KITS: *Annual Meeting of the American Institute of Chemical Engineers (AIChE), Minneapolis, MN, October 27-30, 2017.*
- Peterson, J.W., Brophy, E.E., Mattson, B.D. and Stock, M.L., (2016), Characterization of sub-micron suspended load in a shallow aquifer: correlation to urban land use: *Annual Meeting of the Geological Society of America, Denver, CO, September 24-28, 2016.*
- Van Wieren\*, E.M., Seymour, M.D., and Peterson, J. W., Interaction of a Fluoroquinolone Antibiotic with Nanometer-size Soil Oxide Particles: Adsorption and Breakdown: *Annual Meeting of the Geological Society of America, in Denver, CO, October 31-November 3, 2010*
- Adsorption of Pharmaceuticals and Personal Care Products (PPCPs) to Nano-scale Oxides: POWERS\*, Nicholas S., WILCOX, Jeffrey D., SEYMOUR, Michael D., and PETERSON, Jonathan W., *Annual Meeting of the Geological Society of America, in Denver, CO, October 31-November 3, 2010.*
- Nanoparticle enhanced Degradation of Penicillin Antibiotic in Water: Implications for Fate and Transport of

- 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  $Al_2O_3$  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 Gu, B., (2009), *Raman spectroscopic investigation of cephalosporin antibiotic sorption onto  $SiO_2$ ,  $Al_2O_3$ , and plagioclase feldspar*: Annual Meeting of the Geological Society of America, Portland, OR, October 17-21, 2009.
- Schuiling\*, A.B., Burkhart\*, R.S., Shaw\*, D.C., and Peterson, J.W. (2009) *Antibiotic adsorption to nanometer-size  $Fe_2O_3$  and  $TiO_2$* : Annual Meeting of the Geological Society of America, Portland, OR, October 17-21, 2009.
- Peterson, Jonathan W., O'Meara\*, T.A.; Seymour, M.D.; Wang, W.; and Gu, B., (2008), Mechanisms of Cephalosporin Antibiotic Adsorption to Quartz and Feldspar: *Annual Meeting of the Geological Society of America*, Houston, TX, October 5-10, 2008.
- Dreyer\*, A., Sullivan, T.J. and Peterson, J.W. (2007), Using Molecular Estimates of Gene Flow in a Groundwater Arthropod as a Method to Identify Cross-gradient Migration Pathways in Aquifers: *ESA/SER Joint Meeting*, San Jose, California, August 5-10, 2007.
- Brisbin\*, A.M. and Peterson, J.W., (2006), The Association of Fine-particle Mineralogy and *Folsomia candida* occurrence in a Coastal Lake Michigan Aquifer: *Annual Meeting of the Geological Society of America*, Philadelphia, PA, October 22-25, 2006.
- O'meara\*, T.A., Peterson, J.W., and Seymour, M.D., (2006), Cephalosporin Adsorption in Sand-Iron Systems: Effects of Hematite, Magnetite and Zero-valent Iron: *Annual Meeting of the Geological Society of America*, Philadelphia, PA, October 22-25, 2006.
- Dreyer\*, A. P., Sullivan, T. J., and Peterson, J.W., (2006), Using Genetic Characterization of a Groundwater Arthropod As A Potential Method To Identify Cross-gradient Migration Pathways In Aquifers: *Annual Meeting of the Geological Society of America*, Philadelphia, PA, October 22-25, 2006.
- Johnson\*, E.M., Thomason\*, C.J., Cencer\*, J.L., and Peterson, J.W., (2006), *Folsomia candida* Occurrence in a Shallow Coastal Michigan Aquifer: *Annual Meeting of the Michigan Academy of Sciences, Arts and Letters*, Oakland University, Rochester, MI , March 3, 2006
- O'Meara\*, T.A., Peterson, J.W. and Seymour, M.D., (2006), Experimental Investigation of Antibiotic Adsorption in Sand-Iron Systems: *Annual Meeting of the Michigan Academy of Sciences, Arts and Letters*, Oakland University, Rochester, MI , March 3, 2006,
- O'Meara\*, T.A., Seymour, M.D., and Peterson, J.W., (2005), Experimental Investigation of Cephalosporin Adsorption to Sands: Implications for Transport of Antibiotics in Groundwater: *Annual Meeting of the Geological Society of America*, Salt Lake City, UT, October 15-19, 2005, Abstracts w/Programs, v. 37, n.7, p. 169.

- Cencer\*, J.L., Johnson\*, E.M., Thomason\*, C.J., and Peterson, J.W., (2005), Physical Conditions of *Folsomia candida* occurrence in shallow groundwater. *Annual Meeting of the Geological Society of America*, Salt Lake City, UT, October 15-19, 2005.
- Peterson, J.W. (2004), The Savvy Traveler: Learning Language & Customs of Interdisciplinary Research: Invited presentation in a CUR/GSA Special Session-Integrative Interdisciplinary Undergraduate Research in the Earth Sciences, *Annual Meeting of the Geological Society of America*, Denver, Colorado, November 7-10, 2004.
- 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 Meeting*, Boston, Massachusetts, November 5-8, 2001.
- Murray, K.S. and Peterson, J.W., (2001), Groundwater and transport of phosphorous from an agricultural watershed into Lake Michigan (abstract): *The Shiga-Michigan Joint Symposium: Toward Sustainable Management of Lake-Watershed Ecosystems*, University of Shiga Prefecture, Japan, July 19-20, p. 55.
- Murray, K.S. and Peterson, J.W., (2001), Groundwater and transport of phosphorous from an agricultural watershed into Lake Michigan (abstract): *International Association for Great Lakes Research Annual Meeting*, University of Wisconsin-Green Bay, Green Bay, Wisconsin, June 10-14, 2001, p.99.
- Peterson, J.W., (2001), The role of GIS in undergraduate liberal arts education (presentation): NSF-AIRE Roundtable Workshop, *Using GIS in Earth and Environmental Sciences Curriculum: Who is Doing What*, University of Michigan-Dearborn, April 21, 2001.
- Brondyke\*, K.L., Lowe\*, C.L., Nash\*, D.G., Van Oort\*, M., and Peterson, J.W., (2001), Determination of the extent and sources of pollution in the Macatawa Watershed through indicator bacteria analysis, *Michigan Academy of Science, Arts and Letters, Annual Meeting*, March 9, 2001.
- Ide\*, N.D., Petersen\*, A.D., Rypma\*, S.J., and Peterson, J.W., (2001), Aqueous phosphate uptake rates in Western Michigan wetland plants, *Michigan Academy of Science, Arts and Letters, Annual Meeting*, March 9, 2001.
- Peterson, J.W., Tulu\*, Y.I., Peuler\*, B.D., and Murray, K.S., Flow geometry in air sparging of fine-grained sands (abstract): *Geological Society of America Annual Meeting*, Abstracts with Programs, v. 32, n. 7, Reno, Nevada, November 9-18, 2000.
- Bodenbender, B.E., Hansen, E.C., Peaslee, G.F. and Peterson, J.W., (2000), The environmental science minor: a disciplined approach to interdisciplinary studies, CUR Meeting, 6/2000
- Peterson, J.W., DeBoer\*, M.J., Peuler\*, B.D., Tulu\*, Y.I., and Roy\*, H.R., (1999), An experimental simulation of volatile organic compound remediation by air sparging of water-saturated sands (abstract): *Geological Society of America Annual Meeting*, Denver, Colorado, October 27, 1999.
- Peterson, J.W., Peaslee, G.F., and Hansen, E.C., (1999), Incorporating undergraduate research into an interdisciplinary environmental science program (abstract): *Geological Society of America Annual Meeting*, Denver, Colorado, October 26, 1999.
- Roy\*, H.R., Seramur\*, E.L., Peterson, J.W., and Bouma-Prediger, S.C., (1999), An undergraduate course in applied environmental ethics: an integrated project between natural sciences and the humanities (abstract): *Geological Society of America Annual Meeting*, Denver, Colorado, October 27, 1999.
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