

## Brian P. Jackson

Trace element Analysis Core Laboratory,  
Department of Earth Sciences,  
Dartmouth College, Hanover, NH 03755  
E-mail: Brian.P.Jackson@dartmouth.edu  
Tel: (603)-646-1272  
Fax: (603)-646-3922

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### Professional Employment

- 2010-PRESENT    Research Associate Professor, Department of Earth Sciences,  
Director, Trace Element Analysis Core Laboratory, Dartmouth College, NH, 03755
- 2005-2010        Research Assistant Professor, Department of Earth Sciences,  
Director, Trace Element Analysis Core Laboratory, Dartmouth College, NH, 03755
- 1998-2005        ICP-MS Manager, Savannah River Ecology Laboratory,    Aiken, SC, 29803
- 1998              ICP-MS Product Specialist, Perkin-Elmer Corporation, Norwalk, CT,
- 1993- 1998       Agricultural Research Assistant, University of Georgia, Athens, Georgia 30602
- 1990-1993        Assistant Editor, Royal Society of Chemistry, Cambridge, U.K.

### Education

- 1998              **Ph.D. Agronomy (Soil Chemistry)**  
University of Georgia,  
Athens, GA  
Dissertation: Trace Element Solubility from Land Application of Fly Ash/Organic Waste  
Mixtures with an Emphasis on Arsenic and Selenium Speciation.  
Major Professor: William P. Miller
- 1989              **B.A. Chemistry**  
Oriel College,  
Oxford University,  
Oxford, U.K  
Fourth year thesis: X-ray crystallography of selected organic compounds

### Teaching Experience

*Dartmouth College, Department of Earth Sciences*

- Spring 2014    EARS 124        Analytical Chemistry and Instrumental Analysis
- Fall 2013       EARS 62/162    Geochemistry
- Spring 2013    EARS 124        Analytical Chemistry and Instrumental Analysis
- Fall 2010       EARS 74/174    Soil and Aqueous Geochemistry
- Winter 2010    EARS 202        Geochemistry. 'Concepts and Methods'.
- Winter 2009    EARS 124        Analytical Chemistry and Instrumental Analysis.
- Winter 2008    EARS88          Senior Seminar
- Winter 2007    EARS 124        Analytical Chemistry and Instrumental Analysis.

Brian P Jackson  
Perkin Elmer Corporation  
April- October 1998

Instructor: ICP-MS training course  
Perkin Elmer, Wilton CT

University of Georgia  
Winter 96

Teaching Assistant for undergraduate Forest Soils

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## **Advising and Mentoring**

### *Graduate and Post Doctoral Advisees*

Jie Yang, Sam Beal, Jing Sun, Vivien Taylor Ph.D. (Dartmouth)

### *Graduate Committee Member*

Elena Ramirez, Andrew Quicksall, Owen Cadwalader, Derek Smith, Justin Richardson, Michael Prieststaff, Erika Zocher, Jie Hy Seo (Dartmouth). Franta Majs (UGA)

### *Undergraduate Advisees*

Florence Ling, Laura Hempel, Ryan Akremi, Bridget Alex, Amanda Greenberg (Dartmouth). Anna Daigle (St Anslem). Jane Chen (Brown), Lauren Hendricks (Colby Sawyer).

## **Professional Affiliations**

American Chemical Society  
Geochemical Society

**Reviewer for:** Environmental Science and Technology, Environmental Toxicology and Chemistry, Chemosphere, Journal of Analytical Atomic Spectroscopy, Archives of Environmental Contamination and Toxicology, Journal of Environmental Monitoring, Journal of Environmental Quality, Soil Science Society of America Journal. US DOE (proposals).

## **Current Research Interests**

Speciation analysis by IC-ICP-MS

Arsenic in foods

Biogeochemistry of mercury in soils and sediments

Applications of laser ablation-ICP-MS in environmental and biological sciences

Field flow fractionation techniques for elucidating contaminant transport

## **Funding**

### **Proposals:Current**

Stanton, BA (Jackson Co PI) Sources and Protracted Effects of Early Life Exposure to Arsenic and Mercury.

NIH/NIEHS. 04/01/14 - 03/31/19.

Karagas, M.A. (Jackson Co PI) Children's Environmental Health and Disease Prevention Research Center at Dartmouth.

NIEHS/NSF 04/01/13-03/31/18.

Jackson, BP, Hogan D Biotic and abiotic transformations of organo-arsenic compounds  
Dartmouth Internal Pilot (286051) 09/01/2014-03/30/2017

Jackson BP, Renock, D. Renshaw, C.

Dartmouth Internal Pilot (510643) 09/01/2014-03/30/2017

Fate of Androscoggin River Floodplain Mercury from the Chlor-Alkali Facility Superfund Site, Berlin, NH

Jackson, BP, Karagas, MK. The Role of Cadmium and other Trace Elements in Young-Onset Breast Cancer  
NIEHS (HHSN273201600074P) 2016 - 2017

Israel, M. Cancer Center Support Grant  
NIH/NCI (5P30CA023108) 12/01/2014 - 11/30/2019

### Proposals:Completed

Chen, CY, Mason, RP., Jackson B.P., Ward, EJ. Examining impacts of changing climate and eutrophication on methylmercury dynamics in coastal ecosystems and implications for human exposure. NIH, 10/12-08/15,  
Jackson BP Low Level Measurement of Trace Metals in Biota. Tennessee Valley Authority. 12/15/2011-12/31/2012.  
Jackson BP Assessment of Arsenic Speciation and Exposure in Seaweed Products from New England. New Hampshire Sea Grant College Program NH Sea Grant Development Funds. Pilot funding  
Jackson, B.P., Karagas, M.R. Measurement of Arsenic, Selenium, and Other Selected Elements in NEBCS & SEBCS Respondent Toenails, National Cancer Institute, 04/10-07/31/11.  
Punshon, T, Cottingham, K, Jackson, BP. Market basket study of arsenic concentration and speciation in locally-available rice-based baby cereals and related products. Dartmouth Internal Pilot. 2009-2010.  
Stanton, B.A., (Jackson, Co-PI). American Recovery and Reinvestment Act of 2009 (ARRA). Toxic Metals in the Northeast: From Biological to Environmental Implications 09/06/09-08/31/11  
Bostick B. Renshaw,C. Kaste J. Jackson, B. Establishing a Quantitative Link between Mineral Transformations, Speciation, and the Transport of Arsenical Pesticides in Soils. USDA NRI.  
Hamilton, J.W. (Jackson, Co-PI) Toxic Metals in the Northeast: From Biological to Environmental Implications. NIEHS. 04/2005-04/2008.  
Ranville, J.R. B. Butler. Nanoparticle Stability in Natural Waters and its Implication for Metal Toxicity to Water Column and Benthic Organisms. EPA. October 06 -09.  
Bertsch. P.M., B.P. Jackson, A.L. Neal, T. Glenn. The bioavailability, toxicity, and trophic transfer of manufactured ZnO nanoparticles: a view from the bottom. USEPA, 09/05-09/08.  
Bertsch, P.M., Sowder, A, Jackson, B.P. DOE Environmental Management Science Program Linking chemical speciation, desorption kinetics, and bioavailability of U and Ni in aged-contaminated sediments: A scientific basis for natural attenuation and risk assessment". 20 02-05.  
Jackson, B.P., Bertsch, P.M. and Seaman, J.C. Environmental fate of arsenic from poultry litter. USDA NRICGP Award. 2001. (3yr.)  
Adriano, D.C., A.C. Chang, S. Deng, M. Guerin, S. Harper, B.P. Jackson, A. Neal, and M. Wilson. Regulation of metal bioavailability in the floodplain continuum by carbon and sulfur cycling. NSF-Biocomplexity CBC. Exploratory awarded 2003-2004,

### Publications

1. Punshon, TP, Li, Z, Marist, CJ, Jackson, BP, Karagas, MR. 2016. Placental metal concentrations in relation to maternal and infant biomarkers of exposure in a US cohort. Environmental Science and Technology.
2. Green, BB, Karagas, MR, Punshon, T., Jackson, BP, Robbins, DR, Houseman, EA, Marsit, CJ, 2016, Epigenome-wide assessment of differential DNA methylation in the placenta due to arsenic exposure. Environmental Health Perspectives
3. Rand MD, Vorojeikina D , Wijngaarden E, Jackson BP , Scrimale T, Zareba G , Love, TM, Myers, GJ, Watson, G. 2015. Methods for individualized determination of methylmercury elimination rate and demethylation status in humans following fish consumption. Toxicological Sciences, 10.1093/toxsci/kfv241

4. Notch EG, Goodale BC, Barnaby R, Coutermarsh B, Berwin B, Taylor VF, Jackson BP, Stanton BA. 2015. Monomethylarsonous Acid (MMAIII) Has an Adverse Effect on the Innate Immune Response of Human Bronchial Epithelial Cells to *Pseudomonas aeruginosa*. *PLoS One*. 10(11): e0142392. doi: 10.1371/journal.pone.0142392
5. Punshon, TP, Davis, MA, Marist, CJ, Theiler, SK, Baker, ER, Jackson, BP, Conway, DC, Karagas, MR. 2015. Placental arsenic concentrations in relation to both maternal and infant biomarkers of exposure in a US cohort. *Journal of Exposure Science and Environmental Epidemiology*, 25(6),599-603.
6. Punshon, TP, Chen, S, Finney, L, Howard, L, Jackson, BP, Karagas, MR, Ornvold, K. 2015. High resolution elemental mapping of human placental chorionic villi using synchrotron X-ray fluorescence spectroscopy. *Analytical and Bioanalytical Chemistry*, 407,6839-6850.
7. Beane Freeman, LE, Karagas, MK, Baris, D, Schwenn, M, Johnson, AT, Colt, JS, Jackson, BP, Hossain, M., Cantor, KP, Silverman, DT. 2015. Is the inverse association between selenium and bladder cancer due to residual confounding by smoking? *American Journal of Epidemiology*, 181(7), 488-495.
8. Cardenas A, Koestler DC, Houseman EA, Jackson BP, Kile ML, Karagas MR, Marsit CJ. 2015. Differential DNA methylation in umbilical cord blood of infants exposed to mercury and arsenic in utero. *Epigenetics*, 10(6):508-15.
9. Steen, DA, Van Dyke, JU, Jackson, BP, Hopkins, WA. 2015. Reproduction and hatchling performance in freshwater turtles associated with a remediated coal fly-ash spill. *Environmental Research*. 138, 38-48.
10. Jackson, BP. 2015. Fast Ion Chromatography-ICP-QQQ for arsenic speciation. *Journal of Analytical Atomic Spectroscopy*. 30(6):1405-1407.
11. Richardson, J.B., Gorres, J.H., Jackson, B.P., Friedland, A.J. 2015. Trace metals and metalloids in forest soils and exotic earthworms in northern New England, USA. *Soil Biology and Biochemistry*, 85, 190-198.
12. Jackson, BP, Punshon, T. 2015. Recent Advances in the Measurement of Arsenic, Cadmium, and Mercury in Rice and Other Foods. *Current Environmental Health Reports*. 2(1),15-24.
13. Jung D, Adamo MA, Lehman RM, Barnaby R, Jackson CE, Jackson BP, Shaw JR, Stanton BA. 2015. A novel variant of aquaporin 3 is expressed in killifish (*Fundulus heteroclitus*) intestine. *Comp Biochem Physiol C* 171, 1-7. PMID: 25766383.
14. Beck, ML, Hopkins, WA, Jackson, BP, Hawley, DM. 2015. The effects of a remediated fly ash spill and weather conditions on reproductive success and offspring development in tree swallows. *Environmental Monitoring and Assessment*, 187:119
15. Buckman KL, Marvin-DiPasquale M, Taylor VF, Chalmers A, Broadley HJ, Agee J, Jackson BP, Chen CY. 2015. Influence of a chlor-alkali Superfund site on mercury bioaccumulation in periphyton and Low-trophic level fauna. *Environ Toxicol Chem*. 34(7),1649-1658. PMID: 25732794.
16. Jackson, B.P., Liba, A., Nelson, J. 2015. Advantages of reaction cell ICP-MS on doubly charged interferences for arsenic and selenium analysis in foods. *Journal of Analytical Atomic Spectroscopy*. (30), 1179-1183.
17. Carignan CC, Cottingham KL, Jackson BP, Farzan SF, Gandolfi AJ, Punshon T, Folt CL, Karagas MR. 2015. Estimated Exposure to Arsenic in Breastfed and Formula-Fed Infants in a United States Cohort. *Environ Health Perspect*. 123(5),500-506.
18. Beck, ML, Hopkins, WA, Jackson, BP. 2014. Variation in riparian consumer diet composition and differential bioaccumulation by prey influence the risk of exposure to elements from a recently remediated fly ash spill. *Environmental Contamination and Toxicology*. 33, 11, 2595-2608.
19. Van Dyke, J U, Steen, D.A., Jackson, B.P., Hopkins, W.A. 2014. Maternal transfer and embryonic assimilation of trace elements in freshwater turtles after remediation of a coal fly-ash spill. *Environmental Pollution*. 194, 38-49.

20. Davis, M.A., Li, Z. Gilbert Diamond., D., Mackenzie, T.A., Cottingham, K.L., Jackson, B.P., Lee, J.S., Baker, E.R., Marsit, C.J., Karagas, M.R. 2014, Infant toenails as a biomarker of in utero arsenic exposure. *Journal of Exposure Science and Environmental Epidemiology*, Sep:24(5):467-473.. PMID: PMC4141012.
21. Taylor, VF, Bugge, D., Jackson, BP., Chen. CY. 2014. Pathways of CH<sub>3</sub>Hg and Hg Ingestion in Benthic Organisms: An Enriched Isotope Approach. *Environmental Science and Technology*. 48,9, 5058-5065. PMID: PMC4014141
22. Richardson, J.B., Friedland, A.J., Engerbretson, T.R., Kaste, J.M., Jackson, B.P. 2014. Forest Floor Lead Changes from 1980 to 2011 and Subsequent Accumulation in the Mineral Soil across the Northeastern United States. *Journal of Environmental Quality*. 43, 3, 926-935.
23. Gosse, J.A., Taylor, VF. Jackson, BP. Hamilton, J.W., Bodwell, J.E. 2014. Monomethylated trivalent arsenic species disrupt steroid receptor interactions with their DNA response elements at non-cytotoxic cellular concentrations. *Journal of Applied Toxicology*. 34, 5, 498-505. PMID: PMC3884051
24. Tajuddin SM, Amaral AF, Fernández AF, Chanock S, Silverman DT, Tardón A, Carrato A, García-Closas M, Jackson BP, Toraño EG, Márquez M, Urduñigo RG, García-Closas R, Rothman N, Kogevinas M, Real FX, Fraga MF, Malats N. 2014. LINE-1 methylation in leukocyte DNA, interaction with phosphatidylethanolamine N-methyltransferase variants and bladder cancer risk. *Br J Cancer*110(8):2123-30. PMID: PMC3992509.
25. Beal, S.A., Kelly, M.A., Stroup, J.S., Jackson, B.P., Lowell, T.V., Tapia, P.M., 2014. Natural and anthropogenic variations in atmospheric mercury deposition during the Holocene near Quelccaya Ice Cap, Peru. *Global Biogeochemical Cycles*. 28,4, 437-450.
26. Van Dyke, J U., Jackson, B.P., Hopkins, W.A. 2013. Influence of relative trophic position and carbon source on selenium bioaccumulation in turtles from a coal fly-ash spill site. *Environmental Pollution*. 182,45-52.
27. Van Dyke, J U., Beck, M.L., Jackson, B.P., Hopkins, W.A. 2013. Interspecific Differences in Egg Production Affect Egg Trace Element Concentrations after a Coal Fly Ash Spill. *Environmental Science and Technology*. 47,23, 13763-13771.
28. Beal, S.A., Jackson, B.P., Kelly, M.A., Stroup, J.S., Landis, J.D., Effects of Historical and Modern Mining on Mercury Deposition in Southeastern Peru. 2013. *Environmental Science and Technology*, 47 (22), 12715-12720. PMID: PMC3863380.
29. Richardson, J.B., Friedland, A.J., Engerbretson, T.R., Kaste, J.M., Jackson, B.P. Spatial and vertical distribution of mercury in upland forest soils across the northeastern United States. 2013, *Environmental Pollution*, 182, 127-134. PMID: PMC3800094.
30. Tajuddin SM, Amaral AFS, Fernández AF, Rodríguez-Rodero S, Rodríguez RM, Moore LE, Tardón A, Carrato A, García-Closas M, Silverman DT, Jackson BP, García-Closas R, Cook AL, Cantor KP, Chanock S, Kogevinas M, Rothman N, Real FX, Fraga MF, Malats N. 2013. Genetic and Non-genetic Predictors of LINE-1 Methylation in Leukocyte DNA. *Environmental Health Perspectives*, 121,6, 650-655. PMID: PMC3672919.
31. Beck, ML, Hopkins, WA, Jackson,BP. 2013. Spatial and Temporal Variation in the Diet of Tree Swallows: Implications for Trace-Element Exposure After Habitat Remediation. *Archives of Environmental Contamination and Toxicology*. 65,3,575-587.
32. Jackson, B.P., Bugge, D, Ranville, J.F., Chen. C.Y. Bioavailability, toxicity, and bioaccumulation of quantum dot nanoparticles to the amphipod *Leptocheirus plumulosus*. 2012. *Environmental Science and Technology*. 46(10), 5550-5556.
33. Kozul, C.D., Jackson, B.P., Enelow, R.I, Hamilton, J.W. 2012. Effects of low-dose drinking water arsenic on mouse fetal and postnatal growth and development. *PLoS One*, 7(5):e38249.
34. Taylor, V.F., Jackson, B.P, Siegfried, M. Francesconi, K., Kirshtein, J. Voytek, M. 2012. Multiple Arsenic speciation and cycling in food chains from mid-Atlantic hydrothermal vents. *Environmental Chemistry*, 9(2):130-138.

35. Jung D., MacIver, B., Jackson, B., Barnaby, R., Sato, J.D., Zeidel, M.L., Shaw, J.R. and B. A. Stanton. 2012. A novel aquaporin 3 in killifish (*Fundulus heteroclitus*) is not an arsenic channel. *Toxicological Sciences*. 127(1):101-109
36. Jackson, B.P, Taylor, V.F., Punshon, T. Cottingham, K.L. 2012. Arsenic, Organic foods and Brown Rice Syrup. *Environmental Health Perspectives*. 120(5):623-626.
37. Jackson, B.P, Taylor, V.F., Punshon, T. Cottingham, K.L. (2012) Arsenic concentration and speciation in infant formulas and first foods. *Pure and Applied Chemistry* 84: 215-224.
38. Chen, C.Y., Kamman, N., Williams J., Bugge, D. Taylor, V.F., Jackson, B.P., Miller E. 2012. Spatial and temporal variation in mercury bioaccumulation by zooplankton in Lake Champlain (North America), *Environmental Pollution*, 161: 343-349.
39. Miller, E.K, Chen, C.Y., Kamman, N., Shanley,J., Chalmers, A., Jackson, B.P. Taylor, V., Smeltzer, E., Stangel, P., Shambaugh. A. 2012. Mercury in the pelagic food web of Lake Champlain. *Ecotoxicology*. 21(3):705-718.
40. Carey A.M., Lombi E., Donner E., de Jonge M.D., Punshon T., Jackson B.P., Gueriot M.L., Price A.H., Meharg A.A. 2012. A review of recent developments in the speciation and location of arsenic and selenium in rice grain. *Analytical and Bioanalytical Chemistry*. 402: 3275-3286.
41. Bryan, Jr., A.L. Hopkins, W.A. , Parikh, J.H., Jackson, B.P., Unrine, J.M. 2012. Coal Fly Ash Basins as an Attractive Nuisance to Birds: Parental Provisioning Exposes Nestlings to Harmful Trace Elements. *Environmental Pollution* 161: 170-177.
42. Gilbert-Diamond, D., Cottingham , K.L., Gruber, J.F., Punshon , T. , Sayarath , V., Gandolfi , A. J., Baker, E.R., Jackson, B.P., Folt , C.L., Karagas , M.R . (2011) Rice consumption contributes to arsenic exposure in US women. *Proceedings of the National Academy of Sciences U S A*. 20;108(51):20656-60.
43. Amaral, A.F.S, Porta, M. Silverman, D.T., Milne, R.L., Kogevinas, M., Rothman, N., Cantor, K.P., Jackson, B. P. Pumarega, J.A., López, T., Carrato, A., Guarner, L., Real, F.X., Malats, N. 2011. Pancreatic cancer risk and levels of trace elements. *Gut*. 61(11):1583-1588.
44. Taylor, V.F., Carter, A., Davies, C., Jackson, B.P. 2011.Trace-level automated mercury speciation analysis. *Analytical Methods*. 3, 1143-1148.
45. Cadwalader, G.O., Renshaw, C.E., Jackson, B.P., Magilligan, F.J., Landis, J.D., Bostick, B.C. 2011. Erosion and physical transport via overland flow of arsenic and lead bound to silt-sized particles. *Geomorphology*, 128, 85-91.
46. Gifford, A.H., Miller, S.D., Jackson, B.P., Hampton, T.H., O'Toole, G.A., Stanton, B.A. and Parker, H.W. Iron and CF-related Anemia. Expanding clinical and biochemical relationships. 2010. *Pediatric Pulmonology*. DOI: 10.1002/ppul.21335
47. High, W.A., J.F. Ranville, M. Brown, T. Punshon, A. Lanzirotti, B.P. Jackson, 2010, Gadolinium deposition in nephrogenic systemic fibrosis: An examination of tissue using synchrotron x-ray fluorescence spectroscopy. *Journal of American Academy of Dermatology* 62(1), 38-44.
48. Heck J.E., Andrew A.S., Onega T., Rigas J.R., Jackson B.P., Karagas M.R, Duell E.J. 2009. Lung disease and lung cancer in a US population with low to moderate arsenic exposure. *Environmental Health perspectives*.117:1718-1723.
49. Jackson, B., H. Pace, A. Lanzirotti, R. Smith, J.Ranville. 2009. Synchrotron X ray 2D and 3D elemental imaging of CdSe/ZnS quantum dot nanoparticles in *Daphnia Magna*. *Analytical and Bioanalytical Chemistry*. 394:911–917.
50. Jackson, B., V Taylor, R.A. Baker, E. Miller. 2009. Low level mercury speciation in freshwaters by isotope dilution GC-ICP-MS. *Environmental Science and Technology*, 43, 2463–2469.
51. Chen, C., Dionne, M., Mayes, B., Ward, D., Sturup, S., Jackson, B. 2009. Mercury bioavailability and bioaccumulation in estuarine food webs in the Gulf of Maine. *Environmental Science and Technology*. 43 (6), 1804–1810.
52. Taylor, V.F., B.P. Jackson, C.Y. Chen, 2008. Mercury speciation and total trace element determination of low-biomass biological samples. *Anal. Bioanal. Chem*. 392:1283–1290.

53. Kozul CD, Nomikos AP, Hampton TH, Warnke LA, Gosse JA, Davey JC, Thorpe JE, Jackson BP, Ihnat MA, Hamilton JW. 2008. Laboratory diet profoundly alters gene expression and confounds genomic analysis in mouse liver and lung. *Chemico-Biological Interactions* 173:129-140
54. Shaw, J.R., B. Jackson, K. Gabor, S. Stanton, J. W. Hamilton, B. A. Stanton. 2007. The Influence of Exposure History on Arsenic Accumulation and Toxicity in the Killifish, *Fundulus Heteroclitus*. *Environmental Toxicology and Chemistry* 26: 2704–2709
55. Unrine J. M., B.P. Jackson, W.A. Hopkins. 2007. Selenomethionine biotransformation and incorporation into proteins along a simulated food chain. *Environmental Science and Technology*, 41:3601-3606
56. Unrine J. M., W.A. Hopkins, C.S. Romanek, and B.P. Jackson. 2007. Bioaccumulation of trace elements in omnivorous amphibian larvae: Implications for amphibian health and contaminant transport. *Environmental Pollution*, 149, 182-192.
57. Jackson, B.P., P.M. Bertsch and J.C. Seaman. 2006. Fate of arsenic compounds in poultry litter upon land application. *Chemosphere*. 65:2028-2034.
58. Unrine J. M., B.P. Jackson, W.A. Hopkins, C.S. Romanek. 2006. Isolation and Partial Characterization of Proteins Involved in Maternal Transfer of Selenium in the Western Fence Lizard, *Sceloporus occidentalis*. *Environmental Toxicology and Chemistry*. 25:1864-1867.
59. Jackson, B.P., S. Harper, L. Smith and J. Flinn. Elemental mapping and quantitative analysis of Cu, Zn and Fe in rat brain sections by laser ablation ICP-MS. 2006. *Analytical and Bioanalytical Chemistry*. 384:951-957.
60. Hopkins WA, DuRant SE, Staub BP, Rowe CL, and Jackson BP. 2005. Reproduction, Embryonic Development, and Maternal Transfer of Contaminants in the Amphibian *Gastrophryne carolinensis*. *Environmental Health Perspectives* 114,661-666.
61. Seaman, J.C., V.M. Vulava, A.G. Sowder, B.P. Jackson, S.A. Aburime, and P.M. Bertsch. 2005. Selective extraction of metals from contaminated SRS sediments: Comparison of column and batch results. *Environmental Geosciences*. 12(4):235-242.
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64. Punshon T., B.P. Jackson, A. Lanzarotti, W. Hopkins, P.M. Bertsch, and J. Burger. 2005. Application of synchrotron x-ray microbeam spectroscopy to the determination of metal speciation and distribution in biological tissues. *Spectroscopy Letters*. 38: 343-363.
65. Snodgrass, J. W., W. A. Hopkins, B. P. Jackson, J. A. Baionno J. Broughton. 2005. Influence of larval period on responses of overwintering green frog (*Rana clamitans*) larvae exposed to contaminated sediments. *Environmental Toxicology and Chemistry*. 24: 1508-1514.
66. Roe, J.H., W.A Hopkins, and B.P. Jackson. 2005. Species and stage-specific differences in trace element tissue concentrations in amphibians: Implications for the disposal of coal-combustion wastes. *Environmental Pollution*. 136: 353-363.
67. Jackson, B.P. J.F. Ranville, A.G. Sowder, and P.M. Bertsch. 2005. Characterization of colloidal and humic-bound Ni and U in the 'dissolved' fraction of contaminated sediment extracts. *Environmental Science and Technology*. 39, 2478-2485.
68. Hopkins, W.A., B. P. Staub, J. A. Baionno; B. P. Jackson, and L.G. Talent. 2005. Transfer of selenium from prey to predators in a simulated terrestrial food chain. *Environmental Pollution*. 134:447–456.
69. Jackson, B.P., J.F. Ranville, and A.L. Neal. 2005. Application of flow field flow fractionation-ICP-MS for the study of uranium binding in bacterial cell suspensions. *Analytical Chemistry*. 77:1393-1397.

70. Hopkins W.A., J.W. Snodgrass, J.A. Baionno, J.H. Roe, B.P. Staub, and B.P. Jackson. 2005. Functional relationships among selenium concentrations in the diet, target tissues, and nondestructive tissue samples of two species of snakes. *Environmental Toxicology and Chemistry*. 24(2), 344-351.
71. Jackson, B.P., P.V. Winger, P.J. Lasier. 2004. Atmospheric Lead Deposition to Okefenokee Swamp, GA, *Environmental Pollution*. 130:445-451.
72. Roe, J.H., W.A. Hopkins, J.A. Baionno, B.P. Staub, C.L. Rowe, B.P. Jackson. 2004. Maternal transfer of selenium in Alligator mississippiensis nesting downstream from a coal burning power plant. *Environmental Toxicology and Chemistry*. 23:1969-1972.
73. Hopkins, W.A., B. P. Staub, J. A. Baionno; B. P. Jackson, J. H. Roe; and N.B. Ford. 2004. Trophic and Maternal Transfer of Selenium in Brown House Snakes (*Lamprophis Fuliginosus*). *Ecotoxicology and Environmental Safety*. 58:285-293.
74. Hopkins, W. A. , B. P. Staub, J. W. Snodgrass, B.E. Taylor , A.E. DeBiase, J. H. Roe, B. P. Jackson, and J. D. Congdon . 2004. Responses of benthic fish exposed to contaminants in outdoor mesocosms: Examining the ecological relevance of previous laboratory toxicity tests. *Aquatic Toxicology*. 68, 1-12.
75. Punshon, T., B.P. Jackson, P.M. Bertsch, J. Burger. 2004. Mass loading of nickel and uranium on plant surfaces: application of LA-ICP-MS. *Journal of Environmental Monitoring*. 2, 153 – 159.
76. Jackson B. P., W. A. Hopkins, and J. Baionno. 2003. Laser Ablation-ICP-MS analysis of micro-dissected tissue: A conservation-minded approach to assessing contaminant exposure. *Environmental Science and Technology*. 37(11),2511-2515.
77. Bryan, L. W.A. Hopkins, J.A. Baionno, B.P. Jackson. 2003. Maternal transfer of contaminants to eggs in common Grackles (*Quiscalus quiscalus*) nesting on coal fly ash basins. *Archives of Environmental Contamination and Toxicology*. 45(1):273-277.
78. Hopkins, W.A. , J.W. Snodgrass, B.P. Staub, B.P. Jackson, and J.D. Congdon. 2003. Altered swimming performance of a benthic fish (*Erimyzon sucetta*) exposed to contaminated sediments. *Archives of Environmental Contamination and Toxicology*. 44(3):383-389.
79. Jackson, B.P. P. M. Bertsch, M. L. Cabrera, J. J. Camberato, J. C. Seaman, and C. W. Wood. 2003. Trace element speciation in poultry litter. *Journal of Environmental Quality*. 32:535-540.
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## Presentations

- Fast Ion chromatography for Arsenic speciation. Plasmachemistry winter conference, Tucson, AZ, 2016
- Arsenic in Food. NE American Chemical Society Regional Meeting, Dartmouth College, Hanover, NH, October 2015.
- Analysis of Arsenic and Mercury in the Food and Water Supply, Woods Hole Oceanographic Institute, Cape Cod, May 2014.
- Arsenic in Rice, Food and Nutrition Conference and Expo, October 2013, Houston.
- Arsenic in Food Products. American Chemical Society National Meeting. August 2012, Philadelphia, PA.
- Arsenic in our Food and Water, New Hampshire Science Café, June 2012, Concord, NH
- Arsenic in Food, Seminar, Dartmouth College, Department of Earth Sciences, April 2012.
- Arsenic, Organic Formula and the Food System, Institute for Agriculture and Trade Policy, Healthy Food Action Webinar, March 2012.
- Jackson, B.P., Chen, C.Y., Bugge, D.M., Hoopes, A.J., Giustini, A.J., Ranville, J.F., High, W. Laser ablation ICP-MS for nanoparticle toxicology and biomedical studies. PlasmaChemistry Winter Conference, Tucson, January 2012.
- Jackson, B.P., Bugge, D.M., Ranville, Ling, F., Chen, C.Y., Bioaccumulation and trophic transfer of nanoparticles to *Leptocheirus plumulosus*. SETAC, Boston, November 2011.
- Jackson, B.P., Taylor, V.F., Cottingham, K, Punshon, T. Arsenic concentration and speciation in infant formulas and first foods. Trace Elements in Food 4, Aberdeen, Scotland, June 2011.
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- Taylor, V. Jackson, B.P. Tools for assessing the role of particle association in point source Hg contamination. SETAC, Portland, OR, 2010
- Taylor, V. Jackson, B.P., Determination of arsenic and arsenic species in baby food. National Environmental Monitoring, Washington DC. August 2010
- Jackson, B.P. Taylor, V. Species-specific enriched stable isotopic spikes elucidate binding differences between Hg species in NE soils and sediments. American Chemical Society, San Francisco, CA, March, 2010.
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- Jackson, B.P., S. Harper, L. Smith, and J. Flynn. Laser ablation ICP-MS of rat brain sections: A rapid method for detecting metal rich areas. Winter Conference on Plasma Spectrochemistry, Tucson, AZ, January 2006.
- Jackson, B.P., J.R. Ranville, P.M. Bertsch and A. Sowder. Characterization of colloidal and humic bound Ni and U in the dissolved fraction of contaminated sediment extracts. International Conference on the Biogeochemistry of Trace Elements, Adelaide, Australia, April 2005.
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- Jackson, B.P., P. Shaw-Allen, W. Hopkins, G. Mills, and C. Jagoe. Trace element—protein interactions in fish from a fly ash settling basin: A study using SEC-ICP-MS. International Conference on the Biogeochemistry of Trace Elements. University of Guelph, Ontario, Canada. July, 2001.
- Jackson, B.P. and P.M. Bertsch. Determination of arsenic species in poultry wastes. American Geophysical Union, Spring meeting, Boston, June 2001.
- Dawson, D. J., J.F. Ranville, P.B. Jackson, J.C. Seaman, and B. Honeyman. Particle size and element distributions of environmental colloids: Comparison of sizing methods and influence on transport. . 9th International Symposium on field-flow fractionation, 26-29 June, 2001, Golden, CO
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- Hopkins, W.A., Roe, J.H., Snodgrass, J.W., Staub B.P., Jackson, B.P., Rania, L., Sever, D.M., Congdon J.D. Effects of chronic dietary exposure to contaminants in squamate reptiles. Society of Environmental Toxicology and Chemistry, Annual Meeting. Baltimore, MD. November, 2001.
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- Dawson, D.J., J. F. Ranville, J. Seaman, B.P. Jackson, and B. D. Honeyman. Characterization of Dispersible Soil Colloids Using Field Flow Fractionation Coupled to GF-AAS and ICP-MS. Annual ASA Meetings, November 5-9, 2000, Minneapolis.
- Seaman, J.C., V. Vulava, B.P. Jackson, and S. Aburime. Anion migration through highly weathered sediments under varying degrees of saturation using a centrifugation system. Fall AGU Meeting, San Francisco, CA, December 15-20, 2000.
- Hutchison, J., J.C. Seaman, V. Vulava, B. Jackson, and D. Radcliffe. In situ treatment of contaminated soils using Ca-Phytate. Annual ASA Meetings, November 5-9, 2000, Minneapolis.
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- Seaman, J.C., J.S. Arey, C. Romanek, B. Jackson and P.M. Bertsch. 1999. In situ Cs and U stabilization using soil amendments. SSSA. Oct. 31-Nov. 4, Salt Lake City, Utah.
- Seaman, J.C., S. Arey, T. Meehan, J. Brailer, T. Parker, and B. Jackson. (Invited Seminar) In situ  $^{37}\text{Cs}$  and U stabilization in contaminated sediments using soil amendments. Southeastern Geologic Society of America Meetings, March 24-25, 1999, Athens, GA.
- Jackson B.P. and W.P. Miller. Major and trace element solubility from land application of fly ash and organic wastes: an incubation study. Oral presentation. 5<sup>th</sup> International Conference on the Biogeochemistry of Trace Elements. Vienna, Austria, July, 1999.
- Jackson B.P. and W.P. Miller. Effectiveness of phosphate and hydroxide for desorption of arsenic and selenium species from iron oxides. Agronomy Abstracts, Annual Soil Science Society of America Meeting, Salt Lake City, UT, November, 1999.
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