Kevin A. Johnson, Ph.D.

Director, Environmental Sciences
Professor, Department of Chemistry
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EDUCATION

Institution	*Degree*	*Year*
Clemson University	Ph.D., Environmental Toxicology	1996
University of California Davis	B.S., Environmental Toxicology	1992

PROFESSIONAL EMPLOYMENT

Employer	*Title*	**Term**
Southern Illinois University Edwardsville	Director, Environmental Sciences Program	07/10-Present
Southern Illinois University Edwardsville	Interim Director, Center for STEM	07/09-02/10
Southern Illinois University Edwardsville	Professor, Chemistry	07/08-Present
Southern Illinois University Edwardsville	Assistant/Associate Dean, College of Arts and Sciences	07/06-06/10
Southern Illinois University Edwardsville	Acting Director, Environmental Sciences Program	07/06-04/07
Southern Illinois University Edwardsville	Associate Professor, Chemistry	07/02-06/08
Southern Illinois University Edwardsville	Director, Environmental Sciences Program	07/03-06/06
Southern Illinois University Edwardsville	Acting Director, Environmental Sciences Program	07/01-06/03
Southern Illinois University Edwardsville	Assistant Director, Environmental Sciences	04/00-6/01
Southern Illinois University Edwardsville	Assistant Professor, Chemistry	08/97-06/02
Washington State University	Postdoctoral Research Associate	08/96-08/97
Clemson University	Instructor/Research Associate	01/96-07/96
Clemson University	Research Assistant	07/92-12/95

RESPONSIBILITIES AS ASSOCIATE DEAN

Associate Dean of Research, Projects, and Personnel (75%, Personnel oversight was transferred to another associate dean in 2009 due to time constraints of my other obligations): Duties included grant solicitations, review and processing; external and internal grant development, review and processing; first point of contact on Graduate School initiatives and graduate programs; coordination of equipment needs (including assessment of College equipment needs regarding maintenance, repair and replacement); coordination of Instructional

Equipment Requests; coordination of space assignment and represent Dean's Office in regards to the new Science Building and renovation project, as well as the new Chemistry, Biological Sciences, and GIS labs in University Park; budget planning meetings and hiring tenure-track and non tenure-track faculty; first point on collective bargaining issues with Human Resources; and oversight of WSIE and the University Museum.

I also worked on proposals to initiate two undergraduate degrees in Forensics (Field and Laboratory), two undergraduate degrees in Environmental Sciences (Health and Toxicology), on an interdisciplinary Working Group (those represented include myself (for ENSC), departments of Biological Sciences and Chemistry in CAS, Kinesiology from the SOEd, and representatives from the Schools of Pharmacy and Dental Medicine), putting together an interdisciplinary Doctoral program, and on a Working Group (with similar representations previously mentioned) to create Baccalaureate of Health Sciences degrees (drafting a plan for the degrees to evolve into a new of School of Health Sciences).

Projects: For all projects, I represent the College of Arts and Sciences Administration. I sit on both the coordinating team (facilities management personnel (AVC for facilities, campus architect, and grounds manager), architects, and the Capital Development Board) and the Planning team (coordinating team plus department chairs). I am involved in all aspects of the projects from Architects selection, initial programming (determine space needs/desires), schematic design, design development, 50% and 100% construction documents, bid documents, construction monitoring and input.

Since 2006, the science and math faculty and I have been working towards a new science building and renovation (project ~220,000GSF). The state of the art new facility will be LEED Gold Certified and open during the Fall 2012 semester. Faculty and staff from the Biological Sciences, Chemistry and the Environmental Sciences will move into the new facility, leaving behind Mathematics and Physics. While the new building will house the hood intensive sciences and teaching laboratories, the renovated LEED Certified building will house two 200 seated auditoriums and approximately 10 teaching classrooms. The Center for STEM Research, Education, and Outreach will also find a home in the renovated space (move in will be approximately spring 2015).

Since that time it became obvious that we had outgrown our teaching laboratories due to the increased demand of the health sciences. In 2007 we opened up two Chemistry teaching laboratories, as well as a prep lab, student lounge and a lab manager's office in our University Park's Biotechnology Laboratory Incubator facilities. The following year we opened up the exact same for the Biological Sciences and we opened up a Giospatial Analysis Laboratory. Three very different purposes, all housed in one facility.

In late 2008 construction began on a two story fully-automated Observatory. Currently, in the final phase Dr. Sabby (physics) mounted the telescope in September of 2012 and is installing all of the proper wiring. The dome can be remotely controlled to open/close and rotate while the telescope with its "spotter" scope can also be controlled off-site. Not only will this add to the astronomy curriculum at SIUE and several elementary and high schools, but it will allow faculty to engage in multiple areas of point source astronomical research, which may include, for example: binary and multiple star research, variable star research, extra solar planet research, asteroid surveys, asteroid photometry, cataclysmic variable star, and quasar research.

In addition to the above, I also spend time working on faculty grants and research activities. After working through all Facilities and Administration (or Indirect Costs) revenues, I have proposed a new distribution model that will add monetary incentives for faculty and departments to increase scholarly productivity. I have been fortunate during my tenure as Assistant/Associate Dean, because the Provost has provided our College over $1.5 million that has been dedicated to research instrumentation and scholarly productivity. I have been able to distribute the funds as broadly as possible, for such items as a confocal microscope, to various mass spectrometers (GC, LC, ICP, Maldi), a confocal microscope, a Steinway grand piano, various art presses, etcetera.

RESPONSIBILITIES AS INTERIM DIRECTOR OF THE CENTER FOR STEM RESEARCH, EDUCATION AND OUTREACH

Interim Director (10% current overload): Responsible for the organization and administration of the Center including all fiscal and personnel-related matters. In addition to the facilitation and management of existing research and outreach activities, the director is expected to generate new projects through external funding sources to advance the institute, university, and region in all STEM areas. The Director is also be responsible for leading, promoting, and collaborating on all grant-related initiatives associated with the institute.

RESPONSIBILITIES AS ACTING/DIRECTOR OR DIRECTOR OF THE ENVIRONMENTAL SCIENCES PROGRAM

Acting Director or Director (50%): As Director of a degree granting Program my duties were essentially the same as that of a Department Chair. As the Program's administrator, my functions include curricular and programmatic development, budget management, faculty development and assignments, and student recruitment, advisement, and retention. As Director of an interdisciplinary program, with faculty holding joint appointments in various Departments, I regularly interact with other Department Chairs in matters related to the Environmental Sciences Program and its faculty members.

ACADEMIC SERVICE

University Committees

- Biotechnology Research and Curriculum Committee 2003-current
- BRIDGE (Baccalaureate Reform through Integrated Design of General Education) team (redesigning general education proposal) 2005-2006
- Environmental Quality Board 2000-2003
- Graduate Program Review: Secondary Education 2003-2004
- University Representative for the Morris K. Udall Foundation (scholarship for Sophomores and Juniors) 2001- current
- University Focus Group 2002

College Committees

- Biological Scientist Search Committees, 1998-1999, 2001-2002, 2002-2003, 2003-2004
- Colloquium Committee, Chair, 2000-2002
- Political Scientist Search Committees, 1997-1998, 1998-1999, & 2001-2002

Science Building Committees, 1998-1999, 2005-current
Working group: Increasing Graduate Student Numbers and Enhancing Graduate Programs, 2006-current

Department of Chemistry
Executive Committee, Chair 2003-4 & 2005-6, member 2004-5
Facilities and Instrumentation Committee, Chair, 1997-2007
Annual Peer Merit Review Committee, 2003-2006
Student Assessment and Outreach Committee, 1997-2003
ACS Student Affiliates/Chemistry Club, 1997- 2000 (1998-1999, Advisor)

Environmental Sciences Program
Director, AY03-AY07
Acting Director, AY01-02
Assistant Director, AY00
Curriculum Committee, 1997-current
Admissions Committee, 1997-current
Recruitment, 1997-current

HONORS

Distinguished Research Award, Sigma Xi, 2000.
Outstanding Instructor of the Year, Department of Environmental Toxicology, 1995-96.
Outstanding Ph.D. Candidate of the Year, Department of Environmental Toxicology, 1995-96.
Member of Sigma Xi and Alpha Epsilon Lambda, Professional Honor Societies
Graduated with Honors, UC Davis, College of Agricultural and Environmental Sciences, 1992.

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

Adjunct faculty member, Texas Tech University, Department of Toxicology & the Institute of Environmental and Human Health Science, Environmental Toxicology, since 1998.
Adjunct faculty member, University of Tennessee at Chattanooga, since 2005.
American Chemical Society (ACS)
Student Awards Committee Member, Division of Environmental Chemistry, 1992.
American Soil Science Association, Syngenta Crop Protection Recognition Award Committee
Editorial Board for the Journal of Water*, Air, and Soil Pollution*, since 1998.
Editorial Board for the Journal of *Water, Air, and Soil Pollution-Focus*, since 2000.
European Science Foundation peer reviewer, since 2005.
Illinois State Academy of Sciences (ISAS), member
Serve as a reviewer for the journal, *Environmental Toxicology and Chemistry, since 1997.*
Society of Environmental Toxicology and Chemistry (SETAC), member
Soil Science Society of America (SSSA), member

TEACHING EXPERIENCE AND TRAINING (listed alphabetically)

Analysis of Environmental Contaminants, SIUE, Spring 1999-2011.
Ecological Risk Assessment, SIUE, Summer 2001 and 2004.
Environmental Chemistry for Secondary Education Teachers, SIUE, Summer 1998.
Environmental Sampling, SIUE, Fall 1998 and 2000. Summers 2001-2004. Fall 2005.
Fate and Transport of Environmental Contaminants, SIUE, Spring 2001
Industrial and Environmental Chemistry, SIUE, Spring 1998.
Instrumental Analysis Laboratory, SIUE, Spring 2004.
Forensic analysis of organophosphorus and carbamate poisoning: A training course for laboratory analysts. Invited by the Argentinean National Service of Food & Agricultural Quality and the Secretary of Natural Resources; Financed by the U. S. Fish and Wildlife Service and the U. S. Department of the Interior. Buenos Aires, Argentina, Fall 1998.
Pollution Ecology, SIUE, Fall 2001.
Principles of Toxicology, SIUE, Spring 1999 and 2000, Falls 2000-2011.
Seminar (Chemistry), Spring and Fall 2006.
Seminar (Environmental Sciences), Spring 2002.
Toxicant Structure and Behavior, SIUE, Fall 1997 and 1998; WSU, Spring 1997.
Instructor, *Analytical Toxicology*, Clemson University, Spring 1996.
Teaching Assistant, *Chemodynamics*, Clemson University, Spring 1995.
Guest Lecturer, *Environmental Fate*, Clemson University, Fall 1994.
Teaching Assistant, *Analytical Toxicology*, Clemson University, Spring 1994.
U.S. EPA Treatment Technologies for Superfund (165.3), 1995.
U.S. EPA Safety & Health Decision-Making for Managers (165.8), 1995.
U.S. EPA Hazardous Materials Incident Response Operations (165.5), 1993.

AREAS OF RESEARCH SPECIALIZATION

Research interests are in analytical/environmental chemistry and toxicology; more precisely, method development of passive sampling devices, evaluation of factors affecting the bioavailability of contaminants in soils, as well as the extraction and instrumental analysis of contaminants in traditionally difficult matrices. Ongoing project include the use of critical body residues in ecological risk assessments in lieu of standardized toxicity data; Method development of a novel extraction techniques for POPs in turtle blood along the Tennessee River over a five year period and with five different species; Use of turtle blood as a biomonitoring technique for pharmaceuticals and some POPs along the Illinois River; Evaluation of contaminants (pharmaceuticals, personal care products, endocrine disruptors, POPs and others) in water samples looking at such factors as: their levels, removal strategies, and toxicity; their levels in surface waters along the Illinois River; removal efficiencies in three different waste water processing treatments; as well evaluating their aquatic toxicity testing of individual, and mixtures thereof, pharmaceuticals found in both of the above studies; and

Another area of interest is the environmental fate, mass transport, ecotoxicity of insecticide exposure to wildlife, and bioaccumulation of contaminants, as well as the amelioration of co-contaminated point- and non-point source water through the use of vegetative filter strips and/or constructed flow-through wetlands. Several of my research interests are being integrated into collaborative efforts with others at SIUE and the University of Tennessee at Chattanooga

focusing on techniques that can be incorporated together to perform holistic ecological risk assessments and risk reduction.

OTHER RESEARCH EXPERIENCE

Past Research at Southern Illinois University Edwardsville since 08/97
The overall emphasis of my research is in contaminant movement, degradation, and effects in the environment. We have studied factors that affect, and methods to determine, the bioavailability of organic contaminants in soils. This was done in conjunction with the development and/or refinement of a sampling device that will yield estimates of both total and bioavailable contaminant soil concentrations. Other research was conducted in the areas of fate and transport of contaminants, environmental forensics, effectiveness of vegetative filter strips and constructed wetlands as a BMP to remove non-point source pollution, and phytoremediation. We also worked with others at Kansas State University and Texas Tech University on the ecotoxicity of insecticide exposure to neotropical migratory birds.

Postdoctoral Research, Washington State University, 8/96 - 7/97:
A portion of my research efforts were spent further evaluating terrestrial passive sampling, focusing on contaminants in soils of differing properties than those studied in graduate research. The other emphasis was on residue analysis of agrochemicals in minor crops for pesticide registration under EPA's Good Laboratory Practice standards. Work with minor crops involved method development for extraction and instrumental analysis of pesticides in varied and frequently difficult matrices.

Graduate Research, Clemson University, 7/92 - 8/96:
Optimized and validated the use of terrestrial passive sampling devices (PSDs) for the accurate estimation of soil contaminant concentrations using laboratory studies and on-site field assessments. Throughout my graduate career I spent a considerable amount of time developing methods of extraction and analysis for various contaminants, often with analytically sensitive chemicals. I also worked on several other projects, among them: pollutant source identification in an urban stream after storm events; development of methods to evaluate pesticide distributions, analytically and biochemically, in Costa Rican banana plantations; evaluation of the sub-lethal effects of chlorpyrifos on the freshwater invertebrate, *Daphnia Magna*, using pulsed contaminant exposures; and evaluation of mechanisms of organophosphate (OP) toxicity in European starlings using non-lethal methods of detecting and/or monitoring OP exposure to wildlife.

Undergraduate Research, University of California, Davis, 1991 - 1992:
Assisted in the collection, extraction and analysis of samples to evaluate long range atmospheric transport of organophosphate insecticides from California's Central Valley to the Sierra Nevada mountains.

EXTERNAL GRANTS OR CONTRACTS AWARDED

2005-2008. US Fish and Wildlife: National Migratory Bird Conservation Act Grants Program. $74,243. "Ecotoxicology of Neotropical Migrant Shorebirds." Principle Investigators:

Brett Sandercock (KSU), Mike Hooper (TTU), **Kevin A. Johnson**, and Richard Lanctot (USFW).

2005-2008. US Fish and Wildlife (Region 6). $117,999. "Ecotoxicology of Migratory Shorebirds." Principle Investigators: Brett Sandercock (KSU), Mike Hooper (TTU), **Kevin Johnson**, and Richard Lanctot (USFW).

2004-2006. National Institute of Health. $178,816. Exposure and effects assessment of residential exposure to PAHs and heavy metals in South Chattanooga, TN." Principle Investigators: Sean Richards (UTC), **Kevin A. Johnson**, Margaret Kovach (UTC), and Zhi-Qing Lin.

2003-2004. Evergreen Group. $6,000. "Measuring the Dissipation of Diazinon in Pond Water and Sediment Samples." Principle Investigator: **Kevin A. Johnson**.

2002-2003. U.S. Fish and Wildlife, U. S. Department of the Interior (Bureau of Reclamations). $4,500. "Degradation rates and site specific environmental fate of chlopyrifos (Lorsban)." Principle Investigator: **Kevin A. Johnson**.

2002-2005. U.S. Environmental Protection Agency. $119,772. "Frontiers in risk applications and policy." Principal Investigators: Kevin A. Johnson.

2000-2001. Madison County Soil and Water Conservation District. $4,000. "Pesticide and Nitrate Removal Using Agricultural Vegetative Filter Strips." Principal Investigators: **Kevin A. Johnson** and James L.J. Houpis.

1999-2002. Manomet Center for Conservation Sciences. $15,000. "Evaluation of Footwashes, Regurgitations, and Pray items from Cattle Egrets in Wetlands Along the Delaware Bay Region." Principal Investigator: **Kevin A. Johnson**.

1999-2000. Madison County Soil and Water Conservation District. $2,000. "Control of Non-Point Sources of Water Contamination through the use of a Vegetative Strip: Assessment of VFS management practices on the Control of a Livestock Non-Point Source." Principal Investigators: **Kevin A. Johnson** and James L.J. Houpis.

1998-1999. Lockheed Martin/ Department of Energy. $18,000. "Raccoons (*Procyon Lotor*) as sentinels for polychlorinated biphenyl and heavy metal exposure and effects at the Paducah Gaseous Diffusion Plant, McCracken County, Kentucky" funded through Texas Tech University. Investigator: **Kevin A. Johnson**.

1998-1999. Madison County Soil and Water Conservation District. $2,000. "Control of Non-Point Sources of Water Contamination through the use of a Vegetative Strip: A Preliminary Assessment of the Control of a Livestock Non-Point Source." Principal Investigators: **Kevin A. Johnson** and James L.J. Houpis.

INTERNAL GRANTS OR CONTRACTS AWARDED

2011. Southern Illinois University Edwardsville New Directions Grant. $20,478. "Chemical Characterization of Metal Nanoparticles and Emerging Organic Contaminants in Municipal Wastewater in Southern Illinois." Principle Investigators: Zhi-Qing Lin and **Kevin A. Johnson.**

2006. Southern Illinois University Edwardsville Excellence in Graduate Education. $3,762. "Graduate Recruitment in the Sciences." Principle Investigator: **Kevin A. Johnson.**

2006. Illinois State Board of Higher Education. $2,000. "Ecotoxicity of Neotropical Migratory Shorebirds." Principle Investigator: **Kevin A. Johnson.**

2005. Southern Illinois University Edwardsville Excellence in Undergraduate Education. $13,575. "Development of ENSC 220L – a laboratory Distributive NSM course." Principle Investigators: Bill Retzlaff, **Kevin A. Johnson**, Nicolas Guehlstorf, and Zhi-Qing Lin.

2004. Southern Illinois University Edwardsville Funded University Research. $11,530. "Identification of volatile arsenical compounds produced during phytoremediation using a novel GC-MS technique." Principle Investigators: **Kevin A. Johnson** and Zhi-Qing Lin.

2004. Southern Illinois University Edwardsville Competitive Research Equipment Grant. $19,595. "CombiPAL: Headspace, Liquid, and SPME GC Injection System." Principle Investigator: **Kevin A. Johnson**.

2003. Southern Illinois University Edwardsville Excellence in Undergraduate Education. $13,919. "The Development of Courses and Implementation of the New Minor in Environmental Sciences." Principle Investigator: **Kevin A. Johnson**.

2002. Illinois State Board of Higher Education. $5,000. "Frontiers in Risk Application." Principle Investigator: **Kevin A. Johnson**.

2002. Southern Illinois University Edwardsville Excellence in Undergraduate Education. $4,300. "Environmental Collaboration Initiative." Principle Investigators: Laura Perkins, **Kevin A. Johnson**, and Bill Retzlaff.

2001. Southern Illinois University Edwardsville Summer Research Fellowship. $3,000. "Evaluation of Differing Vegetation Types to Remove Contaminants in Vegetative Filter Strips." Principle Investigator: **Kevin A. Johnson.**

2001. Southern Illinois University Edwardsville Funded University Research. $2,000. "Evaluation of Vegetative Filter Strips for the Remediation of Non-point Source Water Contamination." Principal Investigator: **Kevin A. Johnson.**

2001. Southern Illinois University Edwardsville Competitive Research Equipment Grant. $5,475. "Vegetative Filter Strips (VFSs) as a Best Management Practice to Remove Non-Point Source Pollution: 1) Effects of VFS management on efficacy; and 2) Evaluation of differing vegetation of efficacy." Principal Investigator: **Kevin A. Johnson**. Co-Principal Investigator: James L.J. Houpis.

2001. Southern Illinois University Edwardsville Competitive Research Equipment Grant. $8,022. "Vegetative Filter Strips (VFSs) as a Best Management Practice to Remove Non-Point Source Pollution: Evaluation of climatic conditions on VFS efficacy." Principal Investigator: **Kevin A. Johnson**. Co-Principal Investigator: James L.J. Houpis.

2000-2001. Southern Illinois University Edwardsville Excellence in Graduate Education. $2,624. "Current techniques for the sampling and analysis of Environmental Contaminants." Principal Investigators: **Kevin A. Johnson**.

2000-2001. Illinois State Board of Higher Education. $7,158. "Vegetative filter strips for the abatement of non-point pollution." Principal Investigators: **Kevin A. Johnson**.

2000. Southern Illinois University Summer Research Fellowship. $6,000. "The use of passive sampling devices and earthworm contaminant accumulation to predict contaminant bioavailability". Principle Investigator: **Kevin A. Johnson**.

1999. Southern Illinois University Summer Research Fellowship. $6,000. "The Effects of Contaminant Aging on Sorption, Bioavailability, and Passive Sampler Uptake". Principle Investigator: **Kevin A. Johnson**.

1999. Southern Illinois University Graduate Research Fellowship. $500. "Changes in contaminant bioavailability as measured in contaminant uptake by the earthworm (*Eisenia foetida*)". Principle Investigators: Tracey L. Kress and **Kevin A. Johnson**.

1999-2000. Southern Illinois University Funded University Research. $1,000. "Evaluation of Vegetative Filter Strips for the Remediation of Non-Point Source Water Contamination." Principle Investigator: **Kevin A. Johnson**.

1998-1999. Southern Illinois University Funded University Research. $6,075. "The use of passive sampling devices to monitor subsurface soil contamination." Principle Investigator: **Kevin A. Johnson**.

1998. Southern Illinois University Summer Research Fellowship. $6,000. "A novel technique to determine the bioavailability of contaminants in Soil". Principle Investigator: **Kevin A. Johnson**.

1998. Southern Illinois University Graduate Research Fellowship. $500. "The bioavailability of Metal Cations in a Georgia Salt Marsh". Principle Investigators: Tyler Schmitt and **Kevin A. Johnson**.

1998. Southern Illinois University Graduate School. $2,000. "Soil toxicity to the Earthworm, *Eisenia Foetida*: EC_{50}'s, critical body burdens, and contaminant aging." Principle Investigator: **Kevin A. Johnson**.

PEER REVIEWED ARTICLES PUBLISHED IN BOOKS (* student coauthor)

*L. Ruppert, Z.-Q. Lin, R. P. Dixon, and K. A. Johnson. 2007. Identification of Volatile Arsenical Compounds Produced During Phytoremediation Using a Novel Sampling and GC-MS Technique. In Zhu, Y., N. Lepp, and R. Naidu, Eds., Biogeochemistry of Trace Elements: Environmental Protection, Remediation, and Human Health, Tsinghua University Press, Beijing, China: pp 873-4. (ISBN 978-7-302-15627-7).

*P. Upadhyaya, R.P. Dixon, D. Duvernell, K.A. Johnson, and Z-Q Lin. 2007. Selenium Volatilization by Soil Bacteria Isolated from Rhizosphere of Rabbitfoot Grass (Polypogon monspeliensis). In Zhu, Y., N. Lepp, and R. Naidu, Eds., Biogeochemistry of Trace Elements: Environmental Protection, Remediation, and Human Health, Tsinghua University Press, Beijing, China: pp562-3. (ISBN 978-7-302-15627-7).

PUBLISHED PEER REVIEWED CONFERENCE PROCEEDINGS (* student coauthor)

*Huff, D., Harris, J., Brunkow, P., Johnson, K.A., and Z-Q Lin. 2010. Accumulation and distribution of arsenic in pond snail and fish with different feeding strategies and effects of phosphorous contamination in wetland microcosms. In: Aresenic in Geosphere and Human Diseases. Jean and Bhattacharya (eds.). Taylor and Grancis Group, London. pp204-5.

*Lipe, S., Webb, S, Brewer, D, Johnson, K, and Z-Q Lin. 2005. Biological Transformation and Volatilization of Arsenic in a Soil-Rabbitfoot Grass System. Proceedings of the 8th International Conference on the Biogeochemistry of Trace Elements, Adelaide, Australia. 126-127.

*Tryfonas, A.,Tucker, J., Brunkow, P., Johnson, K., Hussein, M., and Z-Q Lin. 2005. Bioaccumulation of Tin in Eggs of the Red-eared Slider (Trachemys scripta elegans)

from the Lower Illinois River. Proceedings of the 8th International Conference on the Biogeochemistry of Trace Elements, Adelaide, Australia. 428-429.

Johnson, K. A., Hooper, M. J. and C. P. Weisskopf. 1997. The use of passive sampling devices (PSDs) to determine soil contaminant concentrations. In *Proceedings of the 1996 Pacific Basin Conference on Hazardous Waste*; Kuala Lumpur, Malaysia; November 4-8. pp 517-26.

PUBLICATIONS (* student coauthor)

21. *Shaul, N., Richards, S., Adair, D., and K.A. Johnson. Polychlorinated Biphenyls, Chlorinated Insecticides, Polycyclic Aromatic Hydrocarbons and Polybrominated Diphenyl Ethers in Human Placental Tissue. *Journal of Environmental Pollution.* (to be submitted no later than 06/29/13).
20. *Hussar, E., S. Richards, Z.-Q. Lin, R.P. Dixon, and K.A. Johnson. 2012. Human Health Risk Assessment of 16 Priority Polycyclic Aromatic Hydrocarbons in Soils of Chattanooga, Tennessee, USA. Water, Soil, and Air Pollution. 223(9): 5535-5548.
19. *Ruport, L., Dixon, R. P., Lin, Z-Q and K.A. Johnson. 2012. Development of a solid phase microfiber extraction sampling technique to monitor volatile organoarsinicals emitted during phytovolatilization. *Journal of Hazardous Materials.* http://dx.doi.org/10.1016/j.jhazmat.2012.06.046.
18. *Lipp, S.B., *Lusk, M., Webb, S., Johnson, K.A., and Z-Q. Lin. Biotransformation and Volatilization of Arsenic in a Soil-Rabbitfoot Grass (Polypogon monspeliensis) System. *Journal of Hazardous Materials*. (submitted).
17. *Keller, S., Zhang, T.Q., Webb, S., Brugam, R., Johnson, K. and Z-Q Lin. 2008. Effects of suburban land use on phosphorous fractions and 2 speciation in the upper Peruque Creek, Eastern Missouri. *Wat. Environ. Research*. 80:316-323.
16. *Strum, K.M., Alfara, M., Haase, B., Hooper, M.J., Johnson, K.A., Lanctot, R.B., Lesterhuis, A.J., Lopez, L., Matz, A.C., Morales, C., *Paulson, B., Sandercock, B.K., Tores-Dowdall, J. and M.E. Zaccagnini. 2008. Plasma cholinesterases for monitoring pesticide exposure in neotropical migratory shorebirds. *Ornitologia Neotropical* 19:641-651.
15. *Bikram Shrestha, *Shawn Lipe, Kevin Johnson, Tiequan Zhang, William Retzlaff, and Zhi-Qing Lin. 2006. Soil Hydraulic Manipulation and Organic Amendment for the Enhancement of Selenium Volatilization in a Soil-Pickleweed System. *Plant and Soil.* 288:189-196.
14. *Tryfonas, A. E., J.K. Tucker, P.E. Brunkow, K.A. Johnson, H.S. Hussein, and Z.-Q. Lin. 2006. Metal accumulation in eggs of the red-eared slider (*Trachemys scripta elegans*) in the Lower Illinois River. *Chemosphere*. 63:39-48.
13. *Smith, P. N., Johnson, K. A., Anderson, T. A. and McMurry. 2003. Environmental Exposure to Polychlorinated Biphenyl among Raccoons (Procyon lotor) at the Paducah Gaseous Diffusion Plant, Western Kentucky. *Environmental Toxicology and Chemistry*. 22:406-416.
12. *Smith, P. N., Bandiera, S. M., Skipper, S. L., Johnson, K. A. and S. T. McMurry. 2003. Environmental Polychlorinated Biphenyl Exposure and Cytochroms P450 in Raccoon (Procyon lotor). *Environmental Toxicology and Chemistry* 22:417-423.

11. *Grabowski, L. A., Houpis, J. L. J., Woods, W. I. and K. A. Johnson. 2001. Seasonal bioavailability of sediment-associated heavy metals along the Mississippi River. *Chemosphere* 45:643-651.
10. *Awata, H., Johnson, K. A. and T. A. Anderson. 2000. Passive sampling devices as surrogates for evaluating bioavailability of aged chemicals in soil. *Toxicological and Environmental Chemistry*. 73:25-42.
9. DeClue, M.E., Johnson, K., Hendrickson, H. and P. Keck. 2000. Stimulate High School Science Fair participation by connecting with a nearby College. *Journal of Chemical Education*. 77:608-609.
8. Naddy, R. B., Johnson, K. A. and S. J. Klaine. 2000. Response of *Daphnia magna* to pulsed exposures of chlorpyrifos. *Environmental Toxicology and Chemistry*. 19:423-431.
7. *Johnson, M., Houpis, J., Johnson, K., Schulz, K., Smith, M. and *G. Paul. 1998. Phytoextraction of cadmium by Pinus taeda. Air and Waste Management Association 98-RAD.02P Pittsburgh, PA. 5p.
6. *Karen, D. J., *Joab, B. M., *Wallin, J. W. and K. A. Johnson. 1998. Partitioning of chlorpyrifos between water and an aquatic macrophyte (*Elodea densa*). *Chemosphere*, 37:1579-1586.
5. Mortensen, S. R., Johnson, K. A., Weisskopf, C. P., Hooper, M. J., Lacher, T. and R. J. Kendall. 1998. Avian exposure to pesticides in Costa Rican banana plantations. *Bulletin of Environmental Contamination and Toxicology*, 60:562-568.
4. Johnson, K. A., Harper, F. D. and C. P. Weisskopf. 1997. Solid-phase extraction of aldicarb and its metabolites from water and soil. *Journal of Environmental Quality*, 26:1435-1438.
3. Lacher, T. E., Mortensen, S. R., Johnson, K. A. and R. J. Kendall. 1997. Pesticide use and wildlife risk on banana plantations. *Pesticide Outlook*, 8:24-28.
2. Johnson, K. A. (1996). Passive sampling of soil chemical vapors for contaminant characterization. Ph.D. dissertation. Clemson University, Clemson, S.C.
1. Johnson, K. A., Naddy, R. B. and C. P. Weisskopf (1995). Passive sampling devices for rapid determination of soil contaminant distributions. *Toxicological and Environmental Chemistry*, **51**:31-44.

INVITED PRESENTATIONS (* student coauthor)

16. Johnson, K. A. Risk Assessment of Polycyclic Aromatic Hydrocarbons in South Chattanooga, TN. Tongji University, Shanghai, China. July 2007.
15. Johnson, K. A. A Sampling and GC-MS Technique for the Identification of Volatile Arsenical Compounds Emitted During Phytoremediation**.** St. Louis University, April 2007.
14. Johnson, K. A. Ecological Risk Assessment of Polycyclic Aromatic Hydrocarbons in South Chattanooga, TN. Missouri Baptist University, March 2007.
13. Johnson, K. A. Identification of Volatile Arsenical Compounds Emitted During Phytoremediation Using a Novel Sampling and GC-MS Technique. University of Missouri, St. Louis, February 2007.
12. Johnson, K. A. Critical Body Residues in Earthworms: *Traditional Toxicity Testing vs. Reality***.** SIUE School of Pharmacy, January 2007**.**

11. Johnson, K. A. Ecological Risk Assessment of Polycyclic Aromatic Hydrocarbons in South Chattanooga, TN: Implications on Human Health. California State University Chico, December 2006.
10. Johnson, K. A. A potential biomimetic sampling tool for site-specific assessments. Seminar, Texas Tech University, 2002.
9. Johnson, K. A., *Kress K. L, and *C.C. Friedel. Passive sampling devices as tools in assessing site specific contaminant bioavailability. Presentation at the Twenty-Second Annual Meeting of the Society of Environmental Toxicology and Chemistry, Baltimore, MD. 2001.
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72. Mikelson, C., Troisi, J., Kovach, M., Symes, S., Adair, D., Johnson, K., and ZQ Lin. Placental 11β‑hydroxysteroid dehydrogenase type 2 expression: Correlations with birth weight and metal concentrations in placental tissues. The Contribution of Epigenetics in Pediatric Environmental Health, Children's Environmental Health Network, San Francisco, CA. May 30, 2012.
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