

Curriculum Vitae

PAUL EDWARD BRUNKOW

Additional information can be found at: <http://www.siu.edu/~pbrunko>

PERSONAL INFORMATION

Birthdate: October 3, 1965

Contact Information: Department of Biological Sciences
Southern Illinois University Edwardsville
Edwardsville, IL 62026-1651
(618) 650 - 2976 (private office)
(618) 791 - 9264 (cell phone)
E-mail: pbrunko@siue.edu

EDUCATION

<i>Institution</i>	<i>Degree</i>	<i>Year</i>
University of Washington	B.S. - Zoology	1988
Arizona State University	Ph.D. - Zoology	1996

PROFESSIONAL EMPLOYMENT

<i>Employer</i>	<i>Title</i>	<i>Term</i>
Southern Illinois University Edwardsville	Department Chair	7/10 – Present
Southern Illinois University Edwardsville	Associate Professor	8/04 - Present
Southern Illinois University Edwardsville	Assistant Professor	8/97 - 7/04
Arizona State University West	Faculty Associate	7/96 - 8/96
Arizona State University	Faculty Associate	6/96 - 12/96
Arizona State University	Postdoctoral Res. Associate	5/96 - 8/97
Arizona State University	Teaching/Research Assistant	8/89 - 5/96

NOTABLE SERVICE COMMITMENTS

Chair, University-wide BRIDGE Implementation Committee 2007-2010: produced implementation plan for new General Education plan for SIUE

<http://www.siu.edu/~pbrunko/BRDIGE.pdf>

Chair, University-wide LEVELS Task Force 2005-2006: produced document defining scholarship expectations of different course levels

<http://www.siu.edu/~pbrunko/LEVELS.pdf>

RESEARCH INTERESTS

Influence of hydrology on functional morphology of stream invertebrates; fluctuating asymmetry as bioindicator of environmental stress in freshwater ecosystems; phylogenetic patterns in ecomorphology of freshwater fishes; influence of morphology on spread of invasive species

HONORS AND AWARDS

- Named to SIUE Teacher-Scholar Showcase at the Office of the Provost (http://www.siu.edu/institutionaldiversityandinclusion/teacher_scholar/BrunkowTeacherScholar.shtml)
- SIUE University-Wide Teaching Recognition Award - 2004

PRE-DOCTORAL RESEARCH EXPERIENCE

Costa Rica (1991): Participation in the O.T.S. Tropical Biology course.

Costa Rica (1990): Travel to national parks and reserves within the country.

Grand Teton National Park, Wyoming (1989): Field assistant for a study of social behavior of ground squirrels.

Woodland Park Zoo, Seattle, Washington (1987-88): Assistant for study of ontogenetic behaviors in captive tree kangaroos.

Eastern Washington & Oregon (1986): Assistant for field study of predation pressure on desert lizards.

TEACHING EXPERIENCE

Arizona State University

- BIO 415: Biometry (Introductory Statistics); sole instructor for class of 45 students, with two laboratory sections and two TAs.
- BIO 330: Ecology and Conservation; sole instructor for class of 36 students (non-biology majors).
- BIO 182: Introductory Biology; co-instructor for class of 10 incoming freshmen and high school senior minority students, as part of the Math and Science Honors Summer Program.
- BIO 591: Teaching Biology; replacement instructor for class of 13 incoming graduate teaching assistants.
- Teaching Associate for: BIO 100, Introductory Biology (non-majors); BIO 415, Biometry; ZOL 412, Wildlife Management; ZOL 350, Invertebrate Zoology.

Southern Illinois University - Edwardsville

- BIOL 120: Introductory Biology (majors). Instructor and laboratory coordinator for 190+ enrollment course, 9 laboratory sections, and three graduate TAs.
- BIOL 111: Introductory Biology (non-majors). Instructor for 50+ enrollment course.
- BIOL 591, 593: Research in Biology (graduate). Supervising graduate students in weekly readings, discussions, and primary research.
- BIOL 485/585: Ichthyology (lecture and laboratory) (graduate and undergraduate).
- BIOL 480: Animal Behavior (lecture and laboratory) (graduate and undergraduate).
- BIOL 417: Biometry (Quantitative Methods in Experimental Biology) (graduate and undergraduate).
- BIOL 466: Terrestrial Ecosystems (lecture) (graduate and undergraduate)
- BIOL 596: Topics in Organismic Biology. Required seminar for graduate students.
- BIOL 491, 493: Topics in Biology. Supervised numerous undergraduates for independent research credit earned while working in my laboratory.
- BIOL 492, 497: Biological Sciences Senior Assignment

* **Recipient, University-wide SIUE Teaching Recognition Award, 2004**

EXTERNAL RESEARCH GRANTS RECEIVED

Arizona State University

- “Effects of size variability and density on pen culture of bonytail chub (*Gila elegans*).” 1996. U. S. Fish and Wildlife Service. \$9000 (with J. P. Collins).
- “Effects of terrestrial grazers on freshwater habitats.” 1996. Arizona Game and Fish Department. \$28,000 (with J. P. Collins).
- American Society of Ichthyologists and Herpetologists (Gauge Fund Award) - 1994
- Graduate Student Association Research Development Program, ASU - 1993
- Sigma Xi, The Scientific Research Society- 1991, 1992
- American Museum of Natural History
(Theodore Roosevelt Memorial Fund)- 1991, 1992

Southern Illinois University – Edwardsville

- “Survey of amphipods in Lower Illinois River wildlife management areas.” 2011. National Great Rivers Research and Education Center. \$5570 (included student internship)
- “Influence of habitat and species abundance on movement rates of two topminnow species in a southern Illinois stream contact zone. 2011.” National Great Rivers Research and Education Center. \$4450 (included student internship)
- “Evaluating fish communities of Illinois River backwater lakes.” 2010. National Great Rivers Research and Education Center. \$5723 (included student internship)
- “Distribution of the Chinese Mystery Snail in the Lower Illinois River.” 2008. National Great Rivers Research and Education Center. \$5530
- “Faunal survey of the Lake Wappapello Project Area, southeast Missouri.” 2002 - 2004. US Army Corps of Engineers. \$144,000 (with J.A. Schaefer)
- “Role of the Illinois Wildlife Enhancement Bonus Program in conservation of wildlife habitat.” 2001 - 2002. Illinois Department of Natural Resources. \$1075
- “Effects of human activity on bird microhabitat use in an Illinois state nature preserve.” 2001 - 2002. Illinois Department of Natural Resources. \$850
- “Lead contamination and Ozark stream fishes.” 1999 - 2001. International Center for Tropical Ecology, University of Missouri - St. Louis. \$20,000
- “Effects of flooding on salamanders in the Horseshoe Lake Conservation Area.” 1998 - 1999. US Department of Agriculture (Illinois Groundwater Consortium). \$65,000.

INTERNAL GRANTS AND AWARDS

- 2007: Summer Research Fellowship, SIUE Graduate School
Sabbatical Leave, Illinois Board of Higher Education
- 2005. State Matching Award, SIUE Graduate School
- 2004. State Matching Award, SIUE Graduate School
- 2004. Summer Research Fellowship, Southern Illinois University Edwardsville
- 1998 - 2001. Summer Research Fellowships, Southern Illinois University Edwardsville.
- 2000. Research Equipment Matching Funds award, SIUE Graduate School (\$7100)

PUBLICATIONS (*publications co-authored with students)

- *Alldredge, P, M. Gutierrez, D. Duvernell, J. Schaefer, P. Brunkow, and W. Matamoros. 2011. Variability in movement dynamics of topminnow (*Fundulus notatus* and *F. olivaceus*) populations. *Ecology of Freshwater Fish* 20 (4): 513-521.
- *Huff, DJ, J. Harris, P. Brunkow, KA Johnson, ZQ Lin, and J Schaefer. 2010. Accumulation and distribution of arsenic in pond snails and fish with different feeding strategies. In: Jena, JS, J. Bundschuh, P. Bhattacharya. *Arsenic in the Geosphere and Human Diseases*. CRC Press, Boca Raton, FL, USA. pp. 204-205.
- *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.
- *Brunkow, P.E., and T.A. Cochran. 2005. Evolution of honest signaling. In: CD_ROM Laboratory Exercise Supplement to Alcock, J. *Animal Behavior*. 8th Edition. Sinauer Associates, Sunderland, MA.
- *Brunkow, P. E., J. L. Badasch, and P. A. Herman. 2000. Effects of flooding on salamanders in the Horseshoe Lake State Conservation Area. *Proceedings of the Tenth Annual Conference of the Illinois Groundwater Consortium*. pp. 111 - 124.
- *Sowka, P. A., and P. E. Brunkow. 1999. Cage culturing the endangered bonytail. *North American Journal of Aquaculture* 61: 326 - 330.
- Brunkow, P. E. 1999. Effects of the 1993 flood on salamanders in southern Illinois. *Proceedings of the Ninth Annual Conference of the Illinois Groundwater Consortium*. April 1, 1999. Carbondale, Illinois. pp. 126 - 134.
- Brunkow, P.E., and J.P. Collins. 1998. Group size structure affects patterns of aggression in larval salamanders. *Behavioral Ecology* 9: 508-514.
- Brunkow, P.E., and J.P. Collins. 1996. Effects of individual variability in size on growth and development of larval tiger salamanders. *Ecology* 77: 1483-1492.
- Holomuzki, J.R., J.P. Collins, and P.E. Brunkow. 1994. Trophic control of fishless ponds by tiger salamander larvae. *Oikos* 71: 55-64.
- Allison, L.J., P.E. Brunkow, and J.P. Collins. 1994. An exceptional life history trait in tiger salamanders: opportunistic breeding after summer rains. *Great Basin Naturalist* 54: 376-379.

INVITED CONTRIBUTIONS

Brunkow, P.E. 1999. The Science of Declining Amphibian Populations. Pp. 72 - 76 *In*: Speziale, B.J., W. H. Leonard, and J. E. Penick, eds. Biology: A Community Context. South-Western Educational Publishing, Cincinnati, Ohio.

MEETING PRESENTATIONS (* Presentations with student authors)

- *Huff, DJ, J Harris, P Brunkow, KA Johnson, ZQ Lin, and J Schaefer. 2010. Accumulation and distribution of arsenic in pond snails and fish with different feeding strategies. 3rd Annual International Congress on Arsenic in the Environment. May 2010 (Taiwan)
- *Brunkow, P., and E. Karcher. 2010. Developing a technique to measure hydrodynamic drag in freshwater snails. Illinois State Academy of Science, Decatur, IL.
- *Gerstenecker, P., D. Duvernell, and P. Brunkow. 2009. Analysis of home range size and movement patterns of the blackstripe topminnow. Illinois State Academy of Sciences, SIUE.
- *Huff, D., *L. Richter, *E. Woods, P. Brunkow, and Z.Q. Lin. 2009. Effects of phosphorus contamination on the partitioning of arsenic in wetland microcosms. 6th International Conference on Phytotechnologies, St. Louis, Mo. USA
- *Brunkow, P, T. Rhoden, and J. Holomuzki. 2008. Characterization of drag coefficients in the morphologically variable New Zealand mud snail. Ecological Society of America, Milwaukee, WI.
- *Brunkow, P, and E. Seaton. 2007. Correlation between morphological and genetic variation in San Salvador pupfish. Illinois State Academy of Sciences, Springfield, IL
- *Brunkow, P, and E. Seaton. 2007. Correlation between morphological and genetic variation in San Salvador pupfish. American Society of Ichthyologists and Herpetologists, St. Louis, MO.
- *Brunkow, P. and K. Sporleder. 2006. Effects of epibiotic algae on drag resistance in a stream-dwelling snail. Ecological Society of America, Memphis TN.
- *Brunkow, P., and S. Calloway. 2005. Plasticity as phenotype: G x E interaction in a freshwater snail. North American Benthological Society Meeting, New Orleans, Louisiana
- *Brunkow, P., and S. Calloway. 2005. Plasticity as phenotype: G x E interaction in a freshwater snail. Illinois State Academy of Science meeting, Galesburg, Illinois.
- *Novak, D., R. Brugam, W. Retzlaff, and P. Brunkow. 2005. Heat budget of a southwestern Illinois impoundment. Illinois State Academy of Science meeting, Galesburg, Illinois.
- *Wiechert, M., Z. Lin, R. Brugam, P. Brunkow, and W. Retzlaff. 2005. Active and passive air sampling at Horseshoe Lake, Madison County, Illinois, for lead, arsenic, and zinc. Illinois State Academy of Science meeting, Galesburg, Illinois.
- *Brunkow, P.E., and B.R. Bunchman. 2004. Effect of human activity on mammalian diversity around a flood control reservoir in southeastern Missouri. Ecological Society of America meeting, Portland, Oregon.

MEETING PRESENTATIONS (cont'd.) (* Presentations with student authors)

- *Brunkow, P.E., and L. Carraher. 2004. Biometric information in the eyes of mosquitofish? Illinois State Academy of Science meeting, Charleston, Illinois.
- *Brunkow, P.E., and L.A. Bauer. 2003. Algal growth and flow resistance in a freshwater snail. Ecological Society of America meeting, Savannah, Georgia.
- *Rehmann, A.A., L. Perkins, E. Abusharbain, P. Brunkow, and W. Retzlaff. 2003. The correlation between participation of students in outdoor environmental education and student environmental literacy. Illinois State Academy of Science meeting, Normal, Illinois.
- *Brunkow, P.E., and A. J. Manuel. 2002. Genetics of phenotypic plasticity in a freshwater snail. Ecological Society of America meeting, Tucson, AZ.
- *Brunkow, P.E., and P.A. Herman. 2001. Fluctuating asymmetry in stonerollers from streams of varying lead contamination history. Ecological Society of America meeting, Madison, WI.
- *Brunkow, P. E., J. L. Badasch, and P. A. Herman. 2000. Effects of flooding on salamanders in southern Illinois. Ecological Society of America meeting, Snowbird, Utah.
- *Brunkow, P. E., J. L. Badasch, and P. A. Herman. 2000. Decline of salamander populations due to the great flood of 1993? Illinois State Academy of Science meeting, Rock Island, Illinois.
- Brunkow, P.E. and J. Nagy. 1999. Predicting effects of individual variation at population and community levels. Ecological Society of America meeting, Spokane, Washington.
- *Brunkow, P.E. and P.A. Sowka. 1998. Effects of stocking density and size variability on growth and survival of cage-cultured bonytail chub. Joint American Society of Limnology and Oceanography and Ecological Society of America meeting, St. Louis, Missouri.
- Brunkow, P.E., and J.P. Collins. 1997. Effects of size variability in a top predator on a temporary pond community. Ecological Society of America. Albuquerque, New Mexico.
- Brunkow, P.E., and J.P. Collins. 1997. The ecology of temporary ponds as affected by sediment disturbance. American Society of Ichthyologists and Herpetologists. Seattle, Washington.
- Brunkow, P.E. and J.P. Collins. 1996. Group size structure affects patterns of aggression in larval tiger salamanders. Animal Behaviour Society. Flagstaff, Arizona.
- Brunkow, P.E., and J.P. Collins. 1996. Who's top (water)dog? Group size structure affects patterns of aggression in larval tiger salamanders. American Society of Ichthyologists and Herpetologists. New Orleans, Louisiana.
- Brunkow, P.E., and J.P. Collins. 1995. Effects of variability in body size on growth and development of larval tiger salamanders. Ecological Society of America. Snowbird, Utah.
- Brunkow, P.E. 1994. Effects of sediment disturbance on a temporary pond community. Southwestern Association of Biologists. Ghost Ranch, New Mexico.

MEETING PRESENTATIONS (cont'd.) (* Presentations with student authors)

- Brunkow, P.E. 1993. Variability in the relationship between body size and diet in larval *Ambystoma*. American Society of Ichthyologists and Herpetologists. Austin, Texas.
- Maret, T.J., J.P. Collins, P.E. Brunkow, and R.E. Ziemba. 1995. The effect of habitat alteration on mountain treefrogs: a model of how permanent ponds can provide a refuge for predators. Symposium on Declining Amphibians. Phoenix, Arizona.

STUDENT MEETING PRESENTATIONS (students under my supervision/advisement) (*SIUE student)

- *Matteson, S., and P. Brunkow. 2011. Fluctuating asymmetry: A viable indicator of environmental stress? Midwest Ecology and Evolution Conference, Carbondale, IL.
- *Astroth, K., and P. Brunkow. 2011. Phylogenetic analysis of jaw morphology in the sunfishes. Midwest Ecology and Evolution Conference, Carbondale, IL.
- *Miller, S., and P. Brunkow. 2011. Phenotypic plasticity in the freshwater snail *Elimia potosiensis* (Gastropoda: Pleuroceridae) in response to hydrodynamic gradients Midwest Ecology and Evolution Conference, Carbondale, IL.
- *Rhaesa, M., and P. Brunkow. 2011. Functional morphology of *Gammarus pseudolimnaeus* (fresh water amphipod) and its relationship to drift. Midwest Ecology and Evolution Conference, Carbondale, IL
- *Miller, K. and P.E. Brunkow. 2010. Physics versus phylogeny in North American sunfishes. Midwest Ecology and Evolution Conference, Ames, IA.
- *Miller, S. and P.E. Brunkow. 2010. Shell orientation affects hydrodynamic drag in *Elimia potosiensis*. Midwest Ecology and Evolution Conference, Ames, IA.
- *Miller, K. and P.E. Brunkow. 2010. Physics versus phylogeny in North American sunfishes. Illinois State Academy of Science, Decatur, IL.
- *Miller, S. and P.E. Brunkow. 2010. Shell orientation affects hydrodynamic drag in *Elimia potosiensis*. Illinois State Academy of Science, Decatur, IL.
- *Riseman, L, and P. Brunkow. 2009. Evaluating mucus production behavior in a freshwater snail. Illinois State Academy of Sciences, SIUE.
- *Sharp, M. and P. Brunkow. 2009. Status of the Chinese mystery snail in southern Illinois. Illinois State Academy of Sciences, SIUE.
- *Karcher, E. and P. Brunkow. 2009. Developing a terminal velocity assay technique for measuring hydrodynamic drag in freshwater snails. Illinois State Academy of Sciences, SIUE.
- *Riseman, L. and P. Brunkow. 2009. Evaluating mucus production behavior in a freshwater snail using a histological stain. Ecological Society of America, Albuquerque, NM USA
- *Karcher, E. and P. Brunkow. 2009. Developing a terminal velocity assay technique for measuring hydrodynamic drag in freshwater snails. Ecological Society of America, Albuquerque, NM USA
- *Vredenburgh, T, and P.E. Brunkow. 2008. Relationship between tenacity and shell and foot size in a stream-dwelling snail. Illinois State Academy of Sciences, Champaign, IL.

STUDENT MEETING PRESENTATIONS (cont'd.)

- *Riseman, L. and P.E. Brunkow. 2008. Developing a technique to evaluate mucus production in individual freshwater snails. Illinois State Academy of Sciences, Champaign, IL.
- *Riseman, L. and P.E. Brunkow. 2008. Developing a technique to evaluate mucus production in individual freshwater snails. Ecological Society of America, Milwaukee, WI.
- *Gerstenecker, P., J. Schaeffer, P. Brunkow, D. Duvernell. 2008. Effects of habitat on condition and microgeographic distribution of two closely related topminnow species. Illinois State Academy of Sciences, Urbana-Champaign, IL.
- *Miller, M., J. Schaeffer, P. Brunkow, D. Duvernell. Interspecific competition and the effect of density on individual growth rate and condition in two topminnow species. Illinois State Academy of Sciences, Urbana-Champaign, IL.
- *Suffian, D., R. Essner, *J. Jansen, *P. Gerstenecker, *K. Roberts, P. Brunkow. Laboratory behavior and husbandry in the Rocky Mountain Tailed Frog, *Ascaphus montanus*. Illinois State Academy of Sciences, Urbana-Champaign, IL.
- *Blackford, C.M., and P.E. Brunkow. 2007. Effects of trematode infection on foot morphology of a physid snail. Illinois State Academy of Sciences, Springfield, IL
- *Fuller, R., K.A. Schuster, and P.E. Brunkow. 2007. Effects of snail foot geometry on success of molluscivorous fish suction feeding performance. Illinois State Academy of Sciences, Springfield, IL
- *Dustman, E., C.R. Dolan, J.T. Lamer, P.E. Brunkow and J.K. Tucker. 2007. Male-biased Sex Ratios in Common Snapping Turtles (*Chelydra serpentina*) in the Lower Illinois River. Illinois State Academy of Sciences, Springfield, IL.
- *Dustman, E., C.R. Dolan, J.T. Lamer, P.E. Brunkow and J.K. Tucker. 2007. Male-biased Sex Ratios in Common Snapping Turtles (*Chelydra serpentina*) in the Lower Illinois River. American Society of Ichthyologists and Herpetologists, St. Louis, MO.
- *Blackford, C.M., and P.E. Brunkow. 2006. Effects of trematode infection on foot morphology of a physid snail. Ecological Society of America, Memphis TN
- *Fuller, R. and P.E. Brunkow. 2006. The effect of snail shell orientation on forces experienced during a simulated fish feeding strike. Ecological Society of America, Memphis TN.
- *Barrow, S., J. Holomuzki, and P. Brunkow. 2005. Morphological variation in the New Zealand mud snail, *Potamopyrgus antipodarum*. North American Benthological Society meeting, New Orleans, Louisiana.
- *Barrow, S., J. Holomuzki, and P. Brunkow. 2005. Morphological variation in the New Zealand mud snail, *Potamopyrgus antipodarum*. Illinois State Academy of Science meeting, Galesburg, Illinois. (**award for Best Student Poster**).
- *Calloway, S., *A. Bookhout, and P. Brunkow. 2004. Plasticity of predator avoidance in a freshwater snail. Ecological Society of America meeting, Portland, Oregon.

STUDENT MEETING PRESENTATIONS (cont'd.)

- *Bunchman, B., and P. Brunkow. 2004. Effect of human activity on mammalian diversity around a flood control reservoir in southeastern Missouri. Illinois State Academy of Science meeting, Charleston, Illinois.
- *Calloway, S., *A. Bookhout, and P. Brunkow. 2004. Predator avoidance plasticity in a freshwater snail. Illinois State Academy of Science meeting, Charleston, Illinois.
- *Hedrick, V., and P. Brunkow. 2004. Avian response to human trail use in two forested preserves in central Illinois. Illinois State Academy of Science meeting, Charleston, Illinois.
- *Durbin, K., P. Brunkow, and *S. Burns. 2003. Food web manipulation of a hypereutrophic lake. Ecological Society of America meeting, savannah, Georgia.
- *Hedrick, V., and P. Brunkow. 2003. Effect of human intrusion on bird behavior in an Illinois nature preserve. Ecological Society of America meeting, Savannah, Georgia.
- *Durbin, K., P. Brunkow, and *S. Burns. 2003. Use of food web manipulation to restore a degraded reservoir. Illinois State Academy of Science meeting, Normal, Illinois.
- *Bauer, L., and P. Brunkow. 2003. Effects of algal growth on flow resistance in a freshwater snail. Illinois State Academy of Science meeting, Normal, Illinois.
- *Manuel, A.M., and P. Brunkow. 2002. Genetics of phenotypic plasticity in a freshwater snail. Illinois State Academy of Sciences meeting, Edwardsville, IL (*award for Best Student Poster*).
- *Durbin, K., P. Brunkow, and *L. Bauer. 2002. Relationships between foot shape and shell shape in two freshwater snails. Illinois State Academy of Sciences meeting, Edwardsville, IL.
- *Hedrick, V., and P. Brunkow. 2002. Effects of human recreation on bird species in an Illinois state nature preserve. Illinois State Academy of Sciences meeting, Edwardsville, IL.
- *Durbin, K. and P. Brunkow. 2002. Foot shape and shell shape in a freshwater snail. Ecological Society of America meeting, Tucson, AZ.
- *Hedrick, V. and P. Brunkow. 2002. Response of bird species to human presence and recreation in a nature preserve. Ecological Society of America meeting, Tucson, AZ.
- *Gann, V.A., P.E. Brunkow, *T. Marriage, *K. Kahl, *C. Jones, K.E. Schulz, and J. Zasada. 2001. Effects of simulated herbivory and light on growth and reproductive allocation in *Dirca palustris* (Eastern leatherwood). Ecological Society of America meeting, Madison, WI.
- *S. Burns, *K. Weiss, and P. Brunkow. 2001. Effects of shell orientation on resistance to crushing in freshwater snails. Illinois State Academy of Sciences meeting, Macomb, IL.
- *P.A. Herman, and P.E. Brunkow. 2001. Developmental stability of fish from regions of varying lead contamination in the Ozark mountains. Illinois State Academy of Sciences meeting, Macomb, IL.

STUDENT MEETING PRESENTATIONS (cont'd.)

- *K. Victory, M. Smith, R. Pearson, M. Starr, and P. Brunkow. 2001. An exclusionary approach to modeling *Boltonia decurrens*, a federally listed wetland plant. Illinois State Academy of Sciences meeting, Macomb, IL.
- *Gann, V., P. Brunkow, *T. Marriage, *K. Kahl, and *C. Jones. 2001. Growth and reproductive allocation responses to simulated herbivory and light conditions in *Dirca palustris* (Eastern leatherwood). Illinois State Academy of Sciences meeting, Macomb, IL.
- *Herman, P. A., and P. E. Brunkow. 2000. Lead contamination and fluctuating asymmetry in Ozark stream fish. Ecological Society of America meeting, Snowbird, Utah.
- *Herman, P. A., and P. E. Brunkow. 2000. Fluctuating asymmetry in fish from a lead-contaminated Ozark stream. Illinois State Academy of Science meeting, Rock Island, Illinois.
- *Herman, P.A., *S.M. Welch, and P.E. Brunkow. 1999. Morphological variation of sunfish in a vegetation-free reservoir. Illinois State Academy of Science meeting, Carbondale, Illinois.
- *Herman, P.A., *S.M. Welch, and P.E. Brunkow. 1999. Morphological variation of sunfish in a vegetation-free reservoir. American Society of Ichthyologists and Herpetologists meeting, College Station, Pennsylvania.
- *Herman, P.A., *S.M. Welch, and P.E. Brunkow. 1999. Morphological variation of sunfish in a vegetation-free reservoir. Ecological Society of America meeting, Spokane, Washington.
- *Dumey, C.M., *E.J. Wonnacott, and P.E. Brunkow. 1999. Size-dependent competition, fecundity, and trematode infection rate in a freshwater snail. Illinois State Academy of Science meeting, Carbondale, Illinois.
- *Dumey, C.M., *E.J. Wonnacott, and P.E. Brunkow. 1999. Size-dependent competition, fecundity, and trematode infection rate in a freshwater snail. Ecological Society of America meeting, Spokane, Washington.
- *Badasch, J., *H. Richardson, and P.E. Brunkow. 1999. Effects of social isolation stress on immune system parameters in sunfish. Illinois State Academy of Science meeting, Carbondale, Illinois.
- *Badasch, J., *H. Richardson, and P.E. Brunkow. 1999. Effects of social isolation stress on immune system parameters in sunfish. American Society of Ichthyologists and Herpetologists meeting, College Station, Pennsylvania.
- *Badasch, J., *H. Richardson, and P.E. Brunkow. 1999. Effects of social isolation stress on immune system parameters in sunfish. Ecological Society of America meeting, Spokane, Washington.
- Linda, S., and P.E. Brunkow. 1997. Laboratory manipulations of skin pigmentation and the effects on larval fitness in tiger salamanders. Ecological Society of America. Albuquerque, New Mexico.
- Seddon, J.A., P.E. Brunkow, E.W. Davidson, and J.P. Collins. 1997. Behavioral fever in salamanders (*Ambystoma tigrinum nebulosum*): the establishment and effect on survival. Ecological Society of America. Albuquerque, New Mexico.

INVITED PRESENTATIONS/SYMPOSIA

October 18, 2001. Missouri Botanical Garden. Lead contamination in Ozark stream fishes. Presented as part of 50th Anniversary of Pioneer Forest honorary symposium.

September 16, 1998. University of Missouri - St. Louis. Individual size variation in larval salamanders. Invited by Dr. Bette Loiselle, Department of Biology.

January 30, 1998. St. Louis University, St. Louis, Missouri. Ecology of individual variation in larval tiger salamanders. Invited by Dr. Nevin Aspinwall, Department of Biology.

November 12, 1997. Washington University, St. Louis, Missouri. Ecology of individual variability in size among larval tiger salamanders. Invited by Dr. Alan Larson, Department of Biology.

SERVICE COMMITTEES

Arizona State University

- Graduate Program Committee. Department of Zoology, Arizona State University. 1992 -1993.
- Graduate Council. Graduate College, Arizona State University. 1994 - 1995.
- Search committee for Dean of the Graduate College. Graduate College, Arizona State University. 1994 - 1995.
- Search committee for Theoretical Ecologist (tenure-track position). Department of Zoology, Arizona State University. 1995 - 1996.

SERVICE COMMITTEES (cont'd.)

Southern Illinois University – Edwardsville

- Chair, BRIDGE Implementation Committee, Provost Office. August 2007 – 2010
- BRIDGE Working Group, June 2007 – May 2008
- Chair, LEVELS Task Force, SIUE Faculty Senate. April 2005 – December 2006.
- Chair, Graduate Program Committee, Department of Biological Sciences. August 1998 - 2001
- Graduate Committee. Department of Biological Sciences. August 1997 – June 2010.
- Search Committee. Environmental Physiologist tenure-track position. Nov. 1998 - Feb. 1999; Nov. 1999 - Mar. 2000; Nov. 2000 - Mar. 2001.
- Search Committee. Biology Education tenure-track position. August 2001 - April 2002.
- Executive Committee, Department of Biological Sciences. August 2001 – May 2003.
- Educational and Research Policies subcommittee of SIUE Graduate Council. 2001-2003.
- Research and Projects Advisory Board. SIUE Graduate School. 2003 - 2007.
- Business Program Review Committee, SIUE Office of the Provost. August 2005 – May 2006

PROFESSIONAL SERVICE

- President, Illinois State Academy of Science (4/11 – Present)
- Zoology Division Chair, Illinois State Academy of Science (2008-2011)
- Community Outreach (June, July 2000 and 2001): Led workshops on field biology for grade school students at Watershed Nature Center, Edwardsville, Illinois.
- Session moderator. 1999, 2001. Ecological Society of America annual meeting, Spokane, Washington, and Madison, Wisconsin, respectively.
- Reviewer: Manuscripts for journals American Naturalist, Journal of Herpetology (2), Ohio Journal of Science, Transactions of the Illinois State Academy of Science (2), Copeia, Oecologia
Grant applications for National Science Foundation (2), U.S. Bureau of Reclamation (Grand Canyon Monitoring and Research Station) (2), New Hampshire Sea Grant Program, Wisconsin Sea Grant Program,
- Community outreach (April, October 1999): Presentations on amphibian conservation delivered to Holiday Shores residential community, and assistance/presentation during Earth Day activities at Holiday Shores, Edwardsville, Illinois.

PROFESSIONAL PARTICIPATION

- Ecological Society of America
- Society for the Study of Evolution
- American Society of Ichthyologists and Herpetologists
- Animal Behaviour Society
- Sigma Xi (Full Member)