

U.S. Geological Survey, Southeast Ecological Science Center, 77920 NW 71st Street, Gainesville, FL 32653-3071
352-264-3507; E-mail: swalls@usgs.gov
Home: 1015 SW Mapleton St., Fort White, FL 32038, 352-281-4700

EDUCATION

- Ph.D. 1991 University of Louisiana at Lafayette
(Environmental and Evolutionary Biology)
Dr. Robert G. Jaeger, Advisor
- M.S. 1985 University of Louisiana at Lafayette (Biology)
- B.S. 1983 Mississippi State University (Zoology)

EMPLOYMENT

- April, 2007- Present Research Wildlife Biologist, U. S. Geological Survey,
Southeast Ecological Science Center, Gainesville, FL
- July, 2000 – March, 2007 Research Ecologist, U. S. Geological Survey,
National Wetlands Research Center, Lafayette, LA
- 1996- June, 2000 Assistant Professor, Department of Biological Sciences,
The University of Southern Mississippi
- 1994-1996 Assistant Professor, Department of Biology,
The City College of The City University of New York
- 1992-1993 N.S.F. Postdoctoral Research Associate, Oregon State University
(with Dr. Andrew R. Blaustein)
- 1991-1992 Instructor, Department of Zoology, Oregon State University
- 1986-1991 Teaching Assistant, Department of Biology,
University of Louisiana at Lafayette
- 1983-1985 Teaching Assistant, Department of Biology,
University of Louisiana at Lafayette
- 1982 Teaching Assistant, Department of Zoology, Mississippi State University

OTHER EMPLOYMENT

- 1986 Iguana Management Project, Smithsonian Tropical Research Institute,
Balboa, Panama

COURSES TAUGHT

University of Florida, Gainesville, FL (2007-present):

Guest Lecturer in “Wildlife Techniques”, Department of Wildlife Ecology and Conservation (2007, 2008)

Guest Lecturer for “Conservation of Amphibians and Reptiles” (WIS 4934), Department of Wildlife Ecology and Conservation, September 2009, 2012 and 2015

The University of Southern Mississippi (1996-2000):

Biological Science (BSC 103)
Principles of Biological Sciences I (BSC 110)
Principles of Biological Sciences II (BSC 111)
Biology of Vertebrates (BSC 407/507)
Herpetology (BSC 417/517)
Senior Practicum (BSC 497)

The City College of The City University of New York (1994-1996):

Population and Community Biology (Biology 208)

Oregon State University (1991-1992):

General Ecology (BI 370)
General Biology (Ecology and Evolution) (BI 212)
Evolution (BI 445/545)
Graduate Seminar ("Sexual Selection and Sex Determination") (Z 507b)

GRADUATE/HONOR STUDENT COMMITTEES CHAIRED

- 1999-2002 Venetia Briggs, M.S., University of Southern Mississippi, “Agonistic Behavior of the Mediterranean Gecko (*Hemidactylus turcicus*)”.
- 1998-2001 Lorie Yates, M.S., University of Southern Mississippi, “The Agonistic Behavior of Three Species of Plethodontid Salamanders (Plethodontidae)”.
- 1998-1999 Jill Arnold, B.S., Honors Thesis, University of Southern Mississippi, “The Effects of Genetic Relatedness and Alternate Prey on Cannibalism in Mosquitofish”.

MEMBERSHIP ON GRADUATE STUDENT COMMITTEES (DATE INDICATES YEAR OF COMPLETION)

- 2013 Suzanne Simpson, M.S., University of Florida, “Assessing Critical Thermal Minima to Determine the Thermal Limits of the Invasive Cuban Treefrog (*Osteopilus septentrionalis*)”.
- 2006 Sarah Barlow, M.S., Louisiana State University, “Monitoring Anuran Richness and Relative Abundance in Created Wetlands of Central Louisiana”.

- 2004 Tonya Darden, Ph.D., University of Southern Mississippi, “Evolutionary and Ecological Processes within Dystrophic Blackwater Habitats: Speciation, Dispersal and Historic Biogeography in Enneacanthini Sunfishes and Potential Factors Influencing Their Local Distributions”.
- 2003 Pamela Schofield, Ph.D., University of Southern Mississippi, “The Importance of Competition and Physiological Tolerance for Two Gobies (*Microgobius gulosus* and *Gobiosoma robustum*; Family: Gobiidae) in a lagoonal estuarine system (Florida Bay, Florida, USA)”
- 2003 Robert Page, M. S., University of Louisiana at Lafayette, “Signal Ambiguity and the Assessing of Imperfect Information in Red-Backed Salamanders (*Plethodon cinereus*)”.
- 2003 Robert Smith, Ph.D., University of Southern Mississippi, “Resources and Arrival of Landbird Migrants at Northerly Breeding Grounds: Linking *en route* with Breeding Season Events”.
- 2002 John Himes, Ph.D., University of Southern Mississippi, “The Role of the Midland Water Snake, *Nerodia sipedon*, as a Competitor, Predator, and Prey in Freshwater Communities”.
- 2001 Mollie Cashner, M.S., University of Southern Mississippi, “An investigation of chemical alarm systems of a coevolved assemblage of freshwater fishes in the southeastern United States”.
- 2001 Colleen Dywer, M.S., University of Southern Mississippi, “Age-related differences in the pre-migratory behavior of Gray Catbirds”.
- 2001 Megan Gibbons Peterson, Ph.D., University of Louisiana at Lafayette, “Complex behaviors in the red-backed salamander: Foraging and kin discrimination”.
- 2001 Aimée Lee, M.S., University of Southern Mississippi, “The influence of predatory fishing spiders on the foraging ecology and refuge use of larval salamanders”.
- 2000 Scott Smyers, M.S., University of Louisiana at Lafayette, “Behavioral interactions within and between species of juvenile pond-breeding salamanders”.
- 2000 Michael Rubbo, M.S., University of Louisiana at Lafayette, “Ecological interactions and sensory adaptations of three species from a terrestrial leaf litter community”.

- 2000 Stephan Woltmann, M.S., University of Southern Mississippi, “Autumn migration behavior and winter distribution of migratory hawks”.
- 2000 David Cimprich, Ph.D., University of Southern Mississippi, “Predation risk and the predator avoidance behavior of migrant birds during stopover”.

TECHNICAL TRAINING RECEIVED (in USGS)

- Occupancy Modeling Workshop, Gainesville, FL, March, 2013
- Analysis and Management of Animal Populations, Gainesville, FL, March, 2011
- Project Leadership, Management and Communications, Washington, DC, May 2006
- Leadership Intensive Training, Lafayette, LA, January, 2005
- Supervisory Challenge in the USGS, Denver, CO, 2003
- Introduction to GPS for Natural Resources, University of Louisiana at Lafayette, Lafayette, LA, 2001
- National Wetlands Research Center and Redfish Point, Vermillion Bay, LA, 2001 Motorboat Operator Certification Course
- Introduction to Desktop GIS (Arcview) for Natural Resources, University of Louisiana at Lafayette, Lafayette, LA, 2001
- Introduction to National Wetlands Classification System, University of Louisiana at Lafayette, Lafayette, LA, 2001

PUBLICATIONS

Peer-reviewed Journal Articles (underlined=student):

- Walls, S.C.** and R. Altig. 1986. Female reproductive biology and larval life history of *Ambystoma* salamanders: a comparison of egg size, hatchling size, and larval growth. *Herpetologica* **42**:334-345.
- Walls, S.C.** and R.G. Jaeger. 1987. Aggression and exploitation as mechanisms of competition in larval salamanders. *Canadian Journal of Zoology* **65**:2938-2944.
- Jaeger, R.G. and **S.C. Walls**. 1989. On salamander guilds and ecological methodology. *Herpetologica* **45**:111-119.
- Walls, S.C.** and R.G. Jaeger. 1989. Growth in larval salamanders is not inhibited through chemical interference competition. *Copeia* **1989**:1049-1052.
- Walls, S.C.**, A. Mathis, R.G. Jaeger and W.F. Gergits. 1989. Male salamanders with high quality diets have faeces attractive to females. *Animal Behaviour* **38**:546-548.
- Walls, S.C.** 1990. Interference competition in post-metamorphic salamanders: interspecific differences in aggression by coexisting species. *Ecology* **71**:307-314.
- Semlitsch, R.D. and **S.C. Walls**. 1990. Geographic variation in the egg-laying strategy of the mole salamander, *Ambystoma talpoideum*. *Herpetological Review* **21**:14-15.

- Walls, S.C.** and R.E. Roudebush. 1991. Reduced aggression toward siblings as evidence of kin recognition in cannibalistic salamanders. *The American Naturalist* **138**:1027-1038.
- Walls, S.C.** and R.D. Semlitsch. 1991. Visual and movement displays function as agonistic behavior in larval salamanders. *Copeia* **1991**:936-942.
- Walls, S.C.** 1991. Ontogenetic shifts in the recognition of siblings and neighbours by juvenile salamanders. *Animal Behaviour* **42**:423-434.
- Walls, S.C.**, A.R. Blaustein and J.J. Beatty. 1992. Amphibian biodiversity of the Pacific Northwest with special reference to old growth stands. *Northwest Environmental Journal* **8**:53-69.
- Walls, S.C.**, J.J. Beatty, B.N. Tissot, D.G. Hokit and A.R. Blaustein. 1993. Morphological variation and cannibalism in a larval salamander (*Ambystoma macrodactylum columbianum*). *Canadian Journal of Zoology* **71**:1543-1551.
- Walls, S.C.**, S.S. Belanger and A.R. Blaustein. 1993. Morphological variation in a larval salamander: dietary induction of plasticity in head shape. *Oecologia* **96**:162-168.
- Semlitsch, R.D. and **S.C. Walls**. 1993. Competition in two species of larval salamanders: a test of geographic variation in competitive ability. *Copeia* **1993**:587-595.
- Blaustein, A.R., T. Yoshikawa, K. Asoh and **S.C. Walls**. 1993. Ontogenetic shifts in tadpole kin recognition: loss of signal and perception. *Animal Behaviour* **46**:525-538.
- Blaustein, A.R., P.D. Hoffman, D.G. Hokit, J.M. Kiesecker, **S.C. Walls** and J. B. Hays. 1994. UV repair and resistance to solar UV-B in amphibian eggs: a link to population declines? *Proceedings of the National Academy of Science USA* **91**:1791-1795.
- Seaman, J.W., Jr., **S.C. Walls**, S.E. Wise and R.G. Jaeger. 1994. Caveat emptor: rank transform methods and interaction. *Trends in Ecology and Evolution* **9**:261-263.
- Walls, S.C.** and A.R. Blaustein. 1994. Does kinship influence density dependence in a larval salamander? *Oikos* **71**:459-468.
- Walls, S.C.** 1995. Differential vulnerability to predation and refuge use in competing larval salamanders. *Oecologia* **101**:86-93.
- Walls, S.C.** and A.R. Blaustein. 1995. Larval marbled salamanders, *Ambystoma opacum*, eat their kin. *Animal Behaviour* **50**:537-545.
- Blaustein, A.R., J.M. Kiesecker, D.G. Hokit and **S.C. Walls**. 1995. Amphibian declines and UV radiation. *BioScience* **45**:514-515.

- Blaustein, A.R., J.M. Kiesecker, **S.C. Walls** and D.G. Hokit. 1996. Field experiments, amphibian mortality, and UV radiation. *BioScience* **46**:386-388.
- Hokit, D.G., **S.C. Walls** and A.R. Blaustein. 1996. Context-dependent kin discrimination in larvae of the marbled salamander, *Ambystoma opacum*. *Animal Behaviour* **52**:17-31.
- Walls, S.C.**, C.S. Conrad, M.L. Murillo and A.R. Blaustein. 1996. Agonistic behaviour in larvae of the Northwestern salamander (*Ambystoma gracile*): the effects of kinship, familiarity and population source. *Behaviour* **133**:965-984.
- Walls, S.C.** 1996. Differences in foraging behaviour explain interspecific growth inhibition in competing salamanders. *Animal Behaviour* **52**:1157-1162.
- Walls, S.C.** 1998. Density dependence in a larval salamander: the effects of interference and food limitation. *Copeia* **1998**:926-935.
- Walls, S.C.** and M.G. Williams. 2001. The effect of community composition on persistence of prey with their predators in an assemblage of pond-breeding amphibians. *Oecologia* **128**:134-141.
- Walls, S.C.**, D.G. Taylor and C.M. Wilson. 2002. Interspecific differences in susceptibility to competition and predation in a species-pair of larval anurans. *Herpetologica* **58**:104-118.
- Muths, E., R.E. Jung, L.L. Bailey, M.J. Adams, P.S. Corn, C.K. Dodd Jr., G.M. Fellers, W.J. Sadinski, C.R. Schwalbe, **S.C. Walls**, R.N. Fisher, A.L. Gallant, W.A. Battaglin and D.E. Green. 2005. Amphibian Research and Monitoring Initiative (ARMI): A successful start to a national program in the United States. *Applied Herpetology* **2**:355-371.
- Lichtenberg, J.S., S.L. King, J.B. Grace, and **S.C. Walls**. 2006. Habitat associations of chorusing anurans in the Lower Mississippi River Alluvial Valley. *Wetlands* **26**:736-744.
- Mitchell, J.C. and **S.C. Walls**. 2006. Field notes: *Ophedrys aestivus* (Rough Greensnake). *Catesbeiana* **26**:26-27.
- Mitchell, J.C., J.D. Groves, and **S.C. Walls**. 2006. Keratophagy in reptiles: review, hypotheses, and recommendations. *South American Journal of Herpetology* **1**:42-53.
- Drake, D.L., R. Altig, J.B. Grace, and **S.C. Walls**. 2007. Occurrence of oral deformities in larval anurans. *Copeia* **2007**:449-458.
- Mitchell, J. C. and **S.C. Walls**. 2008. Cannibalism. In Sven Erik Jørgensen and Brian D. Fath (Editor-in-Chief), Population Dynamics. Vol. 1 of *Encyclopedia of Ecology*, 5 vols. pp. 513-517. Oxford: Elsevier.
- Mitchell, J.C., **S.C. Walls** and J.W. Beck. 2008. *Virginia striatula* (Rough Earth Snake). Aggregation and urban habitat. *Herpetological Review*. **39**:474-475.

- Rothermel, B.B., **S.C. Walls**, J.C. Mitchell, C.K. Dodd, Jr., L.K. Irwin, D.E. Green, V.M. Vazquez, J.W. Petranka and D.J. Stevenson. 2008. Widespread occurrence of the amphibian chytrid fungus (*Batrachochytrium dendrobatidis*) in the southeastern United States. *Diseases of Aquatic Organisms* **82**:3-18.
- Walls, S.C.** 2009. The role of climate in the dynamics of a hybrid zone in Appalachian salamanders. *Global Change Biology* **15**:1903-1910.
- Blaustein, A.R., **S.C. Walls**, B.A. Bancroft, J.J. Lawler, C.L. Searle, and S.S. Gervasi. 2010. Direct and indirect effects of climate change on amphibian populations. *Diversity* **2**:281-313.
- Waddle, J.H., R.M. Dorazio, **S.C. Walls**, K.G. Rice, J. Beauchamp, M. Schuman and F.J. Mazzotti. 2010. A new parameterization for estimating co-occurrence of interacting species. *Ecological Applications* **20**:1467-1475.
- Faulkner, S., W. Barrow, B. Keeland, **S. Walls**, and D. Telesco. 2011. Effects of Conservation Practices on Wetlands in the Mississippi Alluvial Valley. *Ecological Applications* **21**:S31-S48.
- Walls, S.C.**, J.H. Waddle, and R.M. Dorazio. 2011. Estimating occupancy dynamics in an anuran assemblage. *Journal of Wildlife Management* **75**:751-761.
- Walls, S.C.**, W.J. Barichivich, and M.E. Brown. 2011. *Ambystoma talpoideum* (Mole Salamander). Oviposition mode and timing. *Herpetological Review* **42**:579-580.
- Walls, S.C.**, W.J. Barichivich, M.E. Brown, D.E. Scott, and B.R. Hossack. 2013. Influence of drought on salamander occupancy of isolated wetlands on the southeastern Coastal Plain of the United States. *Wetlands* **33**:345-354.
- Walls, S.C.**, W.J. Barichivich, and M.E. Brown. 2013. Drought, deluge and declines: the impact of precipitation extremes on amphibians in a changing climate. *Biology* **2**:399-418.
- Adams, M.J., D.A.W. Miller, E. Muths, P.S. Corn, E.H.C. Grant, L.L. Bailey, G. Fellers, R.N. Fisher, W.J. Sadinski, H. Waddle, and **S.C. Walls**. 2013. Trends in amphibian occupancy in the United States. *PLoS One* **8**(5): e64347.doi:10.1371/journal.pone.0064347.
- Brown, M.E. and **S.C. Walls**. 2013. Variation in salinity tolerance among larval anurans: implications for community composition and the spread of an invasive, non-native species. *Copeia* **2013**:544-552.
- Mitchell, J.C. and **S.C. Walls**. 2013. Nest site selection by diamond-backed terrapins (*Malaclemys terrapin*) on Fisherman Island, Virginia. *Chelonian Conservation Biology* **12**:303-308.

- Walls, S.C.**, J.H. Waddle, and S.P. Faulkner. 2014. Wetland Reserve Program enhances site occupancy and species richness in assemblages of anuran amphibians in the Lower Mississippi Valley, USA. *Wetlands* 34:197-207.
- Walls, S.C.**, J.H. Waddle, W.J. Barichivich, I. Bartoszek, M.E. Brown, J. Hefner, and M.J. Schuman. 2014. Anuran site occupancy as a tool for evaluating restoration of a hydrologically modified landscape. *Wetlands Ecology and Management* 22:625-639.
- Walls, S.C.** 2014. Identifying monitoring gaps for amphibian populations in a North American biodiversity hotspot, the southeastern USA. *Biodiversity and Conservation* 23:3341-3357.
- Chambert, T., W.L. Kendall, J.E. Hines, J.D. Nichols, P. Pedrini, J.H. Waddle, G. Tavecchia, **S.C. Walls**, and S. Tenan. 2015. Testing hypotheses on distribution shifts and changes in phenology of imperfectly detectable species. *Methods in Ecology and Evolution* 6:638-647.
- Mushet, D.M., A.J.K. Calhoun, L.C. Alexander, M.J. Cohen, E.S. DeKeyser, L. Fowler, C.R. Lane, M.W. Lang, M.C. Rains, and **S.C. Walls**. 2015. Geographically isolated wetlands: rethinking a misnomer. *Wetlands* 35:423-431.
- Cohen, M.J., I.F. Creed, L. Alexander, N. Basu, A. Calhoun, C. Craft, E. D'Amico, E. DeKeyser, L. Fowler, H.E. Golden, J.W. Jawitz, P. Kalla, L.K. Kirkman, C.R. Lane, M. Lang, S.G. Leibowitz, D.B. Lewis, J. Marton, D.L. McLaughlin, D. Mushet, H. Raanan-Kiperwas, M.C. Rains, L. Smith, and **S. Walls**. 2016. Conserving the continuum of connectivity: do geographically isolated wetlands impact landscape functions? *Proceedings of the National Academy of Sciences* 113:1978-1986.
- In Review or Revision:*
- Grant, E., D. Miller, B. Schmidt, M. Adams, S. Amburgey, T. Chambert, S. Cruickshank, R. Fisher, D. Green, B. Hossack, P. Johnson, M. Joseph, T. Rittenhouse, M. Ryan, J.H. Waddle, **S. Walls**, L. Bailey, G. Fellers, T. Gorman, A. Ray, D. Pilliod, S. Price, D. Saenz, and E. Muths. Quantitative evidence for the effects of multiple drivers on continental-scale amphibian declines. *Scientific Reports, in revision*.
- Riley, J.W., D.L. Calhoun, W.J. Barichivich, and **S.C. Walls**. Identifying depressional wetlands and using topographic characteristics to infer hydroperiod regimes for pond-breeding amphibians. *Wetlands, in revision*.
- Davis, C.L., D.A.W. Miller, **S.C. Walls**, W.J. Barichivich, J. Riley, and M.E. Brown. Species traits, physical environment, and community interactions influence responses of wetland-breeding amphibians to environmental change. *Proceedings of the Royal Society B*. Submitted.
- Davis, C.L., D.A.W. Miller, **S.C. Walls**, W.J. Barichivich, J. Riley, and M.E. Brown. Life history plasticity does not confer resilience in the mole salamander (*Ambystoma talpoideum*). *Oecologia*, Submitted.

Calhoun, A.J.K., D.M. Mushet, L.C. Alexander, E.S. DeKeyser, L. Fowler, C.R. Lane, M.W. Lang, M.C. Rains, and **S.C. Walls**. Geographically isolated wetlands: over a decade of advancement in science and policy invites rethinking of concepts and terminology. *Wetlands*. Submitted.

Book Chapters:

Blaustein, A.R. and **S.C. Walls**. 1995. Aggregation and kin recognition. In: *Amphibian Biology*, vol. 3 (Ed. by H. Heatwole and B. K. Sullivan). Chipping Norton, Australia: Surrey Beatty & Sons, pp. 568-602.

Mathis, A., R.G. Jaeger, W.H. Keen, P.K. Ducey, **S.C. Walls** and B.W. Buchanan. 1995. Aggression and territoriality in salamanders and a comparison with the territorial behaviour of frogs. In: *Amphibian Biology*, vol. 3 (Ed. by H. Heatwole and B. K. Sullivan). Chipping Norton, Australia: Surrey Beatty & Sons, pp. 633-676.

Dorcas, M.E., S.J. Price, **S.C. Walls** and W.J. Barichivich. 2010. Auditory Monitoring of Anuran Populations. Chapter 16 in C.K. Dodd, Jr. (ed.): *Techniques in Ecology and Conservation*. Pp. 281-298. Oxford University Press.

Book Reviews:

Walls, S.C. 1993. Book Review: *Cannibalism: Ecology and Evolution among Diverse Taxa*. M. A. Elgar and B. J. Crespi. *The Quarterly Review of Biology* 68:621.

Walls, S.C. 2008. Review of “*The Ecology and Behavior of Amphibians*”, by K.D. Wells, for *The Quarterly Review of Biology* 83:416-417.

Newsletter Articles:

Walls, S. 2014. Seduced by salamanders. Salamander News 7:7-9. www.yearofthesalamander.org.

REPORTS:

Muths, E., A.L. Gallant, E.H. Campbell Grant, W.A. Battaglin, D.E. Green, J.S. Staiger, **S.C. Walls**, M.S. Gunzburger, and R.F. Kearney. 2006. The Amphibian Research and Monitoring Initiative (ARMI): 5-year report. Scientific Investigations Report 2006-5224. Reston, VA: U.S. Geological Survey. 77 p.

RESEARCH GRANTS:

2014	\$ 64,700	“Using a novel ecophysiological tool to evaluate the conservation status of imperiled populations in species distribution models.” Funded by USGS Amphibian Research and Monitoring Initiative
2014	\$242,454	“Adaptive habitat conservation for Flatwoods Salamanders.” Funded by USGS Refuge Cooperative Research Program
2011	\$114,148	“Coping with Invasive Alien Species and Environmental Stressors: Linking Behavioral Studies with Management for Anuran Amphibians”. Funded by USGS Amphibian Research and Monitoring Initiative.

2008-2014	\$528,250	<i>“Use of Amphibian Communities as Indicators of Restoration Success in the Greater Everglades”</i> and <i>“Validation of Amphibian Models for Use in the Southwest Florida Feasibility Study: Evaluation of Pre-restoration Communities and Potential Impacts of Climate Change.”</i> Funded by the USGS Greater Everglades Priority Ecosystems Science Program (GEPES)
2007	\$88,801	Competitive Award from the USGS Amphibian Research and Monitoring Initiative (ARMI): <i>“Examination of the potential effects of feral hogs (Sus scrofa) on the federally threatened Flatwoods Salamander, Ambystoma cingulatum”</i>
2004	\$70,860	Competitive Award from the USGS Amphibian Research and Monitoring Initiative (ARMI): <i>“Advancing Froglogger Technology: Leaping into the Future”</i> .
2000	\$ 7,500	Research Award from the Summer Faculty Research Grant Program of The University of Southern Mississippi
1997	\$ 7,500	Research Award from the Summer Faculty Research Grant Program of The University of Southern Mississippi
1995	\$ 3,852	Research Award from the Black Rock Forest Consortium (Cornwall, New York)
1995	\$ 8,200	Research Award from the Professional Staff Congress of The City University of New York (PSC-CUNY).
1992	\$ 4,000	National Science Foundation, Research Experiences for Undergraduates Supplemental Grant; co-principal investigator with Dr. Andrew R. Blaustein.
1991	\$ 85,000	National Science Foundation (2 years) (<i>“The ontogeny and adaptive significance of kin recognition in a model amphibian system”</i>); co-principal investigator with Dr. Andrew R. Blaustein.
1988	\$ 450	Grant-in-Aid of Research, Sigma Xi (<i>“Geographic variation in the coexistence of two species of larval salamanders (Ambystoma): the role of interspecific competition”</i>).

PRESENTATIONS – INVITED AND OTHER ADDRESSES TO SOCIETIES AND AGENCIES

1983	Walls, S. C. and R. Altig. “Female reproductive biology of two freshwater crustaceans from temporary forest ponds in Mississippi”. Presented at the Meeting of the Association of Southeastern Biologists, Lafayette, Louisiana.
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- 1984 Walls, S. C. and R. Altig. "The female reproductive biology of the marbled salamander, *Ambystoma opacum*, in Mississippi." Presented at the Combined Meeting of the American Society of Ichthyologists and Herpetologists, Society for the Study of Amphibians and Reptiles, and the Herpetologists' League, Norman, Oklahoma.
- 1986 Walls, S. C. "Aggression, exploitation and fungal infection as mechanisms of competition in larval *Ambystoma*." Presented at the Combined Meeting of the Society for the Study of Amphibians and Reptiles and the Herpetologists' League, Springfield, Missouri.
- 1986 Werner, D. I., S. C. Walls and D. Feener. "Incubation of *Iguana iguana* eggs: conditions and their effect on hatchling quality." Presented at the Combined Meeting of the Society for the Study of Amphibians and Reptiles and the Herpetologists' League, Springfield, Missouri.
- 1987 Walls, S. C., S. A. Mathis and R. G. Jaeger. "Male salamanders have sexy feces." Presented at the Meeting of the Animal Behavior Society, Williamstown, Massachusetts.
- 1987 Walls, S. C. "Aggression in juvenile salamanders: asymmetries in contests for refuges." Presented at the Meeting of the American Society of Zoologists, New Orleans, Louisiana.
- 1988 Walls, S. C. and R. G. Jaeger. "Competition in salamander larvae (*Ambystoma*): is growth inhibited through chemical interference?" Presented at the Combined Meeting of Herpetologists' League, the Society for the Study of Amphibians and Reptiles, and the American Society of Ichthyologists and Herpetologists, Ann Arbor, Michigan.
- 1989 Walls, S. C. "The effects of body size and residency on asymmetric contests among juvenile salamanders." Presented at the Meeting of the Animal Behavior Society, Highland Heights, Kentucky.
- 1990 Walls, S. C. and R. E. Roudebush. "Reduced aggression toward siblings as evidence of kin recognition in cannibalistic salamanders." Presented at the Meeting of the Animal Behavior Society, Binghamton, New York.
- 1990 Walls, S. C. "Interspecific differences in foraging behavior explain the differential growth of competing larval salamanders." Presented at the Combined Meeting of the Herpetologists' League and the Society for the Study of Amphibians and Reptiles, New Orleans, Louisiana.
- 1991 Walls, S. C. "Behavioral differences in response to intraguild predation in two competing species of larval *Ambystoma*." Presented at the Combined Meeting of the Herpetologists' League and the Society for the Study of Amphibians and Reptiles, University Park, Pennsylvania.

- 1992 Walls, S. C. "Competition in postmetamorphic *Ambystoma*: implications for juvenile recruitment in the terrestrial environment." **Invited presentation** in the Canadian Association of Herpetologists' Symposium, "Ecology and Evolution of Ambystomatid Salamanders", held at the Combined Meeting of the American Society of Ichthyologists and Herpetologists, the Herpetologists' League, and the American Elasmobranch Society. Urbana-Champaign, Illinois.
- 1992 Walls, S. C., J. J. Beatty, B. N. Tissot, D. G. Hokit and A. R. Blaustein. "Divergent patterns of morphological variation in a polyphenic larval salamander." Presented at the Combined Meeting of the American Society of Ichthyologists and Herpetologists, the Herpetologists' League, and the American Elasmobranch Society. Urbana-Champaign, Illinois.
- 1992 Walls, S. C., A. R. Blaustein and D. G. Hokit. "Ecological correlates of kin recognition." Presented at the Meeting of the Ecological Society of America, Honolulu, Hawaii.
- 1993 Walls, S. C. and A. R. Blaustein. "Aggregation and kin recognition behavior in amphibians." **Invited symposium presentation** at the Meeting of the Animal Behavior Society, University of California at Davis.
- 1993 Walls, S. C., C. S. Conrad and A. R. Blaustein. "Sibling cannibalism in a larval salamander: discriminating cannibals or kamikaze prey?" Presented at the Meeting of the Animal Behavior Society, University of California at Davis.
- 1994 Hokit, D. G., S. C. Walls and A. R. Blaustein. "Context-dependent kin discrimination in a larval salamander (*Ambystoma opacum*)." Presented at the Combined Meeting of the Herpetologists' League/Society for the Study of Amphibians and Reptiles, University of Georgia, Athens.
- 1995 Walls, S. C. "Sibling cannibalism: a side-effect of 'species' recognition?" Presented at the meeting of the Northeast Regional Animal Behavior Society, Smith College, Northampton, Massachusetts.
- 1996 Walls, S. C. "Variation in kinship behavior in larval marbled salamanders: what are the ecological and evolutionary factors?" **Invited presentation** in the symposium, "Intraspecific Variation in the Behavior and Ecology of Amphibians", held at the Combined Annual Meeting of the American Society of Ichthyologists and Herpetologists/Herpetologists' League, New Orleans, Louisiana.
- 1997 Walls, S. C. Density dependence in a larval salamander: the contributions of interference and food limitation. Presented at the Combined Meeting of the American Society of Ichthyologists and Herpetologists/Herpetologists' League/Society for the Study of Amphibians and Reptiles, University of Washington, Seattle, Washington.
- 1997 Walls, S. C. and M. G. Williams. "The assembly of communities of pond-breeding

- amphibians: does high species richness promote coexistence between predators and their prey?" Presented at the Combined Meeting of the American Society of Ichthyologists and Herpetologists/Herpetologists' League/Society for the Study of Amphibians and Reptiles, University of Washington, Seattle, Washington.
- 2000 Lee, A. T., L. D. Yates and S. C. Walls. "Predator-prey interactions between the fishing spider, *Dolomedes vittatus* and the three-lined salamander, *Eurycea guttolineata*." Presented at the Annual Meeting of the Animal Behavior Society, Morehouse College and Zoo Atlanta, 5-9 August 2000.
- 2001 Arnold, J. C. and S. C. Walls. "The effects of genetic relatedness and alternate prey on cannibalism in mosquitofish." Presented at the Annual Meeting of the American Society of Ichthyologists and Herpetologists, Pennsylvania State University, 5-10 July 2001.
- 2001 Walls, S. C., R. Taylor, J. Lichtenberg, and J. Doherty. "The effect of conspecifics on the performance of juvenile spadefoot toads: the consequences of variation in body size." Presented at the Annual Meeting of the Herpetologists' League and the Society for the Study of Amphibians and Reptiles, Indianapolis, IN, 27-31 July 2001.
- 2002 Walls, S. C. "The importance of temporal and environmental variation for species' coexistence in a guild of pond-breeding salamanders." Presented at the combined annual meeting of the American Society of Ichthyologists and Herpetologists; The Herpetologists' League; and The Society for the Study of Amphibians and Reptiles, Kansas City, MO, 3-8 July, 2002.
- 2003 Lichtenberg, J. S., S. L. King, J. B. Grace and S. C. Walls. "Habitat associations of chorusing anurans in the Lower Mississippi River Alluvial Valley." Annual meeting of the Society of Wetland Scientists, New Orleans, LA, June, 2003.
- 2003 Walls, S., K. Wharton, J. Doherty, D. Drake and K. Roberts. "Monitoring anuran calling activity and associated climatic factors at different wetland types." Presented in the Amphibian Research and Monitoring symposium at the annual meeting of the Society of Environmental Toxicology and Chemistry, Austin, TX, 9-13 November, 2003.
- 2003 Walls, S. C., J. L. Doherty, K. Roberts, D. L. Drake, K. L. Wharton and J. McCoy. "The utility of PDAs as automated recording devices: the future frogloggers?" Presented in the Amphibian Research and Monitoring symposium at the annual meeting of the Society of Environmental Toxicology and Chemistry, Austin, TX, 9-13 November, 2003.
- 2003 Drake, D. L., S. C. Walls and R. Altig. "Occurrence of visually-detectable oral defects in larval anurans." Presented in the Amphibian Research and Monitoring symposium at the annual meeting of the Society of Environmental Toxicology and Chemistry, Austin, TX, 9-13 November, 2003.
- 2004 Walls, S. C., K. L. Wharton, J. L. Doherty, D. L. Drake and K. Roberts. "Monitoring anuran amphibians in the Atchafalaya Basin, Louisiana: species richness varies with site

- hydrology and climate.” Presented at the Combined Meeting of the American Society of Ichthyologists and Herpetologists/Herpetologists' League/Society for the Study of Amphibians and Reptiles/American Elasmobranch Society, Norman, OK, 26-31 May, 2004.
- 2004 Drake, D. L., S. C. Walls and R. Altig. “Oral defects in tadpoles from natural sites. Joint meeting of Ichthyologists and Herpetologists.” Presented at the Combined Meeting of the American Society of Ichthyologists and Herpetologists/Herpetologists' League/Society for the Study of Amphibians and Reptiles/American Elasmobranch Society, Norman, OK, 26-31 May, 2004.
- 2004 Wharton, K. L., J. L. Doherty, K. Roberts, D. L. Drake and S. C. Walls. “The future frogloggers: PDAs as automated recording devices.” Presented at the Combined Meeting of the American Society of Ichthyologists and Herpetologists/Herpetologists' League/Society for the Study of Amphibians and Reptiles/American Elasmobranch Society, Norman, OK, 26-31 May, 2004.
- 2005 Drake, D. L., R. Altig, and S. C. Walls. “Post-injury regeneration of the major components of the oral discs of larval ranids.” Presented at the Combined Meeting of the American Society of Ichthyologists and Herpetologists/Herpetologists' League/Society for the Study of Amphibians and Reptiles/American Elasmobranch Society, Tampa, FL, 6-11 July, 2005.
- 2005 Irwin, L., and S. Walls. “A partnership approach to monitoring the health of amphibians in the Lower Mississippi Valley.” Presented at the Lower Mississippi River Ecosystem Team Meeting (U.S. Fish & Wildlife Service), Stuttgart, AR, 23-25 August 2005.
- 2006 Walls, S. C., Wharton, K. L., Doherty, J. L., and Drake, D. L. “Relationship between anuran species richness and the composition of bottomland hardwood forests.” Joint Meeting of Ichthyologists and Herpetologists, 12-17 July 2006, New Orleans, LA
- 2006 Faulkner, S., W. Barrow, B. Keeland and S. Walls. 2006. **Invited presentation** in the workshop, “Managing Agricultural Landscapes for Environmental Quality: Strengthening the Science Base”, organized by the Soil and Water Conservation Society, Kansas City, MO.
- 2007 Walls, S., S. Faulkner, W. Barrow, and B. Keeland. USGS sponsored workshop, “Understanding Agriculture’s Effects on Amphibians and Reptiles in a Changing World”. St. Louis, MO, January 2007.
- 2007 Walls, S., S. Faulkner, W. Barrow, and B. Keeland. “Evaluating wetland restoration practices in the Lower Mississippi Valley: impacts on amphibian species richness.” Joint meeting of Ichthyologists and Herpetologists, St. Louis, MO, 11-16 July 2007.
- 2007 Mitchell, J.C. and S.C. Walls. “Nest Site Selection by Diamond-backed Terrapins (*Malaclemys terrapin*) on Fisherman Island, Virginia.” Joint meeting of Ichthyologists

- and Herpetologists, St. Louis, MO, 11-16 July 2007.
- 2008 Ball, L.C. and S.C. Walls. "Using Model-Based Monitoring in a National Amphibian Monitoring Program." **Invited presentation** at the annual meeting of the Society of Conservation Biologists, Chattanooga, TN, 13 July 2008.
- 2008 Rothermel, B.B., S.C. Walls, J.C. Mitchell, C.K. Dodd, Jr., L.K. Irwin, D.E. Green, V.M. Vazquez, J.W. Petranka and D.J. Stevenson. "Widespread Occurrence of *Batrachochytrium dendrobatidis* in the Southeastern United States". Presented at the annual Joint Meeting of Ichthyologists and Herpetologists, Montreal, Canada, 26 July 2008.
- 2008 Barichivich, W.J., A.W. Demopoulos and S.C. Walls. "Stable isotopes as a tool to determine trophic interactions of feral pigs (*Sus scrofa*) at St. Marks National Wildlife Refuge." Annual meeting of the Gopher Tortoise Council, Jekyll Island, GA, 4 October 2008.
- 2008 Walls, S.C. "Temporary wetland ecosystems in the face of climate change: an amphibian perspective." Annual meeting of the Gopher Tortoise Council, Jekyll Island, GA, 4 October 2008.
- 2008 Walls, S.C. 2008. "Temporary wetland ecosystems in the face of climate change: an amphibian perspective." **Invited Keynote Presentation** in the session, "Climate Change, Wetlands, and Water Resources of the Southeast". Annual meeting of the South Central and South Atlantic Chapters, Society of Wetland Scientists, University of Alabama, Tuscaloosa, AL, 10 October 2008.
- 2009 Walls, S.C., K.G. Rice and F.J. Mazzotti. "Amphibians as indicators of restoration success in Southwest Florida." Presented at the Joint meeting of Southeast and North Carolina Partners in Amphibian and Reptile Conservation (SEPARC and NCPARC), Montreat, NC, 20 February 2009.
- 2009 Walls, S.C., S.C. Richter, and W.J. Barichivich. "Ephemeral wetland ecosystems in the face of climate change: an amphibian perspective." Presented at the JMIH, 22-27 July 2009, Portland, OR.
- 2009 Waddle, J.H., S.C. Walls and R.M. Dorazio. "Occupancy dynamics in a Louisiana Assemblage of Anurans". Presented at the JMIH, 22-27 July 2009, Portland, OR.
- 2009 Barichivich, W.J., D.L. Calhoun, A.M. Cressler, M.S. Dalton, W.B. Hughes and S.C. Walls. "*Batrachochytrium dendrobatidis* surveillance in Great Smoky Mountains National Park: implications for environmental monitoring of a disease pathogen." Presented at the JMIH, 22-27 July 2009, Portland, OR.

- 2009 Walls, S.C., W.J. Barichivich, and M.E. Brown. Monitoring winter-breeding amphibians in upland ecosystems at St. Marks National Wildlife Refuge, Florida. Presented at the annual meeting of the Gopher Tortoise Council, Gainesville, FL, 2-3 October 2009.
- 2009 Barichivich, W.J., D.L. Calhoun, A.M. Cressler, M.S. Dalton, W.B. Hughes and S.C. Walls. Surveillance for the amphibian chytrid fungus in the southeastern U.S.: implications for environmental monitoring of a disease pathogen in upland ecosystems. Presented at the annual meeting of the Gopher Tortoise Council, Gainesville, FL, 2-3 October 2009.
- 2010 Walls, S.C., W.J. Barichivich, and M.E. Brown. Monitoring winter-breeding amphibians in upland ecosystems at St. Marks National Wildlife Refuge, Florida. Poster presentation at the annual meeting of Southeastern Partners in Reptile and Amphibian Conservation (SEPARC), 18-21 February 2010, Camp Ocala, FL.
- 2010 Haag, K.H., T.M. Lee, and S.C. Walls. Monitoring changes in freshwater wetland hydrology: approaches and applications in the southeastern U.S. Invited presentation in the Special Session, "Freshwater Wetland Hydrology: A Sentinel for Assessing Global Climate Change", joint meeting of the American Society of Limnology and Oceanography (ASLO) and the North American Benthological Society (NABS), Santa Fe, NM, 6-11 June 2010.
- 2010 Smith, T.J. III and others. A Land of Flowers on a Latitude of Deserts: Aiding Conservation and Management of Florida's Biodiversity by using Predictions from "Down-Scaled" AOGCMs Climate Scenarios in Combination with Ecological Modeling. Third USGS Modeling Conference, Denver, CO, 7-11 June 2010.
- 2010 Waddle, J.H., R. M. Dorazio, and S.C. Walls. Presence of Invasive Cuban Treefrog Reduces Probability of Occurrence of Native Treefrog Species in Southern Florida. Annual JMIH, Providence, RI, 7-12 July 2010.
- 2010 Waddle, J.H., R. M. Dorazio, and S.C. Walls. Presence of Invasive Cuban Treefrog Reduces Probability of Occurrence of Native Treefrog Species in Southern Florida. Poster Presentation at the Greater Everglades Ecosystem Restoration Conference, Naples, FL 12-16 July 2010.
- 2010 Walls, S.C. Amphibians as Indicators of Restoration Success in Southwest Florida. Big Cypress Research Symposium, Ochopee, FL, 10 November 2010.
- 2011 Brown, M.E. and S.C. Walls. Effects of acute salinity on larval amphibians. Poster presentation at the Joint Meeting of Ichthyologists and Herpetologists (JMIH), Minneapolis, MN, 6-11 July 2011.
- 2011 Walls, S.C., J.H. Waddle, and S.P. Faulkner. Amphibian responses to wetland restoration In the Lower Mississippi Valley, USA. Ecological Society of America, Austin, TX, 7-12 August 2011.

- 2012 Brown, M.E. and S.C. Walls. "Variation in salinity tolerance of larval amphibians: implications for community composition in coastal wetlands." Joint meeting of Society of Wetland Scientists/Greater Everglades Ecosystem Restoration Conference/INTECOL 9. Orlando, FL, 3-8 June 2012, and the 7th World Congress of Herpetology, Vancouver, British Columbia, Canada, 8-14 August, 2012.
- 2012 Waddle, J.H., S.C. Walls, and S.S. Románach. "Modeling Amphibian Occurrence and Richness as Ecosystem Indicators in the Greater Everglades". Joint meeting of Society of Wetland Scientists/Greater Everglades Ecosystem Restoration Conference/INTECOL 9. Orlando, FL, 3-8 June 2012.
- 2012 Walls, S.C., W.J. Barichivich, and M.E. Brown. "Occupancy dynamics in a pair of pond-breeding amphibians: Testing contrasting predictions about the impacts of climate change." **INVITED** presentation in the Symposium, Amphibian monitoring across the U.S.: Tracking declining populations in diverse habitats and unique assemblages. 7th World Congress of Herpetology, Vancouver, British Columbia, Canada, 8-14 August, 2012.
- 2012 Barichivich, W.J., D.L. Calhoun, M.E. Brown, A.M. Cressler, M.S. Dalton, W.B. Hughes, S.C. Walls. "Environmental monitoring of the amphibian chytrid fungus (*Batrachochytrium dendrobatidis*) in the southeastern United States: Any evidence of disease-related population declines?" **INVITED** presentation in the Symposium, Amphibian monitoring across the U.S.: Tracking declining populations in diverse habitats and unique assemblages. 7th World Congress of Herpetology, Vancouver, British Columbia, Canada, 8-14 August, 2012.
- 2014 Gorman, T.A., W.J. Barichivich, K.M. Enge, J.G. Palis, R.D. Semlitsch, and S.C. Walls. "Roadblocks to recovery: Flatwoods Salamanders as a case study." Presented at the annual meeting of Southeast Partners in Amphibian and Reptile Conservation (SE PARC), Lake Cumberland State Resort Park, Kentucky, 13-16 February 2014.
- 2014 Walls, S.C. "Identifying monitoring gaps for amphibian populations in the southeastern U.S." Presented at the annual Herpetology Conference, Gainesville, FL 5 April 2014.
- 2014 Walls, S.C. "Amphibians as barometers of climate change". Invited presentation to the Florida Fish and Wildlife Conservation Commission, Tallahassee, Florida, as part of their Florida Adapts FWC Educational Lunch N Learn Series, 25 June 2014.
- 2014 Barichivich, W.J. and S.C. Walls. The tortoise and the salamander: lessons learned from listed species. 36th Annual Gopher Tortoise Council Meeting, Albany, GA, 16 October 2014.
- 2015 Mandica, M., N. Allen, D. Fenolio, T. Gorman, A. Green, A. Messerman, H. Mitchell, R. Semlitsch, and S. Walls. A new approach to Flatwoods Salamander conservation using

- structured decision making and adaptive management. Southeast Partners in Amphibian and Reptile Conservation, 19-22 February 2015, Covington, LA.
- 2015 Waddle, H., S. Walls, S. Romañach, and K. Suir. Modeling the Occurrence of Everglades Amphibians as a Function of Habitat and Hydrology. Greater Everglades Ecosystem Restoration (GEER) meeting, Coral Springs, FL, 21-23 April 2015.
- 2015 Walls, S., W.J. Barichivich, K. Enge, A. Farmer, D. Fenolio, T. Gorman, P. Hill, M. Mandica, A. Messerman, H. Mitchell, J. Mott, K. O'Donnell, T. Peacock, J. Reinman, R. Semlitsch, and G. Titus. It takes a village to save a salamander: building partnerships for conservation and management of imperiled amphibians. 38th Annual Herpetology Conference, Gainesville, FL, 28 March 2015.
- 2015 Messerman, A., N. Allan, D. Fenolio, T. Gorman, A. Green, F. Johnson, A. Keever, M. Mandica, J. Martin, H. Mitchell, J. Mott, K. O'Donnell, T. Peacock, J. Reinman, S. Romañach, G. Titus, S. Walls, and R. Semlitsch. Structured decision making for the recovery of the imperiled flatwoods salamanders. Society for the Study of Amphibians and Reptiles, Lawrence, KS, 30 July – 2 August 2015.
- 2015 Walls, S.C. et al. Meeting data needs to inform recovery, conservation and management of imperiled flatwoods salamanders. 100th Ecological Society of America Annual Meeting, Baltimore, MD, 14 August 2015.
- 2015 Davis, C., D.A.W. Miller, S.C. Walls, W.J. Barichivich, and J. Riley. Species traits, habitat dynamics, and community interactions determine amphibian responses to changing water availability. 100th Ecological Society of America Annual Meeting, Baltimore, MD, 10 August 2015.
- 2015 Reinman, J., T. Peacock, G. Titus, J. Chandler, W.J. Barichivich, K.M. O'Donnell, and S.C. Walls. 2015. Taking action: management and recovery of imperiled flatwoods salamanders at St. Marks National Wildlife Refuge, FL. Poster presentation at the annual meeting of the Gopher Tortoise Council, Covington, LA, 16-18 October 2015.
- 2015 Walls, S.C., N. Allan, W.J. Barichivich, D. Fenolio, T.A. Gorman, A. Green, F. Johnson, A. Keever, M. Mandica, J. Martin, A.F. Messerman, H.G. Mitchell, J. Mott, K.M. O'Donnell, T. Peacock, J. Reinman, S.S. Romañach, R.D. Semlitsch and G. Titus. 2015. Meeting data needs to inform recovery, conservation and management of imperiled flatwoods salamanders. Poster presentation at the annual meeting of the Gopher Tortoise Council, Covington, LA, 16-18 October 2015.

PRESENTATIONS - INVITED INSTITUTIONAL SEMINARS

1. Smithsonian Tropical Research Institute (Balboa, Panama); February, 1986.
2. Department of Zoology, Oregon State University; October, 1991.
3. Ecology and Evolution Group, Department of Biology, University of Oregon; May, 1992.
4. Department of Biology, Reed College (Portland, Oregon); September, 1992.
5. Department of Biology, Southwest Missouri State University; October, 1992.
6. Department of Biological Sciences, State University of New York - Albany; March, 1993.

7. Department of Biology, The City College of The City University of New York; March, 1993.
8. Mountain Lake Biological Station (Pembroke, Virginia); July, 1994.
9. Columbia University, Seminar on Population Biology; February, 1995.
10. Department of Biology, State University of New York - Cortland; February, 1995.
11. Department of Biology, Hofstra University (Hempstead, New York); February, 1995.
12. Department of Biology, Queens College of The City University of New York; September, 1995.
13. Department of Biological Sciences, The University of Southern Mississippi; April, 1996.
14. American Museum of Natural History Systematics Discussion Group/CUNY Colloquium in Ecology, Evolution, and Behavioral Biology; May, 1996.
15. Department of Biological Sciences, Mississippi State University; November, 1996.
16. Department of Biological Sciences, Southeastern Louisiana State University, May, 1999.
17. Department of Biology, University of Mississippi, January, 2000.
18. Department of Biological Sciences, University of Louisiana at Lafayette, March, 2001.
19. Department of Biology, Stephens College, Columbia, Missouri, April, 2001.
20. Department of Biology, Utica College of Syracuse University, Utica, New York, November, 2001.
21. Keynote speaker at the meeting of the Louisiana Herpetological Research Group, Louisiana Universities Marine Consortium (LUMCON), Cocodrie, Louisiana, November, 2001.
22. National Wetlands Research Center, Lafayette, Louisiana, December, 2001.
23. Florida Integrated Science Center, Gainesville, Florida, December, 2006.
24. Department of Wildlife Ecology and Conservation, University of Florida, Gainesville, FL, October, 2007.
25. Archbold Biological Station, Lake Placid, FL, April, 2009.
26. Department of Biology, University of South Carolina Upstate, Spartanburg, SC, March 2010.
27. Southeast Ecological Science Center, USGS, April 2013.
28. Department of Earth and Atmospheric Sciences, The City College of City University of New York; February 2014.
29. Department of Biology; Valdosta State University; April 2014.
30. Department of Biology; Texas State University, San Marcos, TX. November 2015.

HONORS, AWARDS, AND RECOGNITION

Honors and Recognition

2000, 2004 Who's Who Among America's Teachers

1990-1991 Who's Who Among Students in American Universities and Colleges

Performance Awards

- U.S. Geological Survey Performance Awards received annually: FY00, FY01, FY02, FY03 and FY04; FY 11-15
- USGS STAR award, 2009, 2014 and 2015

SERVICE ACTIVITIES

Academic Service:

- 2009 Invited external reviewer of the Graduate Program in Environmental Science at

Oregon State University. Invited by the Graduate Council of Oregon State University to serve as a representative of prospective employers of the graduates from its program. 3 June 2009.

- The City College of The City University of New York:
 - 1994-1996: University representative to the Board of Directors for the Black Rock Forest Consortium, an alliance of various academic, scientific and cultural institutions engaged in research, education, and conservation in the Black Rock Forest in New York's Hudson Highlands
- College of Science and Technology, University of Southern Mississippi:
 - 1997-2000: Freshman Mentor Program
 - 1998: Summer Faculty Research Grant Committee
- Department of Biological Sciences, University of Southern Mississippi:
 - 1996-2004: member of 16 graduate student committees (5 at The University of Louisiana at Lafayette)
 - 1998-2002: chair of 5 graduate student committees
 - 1998-1999: directed undergraduate Honors Thesis research
 - 1996 - 2000: Freshman Biology Program Committee
 - 1996: Departmental Seminar Series Committee
 - 1997-2000: Graduate Studies Committee
 - 1997-2000: Environmental Biology Committee
 - 1998: Five-Year Planning Committee

Service to U. S. Geological Survey:

- Served on a Research Grade Evaluation (RGE) Panel for Water Resources Division (WRD), Denver, CO (April 2001)
- Served on a Task Force that made recommendations to USGS research scientists affiliated with the Amphibian Research and Monitoring Initiative (ARMI) concerning strategies for conducting "stressors" research on amphibians (August-December 2001)
- Member of a review panel for competitive research proposals for the Amphibian Research and Monitoring Initiative (ARMI) (2002)
- Served on Research Grade Evaluation (RGE) Panels in 2007, 2011 and 2015

Service to Partner Agencies (U.S. Department of the Interior):

- Invited participant in National Park Service Scoping Meeting for the Chihuahuan Desert Parks Inventory and Monitoring Network (May 2001)
- Organized/presented tadpole identification workshop for USFWS (Louisiana and Mississippi refuge personnel), held at Lacassine National Wildlife Refuge (25 March 2003)
- Participated in the Biological Review for Catahoula National Wildlife Refuge (U.S. Fish & Wildlife Service), October, 2004
- Organized meeting of a Flatwoods Salamander Working Group at St. Marks National Wildlife Refuge, September, 2013

- Invited participant in multi-partner workshop on geographically isolated wetlands at the Joseph W. Jones Ecological Research Center in Newton, GA, November, 2013.
- Invited participant in two multi-partner USGS Powell Center workshops: “*Elucidating mechanisms underlying amphibian declines in North America using hierarchical spatial models*”, Fort Collins, CO, January and November 2014.
- Reviewed chapter on Amphibians and Reptiles for Great Smoky Mountains National Park’s Natural Resource Condition Assessment, June 2015.
- Organized and served as team coordinator of two structured decision making workshops for USFWS: (1) “*Adaptive Management for Population Supplementation of Imperiled Flatwoods Salamanders*”, Starkville, MS, August, 2014 and (2) “*Adaptive Habitat Conservation for Flatwoods Salamanders*”, National Conservation Training Center, Shepherdstown, WV, February 2015.
- Invited (by USFWS) member of the Flatwoods Salamander Recovery Team, 2015.

Other Service:

- Invited participant in the Georgia State Wildlife Action Plan Monitoring Team meeting, April, 2014
- Invited participant in multi-partner meeting on at-risk Frosted Flatwoods Salamander and Gopher Frog at Francis Marion National Forest, February, 2016.

OUTREACH

- Contributed to USGS Top Story: “Front Row Seats to Climate Change”, 17 May 2013.
- Interviewed on Disappearing Amphibians, WLRN National Public Radio/Miami Herald, 24 May 2013 and the Columbus Dispatch (Ohio), 7 June 2013.
- Interviewed about amphibian declines on the radio talk show “Gulf Coast Live!”, WGCU-FM, in Fort Myers, FL, NPR member station for Southwest Florida, Fort Myers, FL, 4 Sept. 2013 (<http://news.wgcu.org/post/amphibians-decline>)
- Interviewed for story in the Environmental Monitor, “Recorded tree frog calls could signal wetlands restoration progress in Everglades plan”. 14 August 2014. <http://www.fondriest.com/news/recorded-tree-frog-calls-signal-wetlands-restoration-progress-everglades-plan.htm>.

MEMBERSHIPS IN, AND SERVICE TO, PROFESSIONAL SOCIETIES

Current:

- **Society of Wetland Scientists**
- **Society of Conservation Biologists**
- **Ecological Society of America**
- **Society for the Study of Amphibians and Reptiles (SSAR)**

Committee Assignments

1994: Judge of student presentations at the annual meeting in Athens, GA.

1990, 1992, 1997, and 2001: chaired paper sessions at the annual joint meeting of ASIH, HL and SSAR

2014: Conservation Committee

Past:

- **American Society of Ichthyologists and Herpetologists (ASIH)**

Elective Offices Held

1999-2006: Member of the Editorial Board for *Copeia*

1997-2006: Member of the Board of Governors

Committee Assignments

2005-2006: ASIH History of the Society Committee

1997: Judge for the Stoye Award in General Herpetology at the annual meeting in Seattle, WA.

1996: Judge for the Stoye Award in Genetics, Development and Morphology at the annual meeting in New Orleans, LA.

- **Herpetologists' League (HL)**

Elective Offices Held

2003: Elected to the Executive Council, Class of 2007

Committee Assignments

2005-2008: Chair of the Herpetologists' League Nominating Committee

2002-2003: Associate Editor (Ethology) for *Herpetologica*

2002: Co-organizer of a symposium held at the annual meeting in Kansas City, MO.

- **Partners in Amphibian and Reptile Conservation (PARC)**

2006: Elected as Chair of the National Research Working Group

2009: member of the Steering Committee for Southeastern PARC

SCIENTIFIC JUDGEMENT RENDERED

- Reviewer of manuscripts for *American Midland Naturalist*; *Amphibia-Reptilia*; *Animal Behaviour*; *Animal Conservation*; *Applied Herpetology*; *Behavioral Ecology and Sociobiology*; *Biological Conservation*; *Canadian Journal of Zoology*; *Conservation Biology*; *Copeia*; *Diseases of Aquatic Organisms*; *Diversity and Distributions*; *Ecohealth*; *Ecology*; *Ecological Applications*; *Ecosphere*; *Environmental Conservation*; *Environmental Management*; *Ethology*; *Herpetologica*; *Herpetological Conservation and Biology*; *Herpetological Review*; *Hydrobiologia*; *Italian Journal of Zoology*; *Journal of Applied Ecology*; *Journal of Applied Meteorology and Climatology*; *Journal of Herpetology*; *Journal of the Arkansas Academy of Science*; *Journal of Wildlife Management*; *Journal of Zoology*; *Landscape Ecology*; *Oecologia*; ; *PLoS One*; *Southeastern Naturalist*; *Southwestern Naturalist*; *The Herpetological Journal*; *Wetlands*; and reviewed a book chapter manuscript for C.K. Dodd, Jr., for *Techniques in Ecology and Conservation*. Oxford University Press.
- Reviewer of proposals for the National Science Foundation, the National Geographic Society, the National Fish and Wildlife Federation, and Graduate Women in Science Fellowships.
- Reviewer of two books for *The Quarterly Review of Biology*: (1) *Cannibalism: Ecology and Evolution among Diverse Taxa*, by M. A. Elgar and B. J. Crespi (1993) and (2) *The Ecology and Behavior of Amphibians*, by K.D. Wells (2008).

