

# CURRICULUM VITAE

## Hugh G. Hanlin

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### EDUCATION

- 1980 Ph.D., Oregon State University. Major in Zoology (Vertebrate Natural History/Ecology), Minor in Plant Ecology/Statistics. Graduate Advisor: Robert M. Storm.
- 1975 M.S., Auburn University. Major in Zoology, Minor in Botany. Graduate Advisor: Robert H. Mount
- 1972 B.S., Auburn University. Major in Zoology.

### WORK EXPERIENCE

- 1996 - Present Professor of Biology, University of South Carolina Aiken
- 1995 - Present Adjunct Associate Professor, Department of Forestry and Natural Resources, Clemson University.
- 1986 - 1996 Associate Professor of Biology, University of South Carolina Aiken
- 1981 - 1986 Assistant Professor of Biology, University of South Carolina Aiken.
- 1980 - 1981 Visiting Assistant Professor of Biology, University of South Carolina Aiken.
- 1979 - 1980 Assistant Professor of Biology, Union College, Barbourville, Kentucky.
- 1978 (Summer) Instructor, Malheur Field Station, Malheur National Wildlife Refuge, Harney County, Oregon. Course Taught: Field Herpetology.
- 1975 - 1978 Graduate Teaching Assistant, Oregon State University.
- 1974 (Summer) Graduate Research Assistant, Auburn University. Director of Research: John D. Freeman. Research Conducted: A Vertebrate Survey of Horseshoe Bend National Military Park, Dadeville, Alabama.
- 1972 - 1975 Graduate Teaching Assistant, Auburn University.

### ADDITIONAL TRAINING/EXPERIENCE

- 1978 Experience in starch gel electrophoresis techniques. Training received in the laboratory of Fred Allendorf, Department of Zoology, University of Montana, Missoula.
- 1977 Assessment of species' habitat requirements and formulation of habitat suitability indices for reptiles and amphibians in the Puget Trough - Willamette Valley Region (Ecoregion 2410) of the Pacific Northwest. Contracted by the U. S. Fish and Wildlife Service, Division of Ecological Services, Project Impact Evaluation, Fort Collins, CO.
- 1997 Experience in amphibian karyological techniques. Training received from James Kezer, Department of Biology, University of Oregon, Eugene.

- 1974 Expedition to the Galapagos Islands, Ecuador. Instructed thirteen undergraduate and graduate students in island biogeographic phenomena and the fauna and flora of the islands.
- 1973 Expedition to the Galapagos Islands, Ecuador. Accompanied biologists from throughout the nation to study the fauna, flora, and geology of the islands.

## PUBLICATIONS

- 2007 Cromer, R. B., C. A. Gresham, M. Goddard, J. D. Lanham, and H. G. Hanlin. Associations between two bottomland hardwood forest shrew species and hurricane-generated woody debris. *Southeastern Naturalist* 6(2):235-246.
- 2004 Russell, K. R., T. B. Wigley, W. M. Baughman, H. G. Hanlin and W. M. Ford. Responses of Southeastern amphibians and reptiles to forest management: a review. *In* H. M. Rauscher and K. Johnsen (Ed.). *Southern Forest Science: Past, Present, and Future*. USDA Forest Service, Southern Research Station GTR SRS-75: 319-334
- 2003 Cromer, R. B., J. D. Lanham and H. G. Hanlin. Herpetofaunal response to gap and skidder-rut wetland creation in a southern bottomland hardwood forest. *In*: DeStefano, S. and R. G. Haight (ed.), Forest Wildlife – Habitat Relationships: Population and Community Responses to Forest Management. Society of American Foresters, Bethesda, MD. 288 pp.
- 2002 Russell, K. R., H. G. Hanlin, T. B. Wigley, and D.C. Guynn. Responses of isolated wetland herpetofauna to upland forest management. *Journal of Wildlife Management* 66(3): 603-617.
- Russell, K. R., D. C. Guynn, and H. G. Hanlin. Importance of isolated wetlands for herpetofaunal diversity in managed, young growth forests in the coastal plain of South Carolina. *Forest Ecology and Management* 163(3): 43-59.
- Cromer, R. B., J. D. Lanham, and H. G. Hanlin. Herpetofauna response to gap and skidder-rut wetland creation in a southern bottomland hardwood forest. *Forest Science* 48(2): 407-416.
- 2000 Hanlin, H. G., F. D. Martin, L. D. Wike, and S. H. Bennett. 2000. Terrestrial activity, abundance and species richness of amphibians in managed forests in South Carolina. *American Midland Naturalist* 143 (1): 70 - 83.
- Bowers, C. F., H. G. Hanlin, D. C. Guynn, Jr., J. P. McLendon, and J. R. Davis. 2000. Reptile and amphibian characterization of a thermally-impacted stream at the beginning of restoration. *Ecological Engineering* 15 (2000): S101- S114.
- Wike, L. D., F. D. Martin, H. G. Hanlin, and L. S. Paddock. 2000. Small mammal populations in a restored stream corridor. *Ecological Engineering* 15 (2000): S115- S120.
- 1999 Russell, K. R. and H. G. Hanlin. Aspects of the ecology of worm snakes (*Carphophis amoenus*) associated with small isolated wetlands in South Carolina. *Journal of Herpetology* 33(2): 339-344.
- 1998 Russell, K. R., H. G. Hanlin and J. W. Gibbons. *Ambystoma mabeei* (Mabee's salamander): breeding migration. *Herpetological Review* 29(1): 36.
- Russell, K. R., D. C. Guynn, Jr., and H. G. Hanlin. Herpetofaunal communities associated with small isolated wetlands in managed forests. *Proceedings of the 52<sup>nd</sup> Annual Southeastern Association of Fish and Wildlife Agencies Conference*, Orlando, FL.
- 1997 Gibbons, J. W., V. J. Burke, J. E. Lovich, R. D. Semlitsch, T. D. Tuberville, J. R. Bodie, J. L. Greene, P. H. Niewiarowski, H. H. Whiteman, D. E. Scott, J. H. K. Pechmann, C. R. Harrison, S.

- H. Bennett, J. D. Krenz, M. S. Mills, K. A. Buhlmann, J. R. Lee, R. A. Seigel, A. D. Tucker, T. M. Mills, T. Lamb, M. E. Dorcas, J. D. Congdon, M. H. Smith, D. H. Nelson, M. B. Dietsch, H. G. Hanlin, J. A. Ott and D. J. Karapatakis. 1977. Perceptions of species abundance, distribution, and diversity: lessons from four decades of sampling on a government-managed reserve. *Environmental Management* 21(2): 259-268.
- 1997 Russell, K. R., D. C. Guynn, Jr., and H. G. Hanlin. Herpetofaunal communities associated with small isolated wetlands in managed landscapes. *Proceedings of the 1997 National Council of the Paper Industry for Air and Stream Improvement Southern Regional Meeting*, Special Report No. 97-10:165.
- Baughman, W. M., J. D. Lanham, D. H. Van Lear, D. C. Guynn, Jr. and H. G. Hanlin. Response of herpetofauna to corridors in managed landscapes. *Proceedings of the 1997 National Council of the Paper Industry for Air and Stream Improvement Southern Regional Meeting*, Special Report No. 97-10:166.
- 1996 Hanlin, H. G., M. B. Dietsch, E. D. Jones and L. D. Wike. Effects of restoration on reptile and amphibian populations in a Carolina bay wetland. In: Flynn, K. (Ed.), *Proceedings of the Southern Forested Wetlands Ecology and Management Conference*, Clemson, SC: 18-22.
- McLendon, J. P., H. G. Hanlin and E. A. Nelson. Reptile and amphibian characterization of a thermally disturbed braided stream undergoing restoration near Aiken, SC. In: Webb, F. J., Jr. (Ed.), *Proceedings of the Twenty-third Annual Conference on Ecosystem Restoration and Creation*, Tampa, FL: 228-241.
- 1995 Hanlin, H., L. Wike, B. Dietsch and J.P. McLendon. Amphibian and reptile recolonization of Lost Lake, a restored Carolina bay. In: Landin, Mary C. (Ed.), *Proceeding of the National Interagency Workshop on Wetlands*, New Orleans, LA: 89-93.
- Ornes, H., H. Hanlin, P. Graves and J. Priest. Wetlands: Fertile areas for education. In: Landin, Mary C. (Ed.), *Proceedings of the National Interagency Workshop on Wetlands*, New Orleans, LA: 171-172.
- 1994 Hanlin, H., L. Wike, B. Dietsch and J.P. McLendon. Lost Lake - Restoration of a Carolina bay. In: Webb, F.J., Jr., (Ed.), *Proceedings of the Twenty-first Annual Conference on Wetland Restoration and Creation*, Tampa, FL: 49-60.
- 1992 Hanlin, H. Innovative practices in South Carolina: Science and Technology Enrichment Program. *Challenge* 2(4): 3.
- 1979 Hanlin, H., J. Beatty and S. Hanlin. A nest site of the western red-backed salamander, *Plethodon vehiculum* (Cooper). *Journal of Herpetology* 13 (2): 214-216.
- 1978 Hanlin, H., J. Freeman and J. Russell. Vertebrates of interest from Horseshoe Bend National Military Park. *Journal of the Alabama Academy of Science* 49 (4): 200-203.
- Hanlin, H. and R. Mount. Reproduction and activity of the greater siren, *Siren lacertina* (Amphibia: Sirenidae), in Alabama. *Journal of the Alabama Academy of Science* 49 (1): 31-39.
- Hanlin, H. Food habits of the greater siren, *Siren lacertina*, in an Alabama coastal plain pond. *Copeia* 1978 (2): 358-360.
- 1977 Hanlin, H. Geographic distribution: *Plethodon dunni*. *Herpetological Review* 8 (2): 38.

#### PAPERS/POSTERS PRESENTATED

- 2004 Hanlin, H. G. Influence of buffer zone management techniques on Carolina bay herpetofauna. Carolina Bay Restoration Workshop, Savannah River Site, January 28, 2004.

- Cromer, R.B., J.D. Lanham, H.G. Hanlin, and E.S. Kilpatrick. Salamander Response to Timber Harvesting in a Bottomland Hardwood Forest. Wildlife Society National Conference. Calgary, Canada. September 2004.
- Cromer, R.B., C.A. Gresham, H.G. Hanlin, J.D. Lanham, V. Shelburne, D. Van Lear. Impact of Hurricane Generated Debris on Forest Floor Vertebrates in Bottomland Hardwood Forests. First Annual Southeastern Ecology and Evolution Conference. Atlanta, GA. March 2004.
- Cromer, R.B., J.D. Lanham, H.G. Hanlin, and E.S. Kilpatrick. Salamander Response to Timber Harvesting in a Bottomland Hardwood Forest. South Carolina Chapter Meeting of the Wildlife Society. Columbia, S.C. February 2004
- 2003 Cromer, R.B., C.A. Gresham, H.G. Hanlin, J.D. Lanham, V. Shelburne, D. Van Lear. Influence of Hurricane Generated Debris on Forest Floor Vertebrates. South Carolina Chapter Meeting of the Wildlife Society. Columbia, S.C. July 2003.
- Cromer, R.B., J.D. Lanham, H.G. Hanlin, and E.S. Kilpatrick. Salamander Response to Timber Harvesting in a Bottomland Hardwood Forest. South Carolina Chapter Meeting of the Wildlife Society. Clemson, S.C. February 2003.
- 2002 Hanlin, H. G. Response of herpetofauna to Caroliana bay restoration: the effect of vegetation composition and structure of adjacent forests on herpetofaunal abundance and community structure. Carolina Bay Restoration Workshop, Savannah River Site, December 10, 2002.
- 2001 Lanham, J., B. Cromer, and H. Hanlin. Functional response of herpetofauna to gap and skidder rut wetland creation in a southern bottomland hardwood forest. Southern Forest Science Conference, Atlanta, GA, November.
- 2000 Martin, F. D., L. D. Wike, and H. G. Hanlin. Towards cost-effective monitoring of Southeastern herps: amphibia. Annual Meeting of the American Society of Ichthyologists and Herpetologists, La Paz, Mexico, July 11-15.
- Wike, L. D., F. D. Martin, and H. G. Hanlin. Towards cost-effective monitoring of Southeastern herps: reptilia. Annual Meeting of the American Society of Ichthyologists and Herpetologists, La Paz, Mexico, July 11-15.
- 1999 Cromer, R. B., J. D. Lanham, and H. G. Hanlin. The functional role of harvest-created ruts for amphibian populations in a southern bottomland hardwood forest. 5<sup>th</sup> Annual Conference of the Wildlife Society, Austin, TX, September 8 - 11.
- 1998 Hanlin, H., R. Crommer and D. Lanham. The functional role of harvest-created ruts for amphibian populations in a southern bottomland hardwood forest. Symposium on Forested Wetlands, USDA Forest Service Southeastern Forest Experiment Station, Center for Forested Wetlands Research, Charleston, SC. February 25-27.
- Russell, K. R., D. C. Guynn, Jr., and H. G. Hanlin. Herpetofaunal communities associated with small isolated wetlands in managed forests. 52<sup>nd</sup> Annual Southeastern Association of Fish and Wildlife Agencies Conference, Orlando, FL. October 3-7.
- 1997 Hanlin, H., R. Crommer and D. Lanham. The functional role of harvest-created ruts for amphibian populations within and between harvested gaps in a southern bottomland hardwood forest. Gap Site Symposium, Savannah River Forest Service Center, SRS, October 24.
- Martin, F. D., H. G. Hanlin and L. D. Wike. Amphibians associated with three differently managed southeastern forest types. Joint 1997 annual meeting of the American Society of Ichthyologists and Herpetologists, Society for the Study of Amphibians and Reptiles, and the Herpetologists' League, Seattle, WA, June 25-28.

- Russell, K. R., D. C. Guynn, Jr., H. G. Hanlin and J. W. Gibbons. Use of small isolated wetlands by amphibians and reptiles in South Carolina: communities prior to silvicultural treatment. The Wildlife Society 1997 Annual Conference. Snowmass, CO.
- Russell, K. R., D. C. Guynn, Jr., and H. G. Hanlin. Herpetofaunal communities associated with small isolated wetlands in managed landscapes. 1997 Southern Regional Meeting, National Council of the Paper Industry for Air and Stream Improvement, Ashville, NC, June 25.
- 1996 Dietsch, M. B. and H. G. Hanlin. Population structure and dynamics of the banded water snake, *Nerodia fasciata*, in a restored freshwater wetland. Joint annual meeting of the Herpetologists' League and the American Society of Ichthyologists and Herpetologists, New Orleans, LA. June 13-19.
- Fulmer, C. M., D. C. Guynn, Jr., J. R. Davis, H. G. Hanlin and J. P. McLendon. Reptile and amphibian characterization of Pen Branch at the beginning of restoration. Annual Conference of the Southeastern Fish and Wildlife Agencies, Charleston, SC. October 3-6.
- Fulmer, C. M., D. C. Guynn, Jr., J. R. Davis, H. G. Hanlin and J. P. McLendon. Reptile and amphibian characterization of Pen Branch at the beginning of restoration. Wildlife Society 1996 Annual Conference, Cincinnati, OH.
- Hanlin, H. G., M. B. Dietsch, E. D. Jones and L. D. Wike. Reptile and amphibian composition in a Carolina bay following restoration. Annual meeting of the Association of Southeastern Biologists, Statesboro, GA. April 10-13.
- 1996 Hanlin, H. G., M. B. Dietsch, E. D. Jones and L. D. Wike. Effects of restoration on reptile and amphibian populations in a Carolina bay wetland. Symposium on Southern Forested Wetlands Ecology and Management, Clemson University. March 26-27.
- 1996 Martin, F. D., M. B. Dietsch, H. G. Hanlin and L. D. Wike. Distribution and movements of *Nerodia fasciata* in a recently restored Carolina bay. Joint annual meeting of the Herpetologists' League and the American Society of Ichthyologists and Herpetologists, New Orleans, LA. June 13-19.
- McLendon, J.P., H. Hanlin, C. Fulmer and D. Guynn. Reptile and amphibian characterization of Pen Branch. Pen Branch Symposium, Savannah River Technology Center, SRS, February 13, 1996.
- McLendon, J. P., H. G. Hanlin and E. A. Nelson. Reptile and amphibian characterization of a thermally disturbed braided stream undergoing restoration near Aiken, SC. Conference on Ecosystem Restoration and Creation, Tampa, FL. May 16-17.
- Wike, L. D., H. G. Hanlin, M. B. Dietsch and J. P. McLendon. Amphibian and reptile recolonization of Lost Lake, a restored Carolina bay. Annual meeting of the Society for Ecological Restoration. August 14-16.
- 1995 Hanlin, H., L. Wike, M.B. Dietsch and J.P. McLendon. Amphibian and reptile recolonization of Lost Lake, a restored Carolina bay. National Interagency Workshop on Wetlands, New Orleans, LA, April 3-5.
- Ornes, H., H. Hanlin, P. Graves and J. Priest. Wetlands: Fertile areas for education. National Interagency Workshop on Wetlands, New Orleans, LA. April 3-5.
- 1994 Dietsch, M.B., H. Hanlin, J. P. McLendon and L. Wike. Reptile and amphibian recolonization of a restored Carolina bay. Fifteenth annual meeting of the Society of Wetland Scientists, Portland, OR, May 30 - June 3.
- Hanlin, J., L. Wike, M.B. Dietsch and J.P. McLendon. Lost Lake - restoration of a Carolina bay.

- Twenty- first Annual Conference on Wetland Restoration and Creation, Tampa, FL, May 19-20.
- 1992 Johnson, G. and H. Hanlin. S.T.E.P. Into the world of engineers. South Carolina Science Council Convention, Columbia, SC, November 5-6.
- 1990 Spooner, J. and H. Hanlin. Vascular anomalies in the domestic cat. Annual meeting of the South Carolina Academy of Science, April 13-17.
- 1981 Beatty, J. and H. Hanlin A comparison of interpopulation phenotypic differentiation in two northwestern plethodontid salamanders. Annual meeting of the Northwest Scientific Society, Portland, OR. June.
- 1975 Hanlin, H. Observations on the feeding and breeding of the greater siren, *Siren lacertina*, in Alabama. Annual meeting of the Alabama Academy of Science, Auburn, AL.

#### **WORKSHOPS PRESENTED**

- 1994 Hanlin, H. "Hands-on" Herpetology in Grades K-5. Environmental Activities Workshop, Aiken County Schools.
- 1986 Hanlin, H. Adaptation: Form and Function - Adaptations Between and Within Vertebrate Groups. Smithsonian National Associate Program Workshop, USC Aiken.
- Hanlin, H. Reptiles and Amphibians of South Carolina. South Carolina Academy of Science Fall Workshop, USC Aiken.

#### **OTHER PROFESSIONAL ACTIVITIES**

- 2005 Reviewer, *The Southeastern Naturalist*.
- 2002- Present Editorial Board, *The Journal of Environmental Monitoring and Restoration*.
- 2001 Grant Reviewer, National Fish and Wildlife Foundation.
- 1997 Grant Reviewer, National Fish and Wildlife Foundation.
- 1996 Reviewer, *Southern Journal of Applied Forestry*.
- 1995 Invited Keynote Address, South Carolina Middle/Elementary School Academy of Science, Newberry College, Newberry, SC, October 21. Subject: The Galapagos Islands.
- Grant Reviewer, National Fish and Wildlife Foundation.
- 1990 - 1995 Judge, South Carolina Science Olympiad, Newberry College. Competitions prepared and judged: Reptiles and Amphibians of South Carolina, Natural History: Tracks and Signs, Cell Biology.
- 1989 Fine Arts and Lecture Series, Newberry College. Topic: The Galapagos Islands - A Visit to Darwin's Enchanted Isles.
- 1988 Fine Arts and Lecture Series, Newberry College. Topic: Amphibians and Reptiles of South Carolina.
- 1985 - 1996 Science Director, USC Aiken Science and Technology Enrichment Program (USTEP).
- 1984 - Present Member, Board of Scientific Advisors, The Highlands Biological Station, Highlands, NC. An average of twelve grant proposals are reviewed per year.

1980 - Present Community service visits to local schools and youth groups (over 200 since 1980).  
Topic: Amphibians and Reptiles of South Carolina.

## GRANTS/CONTRACTS RECEIVED

- 2001 Long-term Monitoring of Reptiles and Amphibians at the Savannah River Site: Development of Sampling Protocols and Assessment of Predictive Models (co-PI with Craig R. Allen, Clemson University). USDA Forest Service. Period: February 1, 2001 - June 30, 2004. Amount: \$90,091.
- 2000 Response of Herpetofauna to Caroliana Bay Restoration: The Effect of Vegetation Composition and Structure of Adjacent Forests on Herpetofaunal Abundance and Community Structure. USDA Forest Service. Period: July 1, 2000 - September 30, 2006. Amount: \$73,268.
- 1996 Reptile and Amphibian Characterization of Pen Branch Corridor at the Beginning of Restoration. DOE/WSRC/SCUREF. Period: February 4, 1996 - September 30, 1996. Amount: \$69,993.96.
- The Functional Role of Harvest-created Ruts for Amphibian Populations Within and Between Harvested Gaps in a Southern Bottomland Hardwood Forest. USDA Forest Service. Period: September 1, 1996 - December 31, 1998. Amount: \$64,997.00.
- 1995 Reptile and Amphibian Recolonization of Lost Lake Wetlands. DOE/WSRC/SCUREF. Period: October 1, 1995 - September 30, 1996. Amount: \$29,978.15.
- University Science and Technology Enrichment Program (USTEP). WSRC/DOE. Period: October 1, 1995 - September 30, 1996. Amount: \$56,255.00.
- Reptile and Amphibian Recolonization of Lost Lake Wetlands. DOE/WSRC/SCUREF. Period: April 22, 1995 - September 30, 1995. Amount: \$19,999.19.
- 1994 Reptile and Amphibian Recolonization of Lost lake Wetlands Restoration. 1994. DOE/WSRC/SCUREF. Period: April 20, 1994 - April 19, 1995. Amount: \$55,757.42.
- Reptile and Amphibian Characterization of Pen Branch Corridor at the Beginning of Restoration. DOE/ WSRC/SCUREF. Period: August 8, 1994 - February 3, 1996. Amount: \$152,163.00
- University Science and Technology Enrichment Program (USTEP). WSRC/DOE. Period: October 1, 1994 - September 30, 1995. Amount: \$74,987.00.
- University Science and Technology Enrichment Program (USTEP) Undergraduate Assistant Stipends. WSRC/Aiken Partnership. Period: August 15, 1994 - May 15, 1995. Amount: \$22,500.00.
- 1993 Reptile and Amphibian Recolonization of Lost Lake Wetlands. DOE/WSRC/SCUREF. Period: April 20, 1993 - April 19, 1994. Amount: \$53,448.00.
- University Science and Technology Enrichment Program (USTEP). WSRC/DOE. Period: October 1, 1993 - September 30, 1994. Amount: \$71,454.00.
- University Science and Technology Enrichment Program (USTEP) Undergraduate Assistant Stipends. WSRC/Aiken Partnership. Period: August 15, 1993 - May 15, 1994. Amount: \$22,500.00.
- 1992 University Science and Technology Enrichment Program (USTEP). WSRC/DOE. Period: October 1, 1992 - September 30, 1993. Amount: \$72,789.00.
- University Science and Technology Enrichment Program (USTEP) Undergraduate Assistant Stipends. WSRC/Aiken Partnership. Period: August 15, 1992 - May 15, 1993. Amount: \$15,000.00.



## **ADDITIONAL COURSES TAUGHT**

Vertebrate Zoology I

Vertebrate Zoology II

Human Biology

Invertebrate Biology

Genetics

Histology

Parasitology

Field Natural History

General Zoology

Vertebrate Structure

Ornithology

Wetlands & Aquatic Ecology

Fundamentals of Biology

Fundamentals of Ecology

Land Vertebrates

Survey of the Plant Kingdom

Comparative Vertebrate Embryology