

## CURRICULUM VITAE - 2016

### Ken R. Marion

#### Education

A.B., Biology, Washington University, St. Louis, Missouri, 1966

Ph.D., Biology, Washington University, St. Louis, Missouri, 1970

#### Appointments

1970-71 Assistant Professor of Biology, University of Missouri, St. Louis  
1971 -74 Assistant Professor of Biology, University of Alabama at Birmingham  
1974-87 Associate Professor of Biology, University of Alabama at Birmingham  
1987-2011 Professor of Biology, University of Alabama at Birmingham  
2000-2008 Chair, Department of Biology, University of Alabama at Birmingham  
2011-- Emeritus Professor of Biology, University of Alabama at Birmingham

#### Other Professional Experience

1970—71 Ecological consultant for architectural firm, St. Louis, Missouri.  
1971 Summer. Taught Ecology, Washington University, St. Louis, Missouri.  
1972-present UAB Liaison Officer to Dauphin Island SeaLab  
1972 Summer. Taught Ecology, Washington University, St. Louis, Missouri.  
1972-76 Planning Council for Alabama Conservancy  
1975 Summer. Taught biological and ecological principles with Dr. Dan Jones to selected high school biology teachers of Birmingham area as part of NSF Summer Institute for Teachers awarded to Biology Department, University of Alabama at Birmingham.  
1975 Summer. Participant in Symposium on Endangered Plants and Animals of Alabama, sponsored by the Alabama Department of Conservation and Natural Resources. Evaluated status of reptiles and amphibians in Alabama.  
1976 Participated in Symposium on Innovations in College Teaching, Birmingham, Alabama.  
1976-78 Consultant to Birmingham Regional Planning Commission (BRPC). Part of NSF grant to UAB Environmental Assessment Program. Assisted BRPC staff and 208 Policy Committee in interpretation of water quality data supplied by 208 primary contractors. Lectures and interpretation of data given.  
1979 Ecological consultant on endangered species for road planning in Jefferson County. David Volkert and Associates, Inc.  
1982 Participant in Biomedical Sciences Program at UAB. Lectured to gifted minority high school students.

### **Other Professional Experience (Continued)**

- 1982 Performed ecological assessments for mining companies.
- 1983 Participant in Non-Game Wildlife Symposium, sponsored by the Alabama Department of Conservation and Natural Resources. Evaluated status of reptiles and amphibians in Alabama.
- 1984 Consultant to Alabama Coal Association. Performed field population survey of a potential threatened and endangered species.
- 1983-85 Wildlife Consultant for artwork; wrote natural history notes to accompany artwork. Southern Living Company.
- 1986 Biology Textbook Consultant. Norton and Company.
- 1986-89 Red Mountain Museum Board of Directors
- 1989 Ecological consultant on endangered species for road planning. Phillips and Jordan, Inc.
- 1989 Ecological consultant on radar station installation. SRI International.
- 1990 Biology Textbook Consultant. Saunders Publishing Company.
- 1990 Performed numerous endangered species and wetlands surveys for various companies. Many of these involve surveys for flattened musk turtle and red-cockaded woodpecker.
- 1991 Performed endangered species survey at several proposed landfills. Ground Water Engineering, Inc.; St. John and Associates, Inc.
- 1991 Performed biological assessment and endangered species survey for large docking site on Warrior River. Parker Towing Company.
- 1991 Ecological consultant on endangered species and habitat assessment for proposed Locust Fork Reservoir. Birmingham Water Works Board.
- 1991 Performed endangered species survey on Locust Fork River near Miller Steam Plant, Alabama Power Company.
- 1991-1997 Fisheries assessment on Alabama River below pulp mills. Barry Vittor and Associates, Inc.
- 1991-2001 Cahaba River Society Board of Directors
- 1992 Performed endangered species survey for proposed landfill. Ground Water Engineering, Inc.
- 1992 Fisheries diversity assessment on Alabama River. Barry Vittor and Associates, Inc.

### **Other Professional Experience (Continued)**

- 1992            Evaluated and summarized all previous water quality data for the Bear Creek Reservoirs. Recommendations for improvement made. Tennessee Valley Authority (TVA).
- 1992            Performed endangered species survey on Locust Fork River near Gorgas Steam Plant. Alabama Power Company.
- 1992            Performed a two-day biological survey for a mining company in Bibb County.
- 1992            Performed a one-day biological survey for an engineering company in Cullman County.
- 1992            Performed endangered species survey for Drummond Coal Company on Lost Creek in Walker County.
- 1993            Performed biological assessment for highway construction in Tuscaloosa County for Ground Water Engineering, Inc.
- 1993-1999      Forever Wild Board of Directors.
- 1994            Performed endangered species survey for City of Addison, Alabama.
- 1995            Performed endangered species survey for Shelby County, Alabama highways, Ground Water Engineering, Inc.
- 1995            Performed endangered species survey for Drummond Coal Company on Shoal Creek in Walker County.
- 1995-1998      Performed numerous endangered species and wetland surveys for Southern Natural Company.
- 1995-1998      Nature Conservancy of Alabama Board of Directors.
- 1996-1999      Alabama Zoological Society Board of Directors.
- 1997-present   Performed endangered species survey for several coal companies in Walker County, Alabama.
- 1998            Performed endangered species survey for Jefferson County, Alabama.
- 1998-present   Performed several endangered species surveys for construction firms and coal companies
- 2010            Evaluated Biology Department Program at Jacksonville State University
- 2012-2013      Performed bioassessments of creeks in Jefferson County for Jefferson County Health Department
- 2013            Served on Al Dept. of Conservation panel to evaluate status of wildlife species in Alabama.

## **Teaching Experience**

Have taught Ecology, Natural History of Vertebrates, Tropical Ecology (Bahamas), Rainforest Ecology (Costa Rica), Galapagos Ecology, Reproductive Physiology, Ecology Seminar, Environment and Population Pressures, Human Population and the Earth's Environment, and Introductory Biology.

## **Professional Societies**

Alabama Academy of Science  
Alabama Fisheries Association  
American Fisheries Society  
American Institute of Biological Sciences (AIBS)  
American Society of Ichthyologists and Herpetologists (ASIH) - former past president of Southeastern Division  
Association of Southeastern Biologists (ASB)  
Ecological Society of America  
Herpetologists<sup>1</sup> League  
Sigma Xi  
Society for the Study of Amphibians and Reptiles (SSAR)  
Southeastern Fishes Council

## **Offices Held in National or Regional Professional Societies**

Chairman – Board of Trustees – Academy of Science (2003-present) \_  
Board of Trustees - Alabama Academy of Science (1992-present)  
Chairman - Long-Range Planning Committee - Alabama Academy of Science (1995-2006)  
Chairman - Kennedy Student Award Committee - Society for the Study of Amphibians and Reptiles (SSAR) (1988-1998)  
Odum Award Committee - Southeastern Chapter of the Ecological Society of America (2000-2002)  
Steering Committee - Alabama Fisheries Association (AFA) (1995-1997)  
Chairman - Association of Southeastern Biologists (ASB) Nominating Committee (1996)  
Chairman - Association of Southeastern Biologists (ASB) Resolutions Committee (1995)  
President - Association of Southeastern Biologists (ASB) (1993-94)  
President - Alabama Fisheries Association (AFA) (1993-94)  
President - Alabama Academy of Science (1991-92)  
Vice-President - Alabama Academy of Science (1990-91)  
Executive Committee - Association of Southeastern Biologists (ASB) (1989-92)  
Chairman - Association of Southeastern Biologists (ASB) Student Research Award Committee (1989)  
Chairman - Biology Section of Alabama Academy of Science (1988-89)  
Board of Trustees - Alabama Academy of Science (1985-87)  
President - Southeastern Division of American Society of Ichthyologists and Herpetologists -SEASIH (1982-83)  
Vice-President - SEASIH (1981-82)  
Secretary-Treasurer - SEASIH (1980-81)

## **Academic Awards**

1. Provost's Award for Excellence in Academic Engagement and Global Citizenship-2013
2. Inducted as Fellow of the Alabama Academy of Science - 2008
3. UAB Odessa Woolfolk "Community Service Award" - 2005
4. Association of Southeastern Biologists (ASB) "Meritorious Teaching Award" - 1999
5. UAB School of Natural Sciences and Mathematics "Most Outstanding Faculty Award" - 1985-86
6. UAB AED Premedical Society Chapter - "Most Distinguished Professor Award" - 1980

## Scientific Publications

1. Marion, K. 1970. Temperature as the reproductive cue for the female fence lizard, *Sceloporus undulatus*. *Copeia* 1970(3):562-564.
2. Ballinger, R.E., K.R. Marion and O.J. Sexton. 1970. Thermal ecology of the lizard, *Anolis limifrons*, with comparative notes on three additional Panamanian anoles. *Ecology* 51(2):246-254.
3. Marion, K. and O.J. Sexton. 1971. The reproductive cycle of the lizard *Sceloporus malachiticus* in Costa Rica. *Copeia* 1971(3):517—526.
4. Marion, K. 1973. Human life table and survivorship curves: a laboratory study. In C.T. Lange and P.E. Klinger (eds.), *Pollution. Publication of National Association of Biology Teachers (NABT)*. pp. 121-124.
5. Marion, K. and C. Lange. 1973. Population study of the laboratory mouse. In C.T. Lange and P.E. Klinger (eds.), *Pollution. Publication of National Association of Biology Teachers (NABT)*. pp. 125-129.
6. Sexton, O.J. and K.R. Marion. 1974. Duration of incubation of *Sceloporus undulatus* eggs at constant temperature. *Journal of Physiological Zoology* 47(2):91-98.
7. Sexton, O.J. and K.R. Marion. 1974. Probable predation by Swainson's hawk on swimming spadefoot toads. *Wilson Bulletin* 86(2): 167-168.
8. Crispens, C.G., Jr. and K.R. Marion. 1975. Algal infection in a corn snake (*Elaphe guttata guttata*). *Laboratory Animal Science* 25(6):788-789.
9. Cox, W.A. and K.R. Marion. 1978. Observations on the female reproductive cycle and associated phenomena in spring-dwelling populations of *Sternotherus minor* in north Florida (Reptilia: Chelonia). *Herpetologica* 34(1):20-33.
10. Marion, K.R., J.R. Bizer and O.J. Sexton. 1979. A between-clutch comparison of hatching weights in the lizard, *Sceloporus undulatus*. *Herpetologica* 35(2): 111-114.
11. Marion, K.R. and J.J. Dindo. 1980. A distribution record of *Phrynosoma cornutum*. *Herpetologica! Review* 11(1): 14.
12. Marion, K.R. and M.C. Nowak. 1980. One-egg twins in a snake, *Elaphe guttata guttata*. *Trans. Kansas Academy of Science* 83(2):98-100.
13. Marion, K.R. and O.J. Sexton. 1980. Protective behavior by male pronghorn *Antilocapra americana* (Artiodactyla). *The Southwestern Naturalist* 24(4):709-710.
14. Cox, W.A., M.C. Nowak and K.R. Marion. 1980. Observations on courtship and mating behavior in the musk turtle, *Sternotherus minor*. *Journal of Herpetology* 14(2):200-204.
15. Crispens, C.G., Jr. and K.R. Marion. 1981. Granulomas in reptiles: a report of four cases. *The Journal of the Alabama Academy of Science* 52(2):48-52.
16. McPherson, R.J. and K.R. Marion. 1981. Seasonal testicular cycle of the stinkpot turtle (*Sternotherus odoratus*) in central Alabama. *Herpetologica* 37(1):33-40.

### Scientific Publications (Continued)

17. McPherson, R.J. and K.R. Marion. 1981. The reproductive biology of female *Sternotherus odoratus* in an Alabama population. *Journal of Herpetology* 15(4):389-396.
18. Sexton, O.J. and K.R. Marion. 1981. Experimental analysis of movements by prairie rattlesnakes, *Crotalus viridis*, during hibernation. *Oecologia* 51:37-41.
19. McPherson, R.J. and K.R. Marion. 1982. Seasonal changes of total lipids in the turtle *Sternotherus odoratus*. *Comparative Biochemistry and Physiology* 71A:93-98.
20. Marion, K.R. 1982. Reproductive cues for gonadal development in temperate reptiles: temperature and photoperiod effects on the testicular cycle of the lizard, *Sceloporus undulatus*. In Symposium on Reproductive Biology of Reptiles. *Herpetologica* 38:26-39.
21. Marion, K.R. and G. Bosworth. 1982. A distribution record of the Mediterranean gecko (*Hemidactylus turcicus*). *Herpetological Review* 13(2):52.
22. McPherson, R.J., L.R. Boots, R. MacGregor, III and K.R. Marion. 1982. Plasma steroids associated with seasonal reproductive changes in a multiclutched freshwater turtle, *Sternotherus odoratus*. *General and Comparative Endocrinology* 48:440-451.
23. Marion, K.R. and G. Chandler. 1983. Report on an albino deKay's snake, *Storeria deKayi wrightorum*. *Herpetological Review* 14(2):47.
24. McPherson, R.J. and K.R. Marion. 1983. Reproductive variation between two populations of *Sternotherus odoratus* in the same geographic area. *Journal of Herpetology* 17(2): 181-184.
25. Settine, R.L., S.A. Barker and K.R. Marion. 1983. Bivalves as indicators of environmental pollution: a pilot study of oysters (*Crassostrea virginica*) in Mobile Bay. Pp. 15-23. In S.V. Shabica, N.B. Cofer and E.W. Cake, Jr. (eds.), Proceedings of the Northern Gulf of Mexico Estuaries and Barrier Islands Research Conference. U.S. Dept. Int. Natl. Park Serv. SE Reg. Off, Atlanta, Georgia. 191 pp.
26. Marion, K.R. and O.J. Sexton. 1984. Body temperatures and behavioral activities of hibernating prairie rattlesnakes, *Crotalus viridis*, in artificial dens. *Prairie Naturalist* 16(3):111-116.
27. Marion, K.R., C.H. Ernst and W.A. Cox. 1984. A xanthic flattened musk turtle, *Sternotherus depressus*. *Herpetological Review* 15(2):51.
28. Marion, K.R. and M.C. Nowak. 1985. A size record for the southern ringneck snake (*Diadophis punctatus punctatus*). *Herpetological Review* 16(4): 111.
29. McKinney, R.B. and K.R. Marion. 1985. Plasma androgens and their association with the reproductive cycle of the male fence lizard, *Sceloporus undulatus*. *Comparative Biochemistry and Physiology* 82A(3):515-519.
30. McKinney, R.B. and K.R. Marion. 1985. Reproductive and fat body cycles in the male lizard, *Sceloporus undulatus*, from Alabama, with comparisons of geographic variation. *Journal of Herpetology* 19(2):208-217.

### **Scientific Publications (Continued)**

31. Marion, K.R. 1986. Gulf Salt Marsh Snake, *Nerodiafasciata clarkii*; status assessment. Pages 47-48 In R.H. Mount (ed.), *Vertebrate Animals of Alabama in Need of Special Attention*. Alabama Agricultural Experiment Station, Auburn University. 124 pp.
32. Marion, K.R. 1986. Alabama Map Turtle, *Graptemys pulchra*; status assessment. Pages 50-52 In R.H. Mount (ed.), *Vertebrate Animals of Alabama in Need of Special Attention*. Alabama Agricultural Experiment Station, Auburn University. 124 pp.
33. Marion, K.R. 1986. Mississippi Diamondback Terrapin, *Malaclemys terrapin pileata*; status assessment. Pages 52-53 In R.H. Mount (ed.), *Vertebrate Animals of Alabama in Need of Special Attention*. Alabama Agricultural Experiment Station, Auburn University. 124 pp.
34. Greeley, M.S., Jr., K.R. Marion and R. MacGregor, III. 1986. Semilunar spawning cycles of *Fundulus similis* (Cyprinodontidae). *Environmental Biology of Fishes* 17(2):125-131.
35. Dindo, John J. and K.R. Marion. 1986. A successful nesting of the reddish egret (*Dichromanassa rufescens*) on Cat Island, Alabama. *Alabama Birdlife* 33(1,2): 17-18.
36. Jovanovich, M.C. and K.R. Marion. 1987. Seasonal variation in uptake and depuration of anthracene by the brackish water clam *Rangia cuneata*. *Marine Biology* 95:395-403.
37. Marion, K.R., S.A. Barker and R.L. Settine. 1987. Organic Pollutant Levels in Bivalves of Mobile Bay. Pages 154-164 In T.A. Lowery (ed.), *Symposium on the Natural Resources of the Mobile Estuary*. MASGP-87-007. Alabama Sea Grant Extension Service, Mobile, Alabama. 208 pp.
38. Dindo, J. J., D. Holliman and K.R. Marion. 1987. An evaluation of colonial nesting habitats; Cat Island, Little Dauphin Island, and surrounding areas. Pages 67-72 In T.A. Lowery (ed.), *Symposium on the Natural Resources of the Mobile Estuary*. MASGP-87-007. Alabama Sea Grant Extension Service, Mobile, Alabama. 208 pp.
39. Dindo, John J. and K.R. Marion. 1987. Little Dauphin Island: a new nesting sanctuary. *Alabama Birdlife* 34(1):4-5.
40. Greeley, M.S., Jr., R. MacGregor III and K.R. Marion. 1988. Changes in the ovary of the Gulf killifish, *Fundulus grandis* (Baird and Girard), during seasonal and semilunar spawning cycles. *Journal of Fish Biology* 33:97-107.
41. Greeley, M.S., Jr., R. MacGregor, III and K.R. Marion. 1988. Variation in plasma oestrogens and androgens during the seasonal and semilunar spawning cycles of female Gulf killifish, *Fundulus grandis* (Baird and Girard). *Journal of Fish Biology* 33:419-429.
42. Cox, W.A., S.T. Wyatt, W.E. Wilhelm and K.R. Marion. 1988. Infection of the turtle, *Sternotherus minor*, by the lung fluke, *Heronimus mollis*: incidence of infection and correlations to host life history and ecology in a north Florida spring. *Journal of Herpetology* 22(4):488-490.

### Scientific Publications (Continued)

43. Ernst, C.H., J.L. Miller, K.R. Marion and W.A. Cox. 1988. Comparisons of shell morphology among turtles of the *Kinosternon minor* complex. *American Midland Naturalist* 120(2):282-288.
44. Jovanovich, M.C. and K.R. Marion. 1989. The gametogenic cycle of *Rangia cuneata* (Mactridae, Mollusca) in Mobile Bay, Alabama, with comments on geographic variation. *Bulletin of Marine Science* 45(1):130—138.
45. Ernst, C.H., W.A. Cox and K.R. Marion. 1989. The distribution and status of the flattened musk turtle, *Sternotherus depressus* (Testudines: Kinosternidae). *Tulane Studies in Zoology and Botany* 27(1): 1-20.
46. Dindo, J.J. and K.R. Marion. 1989. The 1989 breeding season on the Alabama Gulf Coast. *Alabama Birdlife* 36(2):7-9.
47. Angus, R.A. and K.R. Marion. 1990. A roving creel survey of anglers using Guntersville Reservoir, Alabama: geographic origins, seasonal patterns of fishing effort and success, and contributions to the local economy. *Journal of the Alabama Academy of Science* 61(1):18-28.
48. McClintock, J.B., T. Hopkins, S. Watts and K.R. Marion. 1990. The biochemical and energetic composition of somatic body components of echinoderms from the northern Gulf of Mexico. *Comparative Biochemistry and Physiology* 95A:529-532.
49. McClintock, J.B., T.S. Klinger, K.R. Marion and P. Hsueh. 1991. Digestive carbohydrates of the blue crab *Callinectes sapidus*: Implications in utilization of plant-derived detritus as a trophic resource. *Journal of Experimental Marine Biology and Ecology* 148:233-239.
50. Cox, W.A., J.B. Hazelrigg, M.E. Turner, R.A. Angus and K.R. Marion. 1991. A model for growth in the musk turtle, *Sternotherus minor*, in a north Florida spring. *Copeia* 1991(4):954-968.
51. Marion, K.R., W.A. Cox and C.H. Ernst. 1991. Prey of the flattened musk turtle, *Sternotherus depressus*. *Journal of Herpetology* 25(3):385-387.
52. McClintock, J.B., T.S. Hopkins, S.A. Watts, K.R. Marion and G. Schinner. 1991. Variation in reproductive patterns in echinoderms from the northern Gulf of Mexico. pp. 452-456 *In* Proceedings of the Eleventh Annual Gulf of Mexico Information Transfer Meeting, November, 1990. U.S. Department of the Interior, Mineral Management Service, New Orleans, Louisiana.
53. Hopkins, T.S., J.F. Valentine, J.B. McClintock, K.R. Marion and S.A. Watts. 1991. Echinoderms associated with a rhodolith community on the Alabama OCS: Management considerations for a unique environmental setting, pp. 443-448 *In* Proceedings of the Eleventh Annual Gulf of Mexico Information Transfer Meeting, November, 1990. U.S. Department of the Interior, Mineral Management Service, New Orleans, Louisiana.

## **Scientific Publications (Continued)**

54. Hopkins, T.S., M.W. Cornett, J.B. McClintock, K.R. Marion and S.A. Watts. 1991. Secondary production: Differential arm loss in two sympatric species of sand stars. pp. 448-452 *In* Proceedings of the Eleventh Annual Gulf of Mexico Information Transfer Meeting, November, 1990. U.S. Department of the Interior, Mineral Management Service, New Orleans, Louisiana.
55. Hopkins, T.S., J.F. Valentine, J.B. McClintock, K. Marion and S.A. Watts. 1991. Community patterns of echinoderms associated with substrate and depth in the northern Gulf of Mexico. *In* T. Yanagisawa, I. Yosumasu, C. Ogura, N. Suzuki, and T. Motokawa (eds.), *Biology of Echinodermata* pp. 231-239. Balkema Press, Rotterdam.
56. Ranglack, G., R. Angus and K. Marion. 1991. Physical and temporal factors influencing breeding success of cattle egrets (*Bubulcus ibis*) in a West Alabama Colony. *Colonial Waterbirds* 14(2): 140-149.
57. McClintock, J.B., T.S. Hopkins, K. Marion, S. Watts and G. Schinner. 1993. Population structure, growth and reproductive biology of the gorgonocephalid brittlestar *Asteropora annulata*. *Bulletin of Marine Science* 52(3):925-936.
58. McClintock, J.B., K.R. Marion, J. Dindo, P. Hsueh and R.A. Angus. 1993. Population studies of blue crabs in soft bottom unvegetated habitats of a subestuary in the northern Gulf of Mexico. *Journal of Crustacean Biology* 13:551-563.
59. Vernon, J., J.B. McClintock, T.S. Hopkins, S.A. Watts and K. Marion. 1993. Reproduction of *Clypeaster ravenellii* (Echinodermata: Echinoidea) in the northern Gulf of Mexico. *Invertebrate Reproduction and Development* 24:71-78.
60. McClintock, J.B. and K.R. Marion. 1993. Predation by the King Helmet (*Cassia tuberosa*) on Six-Holed Sand Dollars (*Leodia sexiesperforata*) at San Salvador, Bahamas. *Bulletin of Marine Science* 52:1013-1017.
61. McClintock, J.B., J.D. Vernon, S.A. Watts, K.R. Marion and T.S. Hopkins. 1994. Size frequency, recruitment and adult growth in the sea biscuit *Clypeaster ravenellii* in the northern Gulf of Mexico. Pages 777-782. *In* B. David, A. Guille, J.P. Feral and M. Roux (eds.), *Echinoderms Through Time* (Proceedings of the Eighth International Echinoderm Conference, Dijon, France), Balkema Press, Rotterdam, Netherlands.
62. Hopkins, T.S., S.A. Watts, J.B. McClintock and K.R. Marion. 1994. Contrasting size, sublethal arm loss and arm regeneration in two populations of *Astropecten articulatus* (Say) in the northern Gulf of Mexico. Pages 311-316. *In* B. David, A. Guille, J.P. Feral and M. Roux (eds.), *Echinoderms Through Time* (Proceedings of the Eighth International Echinoderm Conference, Dijon, France), Balkema Press, Rotterdam, Netherlands.
63. Bryan, P.J., J.B. McClintock, S.A. Watts, K.R. Marion and T.S. Hopkins. 1994. Antimicrobial activity of ethanolic body wall extracts in echinoderms from the northern Gulf of Mexico. Pages 17-24. *In* B. David, A. Guille, J.P. Feral and M. Roux (eds.), *Echinoderms Through Time* (Proceedings of the Eighth International Echinoderm Conference, Dijon, France), Balkema Press, Rotterdam, Netherlands.

## Scientific Publications (Continued)

64. Watts, S.A., G.A. Hines, C. Byrum, J.B. McClintock, K.R. Marion and T.S. Hopkins. 1994. Tissue- and species-specific variations in androgen metabolism. Pages 155-164. In B. David, A. Guille, J.P. Feral and M. Roux (eds.), *Echinoderms Through Time* (Proceedings of the Eighth International Echinoderm Conference, Dijon, France), Balkema Press, Rotterdam, Netherlands.
65. McClintock, J.B., S.A. Watts, K.R. Marion, and T.S. Hopkins. 1995. Gonadal cycle, gametogenesis and energy allocation in two sympatric mid-shelf sea stars with contrasting modes of reproduction. *Bulletin of Marine Science* 57(2):442-452.
66. Marion, K.R., S.A. Watts, J.B. McClintock, G. Schinner and T.S. Hopkins. 1998. Seasonal gonad maturation in the seastar *Astropecten articulatus* from the northern Gulf of Mexico. Pages 279-284. In R. Mooi and M. Telford (eds.), *Echinoderms: San Francisco*. Proceedings of the Ninth International Echinoderm Conference, San Francisco. Balkema Press, Rotterdam, Netherlands.
67. Onorato, D., R.A. Angus and K.R. Marion. 1998. Comparison of a small-mesh seine and a backpack electroshocker for evaluating fish populations in a north-central Alabama stream. *North American Journal of Fisheries Management* 18:361-373.
68. Onorato, D., R.A. Angus and K.R. Marion. 1998. Longitudinal variations in the ichthyofaunal assemblages of the upper Cahaba River: possible effects of urbanization in a watershed. *Journal of Freshwater Ecology* 13(2): 139-154.
69. Onorato, D., R.A. Angus and K.R. Marion. 2000. Historical changes in the ichthyological assemblages of the upper Cahaba River in Alabama associated with extensive urban development in the watershed. *The Journal of Freshwater Ecology* 15(1):47-63.
70. Wibbels, T., K. Marion, D. Nelson, J. Dindo and A. Geis. 2002. Evaluation of the bay systems of Alabama as potential foraging habitat for juvenile sea turtles. *Proceedings of the 21<sup>st</sup> International Sea Turtle Symposium*. NOAA Tech. Pubs. NMFS-SEFSC. Pages 275-276.
71. Owens, J., R. Angus, M. Lalor, E. Meyer and K. Marion. 2002. Utilization of GIS technologies in a sedimentation potential index. In Lesnik, J.R. (ed.), *American Water Resources Association 2002 Spring Speciality Conference Proceedings*. TPS-02-01. Pages. 55-60.
72. Blackwell, E.A., R.A. Angus, G.C. Cline and K.R. Marion. 2003. Natural growth rates *Ambystoma maculatum* in Alabama. *The Journal of Herpetology* 37:608-612
73. Locations and movements of juvenile sea turtles in the bay systems and coastal waters of Alabama. *Proceedings of the 22<sup>nd</sup> Annual Symposium on Sea Turtle Biology and Conservation*, Miami, Florida, April 3-7, 2002. NOAA Technical Memorandum, NMFS-SEFSC Wibbels, T., K. Marion, A. Geis, J. Estes, C. Murdock, D. Nelson and J. Askew. 2004., 503:242-243.
74. Blackwell, E.A., G.C. Cline and K.R. Marion. 2004. Annual variation in population estimators for a southern population of *Ambystoma maculatum*. *Herpetologica* 60(3):304-311.

## **Scientific Publications (Continued)**

75. Marion, K. And M. Bailey. 2004. Flattened Musk Turtle (Status). Pages 80-81. *In* R. Mirarchi, M. Bailey, T. Haggerty and T. Best (eds.), *Alabama Wildlife. Volume 3. Imperiled Amphibians, Reptiles, Birds and Mammals*, University of Alabama Press, Tuscaloosa. 225 pp.
76. Marion, K. 2004. Prairie King Snake (Status). Pages 63-64. *In* R. Mirarchi, M. Bailey, T. Haggerty and T. Best (eds.), *Alabama Wildlife, Volume 3, Imperiled Amphibians, Reptiles, Birds and Mammals*, University of Alabama Press, Tuscaloosa. 225 pp.
77. Nelson, D. and K. Marion, 2004. Mississippi Diamondback Terrapin (Status). Pages 52-53. *In* R. Mirachi, M. Bailey, T. Haggerty and T. Best (eds.), *Alabama Wildlife, Volume 3, Imperiled Amphibians, Reptiles, Birds and Mammals*, University of Alabama Press, Tuscaloosa 225 pp.
78. Marion, K. and M. Bailey, 2004. Flattened Musk Turtle (Conservation and Management Recommendations). Page 172. *In* R. Mirachi, M. Bailey, J. Garner, T. Haggerty, T. Best, M. Mettee and P. O'Neil (eds.). *Alabama Wildlife, Volume 4. Conservation and Management Recommendations for Imperiled Wildlife*. University of Alabama Press, Tuscaloosa. 221 pp.
79. Marion, K. 2004. Prairie King Snake (Conservation and Management Recommendations). Pages 165-166. *In* R. Mirarchi, M. Bailey, J. Garner, T. Haggerty, T. Best, M. Mettee and P. O'Neil (eds.), *Alabama Wildlife. Volume 4. Conservation and Management Recommendations for Imperiled Wildlife*. University of Alabama Press, Tuscaloosa. 221 pp.
80. Nelson, D. And K. Marion. 2004. Mississippi Diamondback Terrapin (Conservation and Management Recommendations). Pages 161-162. *In* R. Mirarchi, M. Bailey, J. Garner, T. Haggerty, T. Best, M. Mettee and P. O'Neil (eds.). *Alabama Wildlife. Volume 4. Conservation and Management Recommendations for Imperiled Wildlife*. University of Alabama Press, Tuscaloosa. 221 pp.
81. Wibbels, T., K. Marion, a. Geis and D. Nelson. 2005. Capture of juvenile sea turtles in the bay systems of Alabama. *Proceedings of the 21<sup>st</sup> International Sea Turtle Symposium*. NOAA Technical Publications NMFS-SEFSC 528:354-355.
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### **Paper Presentations at Professional Meetings Without Published Abstracts**

1. Marion, K. and R. Angus. "Fishery studies on Guntersville Reservoir." Presented at Alabama Fisheries Association Meeting, Auburn, February, 1989.
2. Angus, R. and K. Marion. "Angler surveys on Guntersville Reservoir." Presented at Alabama Fisheries Association Meeting, Guntersville, February, 1990.
3. Marion, K., R. Angus and J. McClintock. "The status of the fishery and biological conditions of Upper Bear Creek: A mine-impacted reservoir." Presented at Alabama Fisheries Association Meeting, Gulf Shores, February, 1991.
4. Bryan, P.J., J.B. McClintock, S.A. Watts, K.R. Marion and T.S. Hopkins. "Antimicrobial activity of echinoderm body wall extracts from the northern Gulf of Mexico." Presented at Eighth International Echinoderm Conference, Dijon, France, September, 1993.
5. Hopkins, T.S., S.A. Watts, J.B. McClintock, G.O. Schinner, and K. Marion. "Autecological observations on *Astropecten articulatus*, coastal Alabama, northern Gulf of Mexico." Presented at Eighth International Echinoderm Conference, Dijon, France, September, 1993.
6. Hines, G.A., S.A. Watts, J.B. McClintock, K.R. Marion and T.S. Hopkins. "Estrogen biosynthesis and metabolism in somatic and gametic tissues of echinoderms." Presented at Eighth International Echinoderm Conference, Dijon, France, September, 1993.
7. Schinner, G.O., J.B. McClintock, S.A. Watts, T.S. Hopkins, and K. Marion. "Juvenile-carrying behavior in the deep-water brittle star *Asteropora annulata*" Presented at the 28 European Marine Biology Symposium, Hersonissos, Crete, Greece, September, 1993.

### **Paper Presentations at Professional Meetings Without Published Abstracts (Continued)**

8. McClintock, J.B., J.D. Vernon, S.A. Watts, K.R. Marion and T.S. Hopkins. "Size frequency, recruitment and adult growth in the sea biscuit *Clypeaster ravenellii* in the northern Gulf of Mexico." Presented at the Eighth International Echinoderm Conference, Dijon, France, September, 1993.
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11. Angus, R. and K. Marion. "Water quality and status of the fishery in Upper Bear Creek Reservoir, a mine-impacted reservoir." Presented at Alabama Fisheries Association Meeting, Gulf Shores, February, 1994.
12. Marion, K., J. McClintock, J. Dindo and R. Angus. "Population studies of blue crabs in Weeks Bay." Presented at Alabama Fisheries Association Meeting, Birmingham, February, 1995.
13. Onorato, D., R.A. Angus and K.R. Marion. "Sampling Stream Fishes: Seining vs. Electrofishing." Presented at Alabama Fisheries Association Meeting, Gulf Shores, February, 1996.
14. Moore, D.S., K.R. Marion and F.S. Michael. "Use of mtDNA sequence and analysis for determination of evolutionary distances in Cricket Frogs (Anura: Hylidae)." Presented at Association of Ichthyologists and Herpetologists (ASIH) Meeting, New Orleans, Louisiana, 1996.
15. Moore, D.S., K.R. Marion and S.F. Michael. "Phylogenetics of the genus *Acris* (Anura: Hylidae) from sequence analyses of the cytochrome B gene." Presented at Society for the Study of Evolution Meeting, St. Louis, Missouri, June, 1996.
16. Moore, D.S., K.R. Marion, S.F. Michael and J.W. Gibbons. "Detection of a cryptic species: Range extension of *Acris crepitans* into Upper Coastal Plain South Carolina." Presented at Society for the Study of Amphibians and Reptiles (SSAR) Meeting, Lawrence, Kansas, July, 1996.
17. Moore, D.S., K.R. Marion and S.F. Michael. "The phylogenetics of the genus *Acris* (Anura: Hylidae) determined by cytochrome b sequences." Presented at the Association of Ichthyologists and Herpetologists (ASIH) Meeting, Seattle, Washington, June, 1997.
18. Onorato, D., K. Marion and R. Angus. "Longitudinal variation in the ichthyofaunal assemblages of the upper Cahaba River." Presented at the Alabama Fisheries Association (AFA) Meeting, Gulf Shores, February, 1998.
19. Lindsey, K., R. Angus and K. Marion. "A bioassessment of the upper Cahaba River using benthic macroinvertebrate populations." Presented at the Alabama Fisheries Association (AFA) Meeting, Gulf Shores, February, 1998.

### **Paper Presentations at Professional Meetings Without Published Abstracts (Continued)**

20. Wibbels, T., K. Marion, D. Nelson, J. Dindo and A. Geis. "Evaluation of the bay systems of Alabama as potential foraging habitat for juvenile sea turtles." Poster presented at 20<sup>th</sup> International Sea Turtle Symposium, Orlando, Florida, February, 2000.
21. Angus, K. Marion and M. Lalor. "An evaluation of the effectiveness of current BMPs in controlling stormwater discharges from small construction sites and developing metrics to assess the effects of discharge on stream communities." Presented at the Annual Alabama Water Resources Conference and Symposium, Gulf Shores, September, 2000.
22. Angus, R., K. Marion and M. Lalor. "The effectiveness of silt fences in controlling stormwater discharge from small construction sites and the effects of siltation on stream communities." Presented at the Alabama Fisheries Association Meeting, Eufaula, February, 2001.
23. Wibbels, T., K. Marion, A. Geis and D. Nelson. "Capture of juvenile sea turtles in the bay systems of Alabama." Poster presented at the 21<sup>st</sup> International Sea Turtle Symposium, Philadelphia, Pennsylvania, February, 2001.
24. Owens, J., L. Lokey, K. Marion, R. Angus and M. Lalor. "The effectiveness of sedimentation fences in the valley and ridge physiographic region." Presented at the 78<sup>th</sup> Annual Meeting of the Alabama Academy of Science, Auburn, March, 2001.
25. Blackwell, E., G. Cline, R. Angus and K. Marion. "Population dynamics for two populations of *Ambystoma maculatum*" Presented at annual meeting of the Herpetologists' League Kansas City, Missouri, July, 2001.
26. Angus, R., M. Lalor, J. Owens, J. Harper and K. Marion. "An evaluation of the effectiveness of silt fences in controlling stormwater discharges from small construction sites and the effects of siltation on aquatic communities." Presented at the Annual Alabama Water Resources Conference and Symposium, Gulf Shores, September, 2001.
27. Owens, J., R. Angus, M. Lalor, S. McKinney, E. Meyer and K. Marion. "An evaluation of sediment-sensitive biotic indices as biomonitoring tools in watershed management." Presented at the Annual Alabama Water Resources Conference and Symposium, Gulf Shores, September, 2001.
28. Owens, J., R. Angus, M. Lalor, S. McKinney, E. Meyer and K. Marion. "Characterizing a watershed sediment erosion potential using GIS technology." Poster presented at Alabama Academy of Science Meeting, Livingston, March, 2002.
29. Honavar J., R. Angus and K. Marion. "Siltation effects on fish communities in the Cahaba watershed." Presented at Alabama Academy of Science Meeting, Livingston, March, 2002.
30. Blackwell, E.A., G.C. Cline, R.A. Angus and K. Marion. "Population dynamics for two populations of *Ambystoma maculatum*" Presented at Alabama Academy of Science Meeting, Livingston, March, 2002.

### **Paper Presentations at Professional Meetings Without Published Abstracts (Continued)**

31. Wibbels, T., K. Marion, A. Geis, J. Estes, C. Murdock, D. Nelson and J. Askew. "Locations and movements of juvenile sea turtles in the bay systems and coastal waters of Alabama." Poster presented at 22<sup>nd</sup> International Sea Turtle Symposium, Miami, Florida, April, 2002.
32. Owens, J., R. Angus, M. Lalor, S. McKinney, E. Meyer and K. Marion. "Association between sedimentation potential as estimated by GIS technology, habitat assessment scores and macroinvertebrate community structure metrics in small southeastern streams." Poster presented at Association of Southeastern Biologists Meeting, Boone, North Carolina, April, 2002.
33. Owens, J., R. Angus, M. Lalor, S. McKinney, E. Meyer and K. Marion. "Association between sedimentation potential as estimated by GIS technology, habitat assessment scores and macroinvertebrate community structure metrics in small southeastern streams." Presented at the 2002 UAB Graduate Research Day, April, 2002.
34. Owens, J., R. Angus, M. Lalor, S. McKinney and K. Marion. "Utilization of GIS technologies in a sedimentation potential index. Poster and talk presented at the American Water Resources Association 2002 Spring Specialty Conference, New Orleans, Louisiana, May, 2002.
35. Blackwell, E. And K. Marion. "Annual variation in population parameters of *Ambystoma maculatum*" Presented at Joint Meeting of the Herpetologists' League , Society for the Study of Amphibians and Reptiles, and The American Society of Ichthyologists and Herpetologists, Kansas City, Missouri, July, 2002.
36. Owens, J., R. Angus, M. Lalor, S. McKinney, E. Meyer and K. Marion. "Using GIS technology for the adaptive implementation of a sediment TMDL". Presented at the Annual Alabama Water Resources Conference, Gulf Shores, September, 2002.
37. Owens, J., J. Honavar, R. Angus, M. Lalor, S. McKinney, E. Meyer and K. Marion. "Evaluation of the effects of urbanization on aquatic biota utilizing GIS." Presented at the Annual Alabama Water Resources Conference, Gulf Shores, September, 2003.
38. Lalor, M., R. Angus, K. Marion, J. Owens and S. Clark. "BMP performance in controlling sediment discharges from small construction sites." Presented at the American Water Resources Association annual meeting, San Diego, California, November, 2003.
39. Wibbels, T., K. Marion, A. Geis, D. Nelson, J. Estes, C. Murdock, A. Schesny and J. Askew. "Multi-year evaluation of the abundance and movements of juvenile sea turtles in the estuarine water of Alabama." Presented at the 24<sup>th</sup> Annual Symposium on Sea Turtle Biology and Conservation, San Jose, Costa Rica, February, 2004.
40. Owens, J., K. Marion, R. Angus and A. Simon. "Establishing links between sediment-related variables and aquatic community structure: Preliminary results from the ridge and valley." Presented at the annual Alabama Water Resources Conference, Gulf Shores, AL, September, 2004.

### **Paper Presentations at Professional Meetings Without Published Abstracts (Continued)**

41. Owens, J., K. Marion, R. Angus, S. Knight and A. Simon. "Developing links between sediment-related variables and aquatic community structure: preliminary results from the ridge and valley." Presented at the 15<sup>th</sup> Tennessee Water Resources Symposium, Chattanooga, Tennessee, May, 2005.
42. Owens, J., K. Marion and R. Angus. "User-friendly multivariate analysis for linking predictive water quality models to biological data." Presented at the 2005 Annual Alabama Water Resources Association meeting, Gulf Shores, AL, September, 2005.
43. Coleman, A., K. Marion and T. Wibbels. "Preliminary data on the population status of diamondback terrapins in Alabama." Presented at the Southeastern Diamondback Terrapin Meeting, Ocean Springs, Mississippi, April, 2006.
44. Coleman, A., T. Wibbels, K. Marion, D. Nelson, J. Borden, J. Langford and J. Dindo, "Diamondback Terrapin (*Malaclemys terrapin*) Populations in Alabama Salt Marshes". Presented at the 27th International Symposium on Sea Turtle Biology and Conservation, Myrtle Beach, South Carolina, February, 2007.
45. Coleman, A., T. Wibbels, K. Marion, D. Nelson, J. Borden, G. Langford and J. Dindo, "Current Status and Future Survival of Diamondback Terrapin, *Malaclemys terrapin pileata*, Populations in the Salt Marshes in Alabama". Presented at the Fourth Symposium on the Ecology, Status and Conservation of the Diamondback Terrapin, August, 2007.
46. Coleman, A., T. Wibbels, W. Roosenburg, K. Marion, D. Nelson, J. Borden, G. Langford and J. Dindo, "Current status and future survival of Diamondback Terrapin, *Malaclemys terrapin pileata*, populations in the Salt marshes of Alabama – Year Two." Presented at the Diamondback Terrapin Working Group Gulf Coast Regional Meeting, Mobile, AL, February, 2008.
47. Coleman, A., T. Wibbels, W. Roosenburg, K. Marion, D. Nelson, J. Borden, G. Langford and J. Dindo, "Evaluating the current status of Mississippi Diamondback Terrapin (*Malaclemys terrapin pileata*) populations in Alabama and developing an effective recovery program." Presented at the Bays and Bayous Symposium, Mobile, AL, May 2008.
48. Coleman, A., T. Wibbels, K. Marion, D. Nelson, J. Borden, G. Langford and J. Dindo, "Applying ecological survey to the development of a recovery program for a threatened population of Diamondback Terrapin, *Malaclemys terrapin pileata*". Presented at the Ecological Society of America meeting, Minneapolis, Minnesota, August, 2008.
49. Coleman, A., T. Wibbels, W. Roosenburg and K. Marion. "Geographic and seasonal variation of reproductive steroids in the Diamondback terrapin, *Malaclemys terrapin*". Presented at the Society for Integrative and Comparative Biology meeting, Boston, Massachusetts, January, 2009.
50. Coleman, A., T. Wibbels, K. Marion and J. Dindo. "Marine turtle hatchling orientation: Contrasting movements of diamondback terrapins and sea turtles." Presented at the International Sea Turtle Symposium, Brisbane, Australia, February, 2009.
51. Coleman, A., T. Wibbels, K. Marion and J. Dindo, "Diamondback Terrapin hatchling orientation: To sea or not to sea?" Presented at the American Society of Ichthyologists and Herpetologists meeting, Portland, Oregon, July, 2009.

52. Coleman, A., T. Wibbels, K. Marion, J. Dindo, D. Nelson and W. Roosenburg. "Biology and conservation of diamondback terrapins in Alabama." Presented at the American Society of Ichthyologists and Herpetologists meeting, Portland, Oregon, July 2009.
53. Coleman, A., T. Wibbels, Y. Huang, K. Marion, and J. Dindo. "Do larger females produce more fit hatchling? Effects of female age and size on egg size and hatchling growth in the Mississippi Diamondback Terrapin, *Malaclemys terrapin pileata*." Presented at the Society for Integrative and Comparative Biology meeting, Seattle, Washington, January, 2010.
54. Coleman, A., T. Wibbels, Y. Huang, N. White, K. Marion and J. Dindo. "Effect of female age and size on egg size and hatchling growth in the Mississippi Diamondback Terrapin, *Malaclemys terrapin pileata*, and potential conservation implications." Presented at the American Association of Ichthyologists and Herpetologists meeting, Newport, Rhode Island, July, 2010.
55. Coleman, A., T. Wibbels, K. Marion, D. Nelson, and J. Dindo. "Addressing critical threats to the future survival of Diamondback Terrapins, *Malaclemys terrapin pileata*, in Alabama," Presented at the Fifth Symposium on the Ecology, Status and Conservation of the Diamondback Terrapin, South Louisiana, November, 2010.
56. Coleman, A., T. Wibbels, K. Marion, D. Nelson and J. Dindo. "Addressing critical threats to the future survival of Diamondback Terrapins, *Malaclemys terrapin pileata*, in Alabama". Presented at the Bays and Bayous Symposium, Mobile, Alabama, December, 2010.
57. Marion, K., A. Coleman and T. Wibbels. "The oil mess: Effects on marine/coastal reptiles." Presented at the Alabama Partners in Reptile and Amphibian Conservation (ALAPARC meeting), Andalusia, Alabama, November, 2010.
58. Coleman, A., T. Wibbels, K. Marion, T. Roberge, J. Dindo and D. Nelson. "Survival status and recovery strategy for the Diamondback Terrapin in Alabama." Presented at the Alabama Partners in Reptile and Amphibian Conservation (ALAPARC meeting), Andalusia, Alabama, November, 2010.
59. Roberge, T., A. Coleman, T. Wibbels and K. Marion, "Radio tracking of adult female Terrapin in Cedar Point Marsh, Alabama: Implications for Ecology and Conservation." Presented at the Alabama Partners in Reptile and Amphibian Conservation (ALAPARC) meeting, Andalusia, Alabama, November, 2010.
60. Marion, K., and T. Wibbels. "Oil spill impacts on turtles in the Gulf of Mexico". Presented at the Annual Meeting of the Alabama Academy of Science, Jacksonville, March 2011.
61. Marion, K., T. Wibbels, I. Pfau, and A. Coleman. "A short film on the Diamondback Terrapin in Alabama." Presented at the Alabama Partners in Reptile and Amphibian Conservation (ALAPARC), Jasper, Alabama, September, 2011.
62. Marion, K., A. Coleman, T. Roberge, J. Dindo, and T. Wibbels. "The Diamondback Terrapin in Alabama: A fisheries bycatch issue. Presented at the Alabama Fisheries Association meeting, Columbiana, February, 2012.
63. Roberge, T., K. Bieser, T. Wibbels, D. Nelson and K. Marion. "Experimental evaluation of hatchling sex ratios predicted for the main nesting beach for the Diamondback Terrapin in Alabama. 33<sup>rd</sup> Annual Symposium on Sea Turtle Biology and Conservation, Charleston, S.C., February 2013.

64. Marion, K., T. Roberge, A. Coleman, and T. Wibbels. "The Diamondback Terrapin project in Alabama." Alabama Partners in Reptile and Amphibian Conservation (ALAPARC) meeting, Andalusia, Alabama, September 2013
65. Coleman, A., T. Roberge, T. Wibbels, K. Marion, J. Dindo and D. Nelson. "Does crab trap mortality threaten adult females of Gulf Coast diamondback terrapins?" Sixth Symposium on the Ecology, Status and Conservation of Diamondback Terrapins, South Carolina, September 2014.
66. Marion, K., T. Roberge, A. Coleman, and T. Wibbels. "Restoring terrapins to Alabama". Alabama Partners in Reptile and Amphibian Conservation (ALAPARC) meeting, Andalusia, Alabama, September, 2014.
67. Roberge, T., K. Marion, and T. Wibbels. "Assessing Diamondback Terrapin nesting beach quality in Alabama." Society of Integrative and Comparative Biology. Portland, Oregon. January 2015.

### **Invited Presentations to Professional Meetings, Societies or Universities**

- 1980 Participant - Colloquium on Biology in the Mid-South, Memphis, Tennessee, 1981 - "Aspects of the Biology of the Fence Lizard in the Mid-South."
- 1981 Keynote Speaker - Alabama Science Teachers Association annual meeting, Birmingham, 1981 - "Aspects of Natural History in the Classroom."
- 1981 Participant - International Symposium on Reproductive Biology of Reptiles, Memphis, Tennessee, 1981 - Held with joint meeting of Herpetologists' League and Society for the Study of Amphibians and Reptiles - "Reproductive Cues for Gonadal Development in Temperate Reptiles: Temperature and Photoperiod Effects on the Testicular Cycle of the Lizard, *Sceloporus undulatus*"
- 1983 Seminar Speaker - Savannah River Ecology Laboratory, Aiken, South Carolina - "Ecological Studies on Turtles in Alabama."
- 1984 Seminar Speaker - Auburn University Department of Zoology-Entomology - "Physiological and Ecological Studies on Alabama Turtles."
- 1984 Seminar Speaker - Alabama Public Health Department, Mobile - "The Status of Organic Pollutant Levels in Bivalves of Mobile Bay."
- 1984 Seminar Speaker - FDA Fisheries Research Branch Laboratory, Dauphin Island - "The Status of Organic Pollutant Levels in Oysters of Mobile Bay."
- 1985 Speaker - Annual Meeting of the American Association of Zoological Parks and Aquariums, Birmingham - "The Case for Presenting Local Reptiles to the Public."
- 1985 Speaker - Gulf and South Atlantic States Shellfish Conference, Mobile - "Biomonitoring studies of organic pollutants in Mobile Bay, Alabama, employing the American oyster (*Crassostrea virginica*) and the brackish water clam (*Rangia cuneata*)"
- 1986 Speaker - Mobile Bay Symposium, Mobile - "Organic Pollutant Levels in Bivalves of Mobile Bay"

- 1988 Seminar Speaker - UAB School of Public Health, Department of Environmental Health Sciences - "Biology and Economics of the Largemouth Bass Fishery on Guntersville Reservoir, Alabama" - with R. Angus.
- 1991 Speaker - Alabama Universities/TVA Research Consortium Meeting, Montgomery - "The Water Quality Condition and Biological Status of Upper Bear Creek Reservoir."
- 1995 Presidential Address. Speaker at Association of Southeastern Biologists (ASB) Banquet, Knoxville, Tennessee, April, 1995 - "What Should I do?: Basic or Applied Research?"
- 1996 Keynote Speaker - Second Annual College of Letters and Science Student Research Symposium, Jacksonville State University - "The Importance of Research" - March 1, 1996.
- 1996 UAB Honors Symposium Speaker - "Alabama's Environmental Challenge" - October 5, 1996.
- 1997 Seminar Speaker - UAB Sigma Xi Society - "The Ecological Status of the Upper Cahaba River" - February 18, 1997.
- 1997 Presentation - Cahaba River Basin Management Plan Stakeholders Meeting - "Status Update of UAB Biological Studies on the Upper Cahaba River." - April 24, 1997.
- 1998 Presentation - American Water Resources Association/Water Environment Federation (Alabama Chapter) - "The Status of the Upper Cahaba River: Results of Recent Bioassessment Studies" - January 30, 1998.
- 2000 Presentation - Alabama Academy of Science Annual Banquet; Samford University, Birmingham - "The art of survival: disguise and deception in nature." - April, 2, 2000.
- 2001 Presentation - Annual Symposium for the Alabama Center for Estuarine Studies, Dauphin Island, March, 2001.
- 2001 Presentation - Dauphin Island Colloquium Series: Dauphin Island Sea Lab - "The Urbanizing of a River: The Search for Functional Indicators of Change." - May 4, 2001.
- 2011 Presentation- Symposium on the Gulf Oil Spill; Alabama Academy of Science – "The Oil Spill: Effect on Coastal/Marine Reptiles," March, 2011.

### **Research Grants Awarded**

#### A) Intramural

- 1973-74 UAB Faculty Research Grant - "Environmental Control of Testicular Cycle in the Lizard, *Sceloporus undulatus*" \$2,800.
- 1974-75 UAB Faculty Research Grant - "Location of Hibernation Dens by Pit Vipers." \$1,400.
- 1976-77 UAB Faculty Research Grant - "Geographic Variation in the Reproduction Cycle and Life History of the Musk Turtle, *Sternotherus minor*" \$1,472.
- 1977-78 UAB Faculty Research Grant - "Testing the Concepts of r- and K-Selection in Plant Communities: The Role of Survivorship and Competition" \$1,199.

- 1979-80 UAB Faculty Research Grant - "Investigation of Seasonal Changes in Energy Contents of Eggs: Steps Toward a Resolution of a Controversy in Reptilian Reproduction." \$810.
- 1981-82 UAB Faculty Research Grant - "Understanding Reptilian Reproductive Cycles: Plasma Steroid Levels in the Annual Reproductive Cycle of a Lizard, *Sceloporus undulatus*" \$1,984.
- 1981 UAB GC/MS Center Developmental Grant - "Organic Pollutant Levels in Oysters of Mobile Bay - A Biological Assessment of the State of the Bay." \$2,200.
- 1982 UAB GC/MS Center Developmental Grant - "Organic Pollutant Levels in Bivalves of Mobile Bay." - R. Settine co-principal investigator. \$2,000.
- 1987 UAB Faculty Grant - "An Investigation of the Reproductive Cycle and Population Estimates of the Slipper Lobster, *Scyllarides nodifer*, in the Northeast Gulf of Mexico: A Preliminary Examination of a Potential Fishery Resource." \$1,971.
- 2011-2012 UAB Gulf Oil Response Initiative – “Assessing the Impact of the Deepwater Horizon Oil Spill on the Diamondback Terrapin: A Keystone Species in the Salt Marshes of Alabama.” – T. Wibbels Co-PI. \$13,990.

B) Extramural

- 1981 Sea Grant - "Organic Pollutant Level in Oysters of Mobile Bay - Biological Assessment of the State of the Bay." - R. Settine co-principal investigator. \$18,000.
- 1982 Sea Grant - "Organic Pollutant Levels in Bivalves of Mobile Bay." -R. Settine co-principal investigator. \$37,820.
- 1983 Sea Grant (renewal) - "Organic Pollutant Levels in Bivalves of Mobile Bay." - R. Settine co-principal investigator. \$37,820.
- 1983 Sea Grant - Fellowship awarded to Marine Jovanovich, graduate student, for project by Jovanovich and Marion entitled "Effects of Lipids and Temperature on the Uptake of Anthracene by the clam, *Rangia cuneata*, in Mobile Bay." \$1,500.
- 1984 Sea Grant (renewal) - "Organic Pollutant Levels in Bivalves of Mobile Bay." - R. Settine co-principal investigator. \$34,038.
- 1984 Sea Grant - Fellowship Renewal to Marina Jovanovich, graduate student, for 1983 project by Jovanovich and Marion. \$1,500.
- 1984 Birmingham Audubon Society - Awarded to Amanda Johnson, graduate student, for project by Johnson and Marion entitled "Population Studies of the Flattened Musk Turtle, *Sternotherus depressus*" \$300.
- 1985 Birmingham Audubon Society - Awarded to John Dindo, graduate student, for project by Dindo and Marion entitled "Population Dynamics of a Coastal Heronry." \$500.

- 1986 National Oceanic and Atmospheric Administration (NOAA) - "The Use of Indicator Species as a Means of Assessing the Environmental Condition of the Weeks Bay National Estuarine Sanctuary." \$9,682.
- 1987 Alabama Universities/TVA Research Consortium - "Studies of the Biology and Economics of the Largemouth Bass Fishery on Guntersville Reservoir, Alabama" - with R. Angus. \$24,982.
- 1987 National Oceanic and Atmospheric Administration (NOAA) - "Enhancing Public Awareness of Estuaries: A Natural History Survey of the Weeks Bay National Estuarine Sanctuary." \$9,978.
- 1989 Alabama Universities/TVA Research Consortium - "Population Biology of the Largemouth Bass and its Forage Species on Guntersville Reservoir." - with R. Angus. \$9,900.
- 1989 National Oceanic and Atmospheric Administration (NOAA) - "The Habitat Utilization, Population Dynamics, Reproductive Biology and Trophic Ecology of the Blue Crab, *Callinectes sapidus*, in Weeks Bay, Alabama: Important Implications for Fisheries and Estuarine Management." - with J. McClintock. \$14,547.
- 1989 EPSCoR (NSF) - Marine Ecology - "Modes and Energetics of Reproduction and Timing of Gametogenesis and Recruitment of Echinoderms in the Offshore Waters of the Gulf of Mexico." - with J. McClintock, S. Watts and T. Hopkins. \$15,000.
- 1989 Alabama Universities/TVA Research Consortium (AUTRC) - "Assessment of Water Quality, Biological Conditions, and Pollutant Sources in Upper Bear Creek Reservoir, Alabama: Development of a Plan for Improving Water Quality and Establishing a Recreational Fishery." - with R. Angus and J. McClintock. \$29,033.
- 1990 EPSCoR (NSF) - Marine Ecology - "Modes and Energetics of Reproduction and Timing of Gametogenesis and Recruitment of Echinoderms in the Offshore Waters of the Gulf of Mexico." - with J. McClintock, S. Watts and T. Hopkins. \$79,912.
- 1990 EPSCoR (NSF) - "An REU (Research Experience for Undergraduates) Award to Supplement Currently Funded NSF EPSCoR Program." - with J. McClintock, S. Watts and T. Hopkins. \$3,850.
- 1990 Alabama Universities/TVA Research Consortium (AUTRC) - "Continuation and Extension of Studies Assessing the Water Quality, Biological Status, and Pollutant Sources in Upper Bear Creek Reservoir: Development of a Plan for Improving Water Quality and Establishing a Recreational Fishery." - with R. Angus and J. McClintock. \$23,041.
- 1991 Alabama Universities/TV A Research Consortium (AUTRC) - "Producing a Quality Recreational Fishery in the Bear Creek Reservoirs of Northwest Alabama: Assessment of Current Physical and Biological Conditions." - with R. Angus. \$40,000.
- 1992 NSF EPSCoR - "Modes and Energetics of Reproduction and Timing of Recruitment in Offshore Echinoderms of the Gulf of Mexico." - with J. McClintock, S. Watts and T. Hopkins. \$79,912 (ended August, 1992).

- 1993-95 EPSCoR (NSF) - Marine Ecology - "Chemical Defense and Nearshore Production: The Role of Chemical Deterrents in Regulating Patterns of Echinoderm Recruitment and Predator-Prey Dynamics in Echinoderm-Dominated Coastal Marine Ecosystems." - with J. McClintock, S. Watts, T. Hopkins and R. Zimmer-Faust. \$262,208 (over 3 years).
- 1995-96 Water Resources Research Institute (WRI) - "Extending a Watershed Use Model to Include Impacts on Habitat Quality and Integrity of Aquatic Ecosystems" - with R. Angus and M. Lalor. \$ 19,902.
- 1995-96 UAB Earth Center - "Incorporation of Chemical, Biological and Watershed Land Use Information Into a Model Which Predicts Water and Habitat Quality: Preliminary Studies on Weiss Reservoir" - with R. Angus and M. Lalor. \$14,990
- 1995-97 Environmental Protection Agency (EPA) through Alabama Department of Environmental Management (ADEM) - "Modeling Biological Communities in the Cahaba River Utilizing a Geographical Information System" - with M. Lalor and R. Angus. \$99,484.
- 1999-2000 Water Resources Research Institute (WRI) - "A Preliminary Evaluation of the Effectiveness of Current BMPs in Controlling Stormwater Discharges from Small Construction Sites in the Valley and Ridge Physiographic Region and Developing Metrics to Assess the Effects of Discharge on Stream Communities" - with R. Angus and M. Lalor. \$24,842.
- 1999-2001 Alabama Center of Estuarine Studies (ACES) - "Evaluation of Alabama Estuaries as Developmental Habitat for Juvenile Sea Turtles" - with D. Nelson (University of South Alabama) and T. Wibbels. \$35,745.
- 1999-2003 Alabama Center for Estuarine Studies - "Are Alabama Estuaries a Major Developmental Habitat for Juvenile Sea Turtles?" - with D. Nelson (University of South Alabama) and T. Wibbels. \$90,815.
- 2000-2001 Alabama Water Resources Research Institute - "Implementation of Methods to Enhance the Evaluation of the Effectiveness of Current BMPs in Controlling Stormwater Discharges from Small Construction Sites in the Valley and Ridge Physiographic Region and the Development of Metrics to Assess the Effects of Discharge on Stream Communities" - with R. Angus and M. Lalor. \$84,530.
- 2001-2002 Alabama Water Resources Research Institute - "Continuation of Studies to Evaluate the Effectiveness of Current BMPs in Controlling Stormwater Discharges from Small Construction Sites, Pilot Studies of Methods to Improve their Effectiveness, and Assessment of the Effects of Discharge on Stream Communities" - with R. Angus and M. Lalor. \$83,289.
- 2002-2004 The Nature Conservancy - "A Study of the Flattened Musk Turtle in the Bankhead National Forest and Surrounding Environs, with Emphasis on Recruitment and Nesting Success". \$50,000.
- 2003-2004 Alabama Center for Estuarine Studies - "Satellite Tracking of Juvenile Sea Turtles in the Bay Systems and Near Shore Waters of Alabama - with D. Nelson (University of South Alabama) and T. Wibbels. \$24,872.

- 2004-2006 Alabama Center for Estuarine Studies - "Survey of Diamondback Terrapin Populations in Alabama Estuaries" - with D. Nelson (University of South Alabama) and T. Wibbels. \$42,160.
- 2007-2010 State of Alabama Department of Conservation Wildlife Grant – “The Diamondback Terrapin in Alabama: Causes of Decline and Strategy for Recovery.” – with T. Wibbels, D. Nelson (University of South Alabama) and J. Dindo (Dauphin Island Sea Lab). \$49,920.
- 2010-2012 Alabama Coastal Area Management Program; Alabama Department of Conservation – “Restoration of the Diamondback Terrapin in Alabama.” – with T. Wibbels and J. Dindo (Dauphin Island Sea Lab). \$21,674.
- 2011-2014 BP Gulf Research Initiative – “Assessing the Impact of the Deepwater Horizon Oil Spill on the Diamondback Terrapin: A Top Carnivore and Keystone Species in the Salt Marshes of Alabama.” – with T. Wibbels, J. Dindo (Dauphin Island Sea Lab) and D. Nelson (University of South Alabama). \$34,395.
- Pending Alabama Dept. of Conservation through National Fish and Wildlife Foundation—“Conservation of the Diamondback Terrapin”—with T. Wibbels. 2017-2019. \$92,025.

### **Contract Participation**

- 1983 Associate Investigator in field project sponsored by Alabama Coal Association during summer, 1983, to investigate the distribution, status and biology of the Flattened Musk Turtle (*Sternotherus depressus*), a potentially endangered or threatened species. Served in consultant status. Total contract funds for project = \$76,000.
- 1991 Co-Investigator in project sponsored by Birmingham Water Works Board to assess the population status of the federally-threatened Flattened Musk Turtle (*Sternotherus depressus*) on the Locust Fork River. Project also assessed habitat potential for turtle if planned impoundment of portions of river occurs. Total contract funds = \$36,000.
- 2009-2015 stream Performed stream fish surveys to evaluate health of Jefferson County urban streams for Jefferson County Stormwater Authority.

### **Graduate Students and Theses**

- 1) Robert Holmes - M.S. - 1978 - "The Hormonal Basis for Reptilian Reproduction, with Particular Emphasis on Lizards."
- 2) William A. Cox - Ph.D. - 1978 - "Reproduction, Growth and Life History Strategies in the Musk Turtle (*Sternotherus minor*) in North Florida."
- 3) Douglas C. Clarke - Ph.D. - 1979 - "Aspects of Resource Utilization in the Freckled Blenny, *Hypsoblennius ionthas*, on Oyster Reef Substrate." Co-director of thesis.
- 4) Paul G. Johnson - M.S. - 1980 - "Seasonal Variation in Benthic Community Structure in Mobile Bay, Alabama." Co-director of thesis.

- 5) Mary Ellen B. MacDonald - Ph.D. - 1981 - "Reproductive Strategies of Plants During the Early Stages of Secondary Succession on the Coosa River Flood Plain."
- 6) Roger J. McPherson - Ph.D. - 1981 - "The Annual Reproductive Cycle of *Sternotherus odoratus*: Correlated Changes in Total Lipids and Plasma Steroids."
- 7) David K. Close - M.S. - 1982 - "The Reproductive Cycle of *Sternotherus minor depressus*"
- 8) Rosie B. McKinney - M.S. - 1982 - "The Reproductive Cycle of *Sceloporus undulatus* from Alabama, with Corresponding Plasma Steroid Levels and Comments on Reproductive Variation."
- 9) Mark M. Greeley - Ph.D. - 1983 - "The Reproductive Cycle of Killifish in the Northern Gulf of Mexico, with Emphasis on *Fundulus grandis*"
- 10) Marina C. Jovanovich - M.S. - 1985 - "Uptake and Depuration of Anthracene by the Clam, *Rangia cuneata*: Relationships to Temperature and the Annual Reproductive Cycle."
- 11) Amanda R. Johnson - M.S. - 1986 - "An Investigation of Habitat Parameters Influencing Population Sizes of the Flattened Musk Turtle, *Sternotherus depressus*, with Observations on Aspects of Behavior."
- 12) Georganna E. Ranglack - Ph.D. - 1989 - "Biological and Ecological Factors Controlling Life History Parameters in a Multi-species Avian Rookery in Alabama."
- 13) John J. Dindo - Ph.D. - 1991 - "Population Dynamics of a Mixed-species Heronry on a Coastal Alabama Island."
- 14) Teresa L. Troha - M.S. - 1992 - "Aspects of Benthic Invertebrate Ecology in a Mine-Impacted Reservoir."
- 15) Myrna Attaway - M.S. - 1992 - "The Effect of Season, Reproductive State, and Temperature on the Uptake and Depuration of Lead Acetate by the Freshwater Bivalve *Corbicula fluminea*"
- 16) Dave Onorato - M.S. - 1997 - "Ichthyological Bioassessment of the Upper Cahaba River of Alabama: An Analysis of the Selection of Sampling Gears, Current Trends in Fish Assemblages, and Historical Changes Within the Ichthyofaunal Communities."
- 17) Debra S. Moore - Ph.D. - 1997 - "Molecular Analyses of Temperate Hyliid Frogs Using the Mitochondrial Cytochrome b Gene."
- 18) Kristen Lindsey - M.S. 1998 - "A Bioassessment of the Upper Cahaba River Using Benthic Macroinvertebrate Populations."
- 19) Elizabeth Corn - M.S. 2000 - "A Bioassessment of Seven Tributaries of the Cahaba River Using Benthic Macroinvertebrate Populations."
- 20) Eric Blackwell - Ph.D. -2003 - "Population Biology of *Ambystoma maculatum* in East-Central Alabama".

- 21) Janna Owens - Ph.D. - 2006 - "Evaluation of Sediment-Sensitive Biological Metrics as Biomonitoring Tools on Varied Spatial Scales."
  
- 22) Sherry Holmes - M.S. - 2007 - "The Status of the Flattened Musk Turtle, *Sternotherus depressus*, in the William B. Bankhead National Forest and Lewis Smith Reservoir, with Emphasis on Aspects of Growth, Demography, and the Effects of Habitat Conditions on Apparent Population Size."

### **Service to Community Organizations**

- 1) President – Birmingham Audubon Society (current)
- 2) President - Birmingham Herpetological Society (current)
- 3) Research Committee - Birmingham Audubon Society (current)
- 4) Former Co-Director - Audubon Mountain Workshop
- 5) Former Biological Conservation Advisory Board Member - Alabama Conservancy
- 6) Former Board of Directors Member - Cahaba River Society
- 7) Former Executive Committee Member - Cahaba River Society
- 8) Former Chairman, Conservation Committee - Cahaba River Society
- 9) Former Board of Directors Member - Forever Wild Program of Alabama
- 10) Former Board of Directors Member - Alabama Zoological Society