

**CURRICULUM VITAE**  
**Kimberly J. Babbitt**

**FIELDS OF INTEREST**

Amphibian Ecology, Aquatic Ecology, Behavioral Ecology, Community Ecology, Conservation Biology, Herpetology, Wetland Ecology, Wildlife Management

**EDUCATION**

- 1996                   University of Florida, Gainesville, FL  
Ph.D. - Wildlife Ecology and Conservation
- Dissertation Title: "Tadpoles and Predators:  
Patterns in Space and Time and the Influence of  
Habitat Complexity on Their Interactions"
- 1988                   Texas A&M University, College Station, TX  
M.S. - Wildlife and Fisheries Sciences
- Thesis Title: "Suckling and weaning behavior  
in the collared peccary (Tayassu tajacu)"
- 1984                   University of New Hampshire, Durham, NH  
B.S. - Wildlife Management

**HONORS**

- 2003                   Outstanding Teacher, Department of Natural  
Resources, University of New Hampshire
- 2002                   Distinguished Alumna Award, Department of Natural  
Resources, University of New Hampshire
- 2000                   Teaching Excellence Award, College of Life  
Sciences and Agriculture, University of New  
Hampshire
- 1998                   Outstanding Teacher, Department of Natural  
Resources, University of New Hampshire
- 1996                   McNeal Award for Outstanding Talent in Research,  
University of Florida
- 1988                   Outstanding Masters Student, Dept. of Wildlife  
and Fisheries Sciences, Texas A&M University

## RESEARCH GRANTS AND CONTRACTS

- 2004-2006 Assessment of salt marsh bird status. NH Fish and Game Department. \$65,000
- 2003 Faculty International Development Grant, Center for International Education, University of New Hampshire. \$2000
- 2003 Faculty Development Grant, Office of the Provost, University of New Hampshire. \$700
- 2003- The importance of forest matrix and wetland distribution to amphibians breeding in vernal pools. McIntire-Stennis/USDA. \$9000/yr
- 2002-2005 Experimental testing of buffer requirements for amphibians inhabiting vernal pools in a forested landscape. USDA NRI \$390,00
- 2002-2005 Assessment of land use practices on wetland functions and values: examination of wetland size and spatial distribution. NH Nongame and Endangered Wildlife Program and NH Department of Environmental Services. \$57,000
- 2002-2004 Herpetofaunal responses to habitat management prescriptions on Wildlife Management Areas. NH Fish and Game Department. \$14,000.
- 2001-2004 Reproductive success of northern goshawks (*Accipiter gentiles*) across the managed and unmanaged landscapes of the northeastern forest - a pilot study. USDA Forest Service \$12,000. (with M. Yamasaki)
- 2001-2006 Assessment of amphibian malformations on northeastern National Wildlife Refuges. USF&WS. \$92,000
- 2001-2003 Developing a conservation strategy to protect wetland habitat functions for New Hampshire's reptiles and amphibians using Blanding's turtle as a flagship species. New Hampshire Nongame & Endangered Wildlife Program (from EPA). \$64,800
- 2000- Coarse woody material in northeastern forests.

2004            USDA Forest Service. \$104,388 (with Mark Ducey)

2000-           Direct and indirect effects of different predators  
2003           on forest stream food webs. McIntire-Stennis/USDA.  
\$26,500.

1999-           Spatial distribution of anurans in an agricultural  
2002           landscape. Florida Nongame Wildlife Unsolicited  
Contracted Projects. \$40,657

1999-           Amphibian use of vernal pools within selected New  
2000           Hampshire watersheds. NH Department of  
Environmental Services (from EPA). \$20,000

1998-           Effects of forest harvesting practices on  
2000           amphibians. USDA \$32,866

1998-           Amphibian responses to changes in forest structure  
2000           associated with ice storm damage. USDA. \$20,000

1998           Deformed amphibians and endocrine disruptors.  
College of Life Science and Agriculture, Office of  
the Vice President for Research and Public  
Service, and the Sustainability Program,  
University of New Hampshire. (with Stacia  
Sower)\$7500

1998           Deformed amphibians in New Hampshire: Incidence  
and relation to land use and water quality. Vice  
President for Research Discretionary Research  
Support Program University of New Hampshire. \$5900

1998-           Amphibian use of vernal pools within selected New  
1999           Hampshire watersheds. New Hampshire Nongame &  
Endangered Species Program (from EPA). \$15,245

1997           Summer Faculty Fellowship, University of New  
Hampshire. \$3500

1997-           Potential for ecological reserves in NH forests:  
2001           Soils and amphibians. McIntire-Stennis/USDA  
\$25,600

1997           Survey of deformed amphibians in the Atlantic  
Coastal Plain of Massachusetts and New Hampshire  
Environmental Protection Agency \$10,000

- 1991-1996 Microhabitat and predator-prey relationships: Examination of interactions between anuran larvae and aquatic insects. Institute of Food and Agricultural Sciences, University of Florida \$76,000 (with G. W. Tanner)
- 1992 Research in agro-ecology. Williamson Ranches. \$3000
- 1988 Grant to attend Organization of Tropical Studies Course. Texas A&M University Office of Graduate Programs. \$1300
- 1986 Lactation and reproductive performance of Collared peccaries. National Rifle Association. \$2,000

#### **PROFESSIONAL/RESEARCH EXPERIENCE**

- Jan 2003-present Academic Program Coordinator: EcoQuest New Zealand Department of Natural Resources, University of New Hampshire
- 2002 - present Steering Committee Member, Center for Integrated Regional Problem Solving, University of New Hampshire
- Aug 2001-present Associate Professor: Wildlife and Environmental Conservation Programs, Department of Natural Resources, University of New Hampshire
- Jan 2000-present Research Affiliate, Archbold Biological Station Lake Placid, Florida
- 1998 - 2001 Adjunct Assistant Professor, Department of Biological Sciences, Florida International University
- Aug 1996-present Assistant Professor: Wildlife Program, Department of Natural Resources, University of New Hampshire.
- Aug 1991-May 1996 Research Assistant: Assessment of Aquatic Macrofaunal Resources in Altered Wetland Habitats. Dept. of Wildlife Ecology and Conservation, University of Florida, Gainesville, FL

Aug 1992-  
Aug 1995      Research Associate: Assessment of Fish Responses to Hydrology, Habitat Complexity, and History of Marsh Management. U.S.F.W.S. Cooperative Education Unit, University of Florida, and St. Johns River Water Management District.

Feb 1991 -  
Aug 1991      Environmental Specialist III: Coordinator/Administrator, Myakka River Basin Project. Natural Resources Dept., Ecological Monitoring Div., Sarasota County, Sarasota, FL

Dec 1988 -  
Feb 1991      Environmental Specialist II: Asst. Coordinator, Myakka River Basin Project. Natural Resources Dept., Ecological Monitoring Div., Sarasota County, Sarasota, FL

Dec 1988 -  
Feb 1991      Biologist: T. Mabry Carlton Jr. Memorial Reserve. Natural Resources Dept., Ecological Monitoring Div., Sarasota County, Sarasota, FL

Aug 1985 -  
May 1988      Research Assistant: Collared Peccary Social Behavior. Dept. of Wildlife and Fisheries Sciences, Texas A&M University, College Station, TX

May 1984 -  
Aug 1985      Project Coordinator: Lake Lay Monitoring Program. Depts. of Botany and Zoology, University of New Hampshire, Durham, NH

1982 -  
1984      Research Assistant: Wildlife Energetics Program. Dept. of Wildlife Management, University of New Hampshire, Durham, NH (academic year employment)

1982 -  
1983      Research Assistant: Lake Lay Monitoring Program. Depts. of Botany and Zoology, University of New Hampshire, Durham, NH (seasonal employment)

May 1983 -  
Aug 1983      Research Assistant: Flying Squirrel Behavior Project. Dept. of Zoology, University of New Hampshire, Durham, NH

1980 -  
1981      Research Assistant: New Hampshire Breeding Bird Atlas and Cavity Nesting Bird Projects. Dept. of Wildlife Management, University of New Hampshire, Durham, NH (academic year employment)

## **COURSES TAUGHT**

- WILD 655 Vertebrate Biology (annual)  
WILD 636 Wildlife Biology and Field Techniques (annual)  
NR 650 Principles of Conservation Biology (annual)  
WILD 738 Wildlife Policy and Management (1998)  
WILD 993 Ecology of Aquatic Systems (1998)  
NR 993 Experimental Ecology (2000, co-taught with M. Ducey)  
NR 993 Amphibian Conservation Issues (2003, co-taught with M. Baber)

## **BIBLIOGRAPHY**

### **Refereed Publications:**

- Packard, J.M., K.J. Babbitt, P.G. Wilber, and W.E. Grant. 1989. Infanticide in captive collared peccaries (*Tayassu tajacu*). Zoo Biology. 8:1-5.
- Babbitt, K.J. and J.M. Packard. 1990. Weaning conflict relative to phase of lactation. Anim. Behav. 40:765-773.
- Babbitt, K.J. and J.M. Packard. 1990. Suckling behavior in the collared peccary (*Tayassu tajacu*). Ethology. 86:102-115.
- Packard, J.M., K.J. Babbitt, K.M. Franchek, and P.M. Pierce. 1991. Sexual competition in captive collared peccaries (*Tayassu tajacu*). Appl. Anim. Behav. 29:319-326.
- Babbitt, K.J. and J.L. Lincer. 1993. Predation on artificial ground nests in southwest Florida. Florida Scientist. 56:118-122.
- Babbitt, K.J. 1995. *Bufo terrestris* (Southern Toad) Oophagy. Herpetological Review. 26:30.
- Babbitt, K. J. and F. Jordan. 1996. Predation on *Bufo terrestris* tadpoles: Effects of cover and predator identity. Copeia. 1996:485-488.
- Jordan, F., K.J. Babbitt, C.C. McIvor, and S.J. Miller. 1996. Spatial ecology of the crayfish *Procambarus alleni* in a Florida wetland mosaic. Wetlands. 16:134-142.

- Babbitt, K.J. and G.W. Tanner. 1997. Effects of cover and predator identity on predation of *Hyla squirella* tadpoles. *J. Herpetology*. 31:128-130.
- Jordan, F., K.J. Babbitt, and C.C. McIvor. 1998. Seasonal variation in habitat use by marsh fishes. *Ecology of Freshwater Fish*. 7:159-166.
- Babbitt, K.J. and G.W. Tanner. 1998. Effects of cover and predator size on survival and development of *Rana utricularia* tadpoles. *Oecologia*. 114:258-262.
- Babbitt, K.J. and G.W. Tanner. 2000. Use of temporary wetlands by anurans in a modified landscape: effects of hydrology and wetland size. *Wetlands*. 20:313-322.
- Jordan, F., K.J. Babbitt, C.C. McIvor, and S.J. Miller. 2000. Contrasting patterns of habitat use by prawns and crayfish in the headwaters of the St. Johns River, Florida. *Crustacean Biology*. 20:769-776.
- Babbitt, K.J. and W. E. Meshaka. 2000. Benefits of eating conspecifics; Effects of background diet on survival and metamorphosis in the Cuban treefrog (*Osteopilus septentrionalis*). *Copeia*. 2000:469-474.
- Sower, S.A., K.L. Reed, and K.J. Babbitt. 2000. Limb deformities and abnormal sex hormone concentrations in frogs. *Environmental Health Perspectives*. 118:1085-1090.
- Fort, D.J., R.L. Rogers, R.R. Paul, M.F. Miller, P. Clark, E.L. Stover, J. Yoshioko, F. Quimby, S.A. Sower, K.L. Reed, K.J. Babbitt, and R. Rolland. 2001. Effects of pond water, sediment, and sediment extract samples from New Hampshire, USA, on early *Xenopus* development and metamorphosis: comparison to native species. *J. of Applied Toxicology*. 21:199-209.
- Babbitt, K.J. 2001. Behavioral and growth responses of *Rana utricularia* tadpoles to predators: Interactions with resource level. *Canadian Journal of Zoology*. 79:809-814.
- Tarr, T.L. and K.J. Babbitt. 2001. A new species of *Dibolocelus* in New Hampshire. *Entomological News*. 112:331-333.

- Barr, G.E. and K.J. Babbitt. 2001. A comparison of two techniques for sampling larval stream salamanders. *Wildlife Society Bulletin*. 29:1238-1242.
- Tarr, T.L. and K.J. Babbitt. 2002. Effects of habitat complexity and predator identity on predation of *Rana clamitans* larvae. *Amphibia-Reptilia*. 23:13-20.
- Baber, M.J., D.L. Childers, K.J. Babbitt, and D. L. Anderson. 2002. Controls on fish distribution and abundance in temporary wetlands. *Canadian Journal of Fisheries and Aquatic Sciences*. 59:1441-1450.
- Barr, G.E. and K.J. Babbitt. 2002. Effects of biotic and abiotic factors on distribution and abundance of larval two-lined salamanders (*Eurycea bislineata*): changes across spatial scales. *Oecologia*. 133:176-185.
- Baber, M.J., and K.J. Babbitt. 2003. The relative impact of predatory fish on a temporary wetland tadpole assemblage. *Oecologia*. 136:289-295.
- LaFiandra, E.M., and K.J. Babbitt. 2004. Predator induced phenotypic plasticity in the pinewoods treefrog (*Hyla femoralis*): necessary cues and the cost of development. *Oecologia*. 138:350-359.
- Babbitt, K.J., M.J. Baber, and T.L. Tarr. 2003. Patterns of larval amphibian distribution along a wetlands hydroperiod gradient. *Canadian Journal of Zoology*. 81:1539-1552.
- Jenkins, R.J. and K.J. Babbitt. 2003. *Emydoidea blandingii* (Blanding's turtle). Mating behavior. *Herpetological Review*. 4:361-362.
- Baber, M.J., and K.J. Babbitt. 2004. The influence of habitat complexity on predator-prey interactions between the fish (*Gambusia holbrooki*) and tadpoles of *Hyla squirella* and *Gastrophryne carolinensis*. *Copeia*. 2004:173-177.
- Baber, M.J., Fleishman, E, Babbitt, K.J., and Tarr, T.L. in press. The relationship between wetland hydroperiod and nestedness patterns in assemblages of larval amphibians and predatory macroinvertebrates. *Oikos*

Babbitt, K.J. in press. The relative importance of wetland size and hydroperiod for amphibians in the northeast. *Wetland Ecology and Management*.

T.L. Tarr, M.J. Baber, and K.J. Babbitt. in press. Changes in the distribution and abundance of invertebrates across the hydrologic gradient. *Wetland Ecology and Management*.

Hermann, H.L., K.J. Babbitt, M.J. Baber, and R.G. Congalton. Effects of wetland and surrounding landscape characteristics on amphibian assemblages. (in revision, *Biological Conservation*)

Baber, M.J., D.L. Childers, K.J. Babbitt, and G. Noe. The relative importance of local and landscape characteristics on temporary wetlands anurans larvae. (in review, *Wetlands*)

Babbitt, K.J., M.J. Baber, and L.A. Brandt. The effects of woodland proximity and wetland characteristics on wetland larval anuran assemblages (in review, *Journal of Wildlife Management*)

### **Books and Book Chapters**

Eaton-Poole, L. A.E. Pinkney, D.E. Green, D.R. Sutherland, and K.J. Babbitt. 2003. Investigation of frog abnormalities on National Wildlife Refuges in the Northeast U.S. pp. 63-78. In: G. Linder, S. Krest, D. Sparling, and E.E. Little (eds.), *Multiple stressor effects in relation to declining amphibians*. ATSM International, West Conshohocken, PA.

Meshaka, W.E., Jr., and K.J. Babbitt (eds.). *Status and Conservation of Florida Amphibians and Reptiles*. Krieger Publishing. In press.

Babbitt, K.J., M.J. Baber, and G.W. Tanner. The impact of agriculture on temporary wetlands amphibians. In W. E. Meshaka, Jr., and K.J. Babbitt (eds.). *Status and Conservation of Florida Amphibians and Reptiles*. Krieger Publishing. In press.

Baber, M.J., K.J. Babbitt, F. Jordan, and W. Kitchens. The relationship between habitat type, predator composition, and larval anuran distribution in the Florida Everglades. In W. E. Meshaka, Jr., and K.J. Babbitt (eds.). *Status and*

Conservation of Florida Amphibians and Reptiles. Krieger Publishing. In press.

**Technical Reports/Non-refereed Papers:**

Lowrey, S.S., K.J. Babbitt, J.L. Lincer, S.J. Schropp, F.D. Calder, H.L. Windom, and R.B. Taylor. 1990. Myakka River basin project: a report on physical and chemical processes affecting the management of the Myakka River basin. Final report to the Florida Department of Environmental Regulation.

McIvor, C.C., F. Jordan, and K.J. Babbitt. 1995. An assessment of fish responses to hydrology, habitat complexity, and marsh management. Final report to the St. Johns River Water Management District.

Babbitt, K.J., T. Aylward, and B. Caserto. 1997. Presence of abnormalities in anuran metamorphs along the coastal plain of New Hampshire and Massachusetts. Final report to The Environmental Protection Agency.

Babbitt, K.J. and G.W. Tanner. 1997. Effective Management of Frogs and Toads on Florida's Ranches. University of Florida Cooperative Extension Service Fact Sheet.

Babbitt, K.J., T.L. Tarr, and H.L. Givens. 1999. Amphibian use of vernal pools within selected New Hampshire watersheds. Final report to the New Hampshire Nongame and Endangered Wildlife Program, New Hampshire Fish and Game Department.

Babbitt, K.J. and H.L. Givens. 2000. Amphibian use of vernal pools within selected New Hampshire watersheds: Effects of upland landscape characteristics on amphibian use of wetlands. Final report to the New Hampshire Department of Environmental Services.

Babbitt, K.J. 2001. Spatial distribution of anurans in an agricultural landscape. Final report to Florida Fish and Wildlife Conservation Commission.

R. Jenkins and K.J. Babbitt. 2003. Developing a conservation strategy to protect land habitat functions for New Hampshire's reptile and amphibians using the Blanding's turtle (*Emydoidea blandingii*) as a flagship species. Final report to the New Hampshire Fish and Game Department.

### **Published Abstracts**

Reed, K.L., K.J. Babbitt, and S.A. Sower. 1999. Limb deformities and abnormal sex hormone concentrations in frogs. *American Zoologist* 39(5)25A.

### **PROFESSIONAL PRESENTATIONS**

- 1986        Babbitt, K.J., P.G. Hannon, J.M. Packard, and W.E. Grant. Discrete vs. gradual weaning in the collared peccary (*Tayassu tajacu*). Poster presented at the Animal Behavior Society Annual Meeting, Tucson, AZ. June 9-13.
- 1987        Babbitt, K.J. and J.M. Packard. Patterns of suckling behavior in the collared peccary (*Tayassu tajacu*). Poster presented at the Animal Behavior Society Annual Meeting, Williamstown, MA. June 21-26.
- 1988        Babbitt, K.J. and J.M. Packard. Sources of variation in suckling and weaning behavior in the collared peccary. Presented at the Animal Behavior Society Annual Meeting, Missoula, MT. August 7-13.
- 1988        Packard, J.M. and K.J. Babbitt. Conditional weaning: Relation between effort and investment as determined by bout interruptions in the collared peccary (*Tayassu tajacu*). Presented at the Animal Behavior Society Annual Meeting, Missoula, MT. August 7-13.
- 1991        Babbitt, K.J. and S.L. Lowrey. Sediment and water quality of freshwater wetlands in southwest Florida. Poster presented at the Society of Wetland Scientists Annual Meeting, Ann Arbor, MI. May 28-31.
- 1991        Shea, C., K.P. Rohrer, and K.J. Babbitt. The hydroecology of Deer Prairie Slough: A drainage impacted wetland. Presented at the Society of Wetland Scientists Annual Meeting, Ann Arbor, MI. May 28-31.

- 1991 Lincer, J.L., S.S. Lowrey, K.J. Babbitt, F.D. Calder, and S.J. Schropp. The Myakka River basin study: from science to environmental management. Poster presented at the Tampa BASIS meeting, Tampa, FL. May 9-11.
- 1991 Tanner, G.W. and K.J. Babbitt. Institute of Food and Agricultural Sciences' Agro-ecology Program at Buck Island Ranch. Poster presented at the Environmental Research at the University of Florida Fifth Annual Poster and Discussion Session, Gainesville, FL. November 5.
- 1992 Babbitt, K.J. and F. Jordan. Effects of habitat drying, density, and food on metamorphosis in southern leopard frogs, *Rana utricularia*. Presented at ESA Annual Meeting, Knoxville, TN. Aug. 7-11.
- 1995 Babbitt, K.J. Behavioral and life historical responses of southern leopard frog tadpoles to predators. Invited Speaker, Department of Wildlife Ecology and Conservation, University of Florida
- 1996 Babbitt, K.J. Factors influencing use of temporary wetlands in a hydrologically disturbed landscape: contrasts in anuran life history. Invited speaker, Natural Resources Department, University of New Hampshire.
- 1997 Hellyer, G., R. Hillger, R. Levey, K. Babbitt, T. Aylward, B. Caserto. Preliminary surveys for amphibian deformities in New England. Presented at the 2nd Annual Meeting of the Canadian Amphibian and Reptile Conservation Network, Acadia University, Wolfville, Nova Scotia. Oct. 3-6.
- 1997 Babbitt, K.J. and G.W. Tanner. Effects of cover and predator size on survival and development of *Rana utricularia* tadpoles. Presented at the American Society of Ichthyologists and Herpetologists Annual Meeting, Seattle, WA. June 26-July 2.
- 1997 Babbitt, K.J. and G.W. Tanner. Effects of cover and predator size on survival and development of *Rana utricularia* tadpoles. Presented at the Women in Science Poster Session. University of New Hampshire March 27.

- 1998 K.J. Babbitt. Ecology and management of vernal pools. Presented at the Habitat Outreach and Technical Assistance Training Meeting for Agency Personnel. Sponsored by NH Fish and Game and UNH Cooperative Extension. March 31.
- 1998 Babbitt, K.J and T. Aylward. Surveys in the Atlantic Coastal Plain of Massachusetts and New Hampshire. Presented at Amphibian Deformities - State of the Art EPA Workshop. Lexington, Ma. Feb.18.
- 1998 Aylward, T. and K.J. Babbitt. Abnormalities in anuran metamorphs: a preliminary survey in NH and MA. Presented at the Women in Science Poster Session. University of New Hampshire. March 25.
- 1998 Hellyer, G., K. Babbitt, T. Aylward, B. Caserto. Deformity surveys in the Atlantic Coastal Plain of Massachusetts and New Hampshire. Presented at the New England Assoc. of Environmental Biologists Annual Meeting. March 11-13.
- 1998 K.J. Babbitt. Use of temporary wetlands in a hydrologically altered landscape. Invited Speaker, Department of Wildlife Ecology, University of Maine. Nov. 9.
- 1999 K.J. Babbitt, S.A. Sower, H. Snook, and K.L. Reed. Endocrinology and deformities in amphibians in New England. Presented at the American Society of Ichthyologists and Herpetologists Annual Meeting, State College, PA. June 25-30.
- 1999 T.L. Tarr. and K.J. Babbitt. Effects of wetlands permanence on amphibian and aquatic insect assemblages. Presented at the American Society of Ichthyologists and Herpetologists Annual Meeting, State College, PA. June 25-30.
- 1999 G.E. Barr and K.J. Babbitt. Community ecology of stream salamander larvae. Presented at the American Society of Ichthyologists and Herpetologists Annual Meeting, State College, PA. June 25-30.
- 1999 H.L. Givens and K.J. Babbitt. Analysis of landscape characteristics influencing amphibian use of wetlands in the Merrimack River watershed, New Hampshire.

Presented at the American Society of Ichthyologists and Herpetologists Annual Meeting, State College, PA. June 25-30.

- 1999 K.J. Babbitt, H. Givens, and T. Tarr. Preliminary assessment of amphibian use of wetlands in the Merrimack River watershed. Fifty-fifth Annual Northeast Fish and Wildlife Conference. Manchester, NH. April 11-14.
- 1999 K.J. Babbitt, S.A. Sower, and K.L. Reed. Endocrinology and deformities in amphibians in New England. Northeast Regional Deformed Amphibian Conference. Concord, NH. April 8.
- 2000 K.J. Babbitt and H.L. Givens. Effects of upland landscape characteristics on amphibian use of wetlands. Invited speaker. Vernal Pools of the Northeast. Sponsored by EPA. Kingston RI March 31-April 1.
- 2000 T.L. Tarr and K.J. Babbitt. Effects of wetland hydroperiod on amphibians and aquatic insect predators. Vernal Pools of the Northeast. Sponsored by EPA. Kingston RI March 31-April 1.
- 2000 Sower, S.A., K.L. Reed, and K.J. Babbitt. Limb deformities and abnormal sex hormone concentrations in frogs. Twenty seventh New England Endocrinology Conference. October 28. University of New Hampshire, Durham, NH.
- 2000 Babbitt, K.J. Setting research priorities for amphibians in New Hampshire: Building a research program within the framework of the land grant mission. Invited speaker. Warnell School of Forest Resources, University of Georgia. October 30.
- 2001 O'Brien, K.M., K.J. Babbitt, M.J. Ducey, and J.H. Gove. A field test of point relascope sampling for coarse woody material and salamander inventory. 57<sup>th</sup> Annual Northeast Fish and Wildlife Conference. Saratoga Springs, NY. April 22-25.
- 2001 Babbitt, K.J. Upland-wetlands linkages: the role of wetland hydroperiod and upland landscape features on amphibian populations. Symposium on Forested Floodplain

Habitats. NH Department of Environmental Services.  
Concord, NH. October 30.

- 2001 Babbitt, K.J. Conserving upland-wetland linkages for amphibian conservation. Invited speaker, Biological Sciences Dept., Trinity College. Nov. 8.
- 2002 Babbitt, K.J. Habitat requirements and conservation needs for New Hampshire's wetland-dependent herpetofauna: the importance of linking wetland and upland management. Thinking Big. Landscape-scale conservation in New Hampshire: Scientific underpinnings, planning, and practice. Invited speaker. Co-sponsored by The Nature Conservancy, NH Ecological reserve System Project, Society for the Protection of New Hampshire Forests, and the U.S. EPA. NH Technical Institute. Jan 9.
- 2002 Baber, M.J. and K.J. Babbitt. Importance of upland habitat for amphibians using vernal pools. 82nd New England Society of American Foresters Winter Meeting: Forestry in the Fragmentation Puzzle. Manchester, NH. March 26-28, 2002.
- 2002 Barr, G.E. and K.J. Babbitt. Effects of biotic and abiotic factors on the distribution and abundance of two-lines salamanders across spatial scales. Fifty-eighth annual Northeast Fish and Wildlife Conference. Portland, ME. April 21-24.
- 2002 Stacia S.A., K. J. Babbitt, R. Rolland, F. Quimby, K. L. Reed, C. Bourn, and E.M LaFiandra. Limb and Gonad Deformities and Abnormal Sex Hormone Concentrations in Frogs. Gordon Conference. South Hadley, MA. July 14-19.
- 2002 Babbitt, K.J. Managing amphibians: the upland-wetland connection. Northern New England Vernal Pool Workshop. DES. Concord, NH. Dec. 6.
- 2003 Babbitt, K.J. Managing amphibians: the upland-wetland connection. NEBAWWG Annual Meeting. Portsmouth, NH. Jan. 15-16.
- 2003 Baber, M.J., K.J. Babbitt, and T.L. Tarr. Changes in macroinvertebrate community structure across the wetland hydroperiod gradient. Wildlife Society 10th Annual Conference, Burlington, VT. Sept. 6-10.

- 2003 Babbitt, K.J. and M.J. Baber. Factors influencing the conservation value of mesic ranchland for amphibians. Third International Wildlife Management Congress, Christchurch, New Zealand. Dec. 1-5.
- 2004 Stacia S.A., K. J. Babbitt, R. Rolland, F. Quimby, K. L. Reed, C. Bourn, and E.M LaFiandra. Limb and Gonad Deformities and Abnormal Sex Hormone Concentrations in Frogs. Society for Integrative and Comparative Biology Annual, Meeting New Orleans, LA Jan. 5-9
- 2004 Babbitt, K.J. Home, home on the created range: do Florida's ranch lands provide conservation value for anurans? Invited speaker, University of Massachusetts, Amherst, MA. Feb. 23.
- 2004 Babbitt, K.J. Blanding's turtles in New Hampshire. Invited speaker. New England Regional Blanding's Turtle Meeting. Concord, NH Feb. 4.

#### **GRADUATE STUDENTS AND THEIR RESEARCH TOPIC**

- Garrett Barr - Effects of biotic and abiotic factors on larval Plethodontid salamanders. (M.S. May 2000)
- Tracy Tarr - Patterns of larval amphibian and aquatic insect distribution: Effects of hydroperiod. (M.S. May 2000)
- Heather Givens - Effects of upland landscape characteristics on wetland use by amphibians. (M.S. September 2000)
- Sara Callaghan - Effects of forest disturbance on red-backed salamanders (*Plethodon cinereus*). (M.S. December 2001)
- Emily LaFiandra - Phenotypic plasticity in larval amphibians: effects of multiple stressors. (M.S. December 2001)
- Lisa Plagge - Sublethal effects of herbicides on amphibian larvae. (M.S. expected August 2004)
- Rebecca Suomala - Influence of habitat on stopover behavior of neotropical migrants (M.S. expected August 2004)
- Garrett Barr - Effects of different top predators on stream food webs. (Ph.D. expected May 2005)

Emily LaFiandra - Effects on environmental chemicals on amphibian endocrine function. (Ph.D. expected May 2005)

Katherine Hughes - Effects of unbanization and development on the spatial distribution of wetlands in New Hampshire. (M.S. expected May 2005) co-chair with R. Congalton

Sandra Mattfeldt - Effect of wetland spatial distribution on function value for wetland-dependent species. (M.S. expected Dec 2005)

Nicole Friedenfelds - Using wood frog (*Rana sylvatica*) home range and dispersal patterns to predict terrestrial buffer zone requirements in a Maine forest. (M.S. expected Dec. 2006)

Megan McElroy - Defining limits to sparrow nest success in New Hampshire salt marshes. (M.S. expected Dec 2006)

#### **UNDERGRADUATE RESEARCH FELLOWSHIP ADVISEES**

Sarah Holt - Effect of soil characteristics and elevation on red-backed salamander distribution. (Honors Thesis advisor) (1997)

Ellen Jedrey - The role of wetland vegetation in the colonization of created wetlands by amphibians and macroinvertebrates. (1997)

Kristin Bird - The influence of beaver impoundments on amphibian and avian biodiversity along woodland streams. (Honors Thesis Advisor)(1998)

Joshua Traylor - Effects of abiotic factors on the distribution and abundance of stream-breeding salamanders in the White Mountains. (1998)

Megan Cole - Effects of wetland hydroperiod on amphibian species richness. (1999)

Christopher Meaney - Effects of wetlands size on amphibian species richness in southern New Hampshire. (1999)

Jennifer Clancy - Effects of hammock size on treefrog distribution. (2000)

Shutt, Angelic - Habitat use and movement patterns of Blanding's turtles (*Emydoidea blandingii*) in southern New Hampshire. (2001)

Shutt, Angelic - A comparison of two broadcast survey techniques for northern goshawks in New Hampshire. (2002)

Bean, Lucas - Invertebrate behavior in response to the presence of brook trout. (2002)

McKibben, Matthew - Experimental effects of predation pressures on the activity and abundance of stream macroinvertebrates. (2003)

Graiff, Kaitlin - Effects of human disturbance on behavior of the wrybill, *Anarhynchus frontalis*.

#### **OUTREACH AND SERVICE**

1987-1988      President, Association of Graduate Wildlife and Fisheries Scientists, Texas A&M University

1987            Co-organizer of Conference; "Fragile Communities: Ecological Perspectives in the Americas". Texas A&M University

1989-1991      Member, Technical Advisory Committee, Sarasota Bay National Estuary Program

1992-1993      Treasurer, Wildlife Graduate Student Association, University of Florida

1992-1993      Member, American Society of Ichthyologists and Herpetologists Committee on Graduate Student Participation

1993            Graduate Student Representative of Search Committee; Quantitative Community Ecologists, University of Florida

1993-1994      Co-chair, Graduate Student Invited Speaker Program, University of Florida

1993-1994      President, Wildlife Graduate Student Association, University of Florida

1995            Chief Organizer, Third Annual Florida Ecological and Evolutionary Symposium, Archbold Biological Station

1997-1999      Summer TA Fellowship Committee

1998            Search Committee; Forest Biometrics

1998-2000      Search Committee; Watershed Hydrologist

1996-2003      Faculty Advisor, Student Chapter of The Wildlife Society

1998            Reviewer for CICEET proposal

1999 Reviewer for Maine Agricultural and Forest  
Experiment Station Project Proposal

1997-1999 Coordinator, Women in Science Poster Session

1997 Production Editor, Northeast Wildlife

1998-2000 Production and Copy Editor, Northeast Wildlife

1998-2000 Search and Screen Committee, Hubbard Chair in  
Genomics

1999- Member, Ecoreserve Selection and Design Criteria  
Working Group, NH Ecological Reserve System  
Project

1999- Scientific Peer Reviewer, Sustainable Ecosystems  
Institute

2000 Reviewer, White Mountain National Forest  
Biodiversity Conservation Planning Process

2000 Reviewer for NERC proposals

2001 Member, UNH IACUC

2001- Member, Dept. of Natural Resources Tenure and  
2002 Review Criteria Committee

2001- Farrington Fund Committee, Chair 2002-2003  
2003

2002 Expert Panel Member, Herpetofaunal Species  
Viability Evaluations for the White and Green  
Mountain National Forests

2002-2003 Member, Senate Ad Hoc Committee on Discovery  
Program Implementation

2002-2003 Member, Committee on First Year Experience

2002- Member, University Committee on Study Abroad

2002 Co-organizer, Workshop/conference for the Northern  
New England Vernal Pool Workgroup

2003 Reviewer, grant proposals to Senator George J.  
Mitchell Center for Environmental and Watershed  
Research

2004- Member, UNH IACUC

## **Ad hoc Reviewer of Manuscripts in Scientific Journals**

Applied Ecology  
Biological Journal of the Linnean Society  
Canadian Journal of Zoology  
Conservation Biology  
Copeia  
Environmental Management  
Ethology  
Ethology, Ecology & Evolution  
Herpetologica  
Journal of Applied Ecology  
Journal of Herpetology  
Northeast Wildlife  
Wetlands  
Wildlife Society Bulletin

## **MEMBERSHIP IN PROFESSIONAL AND HONORARY ORGANIZATIONS**

Society for Conservation Biology  
Ecological Society of America  
Organization of Tropical Studies  
Society for the Study of Amphibians and Reptiles  
America Society of Ichthyologists and Herpetologists  
New Hampshire Reptile and Amphibian Conservation Committee  
The Wildlife Society  
Alpha Zeta  
Society of Sigma Xi  
Xi Sigma Pi

## REFERENCES

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