

## **CURRICULUM VITAE**

**Susan Adlai Foster**

Department of Biology  
Clark University  
Worcester, MA 01610-1477

Tel: (508) 793-7204  
Fax: (508) 793-7174  
sfoster@clarku.edu

### **ACADEMIC APPOINTMENTS:**

- 2006- Professor, Department of Biology, Clark University, Worcester, MA
- 2005- Chair, Department of Biology, Clark University, Worcester MA
- 1995-2006 Associate Professor, Department of Biology, Clark University, Worcester, MA
- 1990-1995 Assistant Professor, Department of Biological Sciences, University of Arkansas, Fayetteville, Arkansas 72701 (tenure and promotion awarded 1995)
- 1988-1990 Visiting Assistant Professor, Department of Ecology and Evolution, State University of New York at Stony Brook Stony Brook, New York 11794
- 1985-1988 Post-doctoral Research Associate, Department of Ecology and Evolution, SUNY, Stony Brook, NY 11794

### **EDUCATION**

- Ph.D. Department of Zoology, University of Washington, Seattle, Washington 98195. 1984.
- B.S. Botany and Zoology, University of Wisconsin, Madison, Wisconsin 53706. 1975.
- 1970-1973 Antioch College, Yellow Springs, Ohio 45387.

### **FELLOWSHIPS AND AWARDS**

- 2008-2011 Warren Litsky Endowed Chair in Biology
- 2008-2012 Elected President, Animal Behavior Society (08-09 second president elect; 09-10 first president elect; 10-11 President; 11-12 Past-President)
- 2004 Fellow, Animal Behavior Society

- 1992 National Science Foundation Presidential Faculty Fellowship (5 yr)
- 1985 Department of Health and Human Services NRSA (NIMH; 3 yr).
- 1988 National Science Foundation Grant for travel to the XXI International Ethological Conference in Utrecht, The Netherlands. Awarded by the USECC.
- 1980 Smithsonian Institution Walter Rathbone Bacon Predoctoral Fellowship (2 yr)
- 1977 National Science Foundation Graduate Fellowship Award (3 yr)

## **RESEARCH GRANTS**

- 1979, 1980 Lerner Gray Fund for Marine Research, Grants in Support of Marine Research
- 1979 Sigma-Xi, Grant in Aid of Research
- 1981 National Science Foundation, Doctoral Dissertation Improvement: \$7,850, 2 yr.
- 1991 National Science Foundation, Research Grant. \$55,000; (Foster & Baker) 1yr.
- 1992 National Science Foundation REU supplement; \$10,000; 1 yr.
- 1992 National Science Foundation Presidential Faculty Fellowship; \$500,000; 5yr.
- 1993-1997 National Science Foundation REU supplements. \$40,000 in total.
- 1998 National Science Foundation DIG for William A. Cresko. \$7,500 2 yr.
- 2005-2008 National Science Foundation Research Grant (IOB 0526062; \$574,548 w/ J. Baker)  
Ancestral Plasticity and Mating System Evolution in the Stickleback Radiation
- 2005 National Science Foundation REU supplement \$18,000 to date.
- 2006 Keck Foundation, "Complementary Curricular Network Project, Project Director S. Foster, Co-Directors: T. Livdahl, D. Robertson, D. Hibbett. \$300,000.
- 2006 National Institutes of Health: National Research Service Award for Matthew Wund. ca: \$150,000 over three years.

## **PROFESSIONAL EXPERIENCE**

- 1981, 1982 Chief Scientist, Research Vessel Benjamin, Smithsonian Tropical Research Institute

- 1991 Consultant to the British Broadcasting Corporation Open University Production Centre during development and filming of "Central Questions of Ethology".
- 1991 Consultant to the State of Hawaii Department of Land and Natural Resources. Development of a Census method for an endemic stream fish under consideration for listing as an endangered species.

## TEACHING EXPERIENCE

- 1978-1983 Teaching Assistant; Department of Zoology, U. of Washington. Ecology, Introductory Genetics and Cell Biology, Introductory Botany and Ecology, Invertebrate Zoology, Natural History of Marine Invertebrates.
- 1985 Instructor; Department of Zoology, U. of Washington, Human Physiology.
- 1988-1990 Visiting Assistant Professor, Department of Ecology and Evolution, State University of New York, Stony Brook, New York. Basic Ecology, Animal Behavior, Graduate Seminars on Behavior Evolution and Evolution of Communication Systems. Undergraduate Research Advisor.
- 1990-1995 Assistant Professor, Department of Biological Sciences, University of Arkansas, Fayetteville, AR. Evolutionary Biology (undergraduate), General Zoology, Introductory Biology, Principles of Evolution (graduate), Graduate Seminars in Ecology and Evolution, Research Grant Proposal Writing for Graduate Students.
- 1995- Associate Professor, Department of Biology, Clark University, Worcester MA.  
 Biodiversity (co-taught, w/ lab) 2000  
 Evolution (w/ lab) 1996, 1997, 1998, 1999, 2000, 2002, 2004, 2005; 2006; 2007  
 Ecological Systems (co-taught) 1996, 1997, 1998, 1999  
 Introductory Biology (102; co-taught, w/lab): 1996, 1997, 1998, 1999, 2000, 2001, 2003, 2004; 2005  
 Introductory Biology (101; co-taught, w/lab): 2005  
 Introductory Biology (101/103, co-taught w/lab); 2006  
 Animal Behavior (w/lab): 1997, 1999, 2003, 2005, 2007  
 Seminar in Conservation Biology: 2000, 2004, 2006  
 Seminars in Evolution and Behavior: 1996, 1998

## PROFESSIONAL SERVICE

- 2007-2010 Action Editor, Animal Behaviour
- 2006 Panelist, National Science Foundation Animal Behavior Panel
- 2005 Judge, Allee Award, Animal Behavior Society

- 2002- North American Editor, *Ethology*
- 2001-2006 Editorial Board, *Journal of Comparative Psychology*
- 2000 Panelist, National Science Foundation Population Biology Panel
- 1999 Panelist, National Science Foundation Animal Behavior Panel
- 1999-2004 Board of Governors, American Society of Ichthyologists and Herpetologists.
- 1997 Committee Member, Committee of Visitors, Division of Integrative Biology and Neurosciences, National Science Foundation. July 1997.
- 1996-1999 Secretary, Animal Behavior Society (Re-elected).
- 1995 Panelist, Systematic and Population Biology Cluster (National Science Foundation, October, 1995).
- 1993-1996 Secretary, Animal Behavior Society (Elected Office).
- 1994 Committee Member, Committee of Visitors, Physiology and Behavior Cluster of the National Science Foundation. September 1994.
- 1994-1998 Editorial Board, *Copeia* (Journal of the American Society of Ichthyologists and Herpetologists).
- 1994 Panelist, Leadership Opportunity in Science and Humanities Education (National Endowment for the Humanities, National Science Foundation, & Foundation for the Improvement of Postsecondary Education in the United States. April 1994)
- 1993 Panelist, Presidential Faculty Fellowship Awards (National Science Foundation; February 1993).
- 1993 Panelist. Dissertation Awards (National Science Foundation; May 1993)
- 1984- **Manuscript reviews for** Acta Sinica, American Naturalist, Animal Behaviour, Behavioral Ecology, Behavioral Ecology and Sociobiology, Behaviour, Bioscience, Canadian Journal of Fisheries and Aquatic Sciences, Canadian Journal of Zoology, Copeia, Ecology, Ecology of Freshwater Fish, Environmental Biology of Fish, Ethology, Evolution, Evolutionary Ecology, Herpetology, Journal of Comparative Psychology, Journal of Fish Biology, Molecular Ecology, Oecologia, PLoS Biology, Proceedings of the National Academy of Science, Proceedings of the Royal Society of London, Reviews in Fish Biology and Fisheries, Vegetatio.
- 1984- **Grant Proposal Reviews for** NSF, NERC (National Environmental Research Council, U.K.), NSERC (National Sciences and Engineering Research Council of Canada), NIGEC (National Institute for Global Environmental Change), the NOAA National Underwater Research Council and the Animal Behavior Society

#### **CLARK UNIVERSITY SERVICE:**

- 1996-1999 College Board
- 1996- George Perkins Marsh Institute Steering Committee
- 1995-2000 Environmental School Steering Committee
- 1995- Environmental Science and Policy Program Steering Committee
- 1999-2001 University Committee on Personnel
- 2002-2003 Chair, University Committee on Personnel; member University Steering Committee

Fall 2004 Acting Chair, Biology  
2005- Chair, Department of Biology  
2006- Steering Committee, Environmental Science Major  
2007-2008 Chair, University Planning and Budget Review Committee  
Member, University Steering

## **SYMPOSIUM / WORKSHOP ORGANIZATION**

2007-2009 NESCent Working Group on Relaxed Selection and Trait Loss in Evolution. Co-Coordinator with D. Lahti.  
2007 The Evolution of Behavioral Phenotypes, Society for the Study of Evolution 2006 meeting. Co-organizer with J. True.  
2007 5<sup>th</sup> International Symposium on Stickleback Behavior and Evolution (2006, Anchorage, Alaska). Co-organizer with M.A. Bell, W. Cresko and F. von Hippel.  
1991 Evolutionary Implications of Geographic Variation in Behavior Animal Behavior Society, Wilmington N.C., May 1991.

## **PRESENTED PAPERS**

1984 Animal Behavior Society; American Society of Zoologists.  
1986 American Society of Ichthyologists and Herpetologists.  
1987 Animal Behavior Society; American Society of Ichthyologists and Herpetologists; International Ethological Conference - XX.  
1989 Animal Behavior Society; Society for the Study of Evolution; American Society of Ichthyologists and Herpetologists; International Ethological Conference - XXI.  
1990 American Society of Ichthyologists and Herpetologists  
1991 Animal Behavior Society, Society for the Study of Evolution  
1992 American Society of Ichthyologists and Herpetologists (2 invited papers), Animal Behavior Society, Fisheries Society of the British Isles (Keynote address).  
1993 Animal Behavior Society  
1994 Animal Behavior Society, Stickleback Behavior Symposium  
1995 Animal Behavior Society  
1996 Animal Behavior Society, Discussion Meeting, Royal Society of London  
1997 Animal Behavior Society  
1999 Animal Behavior Society  
2002 Animal Behavior Society, American Society of Ichthyologists and Herpetologists  
2005 Animal Behavior Society  
2006 Society for the Study of Evolution (1); Fifth International Stickleback Conference (2)  
2007 Animal Behavior Society

## **INVITED LECTURES**

1983 Department of Biological Sciences, University of Sussex

1986 Department of Zoology, University of California, Berkeley  
1986 Division of Environmental Sciences, University of California, Davis  
1986 Department of Biology, Yale University  
1987 Behavioral Biology Colloquium, SUNY, Stony Brook, NY  
1987 Department of Ecology and Evolution, Stony Brook, NY  
1987 Department of Biology, University of Laval, Quebec  
1988 Department of Biology, University of Nebraska, Lincoln  
1989 Department of Zoology, University of Tennessee, Knoxville  
1990 Department of Biology, Eastern Michigan University, Ypsilanti  
1990 Department of Zoology, University of Arkansas, Fayetteville  
1990 Department of Zoology, University of Rhode Island  
1990 Department of Ecology & Evolution, U. of California, Irvine  
1991 Department of Biology, Indiana University  
1991 Department of Biology, Purdue University  
1992 Department of Ecology, Evolution and Organismal Biology, Tulane University  
1992 Symposium on Ecomorphology, American Society of Ichthyologists and Herpetologists  
1992 Symposium on Phylogeny and Behavior, American Society of Ichthyologists and Herpetologists  
1992 Keynote Address, Fisheries Society of the British Isles, Twenty Fifth Anniversary Meeting  
1992 Sigma Xi; Regional Chapter seminar series.  
1994 Department of Zoology, Oklahoma State University  
1994 Department of Zoology, University of Vermont  
1994 Symposium on the Comparative Method in Behavior. Animal Behavior Society  
1994 Symposium on the Behavior of Stickleback, Leiden, Netherlands  
1994 Department of Zoology, Washington State University (invited)  
1994 Department of Biology, University of Alaska, Anchorage  
1994 Department of Zoology, University of Missouri, Columbia  
1995 Department of Zoology, Northeastern State University  
1995 Department of Biology, Clark University  
1996 Inaugural Conference of the Environmental School of Clark University  
Biodiversity Preservation Session Speaker  
1996 Department of Ecology Evolution and Behavior, University of Minnesota  
1996 Population Biology Program, University of California, Davis  
1996 Department of Biological Sciences, Binghamton University  
1996 Lewontin Laboratory Seminar Series, Harvard University  
1997 Discussant, Royal Society of London Discussion Meeting on the Evolution of Diversity and Speciation  
1998 Ecology and Evolution, University of Arizona  
1998 Ecology and Evolutionary Biology, Brown University  
1998 Zoology, University of New Hampshire  
1998 Biology, Union College  
1999 Zoology, University of Maine

- 2000 College of Rhode Island  
 2002 Zoology, University of Tennessee (Graduate Student Choice)  
 2003 Keynote Address, 4<sup>th</sup> International Symposium on Stickleback Behavior and Evolution (cancelled due to illness)  
 2004 Ecology and Evolution; State University of New York  
 2004 University of Wisconsin, Madison, Behavior Colloquium  
 2004 University of Massachusetts, Amherst  
 2005 Molecular Genetics of Stickleback Course, Stanford University, NIH funded, Invited speaker and participant  
 2007 Skidmore College, Saratoga Springs, NY  
 2007 Distinguished Seminar Speaker, W.M. Keck Center for Behavioral Biology, North Carolina State University  
 2008 Boston University, program in Ecology, Behavior and Evolution  
 2008 Tufts University Veterinary School (Invited, Fall 2008)  
 2009 University of California at Los Angeles (Invited, Spring 2009)

#### **PROFESSIONAL AFFILIATIONS:**

American Society of Ichthyologists and Herpetologists  
 American Society of Naturalists  
 Animal Behavior Society  
 International Society for Behavioral Ecology  
 The Society for the Study of Evolution

#### **BOOK REVIEWS**

- A Functional Biology of Sticklebacks. R.J. Wootton. University of California Press, Berkeley and Los Angeles, 1984. Quarterly Review of Biology. 60:520 (1985).  
 Interpretation and Explanation in the Study of Animal Behavior, Volumes I & II. Beckoff M. and D. Jamieson (eds.), 1990. Quarterly Review of Biology., 67:82-83 (1992)  
 The Evolutionary Process. A critical study of evolutionary theory. V. Grant, Columbia University Press, New York, 1991. Quarterly Review of Biology. 68: 107 (1993).  
 Phylogeny, Ecology and Behavior. Brooks, D. and D. McLennan, 1991. Ecology 75:261-262 (1994).  
 Animal Behavior, an Evolutionary Approach. J. Alcock, 1993. Quarterly Review of Biology. 69: 304-305 (1994).  
 The Beak of the Finch. Jonathan Wiener, 1994. Quarterly Review of Biology. 70:545-546 (1995).  
 Sex, Color and Mate Choice in Guppies, 1997, A.E. Houde. Quarterly Review of Biology (1999) 74:251-252.  
 Spatial Representation in Animals. 1998, S. Healy, Quarterly Review of Biology (2000) 75:353.  
 Animal Traditions: Behavioral Inheritance in Evolution. 2000, E. Avital & E. Jablonska. Trends in Ecology and Evolution (2002) 17:198.

Microevolution: Rate, pattern and process. 2001, A.P. Hendry and M.T. Kinnison. *Quarterly Review of Biology* (2003) 78: 358-359.

Evolutionary Ecology: The Trinidadian Guppy. A.E. Magurran. *Quarterly Review of Biology* 82:

Biology of the Three-Spined Stickleback. Ostlund-Nilsson, S., I. Mayr, and F.A. Huntingford (eds). *Integrative and Comparative Biology* (2007) 47(6): 900-901.

Fish Cognition and Behavior. Brown, C., K. Laland and J. Krause (eds.). 2006. *Reviews in Fish Biology and Fisheries* (2008) 18:131-132.

## **OTHER PUBLICATIONS**

Hrdy, S.B., P. Rodman, E.L. Charnov, J. Seger, K. Hawkes, S.T. Emlen, S.A. Foster, P.A. Gowaty, D. Haig, M. Hauser, L.F. Jacobs, and B.B. Smuts. 1996. Sociobiology's successes. *Letter. Science* 274:162-163.

Foster, S.A. 2004. Bill Rowland 1943-2004. *Behaviour* 141:1327-1330.

## **DISSERTATION**

Foster, S.A. 1984. Ecological consequences and evolutionary implications of group foraging by coral reef fishes. Ph.D. Dissertation. University of Washington, Seattle, Washington.

## **EDITED VOLUMES**

Bell, M.A. and S.A. Foster (eds.) 1994. *The Evolutionary Biology of the Threespine Stickleback*. Oxford University Press, 555pp.

Foster, S.A. and Endler, J.A. (eds.) 1999. *Geographic Variation in Behavior; Perspectives on Evolutionary Mechanisms*. Oxford University Press.

## **PUBLICATIONS**

Robertson, D.R. and S.A. Foster. 1982. Off-reef emigration of young adults of the labrid fish *Epibulus insidiator*. *Copeia*, 1982(1):227-229.

Foster, S.A. 1985a. Group foraging by a coral reef fish: A mechanism for gaining access to defended resources. *Animal Behaviour* 33:782-793.

Foster, S.A. 1985b. Size-dependent territory defense by a damselfish as a determinant of resource use by group-foraging surgeonfishes. *Oecologia* 67: 499-505.

Foster, S.A. 1985c. Wound healing: A possible role of cleaning stations. *Copeia* 1985(4):875-880.

Foster, S.A. and C.H. Janson. 1985. The relationship between seed size and establishment conditions in tropical woody plants. *Ecology* 66:773-780.

Foster, S.A. 1986. On the adaptive value of large seeds for tropical moist forest trees: A review and synthesis. *Botanical Review* 52: 260-299.

- Foster, S.A. 1987a. Acquisition of a defended resource: A benefit of group foraging for the neotropical wrasse, *Thalassoma lucasanum*. *Environmental Biology of Fish* 19:215-222.
- Foster, S.A. 1987b. Diel and lunar patterns of reproduction in the Caribbean and Pacific sergeant major damselfishes: *Abudefduf saxatilis* and *A. troschelii*. *Marine Biology* 95: 333-343.
- Foster, S.A. 1987c. Territoriality of the dusky damselfish: Influence on algal biomass and on the relative impacts of grazing by fishes and *Diadema*. *Oikos* 50:153-160.
- Foster, S. A. 1987d. The relative impacts of grazing by Caribbean coral reef fishes and *Diadema*: Effects of habitat and surge. *Journal of Experimental Marine Biology and Ecology* 105: 1-20.
- Foster, S.A. 1988. Diversionary displays of paternal sticklebacks: defenses against cannibalistic groups. *Behavioral Ecology and Sociobiology* 22: 335-340.
- Foster, S.A., V.B. Garcia, and M.Y. Town. 1988. Cannibalism as a cause of ontogenetic shifts in resource use by fry of the threespine stickleback (*Gasterosteus aculeatus*). *Oecologia* 74:577-585
- Foster, S.A. 1989. The implications of divergence in spatial nesting patterns in the geminate Caribbean and Pacific sergeant major damselfishes. *Animal Behavior* 37: 465-476.
- Foster, S.A. 1990. Courting deception in cannibal territory. *Natural History*. 11/90: 52-61.
- Foster, S.A. and S.A. Ploch. 1990. Determinants of variation in antipredator behavior of territorial male threespine stickleback in the wild. *Ethology* 84:281-294.
- Foster, S.A., J.A. Baker and M.A. Bell. 1992. Phenotypic integration of life history and morphology: an example from three-spined stickleback, *Gasterosteus aculeatus* L. *Journal of Fish Biology* 41 (Supplement B): 21-35.
- Goldschmidt, T., S.A. Foster and P. Sevenster 1992. Internest distance and sneaking in the three-spined stickleback. *Animal Behaviour* 44:793-795.
- Baker, J.A. and S.A. Foster. Observations on a foraging association between two freshwater fishes. *Ecology of Freshwater Fishes*, 3: 137-139.
- Baker, J.A., K.J. Killgore, and S.A. Foster. 1994. Population variation in spawning current speed selection in the blacktail shiner, *Cyprinella venusta* (Pisces: Cyprinidae). *Environmental Biology of Fish* 39:357-364.
- Bell, M.A. and S.A. Foster. 1994. Introduction to the evolutionary biology of the threespine stickleback. pp. 1-27 In: *The Evolutionary Biology of the Threespine Stickleback*. M.A. Bell and S.A. Foster (eds.). Oxford University Press
- Foster, S.A. 1994. The evolution of courtship and parental care behavior in threespine stickleback. pp 381-398 In: *The Evolutionary Biology of the Threespine Stickleback*. M.A. Bell and S.A. Foster (eds.). Oxford University Press
- Foster, S.A. 1994. Inference of evolutionary pattern: diversionary displays of threespine stickleback. *Behavioral Ecology* 5:114-121.
- Foster, S.A. and M.A. Bell. 1994. Inference of evolutionary pattern: The value of stickleback-tinted lenses. pp 472-486 In: *The Evolutionary Biology of the Threespine Stickleback*. M.A. Bell and S.A. Foster (eds.). Oxford University Press
- Baker, J.A., S.A. Foster and M.A. Bell. 1995. Armor morphology and life history in threespine stickleback *Gasterosteus aculeatus* L. *Environmental Biology of Fish* 44:225-233.
- Foster, S.A. 1995. Opportunism, adaptation and chance in the design of display behavior. *Perspectives in Ethology* 11:61-81.
- Foster, S.A. 1995. Understanding the evolution of behaviour in threespine stickleback: the

- value of geographic variation. *Behaviour* 132:1107-1129.
- Foster, S.A. and J.A. Baker. 1995. Evolutionary interplay between ecology, morphology and reproductive behavior in threespine stickleback (*Gasterosteus aculeatus* L.). *Environmental Biology of Fish* 44:213-233..
- Willmott, H.E. and S.A. Foster. 1995. The effects of rival male interaction on courtship and parental care in the fourspine stickleback, *Apeltes quadracus*. *Behaviour* 132:997-1010.
- Foster, S.A. and S.A. Cameron. 1996. Geographic variation in behavior: A phylogenetic framework for comparative studies. Pp. 138-165 in: *Phylogenies and the Comparative Method in Animal Behavior* (E. Martins, Ed.). Oxford University Press, New York.
- Foster, S.A., W.A. Cresko, K.P. Johnson, M.U. Tlusty, and H.E. Willmott. 1996. Patterns of homoplasy in behavioral evolution. Pp. 245-269 in: *Homoplasy and the Evolutionary Process*. M.J. Sanderson and L. Hufford (eds.). Academic Press, New York.
- Baker, J.A., S.A. Foster, D.C. Heins, and M.A. Bell. 1998. Variation in female life-history traits among eight Alaskan populations of threespine stickleback, *Gasterosteus aculeatus*, L. (Pisces: Gasterosteidae). *Biological Journal of the Linnean Society* 63:141-159.
- Foster, S.A., Scott, R.J., and W.A. Cresko. 1998. Nested biological variation and speciation. *Philosophical Transactions of the Royal Society of London, B*. 353L207-218.
- Rodewald, A.D. and S.A. Foster. 1998. Effects of gravidity on habitat use and antipredator behavior in threespine stickleback. *Journal of Fish Biology*, 52: 973-984.
- Foster, S.A. and J.A. Endler. 1999. Introduction and aims. In: *The Evolution of Geographic Variation in Behavior: Perspectives on Evolutionary Mechanisms*. S.A. Foster and J.A. Endler (eds.) Oxford University Press, Oxford.
- Foster, S.A. and J.A. Endler. 1999. Thoughts on geographical variation in behavior. In: *The Evolution of Geographic Variation in Behavior: Perspectives on Evolutionary Mechanisms*. S.A. Foster and J.A. Endler (eds.) Oxford University Press, Oxford.
- Ness, J. and S.A. Foster. 1999. Parasite-associated phenotype modifications in threespine stickleback. *Oikos* 85:127-134.
- Foster, S.A. 1999. The geography of behavior: An Evolutionary Perspective. *Trends in Ecology and Evolution* 44:190-195.
- Scott, R.J., and S.A. Foster. 2000. Field data do not support a textbook example of convergent character displacement. *Proceedings of the Royal Society of London Ser. B*. 267:1-6.
- Sillett, K.B., and S.A. Foster. 2000. Ontogenetic niche shifts in two populations of juvenile threespine stickleback, *Gasterosteus aculeatus*, that differ in pelvic spine morphology. *Oikos* 91: 468-476.
- Luttbegg B., Towner M.C., Wandesforde-Smith A., Mangel M., and S.A. Foster 2001. State dependent mate assessment and mate selection behavior in female threespine sticklebacks (*Gasterosteus aculeatus*). *Ethology* 107:545-558.
- Baker, J.A. and S.A. Foster. 2002. Phenotypic plasticity for life-history traits in a stream population of the threespine stickleback (*Gasterosteus aculeatus*). *Ecology of Freshwater Fish* 11:20-29.
- Foster, S.A., J.A. Baker and M.A. Bell. 2003. The case for conserving threespine stickleback populations: Protecting an adaptive radiation. *Fisheries* 28:10-18.
- Foster, S. A. and J.A. Baker 2004. Evolution in parallel: new insights from a classic system. *Trends in Ecology and Evolution*, 19, 456-459.
- Baker, J. A., Cresko, W. C., Foster, S. A. and D.C. Heins. 2005. Life-history differentiation of benthic and limnetic ecotypes in a polytypic population of threespine stickleback

- (*Gasterosteus aculeatus*). Evolutionary Ecology Research 7:121-131.
- Scotti, M.L. and S.A. Foster. 2007. Phenotypic plasticity and the ecotypic differentiation of aggressive behavior in threespine stickleback. *Ethology* 113: 190-198.
- Shaw, K.A., M.L. Scotti and S.A. Foster. 2007. Ancestral plasticity and the evolutionary diversification of courtship behaviour in threespine stickleback. *Animal Behaviour* 73:415-422.
- Messler, A., M.A. Wund, J.A. Baker and S.A. Foster 2007. The effects of relaxed and reversed selection by predators on the antipredator behavior of the threespine stickleback, *Gasterosteus aculeatus*. *Ethology* 113:953-963.
- Sparkes, T.C., V. Rush and S.A. Foster 2007. Energy constraints and carotenoid-based colour in natural populations of threespine stickleback. *Ecology of Freshwater Fish*  
doi:10.1111/j.1600-0633.2007.00279.x
- Baker, J.A., D.C. Heins, S.A. Foster and R.W. King 2008. An overview of life-history variation in female threespine stickleback: Patterns, scales and trait integration. *Behaviour* 145: 579-602.
- Foster, S.A., K.A. Shaw, K.L. Robert and J.A. Baker 2008. Benthic, limnetic and oceanic threespine stickleback: Profiles of reproductive behavior. *Behaviour* 145:485-508.
- Wund, M.A., J.A. Baker, B. Clancy, J.L. Golub and S.A. Foster. A test of the 'flexible stem' model of evolution: ancestral plasticity, genetic accommodation, and morphological divergence in the threespine stickleback radiation. *American Naturalist*, in press.

#### **OTHER GRADUATE STUDENT PUBLICATIONS FROM THE LAB:**

- Artiss, T. 1997. A possible andromorph of *Libellula jesseana* Williamson (Anisoptera: Libellulidae). *Notul. Odontol.* 4:137-138.
- Artiss, T. 2001. Structure and function of male genitalia in *Libellula*, *Ladona* and *Plathemis* (Anisoptera: Libellulidae). *Odontologica* 30:13-27.
- Artiss, T., T.R. Schultz, D.A. Polhemus and C. Simon. 2001. Molecular phylogenetic analysis of the dragonfly general *Libellula*, *Ladona* and *Plathemis* (Odonata: Libellulidae) based on mitochondrial cytochrome oxidase I and 16s rRNA sequence data. *Molecular Phylogenetic Evolutions* 18:348-361.
- Scott, R.J. 2001. Sensory drive and nuptial colour loss in threespine stickleback. *Journal of Fish Biology*, 59: 1520-1528.
- Scott, R.J. 2004. Assortative mating between adjacent populations of threespine stickleback (*Gasterosteus aculeatus*). *Ecology of Freshwater Fish* 13: 1-7.

#### **GRADUATE STUDENTS**

- Rodewald, A.D. M.S. (U. of Arkansas) 1995
- Sillett, K.B. M.S. (U. of Arkansas) 1997
- Willmott, H.E., Ph.D. (U. of Arkansas) 1997
- Elsemore, R. M.A. 2000
- Scott, R.J., Ph.D., 2000
- Cresko, W.A., Ph.D., 2000
- Artiss, T., Ph.D., 2000
- Baxter, K. J., M.A. 2001
- Scotti, M.L., M.A. 2002

Walker, E.B., M.A. 2002  
Savoie, R., M.A. 2003  
Hulslander, C.L., Ph.D. 2004  
Rezak, C. M.A., 2004  
Shaw, K. M.A., 2005  
Messler, A. M.A. 2006  
Chock, R. M.A. 2008  
King, R.W. Ph.D. in progress  
Tzarougian, A. Ph.D. in progress  
Richard, S. Ph.D. in progress  
Golub, J. Ph.D. in progress  
Suggs, D. Ph.D. in progress  
Ackein, L. M.A. in progress  
O'Brien, K, M.A. in progress  
Rana, J. M.A. in progress  
Robert, K. M.A. in progress

**POST DOCTORAL CO-WORKERS**

Michael U. Tlusty (1995-1996)  
Timothy Sparkes (1996)  
Matthew Wund (2005-present)