

CURRICULUM VITAE

Neil Bowman Ford
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EDUCATION

B. S. University of Kansas (Systematics and Ecology), 1973
M. S. University of Oklahoma (Zoology), 1976
Ph. D. Miami University, Oxford, Ohio (Zoology), 1979

PROFESSIONAL EXPERIENCE

1979-84 Assistant Professor of Biology, Univ. of Texas at Tyler
1984-1991 Associate Professor of Biology, Univ. of Texas at Tyler
1991-present Professor of Biology, Univ. of Texas at Tyler
1985-1997 Faculty Research Participant, Savannah River Ecology Lab, U. S. Dept. of Energy
1988-2000 Adjunct Professor, Southeastern Louisiana University
1989-present Director of the Ophidian Research Colony, U. T. Tyler
2000-2003 Mary John and Ralph Spence Distinguished Professor
2013-present College of Arts and Sciences Distinguished Professor

RESEARCH EXPERTISE

My **primarily research interest** in the last 5 years has been in collaboration with two other U. T. Tyler faculty members to examine how landscape and geomorphology are related to the abundance and species composition of freshwater mussels in rivers of northeast Texas. Several of these organisms have been listed as threatened in Texas and understanding why is important to our protecting them. I have had 5 recent grants from TPWD and U.S. Fish and Wildlife supporting this research on mussel conservation.

SUMMARY OF PUBLICATIONS AND PRESENTATIONS

I have given over 84 presentations at scientific meetings, 26 of those within the last 5 years. I have written 69 peer-reviewed scientific papers, 11 book chapters and one book on my research. Twenty three of those papers have been in the last 5 years. I am invited to present seminars at other Universities and at scientific meetings at least once each year. I have presented 18 symposium talks and have organized 6 national and international symposia in my field of research. In 2011 I organized the Annual meeting of the Southwestern Association of Naturalists held at U. T. Tyler April 21-24.

HONORS

1996 Elected Fellow of the Texas Academy of Science
2000 Mary John and Ralph Spence Distinguished Professor (U. T. Tyler)
2003 President' Scholarly Achievement Award
2013 College of Arts and Sciences Distinguished Professor

PEER-REVIEWED PUBLICATIONS IN THE LAST 5 YEARS

Hunkapiller, T. R., **N. B. Ford** and Kevin Herriman, 2009. The effects of all-Terrain vehicle use on the herpetofauna of an East Texas Floodplain. *Texas J. Sci.* 61: 3-14.

Ford N. B. and P. M. Hampton. 2009. Ontogenetic and sexual differences in diet in an actively foraging snake, *Thamnophis proximus*. *Can. J. Zool.* 87: 254-261.

- Ford, N. B.**, J. Gullett, and M. E. May, 2009. Diversity and abundance of unionid mussels in three sanctuaries on the Sabine River in northeast Texas. *Texas J. Sci.* 61: 279-294.
- Hampton, P.M., **N.B. Ford**, and K. Herriman. 2010. Impacts of Active Oil Pumps and Deer Feed Plots on Amphibian and Reptile Assemblages in a Floodplain. *American Midland Naturalist*. 163:44-53.
- Sparkman, A. M., D. Byars, **N. Ford**, and A. Bronikowski. 2010. The role of insulin-like growth factor-1 (IGF-1) in growth and reproduction in female brown house snakes (*Lamprophis fuliginosus*). *Gen. Comp. Endo.* 168: 408–414.
- Byars, D. J., **N. B. Ford**, A. M. Sparkman and A. M. Bronikowski. 2010. Influences of diet and family on age of maturation in Brown House snakes, *Lamprophis fuliginosus*. *Herpetologica* 66: 2010, 456–463.
- Ford, N. B.** and R. A. Seigel, 2010. An experimental test of the fractional egg hypothesis. *Herpetologica*. 66: 451-455.
- M. J. Troia and **N. B. Ford**. 2010. Notes on habitat and burrowing behavior of *Obovaria jacksoniana* (Bivalvia: Unionidae) in the upper Neches River. *Texas Acad. Sci.* 62:195-204.
- A. Sparkman, T. Schwartz, J. Madden, S. Boyken, **N. Ford**; J. Serb, A. Bronikowski. 2012. Evolutionary rates vary in vertebrates for insulin-like growth factor-1 (IGF-1), a pleiotropic locus involved in life history traits. *General and Comparative Endocrinology* 178:164-173.
- B. T. Martin, D. D. Goodding, **N. B. Ford** and J. S. Placyk, Jr. 2013. Sensory Mediation of Foraging Behavior in the Western Lesser Siren (*Siren intermedia nettingi*). *J. of Herpetology*. 47: 75-77.
- A. Dunithan and **N. B. Ford**. 2013. Impact of drought on predation of an endangered mussel species, *Potamilus amphichaenus*. *Southwestern Naturalist*. 58:
- Walters, A., K. Chamberlain, **N. Ford** and J. Placyk. 2014. Influence of atrazine on the scalation of Marcy's Checkered Gartersnakes, *Thamnophis m. marcianus* (Baird and Girard, 1853). *Bull. Environ. Contam. Toxicol.* 92: 1-5.
- N.B. Ford**, K. Heffentrager, D. F. Ford, A. Walters and N. Marshall. 2014. Significant recent records of Unionid mussels in Northeast Texas Rivers. *Walkerana*. 17:8-15.
- M. J. Troia , M. G. Williams, L. R. Williams and **N. B. Ford**. 2015. The Process Domains Concept as a framework for fish and mussel habitat in a coastal plain river of southeastern North America. *Ecological Engineering*. 75:484-496.
- A. G. S. Jackson, S. Leu, **N. B. Ford**, and J. W. Hicks. In press. Patterns of oxygen consumption during simultaneously occurring elevated metabolic states in the viviparous snake, *Thamnophis marcianus*. *J. Exp. Biol.*

PAPERS SUBMITTED

- A. Dunithan, M. Williams, J. Banta, N. Ford, and L. Williams. Submitted. Ecological niche modeling reveals little association between freshwater mussel distribution and road and dam densities. *Ecological Applications*.

BOOK CHAPTERS IN LAST 5 YEARS

Ford, N. B. and R. A. Seigel. 2010. Factors affecting offspring size in snakes. In *Reproductive Biology and Phylogeny of Snakes*. R. D. Aldridge and D M. Sever (eds). Science Publishers, Inc. Enfield, NH, USA.

Bronikowski, A. M., A. M Sparkman, D. Byars and **N. B. Ford**. 2010. The role of Insulin/IGF1 signaling (IIS) in snake reproduction. In *Reproductive Biology and Phylogeny of Snakes*. R. D. Aldridge and D M. Sever (eds). Science Publishers, Inc. Enfield, NH, USA.