

Noel M. Burkhead

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EDUCATION

1980 M.S., Zoology, University of Tennessee
1973 B.S., Biology, Roanoke College, Virginia

TRAINING AND FIELDS OF INTEREST

Academic training encompasses a broad background in general biology, and faunal zoology with strong emphasis in ichthyology and aquatic biology. Theory in systematic biology and known phylogenies are used to interpret ecological, behavioral, and distributional patterns in southeastern freshwater fishes. Current research examines natural versus artificially accelerated extirpation (and extinction) patterns in southern Appalachian fishes, cryptic species and unrecognized diversity (including description of new species), and ecological experimentation.

PROFESSIONAL EXPERIENCE

1995 - present **Team Leader**, Fish Conservation Program, U.S. Geological Survey, BRD, Florida Caribbean Science Center, Gainesville, FL

1990 - 1995 **Research Fishery Biologist**, National Biological Service, Southeastern Biological Science Center, Gainesville, FL

1988 - 1990 **Research Fishery Biologist**, U.S. Fish & Wildlife Service, National Fisheries Research Center, Gainesville, FL

1979 - 1987 **Research Associate**, Biology Department, Roanoke College, Salem, VA

PROFESSIONAL ACTIVITIES AND MEMBERSHIPS

American Society of Ichthyologists and Herpetologists (1975 to present)
Member Environmental Quality Committee (since 1991)

Southeastern Fishes Council (1978 to present)
Southeast (Region II) Representative (since 1989 to present)

Society for Conservation Biology (1993 to present)

Courtesy Curator Appointment, Florida Museum of Natural History, University of Florida, Gainesville, FL

CURRENT GRANTS OR CONTRACTS

USGS: Species at Risk initiative, \$80K FY2000, Declining fishes in upper Coosa River system;
Quick Response Funding, \$15K FY2000, Monitor spread of non-indigenous red shiner.

USFWS: \$20K, Field study of blue shiner abundance relative to habitat quality.

SELECTED PUBLICATIONS

- Burkhead, N.M.** and H.L. Jelks. 2000. Essay 1. Diversity, levels of imperilment, and cryptic fishes in the southeastern United States. Pp. 30 - 32 *in* Abell, R.A., D.M. Olson, E. Dinerstein, P.T. Hurley, J.T. Diggs, W. Eichbaum, S. Walters, W. Wettengel, T. Allnutt, C.J. Loucks, and P. Hedao. Freshwater ecoregions of North America: a conservation assessment. Island Press, Covelo, CA.
- Burkhead, N. M.**, S. J. Walsh, B. J. Freeman, and J. D. Williams. 1997. Status and restoration of the Etowah River, an imperiled southern Appalachian river ecosystem. Pp. 375-444 *in* G. A. Benz and D. E. Collins, eds., Aquatic fauna in peril: the southeastern perspective. Special Publication No. 1, Southeast Aquatic Research Institute, Lenz Design & Communications, Decatur, GA.
- Bauer, B. H., D. A. Etnier, and **N. M. Burkhead**. 1995. *Etheostoma (Ulocentra) scotti* (Osteichthys: percidae), a new darter from the Etowah River system in Georgia. Bulletin Alabama Museum of Natural History 17: 1-16.
- Walsh, S. J., **N. M. Burkhead**, and J. D. Williams. 1995. Southeastern freshwater fishes. Pp. 144-147, *in* E. T. LaRoe, G. S. Farris, C. E. Puckett, P. D. Morgan, and M. J. Mac, eds., Our living resources. A report to the nation on the distribution, abundance, and health of U. S. plants, animals, and ecosystems. U.S. Department of the Interior, National Biological Service, Washington, D.C.
- Jenkins, R. E., and **N. M. Burkhead**. 1994. The Freshwater Fishes of Virginia. American Fisheries Society, Bethesda, MD. 1079pp.
- Burkhead, N. M.**, and J. D. Williams. 1991. An intergeneric hybrid of a native minnow, the golden shiner, and an exotic minnow, the rudd. Transactions American Fisheries Society 120:781-795.
- Burkhead, N. M.**, and R. E. Jenkins. 1991. Fishes. Pp. 321-409 *in* K. Terwilliger (coordinator). Virginia's Endangered Species. McDonald and Woodward Publishing Company, Blacksburg, Virginia.