

Michael A. Eggleton, Ph.D.

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Aquaculture / Fisheries Center of Excellence
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Dated: June 2009

EDUCATION

1996-2001. Mississippi State University - Starkville, MS. Ph.D. in Fisheries, 2001. Emphasis in fisheries biology and ecology; minor in statistics. Dissertation title: "Catfish feeding ecology and bioenergetics in a large river-floodplain ecosystem." Advisor: Harold L. Schramm, Jr., Professor of Fisheries / Leader, Mississippi Cooperative Fish and Wildlife Research Unit.

1987-1989, Tennessee Technological University - Cookeville, TN. M.Sc. in Biology, 1989. Emphasis in fisheries and aquatic biology. Thesis title: "Ecological characterization of an acid-sensitive southern Appalachian stream targeted for mitigative liming." Advisor: Eric L. Morgan, Professor of Biology.

1982-1986, West Virginia State College - Institute, WV. B.Sc. in Biology, 1986. Emphasis in invertebrate zoology; minor in chemistry. Advisor: Barbara J. Oden, Professor/Chair of Biology.

EMPLOYMENT

Assistant Professor / Undergraduate Coordinator, University of Arkansas at Pine Bluff, Aquaculture / Fisheries Center, 2003-present.

Post-Doctoral Research Associate, University of Oklahoma, Sam Noble Oklahoma Museum / University of Oklahoma Biological Station, 2001-2003.

Graduate Research Assistant (Ph.D.), Department of Wildlife and Fisheries / Mississippi Cooperative Fish and Wildlife Research Unit, Mississippi State University, 1996-2001.

Research Associate / Specialist, Water Resources Center / Biology Department / Tennessee Cooperative Fishery Research Unit, Tennessee Technological University, 1989-1996.

Graduate Research Assistant (M.Sc.), Water Resources Center / Biology Department, Tennessee Technological University, 1987-89.

Water Quality/Bioassay Technician, Technical Testing Laboratories, Inc., Charleston, WV, 1986.

Aquatic Biologist Intern, West Virginia Department of Natural Resources - Division of Water Resources, Charleston, WV, 1985-86.

M. Eggleton (continued)

RESEARCH EXPERIENCE

2003- present. Arkansas River black bass fishery assessment. Assessment of black bass populations in the lower Arkansas River; relations between black bass and off-channel habitats; assessment of catch, effort, and harvest patterns of lower Arkansas River largemouth bass populations; assessment of tournament-associated impacts on bass fisheries. Funded by: UAPB Aquaculture / Fisheries Center and Arkansas Game and Fish Commission (**principal investigator**).

2006-2007. Arkansas River Mitigation Study. Characterization of dike field characteristics prior to proposed notching with respect to fish communities and aquatic habitats in the lower Arkansas River. This was a large collaborative effort that involved five universities and one federal agency across three states. Funded by: U.S. Army Corps of Engineers (**principal investigator**).

2001-2003. Lake Texoma (Oklahoma-Texas) assimilative capacity study. Assess spatial and temporal patterns in littoral- and riparian-zone biotic assemblages of Lake Texoma relative to anthropogenic stresses; establishment of reference conditions in Lake Texoma for environmental impact assessment; use of Lake Texoma as a model reservoir ecosystem in relation to a wide variety of anthropogenic stresses including agriculture, industrial discharges, oil production, marina operations, and municipal runoff. Funded by: U.S. Environmental Protection Agency and U.S. Army Corps of Engineers (**post-doctoral researcher**).

2001-2002. Assessing the potential of fish predation to impact zebra mussel *Dreissena polymorpha* populations across a latitudinal gradient using a bioenergetic-based modelling approach. Funded by: U.S. Army Corps of Engineers (**principal investigator**).

1996-2001. Lower Mississippi River fisheries and floodplain investigations. Assessed spatial and temporal variation in riverine fish assemblages in response to different river trainment strategies; evaluation of catfish bioenergetics in different riverine habitats and in relation to seasonal flooding regimes (dissertation topic). Funded by: U.S. Army Corps of Engineers.

1999-2000. Analysis of floodplain inundation patterns in the lower Mississippi River using a geospatial (Geographic Information System) approach. Funded by: U.S. Fish and Wildlife Service and U.S. Geological Survey.

1992-1996. Influence of seasonal water-level management strategies and habitat manipulations on recruitment of black basses and crappies in Chickamauga Reservoir, Tennessee. Funded by: Tennessee Wildlife Resources Agency and Tennessee Valley Authority.

1990-1994. Assessment of stocking strategies, harvest patterns, and angler satisfaction with put-and-take rainbow trout fisheries in several Tennessee streams. Funded by: Tennessee Wildlife Resources Agency (**co-principal investigator**).

1991-1993. Assessment of land use and environmental influences on fish and macroinvertebrate communities of an undeveloped interstate river basin (Clinch River, TN-VA) with several threatened and endangered aquatic species. Funded by: Tennessee Wildlife Resources Agency and U.S. Fish and Wildlife Service.

1987-1991. Laurel Branch Acid Precipitation Mitigation Program (NAPAP National Demonstration Study). Assessment of protective liming on an upland stream ecosystem as compared to an unmanipulated reference stream in the southern Appalachian Mountains (thesis topic); evaluation of a hydraulic turbine limestone doser for wide scale implementation. Funded by: U.S. Fish and Wildlife Service and Tennessee Department of Health and Environment (**co-principal investigator**).

M. Eggleton (continued)

1988-1990. Use of GIS/spatial analysis technology for development of management strategies for streams in coal-producing regions of Kentucky and Tennessee. Funded by: U.S. Office of Surface Mining Reclamation and Enforcement.

TEACHING EXPERIENCE

Fall 2003 – present:

AQFI 1102 Topics in Aquaculture and Fisheries: An introductory survey course that exposes first-term freshmen to the spectrum of careers in the fields of aquaculture and fisheries biology.

UNDERGRADUATE – taught every fall.

AQFI 2247/2147 Fisheries Techniques: An introduction to the methods and techniques used in the collection of fishes and fisheries data. The course details many of the standard techniques that a practicing fisheries manager would use during their career. Students are exposed to various sampling gears, analytical equipment, standard operating procedures, and considerations of using such equipment and procedures. UNDERGRADUATE – taught every fall.

AQFI 2601-2602-2603 Aquaculture and Fisheries Internship: These credits can be earned by students enrolled in a bonafide internship in aquaculture or fisheries biology. The course is administered by the UAPB Career Services office in conjunction with the AQFI department. UNDERGRADUATE – taught every summer.

AQFI 3371 Fisheries Management: An extension of Fisheries Techniques. This course integrates the methods covered in Fisheries Techniques with techniques and approaches used to manage fisheries, specifically emphasizing inland freshwater systems. Methods of harvest and population manipulation are discussed as they pertain to addressing research objectives for streams, lakes, reservoirs, and rivers. Case histories in fisheries management also are reviewed. UNDERGRADUATE – taught every spring.

GAQF 5325 Fish Population Dynamics: This course provides students with the basic principles and foundational theories from the field of population dynamics, with most examples specifically pertaining to fishes. Students are exposed to the standard models that estimate fish population size, growth, mortality, production, and yield using linear and nonlinear techniques. Simulation modeling of fish populations and study of stock-recruitment relationships also are emphasized. GRADUATE – taught every other fall.

GAQF 5195/5196 Graduate Seminar: The course uses weekly seminars presented by faculty, staff, students, and guest lecturers to provide overviews and synthesis to issues within a central theme decided upon each semester. GRADUATE – taught on rotational basis.

GAQF 5300 Research Methods and Scientific Writing: This course is team-taught by the entire departmental faculty. The two main objectives of this course are: 1) to familiarize students with planning and execution of scientific experiments and 2) to enable students to convey research results effectively through written communications. My responsibility is usually 4-5 separate lectures on topics such as basic sampling design, calculation of sample sizes, resume writing, and job searches. GRADUATE – team-taught with other faculty every spring.

GRANTS

Research:

The effects of alligator gar re-introductions on crappie and bluegill populations in Mingo National Wildlife Refuge, Missouri. Missouri Department of Conservation. \$20,000. 2008-2009.

M. Eggleton (continued)

Arkansas River largemouth bass exploitation study. UAPB Aquaculture/Fisheries Center and Arkansas Game and Fish Commission. \$73,000. 2007-2010.

Long-term fisheries and habitat monitoring for the Arkansas River Navigation Project – Tasks 2 and 3. US Army Corps of Engineers. \$197,228. 2006-2009.

Arkansas River black bass fishery assessment. UAPB Aquaculture/Fisheries Center and departmental funds. \$73,000. 2003-2006.

Assessing the potential of fish predation to impact zebra mussel *Dreissena polymorpha* populations using a bioenergetics models. U.S. Army Corps of Engineers. \$10,000. 2001-2002.

Assessment of stocking strategies, harvest patterns, and angler satisfaction with put-and-take rainbow trout fisheries in several Tennessee streams. Tennessee Wildlife Resources Agency. \$8,400. 1990-1994.

Laurel Branch Acid Precipitation Mitigation Program (NAPAP National Demonstration Study). Assessment of protective liming on an upland stream ecosystem as compared to an unmanipulated reference stream in the southern Appalachian Mountains (thesis topic); evaluation of a hydraulic turbine limestone doser for wide scale implementation. U.S. Fish and Wildlife Service and Tennessee Department of Health and Environment. \$800,000. 1987-1991.

Other:

Arkansas Game and Fish Commission summer internship program. \$3,800. 2009.

National Cooperative Fisheries Scholars program (renewal). U.S. Geological Survey – Biological Resources Division. \$750,000. 2008-2012.

U.S.D.A. – APHIS Wildlife Services Scholarship program. US Department of Agriculture – Animal Plant Health Inspection Service – Wildlife Services. \$48,000. 2008-2011.

National Cooperative Fisheries Scholars program (renewal). U.S. Geological Survey – Biological Resources Division. \$276,642. 2005-2007.

Integrating teaching and learning (INTEL) laboratory: creating a high-tech learning environment for students. US Department of Agriculture. \$199,017. 2006-2009.

PUBLICATIONS

Peer-reviewed articles:

Neal, J.W., **M.A. Eggleton**, and A.E. Goodwin. 2009 (in press). The effects of largemouth bass virus disease on a quality largemouth bass population in Arkansas. *Journal of Wildlife Diseases*.

Lubinski, B.J., J.J. Jackson, and **M.A. Eggleton**. 2008. Relationships between floodplain lake fish communities and environmental gradients in a large river-floodplain ecosystem. *Transactions of the American Fisheries Society* 137:895-908.

M. Eggleton (continued)

Hargrave, C.W., R. Ramirez, M.A. Brooks, **M.A. Eggleton**, K.G. Sutherland, P.R. Deaton and H.S. Galbraith. 2006. Species-specific ecosystem effects enhance production of a primary consumer through indirect food web interactions. *Freshwater Biology* 51:1901-1910.

Schramm, H.L., Jr. and **M.A. Eggleton**. 2006. Applicability of the flood-pulse concept to temperate floodplain river ecosystems: thermal and temporal components. *Rivers Research and Applications* 22:543-553.

Eggleton, M.A., R. Ramirez, C.W. Hargrave, K.B. Gido, J.R. Masoner, G.D. Schnell, and W.J. Matthews. 2005. Predictability of littoral-zone fish assemblages through ontogeny in Lake Texoma, Oklahoma-Texas, USA. *Environmental Biology of Fishes* 73:21-36.

Eggleton, M.A., L.E. Miranda and J.P. Kirk. 2004. The potential for fish predation to impact zebra mussels *Dreissena polymorpha*: insight from bioenergetics models. *Ecology of Freshwater Fish* 13:85-95.

Eggleton, M.A. and H.L. Schramm, Jr. 2004. Feeding ecology and energetic relationships with habitat of blue catfish *Ictalurus furcatus* and flathead catfish *Pylodictis olivaris* in the lower Mississippi River, USA. *Environmental Biology of Fishes* 70:107-121.

Eggleton, M.A., K.B. Gido, W.J. Matthews and G.D. Schnell. 2004. Assessment of anthropogenic influences on littoral-zone aquatic communities of Lake Texoma, Oklahoma-Texas, USA. *Ecohydrology and Hydrobiology* 4:103-117.

Leao, M., **M.A. Eggleton**, and E.R. Buckner. 2004. Fish utilization and diversity associated with created wetlands within the upper White River watershed. *Proceedings of the Southeastern Assn. of Fish and Wildlife Agencies* 58:162-173.

Eggleton, M.A. and H.L. Schramm, Jr. 2003. Energetic gradients in catfish feeding in the lower Mississippi River, USA. *Ecohydrology and Hydrobiology* 3:27-38.

Eggleton, M.A. and H.L. Schramm, Jr. 2002. Caloric densities of selected fish prey organisms from the lower Mississippi River. *Journal of Freshwater Ecology* 17:409-414.

Schramm, H.L., Jr., **M.A. Eggleton**, and R.M. Mayo. 2000. Habitat conservation and creation: invoking the flood-pulse concept to enhance fisheries in the Lower Mississippi River. *Polskie Archiwum Hydrobiologii* 47:45-62.

Eggleton, M.A. and E.L. Morgan. 2000. Rainbow trout production and relations with abiotic factors in two southern Appalachian streams. *Journal of Freshwater Ecology* 15:251-268.

Eggleton, M.A., E.L. Morgan and W.L. Pennington. 1996. Effects of liming on an acid-sensitive southern Appalachian stream. *Restoration Ecology* 4:247-263.

O'Bara, C.J. and **M.A. Eggleton**. 1995. Evaluation of three small-scale rainbow trout put-and-take fisheries in Tennessee streams. *Proceedings of the Annual Conference of the Southeastern Association of Fish and Wildlife Agencies* 49:78-87.

Eggleton, M.A., E.L. Morgan, W.L. Pennington, and T.P. Weaver. 1991. Stream response to limestone additions using a hydropowered dosing apparatus in Laurel Branch, Tennessee. *Proceedings of Acid Rain Mitigation: Liming Technologies and Environmental Considerations*, American Chemical Society - Division of Environmental Chemistry 31:153-157.

M. Eggleton (continued)

Selected reports:

Eggleton, M.A., B.G. Batten, and B.V. Fontaine. 2008. Task 2 – Arkansas River Mitigation Study: Characterization of dike fields prior to proposed notching with respect to fish communities and aquatic habitats in the lower Arkansas River – 2007 project report. U.S. Army Corps of Engineers – Little Rock District and Waterways Experiment Station.

Schnell, G.D., W.J. Matthews, M.A. Eggleton, K.B. Gido, and D.W. Pogue. 2003. System assimilative capacity (SAC) study, Lake Texoma (Oklahoma-Texas): determination of aquatic and sediment eco-effects. Final project report (1999-2001). U.S. Environmental Protection Agency - Kerr Research Laboratory and U.S. Army Corps of Engineers - Tulsa District.

Eggleton, M.A., L.E. Miranda, and J.P. Kirk. 2003. The potential for fish predation to impact zebra mussels *Dreissena polymorpha* across a latitudinal gradient: insight from bioenergetics models. U.S. Army Corps of Engineers Technical Report ERDC/EL TR-03-22.

Schnell, G.D., W.J. Matthews, M.A. Eggleton, K.B. Gido, and D.W. Pogue. 2002. System assimilative capacity (SAC) study, Lake Texoma (Oklahoma-Texas): determination of aquatic and sediment eco-effects. Interim project report (1999-2001). U.S. Environmental Protection Agency - Kerr Research Laboratory and U.S. Army Corps of Engineers - Tulsa District.

Schramm, H.L. Jr. and M.A. Eggleton. 2002. Lower Mississippi River fisheries investigations. Final report (1994-97). U.S. Army Corps of Engineers - Lower Mississippi Valley Division.

Schramm, H.L., Jr., M.A. Eggleton, and R.B. Minnis. 2000. Spatial analysis of floodplain habitat critical to lower Mississippi River fishes using a Geographic Information Systems (GIS) approach. Final report (1999-2000). U.S. Fish and Wildlife Service and U.S. Geological Survey.

O'Bara, C.J., M.A. Eggleton, C.R. Drumwright, and C.S. Loftis. 1996. Influence of water-level fluctuations and habitat enhancement on recruitment of black basses and crappies in Chickamauga Reservoir, Tennessee. Interim project report (1992-95). Tennessee Wildlife Resources Agency.

O'Bara, C.J. and M.A. Eggleton. 1994. Investigation of the influence of land use on fish and macrobenthic communities in the Clinch River basin, Tennessee-Virginia. Final report (1991-93). Tennessee Wildlife Resources Agency and U.S. Fish and Wildlife Service.

Morgan, E.L., M.A. Eggleton, V.D. Adams, and W.L. Pennington. 1993. Laurel Branch acid precipitation mitigation program (APMP). Laurel Branch, Tennessee Acid Precipitation Mitigation Program (APMP). Final report (1985-91). U.S. Fish and Wildlife Service.

INVITED SPEAKER

2004. Catfish energetics in the lower Mississippi River: Implications towards floodplains and flood-pulses in regulated temperate rivers. Invited seminar presented to the Department of Natural Resources, Ohio State University, May 20, 2004, Columbus, OH.

2004. Catfish feeding ecology and bioenergetics in the lower Mississippi River. Invited seminar presented at the *Arkansas Large Rivers Symposium* of the Arkansas Chapter of the American Fisheries Society annual meeting, February 3, 2004, Pine Bluff, AR.

2003. Assessment of stress on aquatic communities in Lake Texoma, Oklahoma-Texas. Invited seminar presented to the Department of Biology, Emporia State University, April 9, 2003, Emporia, KS.

M. Eggleton (continued)

2000. Thermal dimension of the “flood-pulse” concept in the lower Mississippi River. Invited paper presented in the *Mississippi River Basin: Ecology, Issues, and Management* symposium at the American Fisheries Society annual meeting, August 23, 2000, St. Louis, MO.

1999. *Sampling fishes in large rivers*. Workshop conducted at the Southern Division American Fisheries Society Mid-Year Technical Meeting, February 26, 1999, Chattanooga, TN.

1999. Habitat conservation and creation: invoking the “flood-pulse” concept to enhance fisheries in the Lower Mississippi River. Invited paper presented at the 6th annual meeting of the Lower Mississippi River Conservation Commission, May 10, 1999, Memphis, TN.

1995. Status of reservoir fisheries in the middle Tennessee River. Invited paper presented in the *Current Status of Tennessee Fisheries* symposium at the Tennessee Chapter of the American Fisheries Society annual meeting, February 27, 1995, Crossville, TN.

1991. Stream response to limestone additions using a hydropowered dosing apparatus in Laurel Branch, Tennessee. Invited paper presented in the *Acid Rain Mitigation: Liming Technologies and Environmental Considerations* symposium at the International Meeting of the American Chemical Society, April 5, 1991, Atlanta, GA.

SELECTED PRESENTATIONS (Last 5 years)

Fontaine, B.V., C.P. Hutt, and M.A. Eggleton. 2009. Assessment of catch and exploitation of largemouth bass on the lower Arkansas River. 1890 Assn. Research Director's Meeting, Atlanta, GA and the Southern Division of the American Fisheries Society, New Orleans, LA.

Eggleton, M.A., J.R. Jackson, and B.J. Lubinski. 2008. Multiple-gear assessment of floodplain lake fish assemblages of a large river-floodplain ecosystem. Paper presented at the Southeastern River-Floodplain Symposium, Little Rock, AR.

Batten, B.G., M.A. Eggleton, and S.E. Lochmann. 2007. Patterns in largemouth bass (*Micropterus salmoides*) population dynamics in the lower Arkansas River. Paper presented at the Arkansas Chapter of the American Fisheries Society annual meeting, Mountain View, AR, and at the Southern Division of American Fisheries Society annual meeting, Memphis, TN.

Batten, B.G., M.A. Eggleton, S.E. Lochmann, and H.L. Schramm Jr. 2006. Largemouth bass population characteristics in the lower 11 pools of the Arkansas River. Papers presented at the Southern Division of the American Fisheries Society annual meeting, San Antonio, TX and the Arkansas Chapter of the American Fisheries Society annual meeting, Bismarck, AR.

Eggleton, M.A. and H.L. Schramm, Jr. 2004. Relationships between catfishes and flooding in the lower Mississippi River. Paper presented at Ictalurid Ecology and Management symposium at the Southern Division American Fisheries Society, Oklahoma City, OK.

Leao, M., M.A. Eggleton, and E.R. Buckner. 2004. Fish utilization and diversity associated with created wetlands within the upper White River watershed. Paper presented at the Southeastern Association of Fish and Wildlife Agencies annual conference, Hilton Head, SC.

Eggleton, M.A., K.B. Gido, G.D. Schnell, and W.J. Matthews. 2003. Assessment of stress on aquatic communities in Lake Texoma, Oklahoma-Texas, USA. Paper presented at the 9th International Symposium on the Ecology of Fluvial Fishes, Lopuszna, Poland.

M. Eggleton (continued)

Eggleton, M.A., L.E. Miranda, and J.P. Kirk. 2003. The potential for predation by fishes to impact zebra mussels *Dreissena polymorpha*: insight from bioenergetics models. Paper presented at the Oklahoma Chapter of the American Fisheries Society annual meeting, Tahlequah, OK.

PROFESSIONAL SERVICE

2004-present. *Volunteer* for the Delta Rivers Nature Center in Pine Bluff, AR.

2005-2007. *Treasurer and Conference Organizing Committee* for the Arkansas Chapter of the American Fisheries Society.

2007. *Session moderator* (Statistics and Modelling), Annual meeting of the Southern Division of the American Fisheries Society, Memphis, TN.

2003. *Session moderator* (Fish and stream ecology) *and local organizing committee*, Annual meeting of the Southwestern Association of Naturalists, Norman, OK.

1993-present. I have served as peer-reviewer for various articles submitted to the following journals: *North American Journal of Fisheries Management*, *Transactions of the American Fisheries Society*, *Journal of the Tennessee Academy of Science*, *Marine and Freshwater Research*, *Ecohydrology and Hydrobiology*, *Aquatic Science*, *Environmental Biology of Fishes*, *Journal of Applied Ichthyology*, *Copeia*, and *Proceedings of the Southeastern Association of Fish and Wildlife Agencies*. I have also reviewed chapters for two books dealing with liming effects on aquatic ecosystems.

1999-2001. *Volunteer* for the 4-H/MSU DawgFish Club (outreach and education program for youths) for Oktibbeha County, MS. Program organized by the MSU AFS Student Sub-Unit through the MSU Wildlife and Fisheries Extension Service.

1997-2000. *Newsletter co-editor for the Mississippi Chapter American Fisheries Society*. I shared responsibility for publication and distribution of the Chapter newsletter, was solely responsible for maintaining the Chapter's membership roster, distributing Chapter announcements by electronic mailing lists, and co-organizing the 1998, 1999, and 2000 annual meetings.

1999. *Workshop co-organizer* (Title: *Sampling fishes in large rivers*) at the Southern Division American Fisheries Society Mid-Year Technical Meeting, Chattanooga, TN. My section covered sampling methodologies, sampling gear selectivity, and statistical concerns regarding data analysis.

1999. *Session moderator* (Stream ecology), Southern Division American Fisheries Society Mid-Year Technical Meeting, Chattanooga, TN.

1997-1999. *Officer, MSU Student Sub-Unit of the Mississippi Chapter American Fisheries Society*. During my 2-year tenure as Vice-President, I was involved in initiating an annual club fund-raiser, publishing the Mississippi Chapter AFS newsletter, and organizing or co-organizing more than 25 club activities. These activities included hosting off-campus guest speakers for our club-sponsored seminar series, organizing workshops for club members and the Wildlife and Fisheries department, and gaining official recognition of our club as a Student Sub-Unit by the Mississippi AFS Chapter and Southern Division AFS.

M. Eggleton (continued)

1995-1996. *Chair - Environmental Concerns Committee, Tennessee Chapter American Fisheries Society.* My responsibility as chairman was to coordinate reviews and provide comments to applications submitted to the State of Tennessee for Aquatic Resource Alteration Permits (ARAPs). Our committee was periodically asked to review these applications and attend public hearings associated with the permitting process.

1995. *Session moderator (Coldwater Fisheries),* Annual meeting of the Southeastern Association of Fish and Wildlife Agencies, Nashville, TN.

1994. *Session moderator (Contributed papers),* Annual meeting of the Southeastern Association of Fish and Wildlife Agencies, Biloxi, MS.

1987-1988. *Officer/Co-Founder,* Tennessee Technological University Student Fisheries Association.

CONSULTING / CONTRACTING ACTIVITIES

Young-Morgan and Associates Environmental Consultants, Inc., Franklin, TN, 1988-1989, field sampling
 Fish and Wildlife Associates Environmental Consultants, Inc., Whittier, NC, 1989, field sampling
 Pennington and Associates Environmental Consultants, Inc., Cookeville, TN, 1989-1991, field sampling
 Dames and Moore Engineering, Inc., Atlanta, GA, 1989, data analysis
 U.S. Army Corps of Engineers, Vicksburg, MS, 2002-2003, modeling

SOCIETY MEMBERSHIP

American Fisheries Society (1988-present)
 Southwestern Assn. of Naturalists (2001-present)
 North American Lake Management Society (1993-96)
 Association of Southeastern Biologists (1988-92)

Ecological Society of America (1997-present)
 Tennessee Academy of Science (1987-96)
 North American Benthological Society (1990-93)
 Sigma Xi (1993-1994)

PROFESSIONAL CERTIFICATIONS

PADI Certified Open-Water Diver (1994)
 American Fisheries Society Certified Fisheries Professional (2001)

REFERENCES

Harold (Hal) L. Schramm, Jr., Ph.D.
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 Wildlife Research Unit
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 Mississippi State, MS 39762
 (662) 325-7495, hschramm@cfr.msstate.edu

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 West Virginia Division of Natural Resources
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