

VITA

GLENN RAY PARSONS

Address (office): Department of Biology
University of Mississippi
University, MS 38677

Address (home): 467 Highway 7 North
Oxford, MS 38677

Occupation: Professor, 2001 to present
Associate Professor, 1993 to 2000
Assistant Professor, 1988 to 1992

Phone: Office (662) 915-7479, Home (662) 234-3901
E-mail: bygrp@olemiss.edu
Born: October 30, 1953; Fairfield, Alabama.
Married: Cheryl K. Bouler; October 25, 1980.

Degrees: Ph.D.; Marine Science/Biological Oceanography,
University of South Florida, 1987.
M.S.; Biology, University of South Alabama, Mobile, 1981.
B.S.; Biology, University of Alabama, Birmingham, 1977.

(Total competitive grants to date excluding in-house awards: **\$1,724,000.00**)
(With the exception of four awards they were awarded to me as sole investigator)

Present Research Grants

United States Fish and Wildlife Service/Mississippi Department of Wildlife Fisheries and Parks, Sportfish Restoration Program. "Crappie movement in North Mississippi Reservoirs". \$160,000.

Past Research Grants

National Marine Fisheries Service, MARFIN Program. Swimming performance of red snapper: Its application to by-catch reduction, 2005 to 2008. **\$296,000.**

National Oceanic and Atmospheric Administration, National Marine Fisheries Service, MARFIN Program. Swimming performance of red snapper: Its application to by-catch reduction, 2001 to 2004. **\$230,000.**

National Oceanic and Atmospheric Administration, National Marine Fisheries Service; Review, Synthesis and Summarization of Existing Shark Nursery Grounds Information in Alabama and Mississippi Waters. 2000. **\$2000.00**

National Oceanic and Atmospheric Administration, National Marine Fisheries Service; The identification and characterization of shark nursery grounds in the northern Gulf of Mexico. 1997-2000. **\$158,589.00**

U.S. Fish and Wildlife Service, Mississippi Department of Wildlife Fisheries and Parks; Optimization of triploid hybrid crappie production. 1996-1997. **\$72,257.00**

Mississippi/Alabama Sea Grant; The application of artificial neural networks for modeling marine fish stocks, **\$119,407.00.** (Co-investigator with Drs. Robert Dorsey and John Johnson)

Mississippi/Alabama Sea Grant; The application of artificial neural networks for modeling marine fish stocks, **\$15,000.00.** (Co-investigator with Drs. Robert Dorsey and John Johnson)

U.S. Fish and Wildlife Service, Mississippi Department of Wildlife, Fisheries and Parks; An evaluation of triploid hybrid crappie in mixed species assemblages, 1992-1996, **\$152,248.00.**

CHP International; Peace Corp volunteer training in the aquaculture of Tilapia sp. at the University of Mississippi Biological Field Station, 1990-1991, **\$22,000.00,** (Co-principal investigator with Dr. John Rogers).

U.S. Fish and Wildlife Service, Mississippi Department of Wildlife Conservation; Studies of polyploid Pomoxis annularis and Pomoxis annularis x Pomoxis nigromaculatus hybrids, 1991-1992, **\$28,536.34.**

U.S. Fish and Wildlife Service, Mississippi Department of Wildlife, Fisheries, and Parks; Physiological comparisons between diploid and triploid white crappie, Pomoxis annularis, 1989 - 1991, **\$45,585.00** (Co- principal investigator during 1990 - 1991 with Dr. Joel Trexler.)

U.S. Department of Defense, United States Army Corp of Engineers; Energetics and swimming performance of white crappie, Pomoxis annularis: The effect of size and temperature, **\$60,753.99**.

U.S. Department of Defense, United States Army Corp of Engineers; Water Quality Monitoring on 5 Mississippi Flood Control Reservoirs. (Co-principal investigator with Drs. Luther Knight, John Rogers and Steve Threlkeld) **\$517,945.64**.

University of Mississippi Faculty Development Grant; Revision of non-majors biology laboratory courses, 1988, **\$1333.34**.

The Film Crew/National Geographic/British Broadcasting Corporation; Swimming efficiency in the bonnethead shark, 1991-1992, **\$350.00**.

University of Mississippi Faculty Small Grants Award; Swimming efficiency in the bonnethead shark, 1991-1992, **\$1000.00**.

Mississippi Wildlife Heritage Fund, "A status survey and habitat study of the northern madtom, Noturus stigmosus", 1990, **\$990.00** (Co-principal investigator with Mr. Larry Sylvester).

Mississippi Wildlife Heritage Fund, "A status survey of the northern madtom, Noturus stigmosus", in the Wolf and Hatchie River Drainages, 1989, **\$1,760.00**

Faculty Development Research Grant, University of Mississippi, A comparison of the respiratory energetics of diploid and triploid white crappie, Pomoxis annularis, 1988, **\$3,500.00**

Equipment support provided by the University of Mississippi, Department of Biology, 1987-1988, **\$14,000.00**

Mississippi Wildlife Heritage Fund, "A status survey of the northern madtom, Noturus stigmosus", 1988, **\$600.00**

Faculty Development Research Grant, University of Mississippi, 1988, **\$845.00**

Faculty Development Research Grant, University of Mississippi, 1987, **\$400.00**

Facility support awarded by the Sea World Marine Science and Conservation Center, 1982-1987.

Grant awarded by USF Marine Science Department, **\$300.00**, 1983.

Shiptime awarded by Florida Institute of Oceanography for use of the Research Vessel Bellows, 1983.

NOTABLE HONORS

Delegate to the SEUS-CP Conference in Newfoundland, Canada, July 26 to 28.
World Wildlife Fund Smartgear Competition, 2007 Runner-Up (\$10,000 prize)
World Wildlife Fund Smartgear Competition, 2006 Honorable Mention (see attached letter)
Nominated by Mississippi Department of Marine Resources to the Gulf of Mexico Fisheries Management Council, February, 2002.
Nominated by Mississippi Department of Marine Resources to the Gulf of Mexico Fisheries Management Council, February, 2001.
Nominated by The Center for Marine Conservation to the Gulf of Mexico Fisheries Management Council, March 2000.
Nominated by Governor Ronnie Musgrove to the Gulf of Mexico Fisheries Management Council, March 2000.
President, American Fisheries Society, MS Chapter, 1999-2000
President Elect, American Fisheries Society, MS Chapter, 1998-1999
Nominated for University of Mississippi Faculty Achievement Award, 1999-2000
Selected to Whos Who in Science and Engineering 1998-1999
Selected to Whos Who in the South and Southwest 1997-1998
Selected to Whos Who in American Education 1996-1997
Selected to Whos Who in Science and Engineering 1993-1994.
Graduate Research Fellowship, University of South Florida/Gulf Oceanographic Research Foundation, 9/85-5/86.
Graduate Research Fellowship, Dauphin Island Sea Lab, 10/79-9/80.

PUBLICATIONS

(Total Refereed Journal Articles and Refereed Book Chapters to Date: **52**)
(Names in color indicate my **undergraduate** or **graduate** students)

Published and In Press

Venn-Beecham, Rachel, C. Douglas Minchew, **Glenn R. Parsons** and Susan B. La Barre. 2009. Comparative swimming performance of juvenile blue catfish and hybrid catfish. North American Journal of Aquaculture. 71:.

Hoffmayer, Eric R., J. A. Sulikowski, **J. M. Hendon** and **Glenn R. Parsons**. 2008. Observations of plasma testosterone and estradiol concentrations in the mature male Atlantic sharpnose shark, *Rhizoprionodon terraenovae*, in the northern Gulf of Mexico. Env. Biol. of Fishes (in press)

Hoffmayer, Eric R., J. M. Hendon and Glenn R. Parsons. 2008. Effect of secondary stress response of Atlantic sharpnose sharks, *Rhizoprionodon terraenovae*, in the northern Gulf of Mexico. J. Fish Biology (in review).

Parsons, Glenn R. And Daniel G. Foster. 2007. Swimming performance and behavior of red snapper: Its application to by-catch reduction. In: *Biology of the Red Snapper*, American Fisheries Society. Refereed Book Chapter.

Parsons, Glenn R., E. R. Hoffmayer, J. Frank, and W. Bet-Sayad. 2007. A review of shark reproductive ecology: Life history and evolutionary implications. In: *Fish Reproduction*, Blackwell Publisher. Refereed Book Chapter.

Parsons, Glenn R. and E.R. Hoffmayer. 2007. Identification and characterization of shark nursery grounds along the Mississippi and Alabama gulf coasts. In: *Shark Nurseries, of the Atlantic and Gulf Coasts of the U.S.* American Fisheries Society publication. Refereed Book Chapter.

Venn-Beecham, Rachel, C.D. Minchew, and Glenn R. Parsons. 2007. Fatigue and recovery of blue and channel catfish fingerlings under flow and no-flow conditions. *North American Journal of Aquaculture*, 69.

Venn-Beecham, Rachel, C.D. Minchew, and Glenn R. Parsons. 2007. Comparative swimming performance of juvenile pond-cultured and wild-caught channel catfish. *North American Journal of Fisheries Management*, 27.

Bet-Sayad, Will V. And Glenn R. Parsons. 2007. Records of the giant North Pacific squid, *Onykia robusta*. *The Veliger*, 48:243-246.

Hoffmayer, E. R., Glenn R. Parsons and J. Horton. 2006. Seasonal and interannual variation in the energetic condition of adult male Atlantic sharpnose shark *Rhizoprionodon terraenovae* in the northern Gulf of Mexico. *Journal of Fish Biology*, 68:645-653.

Parsons, Glenn R. and Eric R. Hoffmayer. 2005. Seasonal changes in the distribution and relative abundance of the Atlantic sharpnose shark, *Rhizoprionodon terraenovae* in the north central Gulf of Mexico. *Copeia*, 2005:914-920.

Carlson, John K. and Glenn R. Parsons. 2003. Respiratory and hematological responses of the bonnethead shark, *Sphyrna tiburo*, to acute changes in dissolved oxygen. *Journal of Experimental Marine Biology and Ecology*. 294:15-26.

Lombardi-Carlson, L. A., E. Cortes, G. Parsons, and C. Manire. 2003. Latitudinal variation in life-history traits of bonnethead sharks, *Sphyrna tiburo*, (Carcharhiniformes:Sphyrnidae) from the eastern Gulf of Mexico. *Marine and Freshwater Research*. 54:875-883.

Hoffmayer, Eric. R. and Glenn R. Parsons. 2003. Food habits of three shark species from the

Mississippi Sound in the northern Gulf of Mexico. *Southeastern Naturalist*, 2:271-280.

Parsons, Glenn R. and **Peter Smiley**. 2003. The effect of environmental changes on swimming performance of the white crappie. *Journal of Freshwater Ecology*, 18:89-96.

Parsons, Glenn R., Jan J. Hoover and K. Jack Killgore. 2003. Effect of pectoral fin ray removal on station-holding ability of shovelnose sturgeon. *North American Journal of Fisheries Management*. 23:742-747.

Adams, S. Reid, **Ginny L. Adams** and **Glenn R. Parsons**. 2003. Critical swimming speed and behavior of juvenile shovelnose sturgeon and pallid sturgeon. *Trans. American Fisheries Society*, 132:392-397.

Hoffmayer, Eric and **Glenn R. Parsons**. 2002. Response to acute capture stress in the Atlantic sharpnose shark. *Physiological Zoology*.

Parsons, Glenn R., Walter Ingram and Ralph Havard. 2002. First record of the goblin shark in the Gulf of Mexico. *Southeastern Naturalist*, 1:189-192.

Carlson, J.K. and **Glenn R. Parsons**. 2001. The effects of hypoxia on three sympatric shark species: Physiological and behavioral responses. *Environmental Biology of Fishes*, 61:427-433.

Chan, M. and **Glenn R. Parsons**. 2000. Life history aspects of the brown madtom, *Noturus phaeus*. *Copeia*, 3:757-762..

Adams, S. Reid, **Ginny L. Adams** and **Glenn R. Parsons**. 2001. Critical swimming speed and behavior of juvenile shovelnose sturgeon and pallid sturgeon. *Transactions of the American Fisheries Society*. 132:392-397.

Carlson, John K., C.P. Palmer and **Glenn R. Parsons** 1999. Oxygen consumption rate and swimming efficiency of the blacknose shark, *Carcharhinus acronotus*. *Copeia*, 1:34-39.

Carlson, J.K. and **Glenn R. Parsons**. 1999. Seasonal differences in routine oxygen consumption rates of the bonnethead shark. *Journal of Fish Biology*, 55:876-879.

Parsons, Glenn R. and **J.K. Carlson**. 1998. Physiological and behavioral responses to hypoxia in the bonnethead shark, *Sphyrna tiburo*. *Fish Physiology and Biochemistry*, 19:189-196.

Adams, Reid S. and **Glenn R. Parsons** 1998. Seasonal changes in swimming performance, metabolic rate, and hematocrit of smallmouth buffalo (*Ictiobus bubalus*). *Physiological Zoology*, 71:350-358.

Boyd, G. and **Glenn R. Parsons** 1998. Swimming performance and behavior of golden shiner, *Notemigonus chrysoleucas*. *Copeia*, 1998:467-471.

- Adams, S. Reid, Glenn R. Parsons, J.J Hoover, and K.J. Kilgore.** 1997. Observations of swimming ability in shovelnose sturgeon, *Scaphirhynchus platyrhynchus*. *Journal of Freshwater Ecology*, 12:631-634.
- Parsons, Glenn R.** and K.O. Meals. 1997. Comparison of triploid hybrid crappie and diploid white crappie in experimental ponds. *North American Journal of Fisheries Management*, 17:803-806.
- Carlson, J. and Glenn R. Parsons.** 1997. Age and growth of the bonnethead shark from northwest Florida with comments on clinal variation. *Environmental Biology of Fishes*, 50:331-341.
- Smiley, P. and Glenn R. Parsons.** 1997. Effects of photoperiod and temperature on the swimming performance of white crappie. *Transactions of the American Fisheries Society*, 126:495-499.
- Cortes, E. and **Glenn R. Parsons** 1996. Comparative demography of two populations of the bonnethead shark, *Sphyrna tiburo*, *Canadian Journal of Fisheries and Aquatic Sciences*, 53:709-718.
- Parsons, Glenn R.** 1994. Notes on the status and life history of the northern madtom, *Noturus stigmosus*, in Mississippi. *Proceedings of the Southeastern Fishes Council*, 30:1-3.
- Adams, D.H., M.E. Mitchell and **Glenn R. Parsons** 1994. Seasonal occurrence of the white shark, *Carcharodon carcharias*, in waters off the Florida west coast, with notes on its life history. 56:24-28.
- Ortego, L.S., A.C. Nimrod, W.T. Brehm, **Glenn R. Parsons** and W. H. Benson 1994. Altered swimming performance of Japanese Medaka (*Oryzias latipes*) concomitant with polyamine biosynthetic inhibitors. *Ecotoxicology and Environmental Safety* 28:329-339.
- Parsons, Glenn R.** 1993. Age determination and growth of the bonnethead shark, *Sphyrna tiburo*: A comparison of two populations. *Marine Biology*, 117:23-31.
- Parsons, Glenn R.** 1993. Comparisons of triploid and diploid white crappies. *Trans. Am. Fish. Soc.*, 122:237-243.
- Parsons, Glenn R.** 1993. Geographic variation in reproduction among two populations of the bonnethead shark, *Sphyrna tiburo*. To be published as part of an American Society of Ichthyologists and Herpetologists symposium on elasmobranch reproduction. *Environmental Biology of Fishes* 38:25-35.

Sylvester, J.L. and **Glenn R. Parsons**. 1992. A preliminary investigation of respiration in the fathead minnow, *Pimephales promelas*. Journal of Aquariculture and Aquatic Sciences, 6:52-54.

Parsons, Glenn R. and J.L. Sylvester, Jr. 1992. Swimming efficiency of the white crappie, *Pomoxis annularis*. Copeia 4:1033-1038.

Parsons, Glenn R. and H. Grier 1992. Seasonal changes in shark testicular structure and spermatogenesis. American Society of Zoologists Symposium on Development of the Non-mammalian Chordate Testis. J. Exp. Zool., 261:173-184.

Parsons, Glenn R. 1991. Notes on the behavior of the bonnethead shark, *Sphyrna tiburo*, during birth. Journal of Aquariculture and Aquatic Sciences, 6:6-8.

Parsons, Glenn R. and K.A. Killam 1991. Activity patterns of the bonnethead shark, *Sphyrna tiburo*, Journal of Aquariculture and Aquatic Science, 6:8-13.

Parsons, Glenn R. 1990. Metabolism and swimming efficiency of the bonnethead shark, *Sphyrna tiburo*, Journal of Marine Biology, 104:363-367.

Parsons, Glenn R. and K. M. Peters 1989. Age determination of larval and juvenile sheepshead, *Archosargus probatocephalus*. Fishery Bulletin, 87:985-988.

McMichael, R., K. Peters and **Glenn R. Parsons** 1989. Early life history of common snook, *Centropomus undecimalis* in Tampa Bay, Florida. Northeast Gulf Science, 10:113-125.

Killam, K. A. and **Glenn R. Parsons** 1989. Age and growth of the blacktip shark, *Carcharhinus limbatus* near Tampa Bay Florida. Fishery Bulletin, 87:845-857.

Parsons, G.R. 1987. Life history and bioenergetics of the bonnethead shark, *Sphyrna tiburo*: A comparison of two populations. Ph.D. Dissertation, Univ. of South Florida, 170 pp.

Parsons, G.R. and S. Candaleri. 1986. Observations on the reproductive biology of the marbled catshark, *Galeus arae antillensis*, Northeast Gulf Science, 8:149-150.

Killam, K. and **G.R. Parsons**. 1986. First record of the longfin mako, *Isurus paucus* in the Gulf of Mexico. Fishery Bulletin, 84:748-749.

Parsons, Glenn R. 1985. Growth and age estimation of the Atlantic sharpnose shark, *Rhizoprionodon terraenovae*: A comparison of techniques. Copeia, 1:80-85.

Parsons, Glenn R. 1985. Notes on the life history of the catshark, *Scyliorhinus meadi*. Fishery Bulletin, 83(4):695-696.

Parsons, Glenn R. 1983. An examination of the vertebral rings of the Atlantic sharpnose shark, *Rhizoprionodon terraenovae*, Northeast Gulf Science 6(1):63-67.

Parsons, Glenn R. 1983. The reproductive biology of the Atlantic sharpnose shark, *Rhizoprionodon terraenovae*. Fishery Bulletin, 81(1):61-74.

Parsons, Glenn R. 1981. Growth and reproduction of the Atlantic sharpnose shark, *Rhizoprionodon terraenovae*, MS Thesis, University of South Alabama, 71 pp.

BOOKS PUBLISHED

Sharks, Skates and Rays of the Gulf of Mexico: A Field Guide. 2006. Published by The University Press of Mississippi, Jackson, Mississippi

PUBLICATIONS IN PREPARATION/IN REVIEW

Books

The Fishes: An Introduction to Fish Biology. This book prospectus is under preparation for Thomson Publishing. The book will be written for undergraduate classes in fish biology.

Coastal Fishes of Mississippi: Including Louisiana, Alabama and Northeast Florida. This book has been in preparation for several years because it is a huge undertaking. It will be a companion volume to the book on Inland Fishes of Mississippi written by Steve Ross. It is primarily a guide to the fishes of the gulf.

Research Papers

Gadepalli, R.V.S., E.R. Hoffmayer, **Glenn R. Parsons** and J.M. Rimoldi. Synthesis of 1-alpha hydroxy-corticosterone from corticosterone. Tetrahedron.

Rogers-Haggard, Angeline J. and **Glenn R. Parsons**. A study of hematological parameters in coastal sharks. To be submitted to: Fish Physiology and Biochemistry.

POPULAR ARTICLES PUBLISHED

A River Runs Through It- Again, An article concerning the re-rivering of the Tallahatchie River, Mid-South Hunting and Fishing News 1998

Big fish for small waters, An article about the use of triploid crappie for stocking small impoundments. Crappie World magazine. 1996

Don=t Club Those Gar, Attempted to dispel fishermen=s mis-conceptions about gar. Mid-South Hunting and Fishing News 1998

Topwater Fishing for Largemouth: The Final Analysis, Article about bass fishing. Mid-South Hunting and Fishing News 1998

Mid-South Walleye: A Gamefish in Peril, Problems with walleye populations. Mid-South Hunting and Fishing News. 1998

Small Crappie Syndrome: Its Cause and Cure@, An article about triploid crappie. Mid-South Hunting and Fishing News. 1998

CONSULTING

Consultant. Swimming performance of fish. U.S. Army Corps of Engineers, 1991, 1999, 2001

Consultant. Endangered species survey. Neel-Schaeffer Inc., Jackson, Mississippi, 1993.

Consultant. Survey of all vertebrates on the Army Ammunition Plant, John Stennis Space Center, 1999-2000.

TEACHING EXPERIENCE

University of Mississippi, Professor, 2001 - present.

University of Mississippi, Associate Professor, 1993-2000.

University of Mississippi, Assistant Professor, 1987-1992.

University of South Florida, General Ichthyology, Lab Instructor.

University of Alabama, Birmingham, Microbiology Lab Instructor.

GRADUATE STUDENT DIRECTION

Graduate students completed or currently under my direction.

1. Mr. Larry Sylvester, Masters

Thesis Title- Swimming performance and energetics in two fish species: A laboratory and field analysis.

Completion Date- July 1992

2. Mr. Peter Smiley, Masters
Thesis Title- The effects of photoperiod and temperature on swimming performance in fish.
Completion Date- August 1993
3. Mr. Matt Chan,, Masters
Thesis Title- Evaluation of triploid hybrid crappie in mixed species assemblages.
Completion Date- May 1994
4. Mr. Reid Adams, Masters
Thesis Title- Swimming performance of bigmouth and small mouth buffalo
Completion Date- Jan 1997
5. Mr. Jim Bartlett, Masters
Thesis Title- Swimming performance of channel catfish the effect of dissolved oxygen and digestive state
Completion Date- May 1998
6. Mr. John Carlson, Doctoral
Thesis Title- The effect of hypoxia on the behavior and physiology of bonnethead sharks
Completion Date- Oct 1998
7. Ms. Dalma Martinovic, Masters
Thesis Title- Training effects on swimming performance in the black-tailed redhorse
Completion Date- May 1999
8. Ms. Melissa Sandrene, Masters
Thesis Title- Age and growth of the Atlantic sharpnose shark
Completion Date- May 2000.
9. Ms. Angie Haggard, Masters
Thesis Title- A comparison of the oxygen-hemoglobin dissociation curves of various shark species
Completion Date- May 2000.
10. Ms. Linda Lombardi, Masters
Thesis Title- Comparisons of three populations of *Sphyrna tiburo*: Growth and density dependence
Completion Date- October, 2001.
11. Mr. Eric Hoffmeyer, Doctoral
Thesis Title, Physiological ecology of the Atlantic sharpnose shark, *Rhizoprionodon terraenovae* in the norht central Gulf of Mexico: Stress response and energetics

Completion Date- April, 2003

12. Ms. Rachel Venn, Doctoral
Thesis Title, Tilting tunnel respirometry of channel catfish.
Completion Date- April, 2004

13. Mr. Will Bet-Sayad, Masters
Thesis Title, Physiological parameters as indicators of activity level in twelve species of sharks
Completion Date- March, 2007

14. Ms. Erica Marsh, Masters (co-director)
Thesis Title,
Completion Date-

15. Mr. Bob Moye, Doctoral (co-director)
Thesis Title,
Completion Date

16. Ms Jill Frank, Doctoral
Thesis Title,
Completion Date,

17. Mr. Matthew Gaylord
Thesis Title, Not yet determined
Completion Date, In progress

ADDITIONAL GRADUATE STUDENT COMMITTEE SERVICE

Ph.D. committees

1. Ms. Renita Fernandez
2. Ms. Lisa Ortego
3. Mr. Ken Kallies
4. Mr. Jack Kilgore
5. Dr. Joseph Abraham, M.D.
6. Mr. Ben Cash
7. Mr. Jim Morrow
8. Mr. Chris Sims
9. Mr. Morgan Wilson
10. Mr. Heath Capello

11. Mr. Cameron Johnson

M.S. committees

1. Ms. Therese East
2. Mr. Jim Morrow
3. Ms. Joanne Cline
4. Ms. Belynda Garraway
5. Ms. Cheryl Atkinson
6. Ms. Andrea Dinep
7. Mr. Robin Robison
8. Mr. Nathan Baldwin
9. Mr. Tomoko Kikuchi
10. Mr. Nathan

GRADUATE COURSES DEVELOPED

Physiology of Aquatic Animals (graduate)
Physiological Ecology (graduate)
Fisheries Science (graduate)
Ichthyology (graduate)
Biological Oceanography (graduate)
Fishes of the Tropics (taught in Belize C.A.)
Evolutionary Physiology (graduate)

UNDERGRADUATE COURSES DEVELOPED

Marine Ichthyology
Marine Vertebrate Zoology (taught at Dauphin Island Sea Lab)
Human Anatomy and Physiology
Introductory Physiology
Biological Science I
Biological Science II
Aquatic Biology (I taught the limnology portion of this course)
Biological Science I Laboratory
Biological Science II Laboratory
Non-majors Biology I Laboratory
Non-majors Biology II Laboratory

OTHER PROFESSIONAL EXPERIENCE

Florida Department of Natural Resources, Marine Research Institute, Fisheries Section, Research Assistant. 1984-1987.

Research Fellow, Dauphin Island Sea Lab, Dauphin Island Alabama, 1980-1981.
Teaching Assistant, University of South Florida, 1985-1986.
National Marine Fisheries Service Finfish Survey, Coordinator, Alabama Coastal Region. 1979-1980.
University of Alabama, Birmingham, Biological Research Technician
1977-1978.
Southern Research Institute, Birmingham, Alabama, Chemical Research Technician, 1975-1977.

PAPERS PRESENTED

Parsons, Glenn R., SEUS-CP, Southeastern U.S.- Canadian Provinces Conference, July 26-28, Newfoundland, Canada. I was invited to present the results of some of my research at Newfoundland's Memorial University for the U.S. Southern Governors and Canadian Premiers.

Parsons, Glenn R., Gulf States Marine Fisheries Commission, Spring Meeting, March 2008, Galveston, TX. Bycatch reduction device testing in the Gulf of Mexico shrimp fishery.

Parsons, Glenn R. American Fisheries Society, Mississippi Chapter, 2008, Tunica, MS
Evaluation of bycatch reduction devices in the Gulf of Mexico shrimp fishery.

Parsons, Glenn R., Jan Hoover and Jack Killgore. Station holding ability in the shovelnose sturgeon, the effect of pectoral ray removal. American Fisheries Society, MS Chapter, 8-10 Feb., 2002.

Lombardi-Carlson, Linda, Enric Cortes and **Glenn R. Parsons**. Geographic variation in age and growth among three populations of the bonnethead shark. American Fisheries Society, Florida Chapter. Feb. 2002.

Hoffmayer, Eric and **Glenn R. Parsons**. Identification and characterization of shark nursery grounds of the northern Gulf of Mexico. American Society of Ichthyologists and Herpetologists. June, 2001.

Hoffmayer, Eric, **Glenn R. Parsons**, and Jeff Horton. Are inshore, shallow water nursery areas energetically demanding for the Atlantic sharpnose shark? American Society of Ichthyologists and Herpetologists, June 2001.

Hoffmayer, Eric, **Glenn R. Parsons**, and Jeff Horton. Seasonal variation in the energetic condition of the Atlantic sharpnose shark within nursery grounds of the Mississippi Sound. American Fisheries Society, MS Chapter. 14 to 16 Feb. 2001.

Parsons, Glenn R. Identification and characterization of shark nursery grounds of the northern Gulf of Mexico: The Final Assessment. American Fisheries Society, MS Chapter, 14 to 16 Feb. 2001.

Hoffmayer, Eric, **Glenn R. Parsons**, and Jeff Horton. The use of simple indices to quantify seasonal changes in the energy reserves of the Atlantic sharpnose shark in the northern Gulf of Mexico. Marine Sciences Graduate Student Symposium, 14 to 16 Feb. 2001.

Lombardi-Carlson, Enric Cortes and **Glenn R. Parsons**. Geographic variation in age and growth among three populations of the bonnethead shark in the Gulf of Mexico. Marine Sciences Graduate Student Symposium, 14 to 16 Feb. 2001.

Parsons, Glenn R. Shark nursery grounds of the northern Gulf of Mexico. American Fisheries Society, MS Chapter. 16 to 18 Feb. 2000

Haggard, Angeline and **Glenn R. Parsons**. A study of hematological parameters in coastal sharks of the northern Gulf of Mexico. American Fisheries Society, MS Chapter, 16 to 18 Feb. 2000.

Hoffmayer, Eric and **Glenn R. Parsons**. Investigating the acute stress response in small coastal species of sharks of the northern Gulf of Mexico. American Fisheries Society, MS Chapter, 16 to 18 Feb. 2000.

Sandrene, Melissa and **Glenn R. Parsons**. A study in progress: Age and growth of the Atlantic sharpnose shark in the northern Gulf of Mexico. American Fisheries Society, MS Chapter, 16 to 18 Feb. 2000.

Parsons, Glenn R. Identification and characterization of shark nursery grounds of the northern Gulf of Mexico. 12th Annual MARFIN Conference, 5-6 December, 2000.

Parsons, Glenn R. Progress report: Identification and characterization of shark nursery grounds in the northern Gulf of Mexico. American Fisheries Society, MS Chapter, 2-5, Feb. 1999.

Martinovic, Dalma and **Glenn R. Parsons**. Effect of endurance training on swimming performance and hematological characteristics in the grass carp, *Ctenopharyngodon idella* American Fisheries Society, MS Chapter, 2-5, Feb. 1999.

Hoffmayer, Eric and **Glenn R. Parsons**. Investigating 1-alpha hydroxycorticosterone and lactic acid levels in response to acute stress in small coastal species of sharks in the Northern Gulf of Mexico: a preliminary study. American Society of Ichthyologists and Herpetologists, 25-30 June 1999.

Sandrene, Melissa and **Glenn R. Parsons**. Age and growth of the Atlantic sharpnose shark in the Gulf of Mexico. American Society of Ichthyologists and Herpetologists, 25-30 June 1999.

Adams, D.H., M.E. Mitchell and **Glenn R. Parsons**. Seasonal occurrence of the white shark, Carcharodon carcharias, in waters off the Florida west coast American Society of Ichthyologists and Herpetologists New Orleans. Louisiana 6/13/96-6/19/96

Adams, S.R. and **Glenn R. Parsons**. Seasonal changes in swimming performance of smallmouth buffalo, Ictiobus bubalus, American Society of Ichthyologists and Herpetologists, New Orleans. Louisiana 6/13/96-6/19/96

Bartlett, J.H.W. and **Glenn R. Parsons**. The effect of dissolved oxygen levels and absorptive state on the swimming performance, respiration rates and hematocrit levels of juvenile channel catfish American Society of Ichthyologists and Herpetologists New Orleans. Louisiana 6/13/96-6/19/96

Boyd, G.L. and **Glenn R. Parsons**. Swimming performance and behavior of golden shiner while schooling. American Society of Ichthyologists and Herpetologists New Orleans. Louisiana, 6/13/96-6/19/96

Carlson, J.K. and **Glenn R. Parsons**. Swimming and respiratory responses of the bonnethead shark to hypoxia. American Society of Ichthyologists and Herpetologists New Orleans. Louisiana, 6/13/96-6/19/96

Adams, S.R., **Glenn R. Parsons** and Peter C. Smiley. Fishes of Indian Creek, Wolf River drainage, Meeting of the American Fisheries Society, Mississippi Chapter Jackson, Mississippi, 2/6/97-2/6/97

James H.W. Bartlett and **Glenn R. Parsons**. Meeting of the American Fisheries Society, Mississippi Chapter, Jackson, Mississippi, 2/6/97-2/6/97

Smiley, Peter and **Glenn R. Parsons**. The effect of photoperiod and temperature on the critical swimming speed of white crappie American Fisheries Society, Mississippi Chapter, Oxford, Mississippi, 2/1/95.

Boyd, Ginny, Jennifer Wong and **Glenn Parsons**, Swimming performance in schooling fish, BBB Biological Honorary National Meeting, Orlando, Florida, 1995.

Adams, Steven and **Glenn R. Parsons**, Swimming performance of the smallmouth buffalo, American Fisheries Society, Mississippi Chapter, Oxford, Mississippi, 2/1/95.

Chan, Matt and **Glenn R. Parsons**, Life history of the brown madtom, Noturus phaeus, American

Fisheries Society, Mississippi Chapter, Oxford, Mississippi, 2/1/95

Boyd, Ginny, Jennifer Wong and **Glenn R. Parsons**, Swimming performance of schooling fish, American Fisheries Society, Mississippi Chapter, Oxford, Mississippi, 2/1/95

Glenn R. Parsons, Optimal swimming in fish, American Society of Ichthyologists and Herpetologists, Austin, Texas, 27 May to 2 June, 1993.

Glenn R. Parsons, Studies of triploid and triploid hybrid crappies, American Fisheries Society, Portland, Oregon, 29 Aug. to 2 Sept., 1993, (invited speaker).

Glenn R. Parsons, Studies of triploid and diploid crappies, American Fisheries Society, Mississippi Chapter, Ocean Springs, MS, 2/25/93

Glenn R. Parsons, American Society of Zoologists, 1991. Swimming performance in the white crappie, Pomoxis annularis.

Glenn R. Parsons, Mississippi State University, 1991. Swimming performance in fish. Dept. of Biology Seminar Series. (invited speaker)

Glenn R. Parsons, Academic Showcase Lectures, University of Mississippi, Genetic Engineering of Crappie, 1991.

Glenn R. Parsons, American Society of Ichthyologists and Herpetologists, 1990 Symposium on Elasmobranch Reproductive Biology, (invited speaker)

Glenn R. Parsons, Mississippi Academy of Sciences, 1990.

Glenn R. Parsons, Memphis State University Colloquium on Reproductive Biology, 1990, (invited speaker)

Glenn R. Parsons, American Society of Zoologists Symposium, Development of the Non-mammalian Chordate Testis, 1989, (invited speaker).

Glenn R. Parsons, Southern Aquaculture Association, 1989. (invited speaker).

Glenn R. Parsons, Mississippi Academy of Sciences, 1988.

Glenn R. Parsons, American Society of Ichthyologists and Herpetologists, 1987.

Glenn R. Parsons, International Symposium on Recent Advances in the Captive Biology of Sharks, 1985, (invited speaker).

Glenn R. Parsons, Florida Chapter of the American Fisheries Society, 1984.

Glenn R. Parsons, Florida Dept. of Natural Resources Conference on Biology and Management of Redfish and Spotted Seatrout in Florida, 1984, (invited speaker).

Glenn R. Parsons, Alabama Academy of Science, 1981.

Glenn R. Parsons, American Society of Ichthyologists and Herpetologists, 1980.

PROFESSIONAL ORGANIZATIONS

American Fisheries Society

American Society of Ichthyologists and Herpetologists

HONORS

Adjunct Faculty, Mississippi State University, 1998-present

Awarded sabbatical leave, University of Mississippi, 1999

Graduated CUM LAUDE, University of Alabama, Birmingham, 1977.

Selected to Outstanding Young Men of America, 1983.

Awarded Research Fellowship, Dauphin Island Sea Lab, 1979.

Awarded Research Fellowship, Gulf Oceanographic Research Foundation, 1985.

Invited Speaker, University of South Florida Seminar Series, 1984.

Invited Speaker, International Symposium on Captive Biology of Sharks, National Aquarium in Baltimore, 1985.

Invited Speaker, Delta States Research Center, 1988.

Invited Speaker, American Society of Zoologists, Symposium on Development of the Non-Mammalian Chordate Testis, 1988.

Invited Speaker, Southern Aquaculture Association, 1989.

Invited Speaker, Nova University, 1990.

Invited Speaker, Georgia Southern University, 1990.

Invited Speaker, Memphis State University Colloquium on Biology in the Mid-South, 1990.

Invited speaker, Weeks Bay National Estuarine Research Reserve, Guest Lecture Series, 1/12/95.

Invited Speaker, Southern Illinois University Seminar Series, 1999.

Banquet Speaker, Marine Science Graduate Student Symposium, 2001.

Banquet Speaker, American Fisheries Society, MS Chapter, 2002.

Many other Invited Speaker invitaitons, too numerous to list.

REPORTS FOR FUNDING AGENCIES

- Final Report for MARFIN project, Oct. 1997 to Sept. 2000. Identification and Characterization of Shark Nursery Grounds of the Northern Gulf of Mexico, National Marine Fisheries Service, 9, 107 pages.
- Semi-Annual Progress Report for MARFIN project, April 1, 2000 to Sept. 30, 2000. Identification and Characterization of Shark Nursery Grounds, National Marine Fisheries Service, 9 pages
- Semi-Annual Progress Report for MARFIN project, Oct. 1, 1999 to March 30, 2000. Identification and Characterization of Shark Nursery Grounds, National Marine Fisheries Service, 10 pgs
- Semi-Annual Progress Report for MARFIN project, April 1, 1999 to Sept. 30, 1999. Identification and Characterization of Shark Nursery Grounds, National Marine Fisheries Service, 9 pages
- Semi-Annual Progress Report for MARFIN project, Oct. 1, 1998 to March 30, 1999. Identification and Characterization of Shark Nursery Grounds, National Marine Fisheries Service, 10 pgs
- Semi-Annual Progress Report for MARFIN project, April 1, 1998 to Sept. 30, 1998. Identification and Characterization of Shark Nursery Grounds National Marine Fisheries Service, 11 pages
- Semi-Annual Progress Report for MARFIN project, Oct. 1 1997 to March 30, 1998. Identification and Characterization of Shark Nursery Grounds National Marine Fisheries Service, 9 pages
- Final Report for period March 1, 1997 to Feb. 28, 1999. Optimization of triploid hybrid crappie production Mississippi Dept. of Wildlife Fisheries and Parks, 21 pages.
- Annual Performance Report for period Feb. 1, 1997 to Jan 31, 1998. Evaluation of triploid hybrid crappie in mixed species assemblages. Submitted to Mississippi Department of Wildlife, Fisheries, and Parks. 8 pages.
- Annual Performance Report for period July 1, 1995 to June 30, 1996. Evaluation of triploid hybrid crappie in mixed species assemblages. Submitted to Mississippi Department of Wildlife, Fisheries, and Parks. 2 pages.

Final Report for Mississippi Department of Wildlife, Fisheries, and Parks
 Evaluation of triploid hybrid crappie in mixed species assemblages.
 76 pages, 1996.

Final Report to The U.S. Army Corps of Engineers
 Swimming performance of selected freshwater fish species
 8 pages, 1996.

Annual Performance Report for period July 1 1994 to June 30, 1995. Evaluation of triploid hybrid crappie in mixed species assemblages.
 Submitted to Mississippi Department of Wildlife, Fisheries, and Parks.
 21 pages.

Final Report for Faculty Small Grants Award
 Submitted to Office of Research
 2 pages, 1995.

Progress report for period July 1 1992 to June 30, 1993. Evaluation of triploid hybrid crappie in mixed species assemblages.
 Submitted to Mississippi Department of Wildlife, Fisheries, and Parks.
 35 pages.

Final report to the Mississippi Department of Wildlife, Fisheries and Parks and the U.S. Army Corps of Engineers. Swimming performance of the white crappie: The effect of environmental change. March 1993.
 61 pages.

Final report for period June 1 1990 to May 31, 1992. Studies of polyploid Pomoxis annularis and P. annularis x P. nigromaculatus hybrids.
 Submitted to Mississippi Department of Wildlife, Fisheries, and Parks.
 37 pages.

Final annual report for period July 1, 1991 to June 30 1992. Monitoring water quality at Arkabutla, Sardis, Enid, and Grenada Lakes. Submitted to U.S. Army Corps of Engineers,
 51 pages.

Quarterly progress report for Jan. 1 to Mar. 31, 1992. Monitoring water quality at Arkabutla, Sardis, Enid, and Grenada Lakes. Submitted to U.S. Army Corps of Engineers,
 38 pages.

Performance report to the Mississippi Department of Wildlife, Fisheries and Parks,

concerning triploid crappie studies. April 1992.
2 pages.

Progress report for faculty research awards, "A test of optimality theory", August 1992.
3 pages.

RESEARCH CRUISE PARTICIPATION

R/V Caretta, 2004 to present. Numerous cruises for red snapper research.
R/V Tommy Munro, 1996. Marine ichthyology class field trips, Gulf Coast Research Lab.
R/V Rounsefell, R/V Flying Tiger, R/V Deborah B; Chief Scientist and participant on numerous
research cruises, Dauphin Island Sea Lab, 1978-1981.
R/V Bellows; Teaching assistant, Ichthyology class cruise, 9/83.
R/V Delaware II; Survey of Florida east coast deepwater fauna, 6/84.
R/V Hernan Cortez II; Sea map cruise to evaluate larval mullet distributions, 6/87.

REVIEWED GRANT PROPOSALS, BOOKS, AND MANUSCRIPTS FOR:

Marine Progress Series
General and Comparative Endocrinology
The Journal of Arachnology
The Journal of Fish Biology
American Midland Naturalist
Gulf Research Reports
The Southwestern Naturalist
Physiological Zoology
Fishery Bulletin
Northeast Gulf Science
Copeia
Zoo Biology
Florida Department of Natural Resources Publication Series
Australian Journals of Scientific Research
Australian Journal of Marine and Freshwater Research
Marine Biology
Journal of the Southeastern Association of Fish and Wildlife Agencies
Environmental Biology of Fishes
Texas A&M University Press
Allan and Bacon Publishers
Great Outdoors Publishing
Harper and Row Publishers
Macmillan Publishing

Saunders College Publishing
National Marine Fisheries Service, MARFIN Program
National Marine Fisheries Service, S-K Program
National Science Foundation

MISCELLANEOUS

Curator of the Department of Biology, Ichthyological Museum, 1995- present.
Chaired the Physiology of Fishes@ section at the American Society of Ichthyologists and Herpetologists Annual Meeting in New Orleans, 6/18/96.
Faculty Advisor, Beta Beta Beta Biological Honorary, 1991-1996
Co-Editor, Journal of the Mississippi Chapter of the American Fisheries Society
Organized and Conducted, Teaching Assistants Workshop, 1989, 1990, 1991
Undergraduate Studies Advisory Committee
Consultant, National Geographic Society/British Broadcasting Corporation production of video on shark diversity.
Consultant, Corps of Engineers, 1991, 1999
Consultant, Neel-Schaeffer Inc., Jackson, Mississippi, 1993
Conducted fact finding trip to Belize, C.A. for University of Mississippi/American University International Educational Program

RECENT SERVICE: UNIVERSITY, DISCIPLINE, COMMUNITY

Committees

Chair, Executive Committee American Fisheries Society, MS Chapter, 1999-2000
Search Committee Chair, Microbiologist Position, 1998
Search Committee for Chair of Department of Physics, 1996
Search Committee for Chair of Department of Biology, 1997
Chairman of Graduate Studies Committee, 1995-1997
Chairman of Microbial Ecologist Search Committee, 1997- present
Eco-Physiologist Search Committee, 1996
Biological Field Station User Committee 1995-1997
Physiology Facilities Committee, 1996
Freshman Biology Textbook Review Committee, 1996
Office of Research, Faculty Research Program Review Committee, 1995-present
Biological Field Station Director, Search Committee
Biological Field Station User Committee
Undergraduate Studies Committee
Student Travel Committee, American Fisheries Society
Standing University Committee on Refunds

Faculty Representative on the Liberal Arts

Sesquicentennial Celebration Committee

Biology Dept. Sesquicentennial Celebration Sub-Committee (Chair)

Local Arrangements Committee, Annual meeting of the American Fisheries Society. 1999

Coordinator, Avent Park Playground Project. I was one of the coordinators during the construction of a new playground in Oxford. An all volunteer and donated funds project. 1998

Judge for the Lafayette Elementary Science Fair, 1997, 1998.

Judge, for the Region 7 Science Fair, 1988, 1989, 1990, 1991, 1997, 1998.