

# Cortney L. Ohs

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## EDUCATION

Doctorate of Philosophy in Wildlife and Fisheries Science / Aquaculture 2003  
Mississippi State University Department of Wildlife and Fisheries

Dissertation Title: Development of Methodology to Control Gender Differentiation and Male Morphotypic Expression in the Freshwater Prawn *Macrobrachium rosenbergii*.

Masters of Science in Wildlife and Fisheries Ecology / Aquaculture 1995  
Mississippi State University Department of Wildlife and Fisheries

Thesis Title: The development and evaluation of a spray-dried artificial diet for larval culture of freshwater prawn (*Macrobrachium rosenbergii*), hybrid striped bass (*Morone saxatilis* x *M. chrysops*) and striped bass (*M. saxatilis*).

Bachelors of Science in Biology 1992  
Nebraska Wesleyan University  
Minors in English Composition, Chemistry, Physics

Tropical Marine Biology Summer Field Course  
Oklahoma State University San Salvador Island, Bahamas 1991

## PROFESSIONAL EXPERIENCE

2005 – Present University of Florida, Department of Fisheries and Aquatic Sciences, Indian River Research and Education Center, Assistant Professor  
2003 - 2005 Southern Illinois University, Office of Economic and Regional Development, Fisheries and Illinois Aquaculture Center, Assistant Scientist  
1996 – 2003 Mississippi State University Department of Wildlife and Fisheries, National Warmwater Aquaculture Center Eastern Research Unit, Aquaculture Research Associate I - II  
1993 – 1995 Mississippi State University/MAFES Aquaculture Research Unit, Graduate Research Assistant

## PUBLICATIONS

### SCIENTIFIC JOURNAL ARTICLES

Ohs, C.L. and L.R. D'Abramo. 2006. Comparison of early season versus late season trap schedules for harvest of Red Swamp Crawfish *Procambarus clarkii* cultured in earthen ponds without planted forage. *Journal of Shellfish Research* 25(2): 561-564.

Ohs, C.L., L.R. D'Abramo, and A.M. Kelly. 2006. Evaluation of dietary administration of 17 $\alpha$ -methyltestosterone to freshwater prawn *Macrobrachium rosenbergii* as a means to control sexual differentiation. *Journal of the World Aquaculture Society* 37(3): 328-333.

Ohs, C.L., L.R. D'Abramo, L. Petrie-Hanson, and A.M. Kelly. 2006. Apparent control of sexual differentiation of freshwater prawn *Macrobrachium rosenbergii* through dietary administration of dopamine hydrochloride. *Journal of Applied Aquaculture* 18(3): 19-32.

D'Abramo, L.R., C.L. Ohs, and K.C.E. Elgarico. 2006. Effect of added substrate on production of red swamp crawfish (*Procambarus clarkii*) in earthen ponds without planted forage. *Journal of the World Aquaculture Society* 37(3): 307-312.

D'Abramo, L.R., C.L. Ohs, and T.R. Hanson. 2004. Effect of stocking weight and stocking density on production of hybrid striped bass (sunshine) in earthen ponds in the second phase of a 2-phase system. *Journal of the World Aquaculture Society* 35(1): 33-45.

D'Abramo, L. R., C.L. Ohs and K.C. Elgarico. 2003. Production of red swamp crawfish (*Procambarus clarkii*) in earthen ponds without planted forage: Evaluation of trap and seine harvest strategies. *Journal of Shellfish Research* 22(2): 527-531.

D'Abramo, L.R., and C.L. Ohs. 2003. Production of red swamp crawfish (*Procambarus clarkii*) in earthen ponds without planted forage: establishment, maintenance, and harvest of populations. *Journal of Shellfish Research* 22(2): 521-525.

Kovalenko, E.E., L.R. D'Abramo, C.L. Ohs, and R.K. Buddington. 2002. A successful microbound diet for the larval culture of freshwater prawn (*Macrobrachium rosenbergii*). *Aquaculture* 210(1-4): 385-395.

D'Abramo, L.R., C.L. Ohs, T.R. Hanson, and J.B. Taylor. 2002. Production and Economic Analysis of two-phase and three-phase culture of sunshine bass in earthen ponds. *North American Journal of Aquaculture* 64(2): 103-112.

D'Abramo, L.R., C.L. Ohs, and J.B. Taylor. 2000. Effects of reduced levels of dietary protein and menhaden fish meal on production, dressout and biochemical composition of phase III sunshine bass (*Morone chrysops* x *M. saxatilis*) cultured in earthen ponds. *Journal of the World Aquaculture Society* 31: 316-325.

Ohs, C.L., L.R. D'Abramo, R.K. Buddington, H.R. Robinette, J.M. Roethke. 1998. Evaluation of a spray-dried artificial diet for larval culture of freshwater prawn, *Macrobrachium rosenbergii*, and striped bass, *Morone saxatilis*. *Aquaculture Nutrition* 4: 73-82.

## **BOOK CHAPTER**

D'Abramo, L.R., C.L. Ohs. 2005. Management practices for production of the red swamp crayfish *Procambarus clarkii* in earthen ponds without planted forage. Aquaculture in the 21<sup>st</sup> Century. Eds. A.M. Kelly and J. Silverstein. American Fisheries Society Symposium 46: 171-178. American Fisheries Society, Bethesda, MD.

## **EXTENSION PUBLICATIONS**

Cortney L. Ohs, Scott W. Grabe, R. LeRoy Creswell. 2005. Utilizing a Fish Pump for Harvesting Shrimp from Tanks and Ponds. University of Florida EDIS Publication FA123.

D'Abramo, L.R., C.L. Ohs, M.W. Fondren, J. Steeby, and B. Posadas. 2003. Culture of freshwater prawn (*Macrobrachium rosenbergii*) in temperate climates. Mississippi Agricultural and Forestry Experiment Station Bulletin 1138.

D'Abramo, L.R., C.L. Ohs, T.R. Hanson, and J.L. Montanez. 2002. Production of the red swamp crayfish *Procambarus clarkii* in earthen ponds without planted forage: management practices and economics. Mississippi Agricultural and Forestry Experiment Station Bulletin 1115.

## **REGIONAL AQUACULTURE EXTENSION PUBLICATIONS**

Louis R. D'Abramo, James H. Tidwell, Mack Fondren and Cortney L. Ohs. 2006. Pond Production of the Freshwater Prawn in Temperate Climates. Southern Regional Aquaculture Center Number 484.

D'Abramo, Louis R., Cortney L. Ohs, Terrill R. Hanson, and Jose L. Montanez. 2004. Semi-intensive production of red swamp crawfish in earthen ponds without planted forage. Southern Regional Aquaculture Center Publication Number 2401.

## **NEWSLETTER AND TRADE ARTICLES**

Ohs, Cortney L. 2006. Trials test effects of hormone-supplemented feed on sex reversal of freshwater prawns. Global Aquaculture Advocate. November 2006.

Ohs, Cortney. 2004. Polyculture and intercropping opportunities with freshwater prawns. United States Freshwater Prawn and Shrimp Growers Association Newsletter. Spring 2004.

Kasper, Craig and Cortney Ohs. 2004. The Fisheries and Illinois Aquaculture Center at Southern Illinois University. Fish Culture Section of the American Fisheries Society Newsletter. March 2004.

Ohs, Cortney. 2003. Potential for pond culture of hybrid striped bass in Southern Illinois. Illinois Aquaculture Industry Association Newsletter. Fall 2003.

## **TEACHING**

- Guest Lecturer (2 lectures): Crustacean Aquaculture BIO 4625 (Florida Institute of Technology 2006)
- Guest Lecturer: Crustacean Aquaculture FAS 2150 (Indian River Community College 2006)
- Instructor: An Introduction to Aquaculture Through Distance Learning Zoo 485 (Southern Illinois

University 2005)

-Guest Lecturer (2 lectures): Comparative Endocrinology Zoo 426 (Southern Illinois University 2005)

-Substitute Lecturer (7 lectures, 2 labs): Environmental Physiology of Fish Zoo 565 (Southern Illinois University 2004)

-Laboratory Assistant: Crustacean and Molluscan Aquaculture WF 6193 (Mississippi State University 1996, 1998, 2000)

-Laboratory Assistant: Fish Physiology WF 6173 (Mississippi State University 1996, 1998, 2000, 2002)

-Volunteer Academic Advisor (Academic Advising Center: Mississippi State University)

## PRESENTATIONS

Pond Construction. Pond Management In-service Training. 2006. Department of Fisheries and Aquatic Sciences Gainesville, FL.

Pond Stocking and Management. Pond Management In-service Training. 2006. Department of Fisheries and Aquatic Sciences Gainesville, FL.

Emerging aquaculture species and production systems in Florida. St. Lucie County Ag Tour 2006. Fort Pierce, FL.

Control of sexual differentiation of freshwater prawn *Macrobrachium rosenbergii* through dietary administration of dopamine hydrochloride. Aquaculture America 2006, Las Vegas, NV.

Future aquaculture research at the University of Florida Indian River Research and Education Center. Aquaculture In-service Training. Shrimp culture techniques. 2006. Indian River Research and Education Center Fort Pierce, FL.

Florida aquaculture – new opportunities for agriculture. Indian River Citrus Seminar 2006. St. Lucie County Fairgrounds, Fort Pierce, FL.

Offshore Aquaculture. Fish and Wildlife Research Institute Community, Science, and Environmental Policy Brown Bag Discussion 2005, University of South Florida St. Petersburg, FL.

Managing the fish in your pond for sport and recreation - How to catch the big one. Pond Management Meeting 2004, University of Illinois Extension Carbondale, IL.

Increasing production and lowering costs of freshwater prawn production in Illinois. Shawnee Freshwater Prawn Growers Association Annual Meeting 2004, Shawnee Community College Ullin IL.

Overview of freshwater prawn culture in temperate climates. Purdue University Cooperative Extension Service - Distance Learning Workshop 2004, Southern Illinois University Carbondale, IL.

An overview of hybrid striped bass production methods. Purdue University Cooperative Extension Service - Distance Learning Workshop 2004, Southern Illinois University Carbondale, IL.

Status of culture and marketing of freshwater prawns in Illinois. United States Freshwater Prawn and Shrimp Growers Association 2004, Tunica, MS.

Freshwater prawn culture: requirements for a commercial scale clearwater hatchery. Freshwater Prawn Hatchery Workshop 2003, Carbondale, IL.

Comparison of two trap harvest schedules for red swamp crayfish *Procambarus clarkii* cultured in earthen ponds without planted forage. Aquaculture America 2003, Louisville, KY.

The relative effects of low stocking density, size grading, and substrate on the production of freshwater prawns grown in earthen ponds. Aquaculture America 2003, Louisville, KY.

Nursery culture techniques for freshwater prawn. United States Farm Raised Freshwater Prawn and Shrimp Growers Association Meeting 2002. Delta Research and Extension Center, Stoneville, MS.

Freshwater prawn nursery and pond growout techniques. Freshwater Prawn Workshop 2001, Mississippi Agricultural and Forestry Experiment Station Eastern Research Unit, Macon, MS.

Nursery and pond growout techniques for culture of freshwater prawn, *Macrobrachium rosenbergii*, in temperate climates. Freshwater Prawn Workshop 2000, MSU, Mississippi.

Effects of reduced levels of dietary protein and menhaden fish meal on production, dressout and biochemical composition of phase III sunshine bass (*Morone chrysops x M. saxatilis*) cultured in earthen ponds. Aquaculture America 2000, New Orleans, Louisiana.

Evaluation of a reduction of dietary menhaden fish meal in production diets for phase III sunshine bass. American Fisheries Society, Mississippi Chapter 1999, MSU, Mississippi.

Management practices for non-forage based pond production of red swamp crayfish. World Aquaculture Society 1998, Las Vegas, Nevada.

## SCIENTIFIC ABSTRACTS

Ohs, C.L., L.R. D'Abramo, L. Petrie-Hanson, and A.M. Kelly. 2006. Control of sexual differentiation of freshwater prawn *Macrobrachium rosenbergii* through dietary administration of dopamine hydrochloride. Aquaculture America 2006, Las Vegas, NV. p. 215.

D'Abramo, L.R., B.C. Posadas, and C.L. Ohs. 2004. Low input pond culture of the freshwater prawn in temperate climates. World Aquaculture 2004, Honolulu, HI.

D'Abramo, L.R., and C.L. Ohs. 2003. Increase of mean individual harvest weight of freshwater prawns grown in earthen ponds through stocking of size-graded juveniles. Aquaculture America 2003, Louisville, KY. p. 65.

D'Abramo, L.R., and C.L. Ohs. 2003. Effect of stocking weight and density on production of sunshine bass in earthen ponds representing the second phase of a two phase growout. Aquaculture America 2003, Louisville, KY. p. 65.

Hanson, T.R., L.R. D'Abramo, and C.L. Ohs. 2003. Economic analysis of 2-phase final growout of hybrid striped bass under two stocking rates and two stocking densities. Aquaculture America 2003, Louisville, KY. p. 109.

D'Abramo, L.R., and C.L. Ohs. 2003. Comparison of two trap harvest schedules for red swamp crayfish *Procambarus clarkii* cultured in earthen ponds without planted forage. Aquaculture America 2003, Louisville, KY. p. 210.

Ohs, C.L., and L.R. D'Abramo. 2003. The relative effects of low stocking density, size grading, and substrate on the production of freshwater prawns grown in earthen ponds. *Aquaculture America* 2003, Louisville, KY. p. 210.

D'Abramo, L.R., E. E. Kovalenko, C.L. Ohs, and R.K. Buddington. 2002. Complete replacement of *Artemia* with a microparticulate diet for the larval culture of the freshwater prawn *Macrobrachium rosenbergii*. *Aquaculture America* 2002, San Diego, CA. p. 77.

Slocum, C.L., L.R. D'Abramo, and C.L. Ohs. 2002. Evaluation of different formulated baits for trap harvest of the red swamp crawfish *Procambarus Clarkii* at water temperatures <19C. *Aquaculture America* 2002, San Diego, CA. p. 312.

D'Abramo, L.R., C.L. Ohs, and K.C. Elgarico. 2001. Culture of the red swamp crayfish *Procambarus clarkii* in earthen ponds without planted forage. *World Aquaculture Society* 2001, Orlando, Florida. p. 153.

D'Abramo, L.R., C.L. Ohs, T.R. Hanson, and J.B. Taylor. 2001. Comparison of two phase and three phase growout of hybrid striped bass in earthen ponds. *World Aquaculture Society* 2001, Orlando, Florida. p. 151.

D'Abramo, L.R., K.C. Elgarico, and C.L. Ohs. 2001. Increased production of red swamp crawfish in earthen ponds without planted forage through the addition of vertical substrate to the water column. *World Aquaculture Society* 2001, Orlando, Florida.. p. 152.

D'Abramo, L.R., C.L. Ohs, and J.B. Taylor. 2000. Effects of reduced levels of dietary protein and menhaden fish meal on production, dressout and biochemical composition of phase III sunshine bass, *Morone chrysops x M. saxatilis*, cultured in earthen ponds. *Aquaculture America* 2000, New Orleans, Louisiana. p. 251.

Elgarico, K.C., L.R. D'Abramo, and C.L. Ohs. 2000. The effect of plastic substrate on production of red swamp crayfish *Procambarus clarkii* cultured in earthen ponds without planted forage. *Aquaculture America* 2000, New Orleans, Louisiana. p. 97.

D'Abramo, L.R., C.L. Ohs, and K.C. Elgarico. 2000. Management practices for the culture of red swamp crawfish *Procambarus clarkii* in earthen ponds without planted forage. *Aquaculture America* 2000, New Orleans, Louisiana. p. 75.

D'Abramo, L.R., C.L. Ohs, and J.B. Taylor. 1999. Evaluation of a reduction of dietary menhaden fish meal in production diets for phase III sunshine bass. *American Fisheries Society, Mississippi Chapter* 1999, MSU, Mississippi.

D'Abramo, L.R., W.H. Jun, and C.L. Ohs. 1999. Evaluation and development of a nutritionally complete egg albumin based microparticulate diet for the culture of fish and crustacean larvae. *American Fisheries Society, Mississippi Chapter* 1999, MSU, Mississippi.

D'Abramo, L.R., K.C. Elgarico, and C.L. Ohs. 1999. An evaluation of seining versus trap harvest at different temperatures and different trapping efforts in non-forage based crayfish *Procambarus clarkii* production ponds. *Aquaculture America* 1999, Tampa, Florida. p. 39.

D'Abramo, L.R., H.W. Jun, and C.L. Ohs. 1998. Egg albumin based microparticulate diets for the culture of fish and crustacean larvae. World Aquaculture Society 1998, Las Vegas, Nevada. p. 131.

D'Abramo, L.R., and C.L. Ohs. 1998. Management practices for non-forage based pond production of red swamp crayfish. World Aquaculture Society 1998, Las Vegas, Nevada. p. 392.

D'Abramo, L.R., J.A. Sullivan, and C.L. Ohs. 1997. Intercropping of red swamp crayfish *Procambarus clarkii* and freshwater prawn *Macrobrachium rosenbergii*. World Aquaculture Society 1997, Seattle, Washington. p. 113.

D'Abramo, L.R., J.A. Sullivan, and C.L. Ohs. 1996. Pond culture of red swamp crayfish in non-forage based ponds: effect of different stocking densities on production characteristics. International Association of Astacology 11th Symposium, Thunder Bay, Ontario, Canada. p. 45.

### **PROFESSIONAL ASSOCIATION MEMBERSHIP**

World Aquaculture Society  
World Aquaculture Society United States Chapter  
American Fisheries Society  
American Fisheries Society Fish Culture Section  
Florida Aquaculture Association  
International Association of Astacology  
United States Freshwater Prawn and Shrimp Growers Association  
Shawnee Freshwater Prawn Growers Association

### **PROFESSIONAL SERVICE**

#### **Editor:**

American Fisheries Society Fish Culture Section Newsletter 2003 - 2005

#### **Reviewer:**

Journal of the World Aquaculture Society  
North American Journal of Aquaculture  
Aquaculture Nutrition  
Aquaculture International  
Small Business Innovation Research: Aquaculture Grant Program  
Haworth Press Inc.  
Center for Tropical and Subtropical Aquaculture  
Maine Aquaculture Innovation Center

### **WEBSITES CREATED AND MAINTAINED**

Fish Culture Section of the American Fisheries Society: <http://fishculturesection.org>

United States Freshwater Prawn and Shrimp Growers Association: <http://freshwaterprawn.org>

Shawnee Freshwater Prawn Growers Association: <http://shawneeprawn.org>