

JOHN SCARPA

Texas A&M University - Corpus Christi
Department of Life Sciences
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EDUCATION:

- Ph.D. Wildlife and Fisheries Sciences, Texas A&M University, College Station, Texas.
- M.S. Marine Studies-Biology, University of Delaware, Newark, Delaware.
- B.S. Marine Sciences-Biology, Long Island University: Southampton College, Southampton, New York.
- A.S. Liberal Arts, Nassau Community College, Garden City, New York.

POSITIONS:

Associate Professor: Texas A&M University at Corpus Christi, Department of Life Sciences. Fall 2014 – present.

Courtesy Affiliate Research Professor: Harbor Branch Oceanographic Institute at Florida Atlantic University, Aquaculture and Stock Enhancement Program. Fall 2014 – present.

Research Professor: Harbor Branch Oceanographic Institute at Florida Atlantic University, Aquaculture and Stock Enhancement Program. Summer 2009 – Summer 2014.

Assistant Professor – Courtesy Appointment: University of Florida, School of Forest Resources and Conservation - Fisheries & Aquatic Sciences, Gainesville, Florida. Spring 2008 – present.

Adjunct Instructor: Indian River State College, Ft. Pierce, Florida. Summer 1994 – Summer 2014.

Associate Graduate Faculty Member: Florida Institute of Technology, Biology Dept., Melbourne, Florida. Summer 1996 – Summer 2008.

Associate Research Professor: Harbor Branch Oceanographic Institute at Florida Atlantic University, Aquaculture and Stock Enhancement Program. Spring 2008 - Spring 2009.

Associate Scientist: Harbor Branch Oceanographic Inst., Inc., Aquaculture Division. Fall 1999 - Fall 2007.

Research Associate II: Harbor Branch Oceanographic Inst., Inc., Aquaculture Division. Summer 1996 - Fall 1999.

Research Associate I: Harbor Branch Oceanographic Inst., Inc., Aquaculture Division. Fall 1995 - Spring 1996.

Postdoctoral Fellow: Harbor Branch Oceanographic Institution, Inc., Aquaculture Division. Fall 1993 - Summer 1995.

Instructor: CUNY Lehman Hiroshima College, Chiyoda, Hiroshima-ken, Japan. Summer 1993.

NSF/STA Postdoctoral Fellow: National Research Institute of Aquaculture, Genetics Division, Mie-ken, Japan. Fall 1991 - Spring 1993.

Research Associate: Rutgers - The State University of New Jersey, Department of Oyster Culture, Port Norris, New Jersey. Fall 1989 - Summer 1991.

HONORS AND AWARDS:

United States Aquaculture Society: Distinguished Service Award (2011)

<http://www.tcpalm.com/news/2011/mar/23/harbor-branch-fau-researcher-lauded-for-aquacultur/>

Indian River Community College:

- Outstanding Adjunct Faculty Member 2007

Harbor Branch Oceanographic Institution, Inc.:

- Competitive Postdoctoral Fellowship, Sept. 1994
- Competitive Postdoctoral Fellowship, Sept. 1993

Science and Technology Agency of Japan (administered by NSF):

- Competitive Postdoctoral Fellowship, Nov. 1991

American Fisheries Society TAMU Chapter:

- Best Paper: 1987 Technical Session

Long Island University:

- LIU Presidential Scholarship
- NY State Regents Scholarship
- Tri-Beta National Biological Society
- LIU Student Service Award

Nassau Community College:

- Cum Laude Honors
- NY State Regents Scholarship

PROFESSIONAL MEMBERSHIPS:

- American Microscopical Society (Lifetime Member)
- Florida Marine Science Educators Association (Lifetime Member)
- National Shellfisheries Association (Member, *Co-Chair of Membership Committee 2004; Treasurer 2011-2014, 2014-2017*)
- Society for Integrative and Comparative Biology, formerly American Society of Zoologists (Lifetime Member)
- United States Aquaculture Society (Lifetime Member, *Technical Program Chairman for Aquaculture America 2008; Member-at-Large 2008-2012*)
- World Aquaculture Society (Lifetime Member)

RESEARCH SUPERVISION:

Postdocs:

Ms. Holly Nance, Ph.D., Clemson (HBOI-FAU 2010, co-supervised with C.E. Proffitt and S. Laramore)

Mr. William "Bill" J. McGraw, Ph.D., Auburn (HBOI 2002)

Mr. Mohamed Farooq Anwar, Ph.D., India (HBOI 2001, deceased)

Graduate Students:

Supervisor:

Ms. Liliana Lloreda, FAU, Biology, MS (2012, moved to non-thesis Environmental Sciences program)

Ms. Elyse Steiner, FAU, Integrative Biology, PhD (2012, moved to Educational Leadership program)

Ms. Eman El-Wazzan, Florida Tech, Biology, PhD 2008

Ms. Susan E. Laramore, Florida Tech, Biology, PhD 2006

Ms. Eva M. Fernandez, Florida Tech, Biology, MS 1997

Committee Member:

Ms. Panayiota “Penny” Makris, University of Central Florida, Biology (expected May 2016)
Ms. Phyllis Klarmann, FAU, Biology, MS current (expected May 2015)
Mr. Pedro Lara, FAU, Biology, MS current (expected Dec 2014)
Ms. Wei “Samantha Wright” Yuan, University of Central Florida, Biology, MS 2014
Ms. Melissa Broderick, University of Florida, Fisheries & Aquatic Sciences, MS 2011
Ms. Hilde Zenil Becerra, FAU, Environmental Sciences, MS 2011
Ms. Lisa Draughon, FAU, Integrative Biology, Ph.D. 2010
Mr. Julian DiGialleanardo, FAU, Biology, MS 2007
Ms. Krystal Baird, FAU, Biology, MS 2006

Undergraduate/Graduate Intern Mentor:

Phyllis Klarmann, Florida Atlantic University, HBOI Link 2014
Madelyn E. Russell, Florida Atlantic University, Directed Independent Study 2013
Joseph Brooker, Florida Atlantic University, HBOI Link 2013 (co-mentor with Dr. P. Wills)
Lawrence Baur, Indian River State College, FL COSEE 2013
Tara Ferland, Indian River State College, FL COSEE 2013
Matthew Russell, Florida Atlantic University, HBOI Link 2012
Hannah Kolb, Florida Tech, HBOI Link 2011
Rebecca Wayne, Indian River State College, FL COSEE 2011
Christopher Tolliver, Indian River State College, FL COSEE 2011
Michelle Harangody, Miami University, HBOI Link 2008
Lisa Draughon, Florida Atlantic University, HBOI Link 2005
Blake Carrington, Novozymes Biologicals 2003
Eman El-Wazzan, Florida Tech, HBOI Link 2003
Carla Lema Tome, Florida Tech, PharmaMar 2002 (with Dr. A. Duckworth)
Carla Lema Tome, Florida Tech, HBOI Link 2001
Janine L. Ladson, NSF Bridge to Research 1999
Nikita Stodghill, NSF Bridge to Research 1999
Matthew O’Neill, HBOI Link 1998
Whitney Rapp, HBOI Link 1997 (with Mr. R.L. Creswell)
Vanessa Olivera, NSF Bridge to Research 1996
Shunder Simmons, NSF Bridge to Research 1996
Anne Ford, HBOI Link 1996 (with Dr. A. Wright)
Bronwyn Weis, HBOI Link 1996 (with Dr. A. Wright)
Randolph McEvoy, HBOI Link 1996 (with Mr. R.L. Creswell)
Samantha LaPointe, College of Boca Raton, HBOI Link 1995 (with Dr. D. Vaughan)
Chad Leonard, St. Lawrence University, HBOI Link 1995 (with Mr. R.L. Creswell)
Esther Martinez, University of British Columbia, HBOI Link 1994 (with Dr. D. Vaughan)
K. Jill Schukert, Middle Tennessee University, HBOI Link 1994 (with Mr. K. Brown and Dr. A. Wright)

SELECT CONTRACTS, GRANTS, AWARDS (last 5 yrs):

Scarpa, J., Laramore, S.E. and Creswell, R.L. 2014-2015. Increasing Shrimp Production in Florida by Establishing Environmental Mineral Guidelines for Low-Salinity Shrimp Culture Operations. Florida Aquaculture Review Council, \$87.8K.

Scarpa, J. 2013-2015. Revitalizing the Hard Clam Aquaculture Industry in the Southeastern U.S. through Transferring Technology on Sunray Venus Clam, *Macrocallista nimbosa*, Production. Subcontract on NOAA Sea Grant (Proj. R/LR-A-51-FAU) to L. Sturmer of UF, \$38.4K.

Scarpa, J. 2013-2014. Supplement to An Initiative to Design and Demonstrate a Prototype Integrated Multi-Trophic Aquaculture System for Sustainable Land-Based Aquaculture: Extractive Component – Oysters; Linking Extractive and Assimilative Components. HBOI Foundation, \$46.8K.

Scarpa, J. and Wills, P. 2013-2014. Supplement to An Initiative to Design and Demonstrate a Prototype Integrated Multi-Trophic Aquaculture System for Sustainable Land-Based Aquaculture: Extractive Component – Sea Urchins and Other Echinoderms. HBOI Foundation, \$46.9K.

Scarpa, J. 2011-2013. An Initiative to Design and Demonstrate a Prototype Integrated Multi-Trophic Aquaculture System for Sustainable Land-Based Aquaculture: Extractive Component – Oysters. HBOI Foundation, \$39.2K.

Scarpa, J. and Garr, A. 2011-2013. An Initiative to Design and Demonstrate a Prototype Integrated Multi-Trophic Aquaculture System for Sustainable Land-Based Aquaculture: Extractive Component – Sea Urchins. HBOI Foundation, \$36.2K.

Wills, P., Scarpa, J. and Laramore, S.E. 2011. Determination of Optimal Density for Gulf White Shrimp Grow-Out in Recirculating Systems. Private Company, \$30K.

Scarpa, J. 2010-2013. Enhancing Florida Hard Clam Production through Broodstock Development, Improved Harvest Practices, and Species Diversification. Subcontract from UF as funded by USDA-NIFA Special Research Grant, \$55K.

Baker, S.M., Scarpa, J. and Sturmer, L.N. 2010-2012. Preparing for Climate Change: Increasing Hard Clam Production and Survival in the Southeastern United States Using Biomarkers of Thermal Tolerance. National Sea Grant – Aquaculture Research, \$343K, HBOI-\$109K.

Scarpa, J. and El-Wazzan, E.I. 2010-2012. Biomarker Assisted Selection for Disease Resistance in Clams for Establishing Egyptian and Improving American Bivalve Aquaculture. Egypt Joint Board on Scientific and Technological Cooperation, \$176K, HBOI-\$75K.

Scarpa, J., Sturmer, L.N., Adams, C.M., Otwell, W.S., Creswell, R.L., Clark, M.W., Ellis, L.R., and Osborne, T.Z. 2010-2012. Eliminating Barriers to Commercial Production of Sunray Venus Clams in Florida: Enhanced Hatchery Production, Growout Site Selection, and Definition of Wholesale Market Product Attributes. Florida Sea Grant Program (Proj. R/LR-A-46), \$200K, HBOI-\$60K.

Scarpa, J. 2009-2012. Evaluation of thermally selected multi-parental crosses with *Mercenaria mercenaria* and *M. mercenaria* x *M. campechiensis* clam hybrids to improve hard clam crop production in Florida. Subcontract from UF as funded by USDA-CSREES Special Research Grant, \$48.6K.

Scarpa, J. and Laramore, S.E. 2009. Oyster monitoring in Lake Worth Lagoon. Palm Beach County, Department of Environmental Resources Management, West Palm Beach, Florida, \$74K.

Scarpa, J. and Laramore, S.E. 2008-2011. Assessment of F1 hybrids back-crossed with *Mercenaria mercenaria* to improve hard clam crop production during the summer months in Florida. Subcontract from UF as funded by USDA-CSREES Special Research Grant, \$40K.

Scarpa, J., Sturmer, L.N., Adams, C.M. and Creswell, R.L. 2008-2010. Species diversification in Florida shellfish aquaculture: nursery and grow-out culture of the Sunray Venus Clam. Florida Sea Grant Program (Proj. R/LR-A-45), \$146K.

Hare, M. and Scarpa, J. 2007-2011. Patterns of larval dispersal and post-settlement selection shaping connectivity of oyster populations along an ecotone. NSF-Bio Oce., \$770K, HBOI-\$71K.

PUBLICATIONS:

- Burford, M.O., Scarpa, J., Cook, B.J. and Hare, M.P. 2014. Local adaptation of a marine invertebrate with a high dispersal potential: evidence from a reciprocal transplant experiment of the eastern oyster *Crassostrea virginica*. Marine Ecology Progress Series, 505: 161-175.
- Dungan, C.F., Carnegie, R.B., Hill, K.M., McCollough, C.B., Laramore, S.E., Kelly, C.J., Stokes, N.A. and Scarpa, J. 2012. Diseases of *Crassostrea ariakensis* and *C. virginica* oysters reared in ambient waters from the Choptank River, Maryland and the Indian River Lagoon, Florida. Diseases of Aquatic Organisms, 101: 173-183.
- Kelly, C.J., Laramore, S.E., Scarpa, J. and Newell, R.I.E. 2011. Seasonal comparison of physiological adaptation and growth of Suminoe (*Crassostrea ariakensis*) and eastern oysters (*Crassostrea virginica*). J. Shellfish Res., 30: 1-13.
- Zhang, H., Scarpa, J. and Hare, M.P. 2010. Differential fertilization success between two populations of eastern oyster, *Crassostrea virginica*. Biol. Bull., 219: 142-150.
- Scarpa, J. and Laramore, S.E. 2010. Survey of Select Eastern Oyster (*Crassostrea virginica*) Populations in Lake Worth Lagoon, Palm Beach County, Florida. Final Report submitted to Palm Beach County Environmental Resources Management, West Palm Beach, FL. 58 pp.
- Draughon, L.D., Scarpa, J., and Hartmann, J.X. 2010. Are filtration rates for the rough tunicate *Styela plicata* independent of weight or size? J. Environ. Science and Health, Part A, 45(2):168-176.
- El-Wazzan, E. and Scarpa, J. 2009. Improving triploidy induction in the hard clam *Mercenaria mercenaria notata*: Cytological evaluation of fertilized eggs. Egyptian J. Aquatic Res., 35(3): 385-403.
- Laramore, S., Laramore, R., Scarpa, J. and Lin, J. 2009. Virulence variation of white spot syndrome virus in Pacific white shrimp *Litopenaeus vannamei*. J. Aquatic Animal Health, 21:82-90.
- El-Wazzan, E. and Scarpa, J. 2009. Comparative growth of triploid and diploid juvenile hard clams *Mercenaria mercenaria notata* under controlled laboratory conditions. Aquaculture, 289: 236-243.
- Draughon, L., Scarpa, J., Keating, P. and Hartmann, J.X. 2008. Potential estuarine water quality improvement via marine invertebrate bioremediation. pp. 97-112 (Chap 9), In: M. Theophanides and T. Theophanides (eds.) Environmental Awareness and Management, ISBN 978-960-6672-39-2. 240pp. Athens Institute for Education and Research, Athens, Greece.
- Montiel de Morales, M., Laramore, S.E., Laramore, C.R., Morales, F. and Scarpa, J. 2007. Transmisión experimental del virus de la necrosis hipodérmica y hematopoyética infecciosa (IHHNV) en *Litopenaeus vannamei*: Influencia de la salinidad en la expresión de la infección, CIENCIA, 15(3): 311-318.
- Wilson, C., Scotto, L., Scarpa, J., Volety, A., Laramore, S. and Haunert, D. 2005. Survey of water quality, oyster reproduction and oyster health status in the St. Lucie Estuary. J. Shellfish Res., 24: 157-165.
- McGraw, W.J. and Scarpa, J. 2004. Mortality of freshwater-acclimated *Litopenaeus vannamei* associated with acclimation rate, habituation period, and ionic challenge. Aquaculture, 236: 285-296.
- McGraw, W.J. and Scarpa, J. 2003. Minimum environmental potassium for survival of Pacific white shrimp *Litopenaeus vannamei* (Boone) in freshwater. J. Shellfish Res., 22: 263-267.
- Arnold, W.S., Marelli, D.C., Parker, M., Hoffman, P., Frischer, M. and Scarpa, J. 2002. Enhancing hard clam (*Mercenaria* spp.) population density in the Indian River Lagoon, Florida: a comparison of strategies to maintain the

commercial fishery. J. Shellfish Res., 21: 659-672.

Scarpa, J. 2002. Method for the production of genetically modified bivalve trochophore larvae as a feed for marine fish larvae. Journal of Applied Aquaculture, 12(4): 1-11.

Laramore, S., Laramore, C.R. and Scarpa, J. 2001. Effect of low salinity on growth and survival of postlarvae and juvenile *Litopenaeus vannamei*. J. World Aqua. Soc., 32: 385-392.

Van Wyk, P.M., Davis-Hodgkins, M., Laramore, C.R., Main, K.L., Mountain, J. and Scarpa, J. 1999. Farming of Marine Shrimp in Recirculating Freshwater Systems. Florida Department of Agriculture and Consumer Services, Tallahassee, Florida. 194pp.

Fernandez, E.M., J. Lin and J. Scarpa. 1999. Culture of *Mercenaria mercenaria* (Linnaeus): effects of density, predator exclusion device and bag inversion. J. Shellfish Res., 18: 77-83.

Vaughan, D., Davis-Hodgkins, M., Ednoff, M., Scarpa, J. and Van Wyk, P. 1997. How do you train fishermen to be aquaculturists? Harbor Branch's aquaculture training and education programs. Island Aquaculture and Tropical Aquaculture - Martinique 97, European Aquaculture Society, L. Creswell and Y. Harache (eds.), pp. 310-311.

Kiyomoto, M., Komaru, A., Scarpa, J., Wada, K.T., Danton, E. and Awaji, M. 1996. Abnormal gametogenesis, male dominant sex ratio, and Sertoli cell morphology in induced triploid mussels, *Mytilus galloprovincialis*. Zoological Science, 13: 393-402.

Komaru, A., Scarpa, J. and Wada, K.T. 1995. Ultrastructure of spermatozoa in induced tetraploid mussel, *Mytilus galloprovincialis* (Lamarck). J. Shellfish Res., 14: 405-410.

Scarpa, J., Creswell, L. and Vaughan, D. 1994. The identification of marine aquaculture products and producers. Final Report submitted to the Florida Department of Environmental Regulation, Bureau of Marine Resource Regulation and Development, Tallahassee, FL. 89 pp.

Scarpa, J., Komaru, A. and Wada, K.T. 1994. Gynogenetic induction in the mussel, *Mytilus galloprovincialis*. Bulletin of the National Research Institute of Aquaculture, 23: 33-41.

Scarpa, J. and Wada, K.T. 1994. Early development of the Japanese Jewel Box, *Chama japonica* Lamarck, 1819, under laboratory conditions. Bulletin of the National Research Institute of Aquaculture, 23: 27-30.

Scarpa, J., Toro, J.E. and Wada, K.T. 1994. Direct comparison of six methods to induce triploidy in bivalves. Aquaculture, 119: 119-133.

Scarpa, J., Wada, K.T. and Komaru, A. 1993. Induction of tetraploidy in mussels by suppression of polar body formation. Nippon Suisan Gakkaishi, 59: 2017-2023.

Scarpa, J. and Gatlin, III, D.M. 1993. Response of channel catfish (*Ictalurus punctatus*) swim-up fry to dietary calcium in soft and hard water. Comp. Biochem. Physiol., 106A: 803-808.

Allen, Jr., S.K., Gaffney, P.M., Scarpa, J. and Bushek, D. 1993. Inviability hybrids of *Crassostrea virginica* (Gmelin) with *C. rivularis* (Gould) and *C. gigas* (Thunberg). Aquaculture, 113: 269-289.

Gatlin, D.M., III and Scarpa, J. 1993. Dietary calcium source and level affects growth and bone mineralization of channel catfish. pp. 179-185. In: Fish Nutrition in Practice.

Scarpa, J., Wada, K.T. and Allen, Jr., S.K. 1992. Parthenogenetic development of dwarf surfclam, *Mulinia lateralis*, oocytes treated with polar body suppressing agents. Inv. Reprod. Dev., 22: 47-56.

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Scarpa, J. and Gatlin, III, D.M. 1992. Dietary zinc requirements of channel catfish, *Ictalurus punctatus*, swim-up fry in soft and hard water. *Aquaculture*, 106: 311-322.

Scarpa, J., Gatlin, D.M., III and Lewis, D.H. 1992. Effects of dietary zinc and calcium on select immune functions of channel catfish. *J. Aquat. Animal Health*, 4: 24-31.

Scarpa, J. and Allen, Jr., S.K. 1992. Comparative kinetics of meiosis in hybrid crosses of Pacific oyster *Crassostrea gigas* and Suminoe oyster *C. rivularis* with the American oyster *C. virginica*. *J. Exp. Zool.*, 263: 316-322.

Longo, F.J. and Scarpa, J. 1991. Sperm nuclear expansion and association of the maternal and paternal genomes in fertilized *Mulinia lateralis* eggs. *Biol. Bull.*, 180: 56-64.

Gatlin, D.M., III, O'Connell, J.P. and Scarpa, J. 1991. Dietary zinc requirement of the red drum, *Sciaenops ocellatus*. *Aquaculture*, 92: 259-265.

Wada, K.T., Scarpa, J. and Allen, Jr., S.K. 1990. Karyotype of the dwarf surf clam *Mulinia lateralis* (Say, 1822) (Mactridae, Bivalvia). *J. Shellfish Res.*, 9: 279-281.

POPULAR ARTICLES:

Núñez, J., J. Scarpa, L.N. Sturmer, R.L. Creswell and C. Adams. 2009. Spawning and Early Culture of the Sunray Venus Clam. A DVD documenting broodstock collection, maturation, spawning, larval and post-rearing techniques of the sunray venus clam, which was developed for Florida Sea Grant.

Scarpa, J., S. Baker, L. Sturmer, S. Laramore, E. El-Wazzan, E. Hoover and K. Weber. 2009. Evaluation of triploid hard clams for Florida Aquaculture. *Global Aquaculture Advocate*, March/April: 48-50.

Landau, M. and J. Scarpa. 2009. Demonstrations and Laboratory Exercises in Aquaculture. VI. Fish Pond Inventory and Feed Budgets. *World Aquaculture*, 40(1): 8-11.

Sturmer, L., C. Adams and J. Scarpa. 2007. Continued research, extension efforts support hard clam industry in Florida. *Global Aquaculture Advocate*, 10(6): 53-55.

Scarpa, J. and A. Wright. 2005. Flatworm potential harvesters of antitumor compounds. *Global Aquaculture Advocate*, 8(4): 43.

Scarpa, J. 2004. Genome manipulation in bivalve aquaculture. *Fish Farming News* (July/August), 11: 31-32.

Landau, M. and J. Scarpa. 2004. Demonstrations and Laboratory Exercises in Aquaculture. V. Aeration. *World Aquaculture*, 35(2): 15-19.

Landau, M. and J. Scarpa. 2003. Demonstrations and Laboratory Exercises in Aquaculture. IV. Mechanical filtration. *World Aquaculture*, 34(2): 54-57.

Laramore, S., J. Scarpa and W.J. McGraw. 2003. Concentracion de iones requerida para el cultivo de *Litopenaeus vannamei* en agua dulce. *Panorama Acuicola Magazine*, 8(2): 60-63.

McGraw, W.J. and J. Scarpa. 2002. Determining ion concentrations for *Litopenaeus vannamei* culture in freshwater. *Global Aquaculture Advocate*, 5(3): 36-38.

Landau, M. and J. Scarpa. 2002. Demonstrations and Laboratory Exercises in Aquaculture. III. Centrifugal pumps. *World Aquaculture*, 33(4): 14-20.

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Landau, M. and J. Scarpa. 2001. Demonstrations and Laboratory Exercises in Aquaculture. II. Activated carbon and ion-exchange in chemical filtration. *World Aquaculture*, 32(4): 6-10.

Landau, M. and J. Scarpa. 2001. Demonstrations and Laboratory Exercises in Aquaculture. I. Pond soil. *World Aquaculture*, 32(2): 10-13.

Scarpa, J. 1996. Making your own internship. *World Aquaculture*, 27(3): 61.

Scarpa, J. 1996. Postdoctoral Fellowships in Japan. *World Aquaculture*, 27(2): 39.

Scarpa, J. 1996. Internships - Epcot at Walt Disney World. *World Aquaculture*, 27(1): 61.

Scarpa, J. 1995. Internships - Savannah State College. *World Aquaculture*, 26(4): 82.

Scarpa, J. 1995. Internships - Atlantic Veterinary College. *World Aquaculture*, 26(3): 37.

Scarpa, J. 1995. Aquaculture intern programs - Mote Marine Lab. *World Aquaculture*, 26(2): 60.

Scarpa, J. 1995. Aquaculture internship programs - Darling Center. *World Aquaculture*, 26(1): 52.

Scarpa, J. 1994. Aquaculture internship programs - HBOI. *World Aquaculture*, 25(4): 5.

SELECT PRESENTATIONS & PUBLISHED ABSTRACTS:

Successful larvae settlement and hatchery culture of the ponderous ark *Noetia ponderosa*. Scarpa, J. and Sturmer, L.N. 106th National Shellfisheries Association conference, Jacksonville, FL, 29 March - 2 April 2014.

Salinity tolerance of juvenile Ponderous ark *Noetia ponderosa*. Russell, M.E. and Scarpa, J. 106th National Shellfisheries Association conference, Jacksonville, FL, 29 March - 2 April 2014.

Thermal selection of broodstock to improve hard clam *Merceanaria mercenaria* production in Florida waters. Sturmer, L.N., Scarpa, J., White, W. and Baker, S. 106th National Shellfisheries Association conference, Jacksonville, FL, 29 March - 2 April 2014.

Biomarkers for thermal tolerance in hard clams: Results of laboratory challenges. Baker, S., Scarpa, J. and Sturmer, L.N. 106th National Shellfisheries Association conference, Jacksonville, FL, 29 March - 2 April 2014.

Genetics of hatchery and wild *Mercenaria mercenaria*: what, if anything, can we learn from microsatellite loci? Austin, J., Hargrove, J., Sturmer, L.N. and Scarpa, J. 106th National Shellfisheries Association conference, Jacksonville, FL, 29 March - 2 April 2014.

Distribution of surplus microalgae in a land-based integrated multi-trophic aquaculture system. Brooker, J., Scarpa, J. and Wills, P. *Aquaculture America* 2014, Seattle, WA, 9-12 February 2014.

Comparison of eastern oyster *Crassostrea virginica* populations on created versus natural reefs in Lake Worth Lagoon, Florida. Scarpa, J. and S.E. Laramore. Lake Worth Lagoon Initiative Symposium, Palm Beach Atlantic University, West Palm Beach, FL, 15 May 2013.

Interactions between crude oil, dispersant, and salinity affect hard clam *Mercenaria mercenaria* embryonic development and survival. Lanza, A.R., Scarpa, J., Laramore, S.E. and Julian, D. 42nd Benthic Ecology Meeting, Savannah, GA, 20-23 March 2013.

Examining particulate utilization by oysters and sea urchins for a land-based integrated multi-trophic aquaculture

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system. Scarpa, J., Russell, M., Prah, F., Garr, A. and Wills, P.S. Aquaculture 2013, Nashville, TN, 21-25 February 2013.

Prototype design for a novel marine recirculating land-based integrated multi-trophic aquaculture system. Wills, P.S., Scarpa, J., Hanisak, D., Laramore, S., Garr, A., Davis, M. and Beiser, G. Aquaculture 2013, Nashville, TN, 21-25 February 2013.

Preparing for climate change: Increasing hard clam survival in Florida using biomarkers of thermal tolerance. Scarpa, J., Baker, S.M., Sturmer, L.N. and Krebs, W. Aquaculture 2013, Nashville, TN, 21-25 February 2013.

Eliminating barriers to commercial production of the sunray venus clam *Macrocallista nimbosa* in Florida. Sturmer, L.N., Scarpa, J., Adams, C., Otwell, S., Ellis, R. and Osborne, T. Aquaculture 2013, Nashville, TN, 21-25 February 2013.

A fifteen year retrospective of a partnered aquaculture education program: Indian River State College and Harbor Branch Oceanographic Institute. Laramore, S.E., Scarpa, J., Wills, P. and McMullian, A. Aquaculture 2013, Nashville, TN, 21-25 February 2013.

A land-based integrated multi-trophic aquaculture system: design and start-up. Scarpa, J., Wills, P.S., Hanisak, D., Laramore, S.E., Garr, A., Beiser, G. and Davis, M. Aquaculture and Restoration: A Partnership, joint meeting of Northeast Aquaculture Conference & Exposition, 33rd Milford Aquaculture Seminar, and 15th International Conference on Shellfish Restoration, Groton, CT, 12-15 December 2012. **J. Shellfish Res. (2103), 32(2): 604.**

Oyster component of a land-based integrated multi-trophic aquaculture system. Scarpa, J., Russell, M., Prah, F. and Baptiste, R. Aquaculture and Restoration: A Partnership, joint meeting of Northeast Aquaculture Conference & Exposition, 33rd Milford Aquaculture Seminar, and 15th International Conference on Shellfish Restoration, 12-15 December 2012. **J. Shellfish Res. (2013), 32(2): 604.**

Enhanced hatchery production of sunray venus clams through broodstock development. Scarpa, J. and Sturmer, L.N. Clam Culture Industry Workshop, Cedar Key, Florida, 7 November 2012.

Florida hard clam breeding projects: results of growout trials. Sturmer, L.N., Scarpa, J. and White, W. Clam Culture Industry Workshop, Cedar Key, Florida, 7 November 2012.

Selection for heat tolerance in clams using biomarkers. Baker, S.M., Scarpa, J. and Sturmer, L.N. Clam Culture Industry Workshop, Cedar Key, Florida, 7 November 2012.

A new design concept for a land-based integrated multi-trophic aquaculture system. Wills, P.S., Scarpa, J., Hanisak, D., Laramore, S., Garr, A., Davis, M. and Beiser, G. 9th International Conference on Recirculating Aquaculture, Roanoke, VA, 24-26 August 2012.

Lake Worth Lagoon: Snook Islands Habitat and Oyster Populations. Scarpa, J. and S. Laramore. Creating Oyster Reef Habitat to Enhance Water Quality, Biodiversity, and Shoreline Protection workshop at Indian River Research and Education Center, Ft. Pierce, FL, 13-14 June 2012.

Improving hard clam production in Florida through culture of backcrossed hybrids (*Mercenaria mercenaria*, *M. campechiensis*). Sturmer, L.N., Scarpa, J., White, W. and Baker, S. National Shellfisheries Association 104th Annual Meeting, Seattle, WA, 25-29 March 2012. **J. Shellfish Res., 31(1): 351.**

Helping the Florida clam industry survive the summer. Lloreda, L., Krebs, W., Scarpa, J., Sturmer, L.N. and Baker, S.M. National Shellfisheries Association 104th Annual Meeting, Seattle, WA, 25-29 March 2012. **J. Shellfish Res., 31(1): 314.**

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