William Frank Patterson III Curriculum Vitae

CONTACT: University of South Alabama

Department of Marine Sciences

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CITIZENSHIP: USA

DATE OF BIRTH: October 7, 1969; Richmond, Virginia, U.S.A.

EDUCATION:

1999 PhD., University of South Alabama, Department of Marine Sciences, Dissertation: Aspects of the Population Ecology of Red Snapper, *Lutjanus campechanus*, in an Artificial Reef Area off Alabama. Dissertation Co-advisors: Jim Cowan and Bob Shipp.

1995 M.S., Old Dominion University, Biological Sciences, Thesis: Nutritional Condition of Striped Bass, Morone saxatilis, Larvae as Determined by Constituent Lipid Analysis. Thesis Advisor: Ray Birdsong.

1991 B.A., University of Virginia, History, Thesis: Liberalism and the American Labor Movement: 1940-1960.

Thesis Advisor: Scot French

POSITIONS HELD:

2012-	Senior Marine Scientist, Dauphin Island Sea Lab
2011-	Associate Professor, Department of Marine Sciences, University of South Alabama
2011-	Adjunct Associate Professor, Department of Biology, University of West Florida
2007-2011	Associate Professor, Department of Biology, University of West Florida
2004-2007	Assistant Professor, Department of Biology, University of West Florida
2005-2007	Adjunct Assistant Professor, Department of Biology, Texas A&M University Corpus Christi
2005-2006	Adjunct Assistant Professor, School of Fisheries and Ocean Sciences, University of Alaska
2005-	Adjunct Assistant Professor, Department of Oceanography, Louisiana State University
2004-2007	Adjunct Assistant Professor, Department of Marine Sciences, University of South Alabama
2001-2003	Adjunct Senior Marine Scientist, Dauphin Island Sea Lab
2001-2003	Member, Graduate Faculty, University of South Alabama
2001-2003	Assistant Research Professor, Department of Marine Sciences, University of South Alabama
1999-2001	Postdoctoral Fellow, Coastal Fisheries Institute, Louisiana State University, Post-doc Advisor:
	Chuck Wilson
1995-1999	Graduate Research Assistant, Department of Marine Sciences, University of South Alabama
1993-1995	R/V Operator and Field Technician, Applied Marine Research Laboratory, Old Dominion
	University.
1993-1995	Graduate Research Assistant, Department of Biological Sciences, Old Dominion University.

TEACHING

COURSES TAUGHT:

Aquaculture (Fall 2005, Spring 2008, 2010): This undergraduate/graduate course is an introduction to the culture of marine and freshwater organisms for food production, public aquaria, and ecological research. Students are exposed to physical, chemical, and biological factors that constrain the culture of various

- invertebrate and vertebrate taxa. The laboratory section of the course is handled as a discussion section of topical scientific, economic, environmental, and political issues in aquaculture. In addition, several field trips are made to finfish and invertebrate culture facilities to expose students to daily, real world challenges facing aquaculturists.
- *Biology Seminar* (Spring 2006-08): This undergraduate/graduate course is designed to expose students to current research in a great diversity of biology sub-fields. Local, regional, and national experts give weekly seminars attended by students and faculty. Students critique the presentations, as well as review relevant peer-reviewed literature.
- Fisheries for Fisherman (Spring 2010): This is a continuing education course taught *pro bono* through the University of West Florida's Division of Continuing Education. The course is aimed at recreational and commercial fishermen with the goal of introducing them to fisheries science and management. A central theme of the course is how scientists and fishermen can look at a fish catch, or landings data, and draw entirely different conclusions about the health of marine resources.
- Introduction to Oceanography and Marine Biology (Spring 2004-06, 2008-11): This non-majors undergraduate course is a survey of physical, chemical, geological, and biological oceanography. The interconnectedness of biota and the physical environment is stressed throughout the course. Beyond the basics of oceanography and marine biology, topical issues such as global warming, eutrophication, and habitat loss are woven into lecture material throughout the course. Laboratory exercises focus on introducing students to the diversity of life in the sea.
- Marine Field Ecology (Summer 2004, 2007-11): This undergraduate/graduate course is an introduction to physical and biological oceanographic sampling techniques conducted onboard a Florida Institute of Oceanography research vessel. Students are instructed in basic coastal navigation techniques, knot tying, and line, cable and winch handling, in addition to training in scientific sampling. Sampling gear includes a CTD, flourometer, plankton nets, bottle samplers, benthic grab samplers, trawls, remotely operated vehicle and dredges. Students also receive training in using remotely operated vehicles to conduct scientific sampling.
- Marine Fisheries (Fall 2004; Spring 2007, 2009, 2011): This undergraduate/graduate course is an introduction to the population ecology of fishes, with an emphasis placed on exploited species. Lecture topics include the global status of fished species, fishing gears, the interaction of gears with habitat and non-exploited species or life stages, and the implications of life history strategy on vulnerability to exploitation. Laboratory exercises are designed to familiarize students with fisheries techniques, such as sample design, estimating age from hardparts, and staging histological sections of gonads. In the second half of the course, laboratory exercises introduce students to basic fisheries modeling techniques, including growth functions, catch curve analysis, estimating catchability and selectivity, spawner-recruit functions, surplus production models, and virtual population analysis.
- Marine Resource Management (Spring 2012, Fall 2014, Spring 2016): This graduate course is a broad survey of the many sub-disciplines that form the field of marine resource management, with an emphasis on living marine resources. Topics covered include societal and legislative sanctioning of marine resource agencies, processes by which ecosystem health and extractive and non-extractive usage of marine resources are assessed, methods by which ecosystems services are valuated and how valuation is utilized in management, processes by which management priorities and regulations are established, and roll of socio-economics in management decisions and the implications of those decisions on future investment in fisheries, ecotourism, and other activities which utilize or potentially impact marine resources.
- Marine Sciences Seminar (Fall 2013): The focus of this graduate course is state of the art theories, emerging technologies, and novel methods in Marine Sciences. The class meets weekly to review current, topical papers from the primary scientific literature. Two papers are discussed each week, with one being a scientific study or review and the other being a news, policy, or opinion paper. Students nominate candidate papers from a list of high-impact journals write short critiques of the nominated papers. Dr. Patterson reviews nominated papers and selects one from each category for student-lead discussions the following week.
- *Marine Vertebrate Zoology* (Summer 2001-03, 2012-15; Spring 2004-06; Fall 2006-10): This undergraduate course is a survey of fishes and higher marine vertebrates. Evolutionary trends are stressed within vertebrate

- groups, along with biogeography and biodiversity hotspots. Laboratory exercises are designed to familiarize students with fish internal and external anatomy, predominant swimming modes, and life history stages, as well as the diversity of local freshwater, estuarine and marine ichthyofauna.
- Quantitative Methods in Fisheries and Ecology (Fall 2004, 2006, 2008, 2010; Spring 2013): This graduate course is an introduction to the quantitative methods in fisheries and marine ecology research. Lecture topics include a review of frequentist inference and statistical hypothesis testing, univariate and multivariate parametric statistical hypothesis testing, univariate and multivariate permutation tests, model building versus hypothesis testing, methods for estimating age, growth, and mortality, concepts of selectivity and catchability, indices of abundance, methods for examining population structure, mark-recapture analysis, life history theory, methods for examining fish reproductive biology, the theory of fishing, surplus production modelling, yield per recruit analysis, virtual population analysis, and statistical catch-at-age modelling. Example models are computed during lecture, with homework assignments based on similar problems.

GRADUATE STUDENT COMMITTEES:

- Beverly Barnett, University of South Alabama (committee chair), 2015-date, "Tracing food web impacts via biogeochemical markers in fish otoliths."
- Erin Bohaboy, University of South Alabama (committee chair), 2015-date, "Mitigation of reef fish release mortality and its implications for stock assessment and fisheries management."
- Adrian Stanfill, Auburn University, 2015-date, "Population structure in southern Flounder from the northern Gulf of Mexico inferred from otolith chemistry."
- Gracie Barnes, University of South Alabama (committee chair), 2015-date. "Population and trophic ecology of damselfishes in the northern Gulf of Mexico."
- Elizabeth Simpson, University of South Florida, 2014-date. "Examining factors affecting reef fish community dynamics in the northern Gulf of Mexico with ecosystem models."
- Kristin Hannan, University of South Alabama, 2013-date. "Life history and diet of *Hydrolagus alberti* with an estimate of deepwater chondrichthyan biomass for the northern Gulf of Mexico."
- Trey Spearman, University of South Alabama, 2013-2015. "Benthic fish and invertebrate community dynamics in the north central Gulf of Mexico."
- Brian Klimek, University of South Alabama (committee chair), 2013-date. "Spatial and ontogenetic effects on ciguatoxin bioaccumulation in Pacific Lionfish among Caribbean reefs."
- Jennifer Granneman, University of South Florida, 2012-date. "Quantifying fish movement in the Gulf of Mexico to examine population structure and long-term community resiliency in response to episodic events."
- Kristen Dahl, University of South Alabama (committee chair), 2012-date. "Ecology and impacts of invasive lionfish, *Pterois volitans/miles* complex, in the northern Gulf of Mexico."
- Justin Lewis, University of South Alabama (committee chair), 2012-date. "Deriving natural tags of blacktip shark, *Carcharhinus limbatus*, nursery areas from vertebrae chemistry."
- Steven Garner, University of South Alabama (committee chair), 2012-date. "Modelling effects of gear selectivity and regulatory discards on Gulf of Mexico red snapper, *Lutjanus campechanus*, stock dynamics and conservation."
- Marshall Johnson, University of South Alabama, 2011-2013. "Trophodynamic characteristics of larval Gulf menhaden (*Brevoortia patronus*) collected off coastal Alabama.
- Meagan Schrandt, University of South Alabama, 2011-2015. "Distribution, habitat use and population connectivity of two coastal pelagic fishes, Spanish mackerel (*Scomberomorus maculatus*) and Florida pompano (*Trachinotus carolinus*)."
- Michael Norberg, University of South Alabama (committee chair), 2012-2015. "Population and trophic ecology of tomtate, *Haemulon aurolineatum*, on natural and artificial reefs in the northern Gulf of Mexico."
- Lanaya Fitzgerald, University of South Alabama (committee co-chair with Frank Hernandez), 2010-date. "Aurelia as A possible critical habitat for Atlantic bumper, Chloroscombrus chrysurus, in the Gulf of Mexico."
- Crystal Hightower, University of South Alabama, 2011-2013. "Evaluating the current status of red drum (*Sciaenops ocellatus*) in offshore waters of the north central Gulf of Mexico: age and growth, abundance, and mercury concentration."
- Joshua Neese, University of West Florida (committee chair), 2010-2014. "Differences in red snapper, *Lutjanus campechanus*, population demographics between northern Gulf of Mexico natural and artificial reefs, and potential effects of the Deepwater Horizon Oil Spill."
- Joseph Tarnecki, University of West Florida (committee chair), 2010-2014. "Community and trophic structure of reef fishes on natural and artificial habitats in the northern Gulf of Mexico."

- Andrea Kroetz, University of South Alabama, 2010-date. "Movement and trophic role of estuarine dependent fishes."
- Kelly Robinson, University of South Alabama, 2008-2012. "The effects of climate variability on the formation of scyphomedusae and ctenophore blooms in the northern Gulf of Mexico."
- Rachel Scharer, University of West Florida (committee chair), 2009-2012. "Estimating habitat utilization by sawfishes based on elemental analysis of vertebrae and rostral teeth with laser ablation-inductively coupled plasma-mass spectrometry."
- Carrie Fioramonti, University of West Florida (committee chair), 2009-2012. "Age validation and population demographics in Gulf of Mexico gray triggerfish, *Balistes capriscus*."
- Rachel Anderson, NOVA Southeastern University, 2007-2009. "Characterization of nocturnal fish assemblages on vessel-reefs and natural reefs off Broward Country, Florida, USA"
- Cecelia Lounder, University of West Florida (committee chair), 2006-2009. "Recruitment dynamics of gray snapper along the west Florida shelf"
- Kate Shepard, University of West Florida (committee chair), 2006-2008. "King mackerel population dynamics and stock mixing in the U.S. Atlantic and Gulf of Mexico"
- Michelle Zapp, Louisiana State University, 2005-2011. "Population connectivity in Gulf of Mexico red snapper" Dustin Addis, University of West Florida (committee chair), 2005-2008. "Site fidelity and movement of reef fishes tagged at unreported artificial reef sites off northwest Florida"
- Beverly Barnett, University of West Florida (committee chair), 2005-2008 "Distinguishing red snapper, *Lutjanus campechanus*, nursery regions in the northern Gulf of Mexico with otolith elemental and stable isotope signatures"
- Suzanne Gibson, University of West Florida (committee co-chair with Richard Snyder), 2004-2008. "Distinguishing hatchery reared from wild juvenile red snapper with otolith chemistry"
- Michael Dance, University of West Florida (committee chair), 2004-2007. "Reef fish community structure at unpublished artificial reef sites of northwest Florida: Implications for no-harvest refugia"
- Nicole Morris, University of West Florida (committee chair), 2004-2007. "The artificial reef effect of deepsea shipwrecks in the northern Gulf of Mexico"
- Sarah Branson, University of West Florida (committee chair), 2004-2007. "Lizardfish, *Synodus foetens*, ecology in the north central Gulf of Mexico and the effect of shrimp trawl bycatch"
- Morgan Kilgour, University of Alaska Fairbanks and Texas A&M University at Corpus Christi, 2004-2007. "Bathymetric and spatial distribution of decapod crustaceans on deep shipwrecks in the Gulf of Mexico"
- Craig Newton, University of South Alabama (committee chair), 2002-2007. "Habitat effects on juvenile red snapper density, growth, and diet in the north central Gulf of Mexico"
- David Wells, Louisiana State University, 2003-2007. "The effects of trawling and habitat on red snapper and the associated community"
- Kevan Gregalis, University of South Alabama, 2003-2006. "Fish utilization of restored oyster reefs"
- Todd Clardy, University of South Alabama, 2002-2006 (committee chair). "Migratory group discrimination between eastern Gulf of Mexico and Atlantic king mackerel (*Scomberomorus cavalla*) using otolith shape analysis"
- Melissa Woods, University of South Alabama, 2000-2003. "Reproductive biology of red snapper, *Lutjanus campechanus*, in the Northern Gulf of Mexico"

HONORS AND AWARDS OF DIRECTED GRADUATE STUDENTS:

- Steven Garner: Selected by the USA Marine Sciences Faculty as the 2015 Outstanding PhD Student (Shipp Award)
- Kristen Dahl: Best Student Presentation for, "Habitat-specific density of invasive red lionfish and their direct and indirect effects on native reef fishes in the northern Gulf of Mexico." 2015 Gulf of Mexico Graduate Student Symposium, March 14-15, 2015. Dauphin Island, Alabama.
- Justin Lewis: Selected by the USA Marine Sciences Faculty as the 2014 Outstanding Master's Student (Nelson Award)
- Steven Garner: Awarded a National Marine Fisheries Service-Sea Grant Population Dynamics Fellowship for his proposal "Modelling the impacts of gear regulations in the northern Gulf of Mexico recreational reef fish fishery." \$77,000/2 yr. for 2013-15.
- Brian Klimek: Awarded a Food and Drug Administration-Dauphin Island Sea Lab Graduate Fellowship for his Proposed work on the spatial and ontogenetic effects on ciguatoxin bioaccumulation in invasive Pacific lionfish among Caribbean reefs. \$52,000/2 yr. for 2012-14.
- Michael Norberg: Best Student Poster Presentation for "Tomtate, *Haemulon aurolineatum*, population demographics and diet in the northern Gulf of Mexico," *Gulf Estuarine Research Society Biannual Meeting*. November 8-9, 2012. Dauphin Island, Alabama.

- Beverly Barnett: Best Student Poster Presentation for "Interspecific and regional variation in otolith chemical signatures between juvenile red and lane snappers in the northern Gulf of Mexico," 19th Annual Spring Meeting, Southern Division of the American Fisheries Society. January 13-16, 2011. Tampa, Florida.
- Dustin Addis: Selected by the UWF Graduate Council for having produced the Outstanding UWF Master's Thesis for 2008-2009. (co-winner with Kate Shepard).
- Kate Shepard: Selected by the UWF Graduate Council for having produced the Outstanding UWF Master's Thesis for 2008-2009. (co-winner with Dustin Addis).
- Dustin Addis: Awarded Dean's Award for Collaborative Effort for "Site fidelity and movement of reef fishes tagged at unreported artificial reef sites off Pensacola, Florida," 2009 University of West Florida Scholars of Engineering, Applied Sciences & Technology Annual Research Symposium.
- Cecelia Lounder: Awarded Best Biology Presentation for "Recruitment dynamics of juvenile gray snapper, *Lutjanus griseus*, among west Florida coastal and marine ecosystems," 2009 University of West Florida Scholars of Engineering, Applied Sciences & Technology Annual Research Symposium.
- Kate Shepard: Voted Outstanding Graduate Student in Biology for 2007-08 by the UWF Biology Faculty.
- Kate Shepard: Best Student Presentation for "Estimating the contribution of Atlantic king mackerel to winter mixedstock fisheries off south Florida," 28th Annual Meeting of the Florida Chapter of the American Fisheries Society, February 19-21, 2008. Ocala, Florida
- Suzanne Gibson: Best Student Poster Presentation for "Contamination profiles in largemouth bass and mullet collected in northwest Florida," 27th Annual Meeting of the Florida Chapter of the American Fisheries Society. February 20-22, 2007. Ocala, Florida
- Nicole Morris: Awarded a Knauss Fellowship by Florida Sea Grant for 2007.
- Nicole Morris: Voted Outstanding Graduate Student in Biology for 2005-06 by the Biology Faculty
- Suzanne Gibson: Runner-up Best Student Presentation for "Distinguishing wild from hatchery produced juvenile red snapper with otolith chemistry," 26th Annual Meeting of the Florida Chapter of the American Fisheries Society, February 24-26, 2006.

UNDERGRADUATE HONOR'S THESIS SUPERVISION:

- Kaitlyn Toebe, University of West Florida 2010-2011. "The effect of the Deepwater Horizon Oil Spill on reef fish community structure in the north central Gulf of Mexico."
- Moriah Carlysle, University of West Florida, 2009-2010. "Reef fish community structure at northern Gulf of Mexico natural versus artificial reefs."

UNDERGRADUATE DIRECTED INDEPENDENT STUDY STUDENTS:

Michael Norberg, University of West Florida, Fall 2010. "Aspects of tomtate, *Haemulon aurolineatum*, ecology in the northern Gulf of Mexico"

Kaitlyn Toebe, University of West Florida, Fall 2010. "Effect of the Deepwater Horizon oil spill on reef fish communities in the northern Gulf of Mexico"

Jamie Cherry, University of West Florida, Spring 2010. "Reef fish ecology"

Kirsten Dahl, University of West Florida, Fall 2009. "Carbonate stable isotope analysis of apple snail shells as a natural tag of hatchery versus wild juveniles"

Moriah Carlysle, University of West Florida, Fall 2009, Spring 2010. "Community structure of reef fishes on natural and artificial substrates"

Emily Hasty, University of West Florida, Fall 2008. "Fish systematics techniques"

George Smith, University of West Florida, Spring 2007. "Marine fish ecology"

Steven Garner, University of West Florida, Fall 2006. "King mackerel age and growth estimated from otolith microstructure"

Sean Creekmore, University of West Florida, Summer 2005. "Otolith applications in fisheries biology"

Steven Garner, University of West Florida, Summer 2005. "Fisheries biology field sampling"

Whitney Bretana, University of West Florida, Spring 2006. "Systematic ichthyology techniques: Grouper skeleton articulation"

Sandra Arozqueta, University of West Florida, Spring 2006. "Systematic ichthyology techniques: Grouper skeleton articulation"

Dinielle Jadwisiak, University of West Florida, Fall 2005. "Clearing and staining techniques for preserved fishes" Natalia Hoffman, University of West Florida, Summer 2005. "Distinguishing king mackerel stocks with otolith chemistry"

Laura Goetz, University of West Florida, Spring 2005. "Distinguishing king mackerel stocks with otolith C and O stable isotope signatures"

Danielle Ploetz, University of South Alabama, Fall 2003. "Metal accumulation in king mackerel muscle tissue" Juliana Oostyen, University of Utah, Fall 2003. "Red snapper, *Lutjanus campechanus*, vermilion snapper, *Rhomboplites aurorubens*, and gray triggerfish, *Balistes capriscus*, feeding from artificial reefs off the coast of Alabama"

Justin Zabrecky, Spring Hill College, Fall 2002. "Diet of juvenile red snapper in the north central Gulf of Mexico"

HONORS AND AWARDS OF DIRECTED UNDERGRADUATE STUDENTS:

- Michael Norberg: Awarded Best Undergraduate Poster for poster presentation, "Preliminary analysis of trophic ecology and population dynamics of tomtate, *Haemulon aurolineatum*, on the northern Gulf of Mexico continental shelf," 2011 University of West Florida Student Scholars Symposium.
- Michael Norberg: Office of Undergraduate Research Grant Award (\$1,000; WFP faculty sponsor), "Ecology of tomtate, *Haemulon aurolineatum*, at natural versus artificial reefs off Pensacola" 2010-11.
- Moriah Carlysle: Awarded the President's Award (Best in Symposium) for poster presentation, "Reef fish community structure at natural versus artificial reefs in the northern Gulf of Mexico," 2010 University of West Florida Scholars of Engineering, Applied Sciences & Technology Annual Research Symposium.
- Kristen Dahl: Awarded Best Biology Presentation for poster presentation, "Shell stable isotope chemistry as a natural tag to distinguish wild from hatchery reared Florida apple snails," 2010 University of West Florida Scholars of Engineering, Applied Sciences & Technology Annual Research Symposium.
- Steven Garner: Bagelheads Award for poster presentation "Use of stable isotope analysis to infer trophic position and ontogenetic diet shifts in estuarine-dependent fishes," 2007 University of West Florida Scholars of Engineering, Applied Sciences & Technology Annual Research Symposium.
- Steven Garner: Undergraduate Research Program Grant (\$1,000; WFP faculty sponsor), "Ontogenetic shifts in Diet of the Pinfish (*Lagodon rhomboides*)" 2006-07.

SCHOLARSHIP

RESEARCH INTERESTS:

Fish Population Dynamics
Fish Population Structure and Connectivity
Early Life History of Fishes
Fisheries Management
Marine Biology and Ecology
Biological Oceanography

BOOKS:

- 2008 Church, R., D. Warren, R. Cullimore, L. Johnston, *M. Kilgour, J. Moore, *N. Morris, W.F Patterson III, W. Schroeder, and T. Shirley. A Study of Living History: Deep WWII Shipwrecks in the Gulf of Mexico. Past Foundation Press. Columbus, Ohio. 239 pp.
- 2007 **Patterson III, W.F.**, J.H. Cowan, Jr., D.A. Nieland, and G.R. Gitzhugh, editors. *Population Ecology and Fisheries of U.S. Gulf of Mexico Red Snapper*. American Fisheries Society. Bethesda, Maryland. 361 pp.

PAPERS:

- Dahl, K.A., **W.F. Patterson III**, A. Robertson, and A.C. Ortmann. DNA barcoding reveals extensive cannibalism among invasive lionfish in the northern Gulf of Mexico. *Oecologia*. submitted
- Murawski, S.A., J. Fleeger, **W.F. Patterson III**, C. Hu, K.L. Daly, I. Romero, and G.A. Toro-Farmer. How did the Deepwater Horizon Oil Spill affect nearshore ecosystems of the Gulf of Mexico? *Oceanography*. In Review
- 2016 Chagaris, D.D., D., S. Binion, A. Bodanoff, K. Dahl, J. Granneman, H. Harris, J. Mohan, M. Rudd, M. Swenarton, R. Ahrens, M. Allen, J. Morris, and W.F. Patterson III. Modeling management strategies to mitigate invasive lionfish impacts on the West Florida Shelf ecosystem. *Journal of Applied Ecology*. In Review
- *Garner, S.B., W.F. Patterson III, and C.E. Porch. Experimental assessment of circle versus J hook

^{*}Indicates student author throughout CV

- performance in the northern Gulf of Mexico recreational reef fish fishery. *ICES Journal of Marine Science*. In Review
- *Larsen, A.M., **W.F. Patterson III**, and C.R. Arias. Blood of apparently healthy red snapper *Lutjanus campechanus* contains a high diversity of bacteria. *BMC Microbiology*. In Review
- *Garner, S.B., *K.A. Dahl, and **W.F. Patterson III**. Circle hook performance when targeting Eurasian perch, *Perca fluviatilis*. *Journal of Applied Ichthyology*. In Revision
- *Dahl, K.A, **W.F. Patterson III**, and R.A. Snyder. Experimental assessment of lionfish removals to mitigate reef fish community shifts on northern Gulf of Mexico artificial reefs. *Marine Ecology Progress Series*. In Revision
- Allman, R.J., *C.L. Fioramonti, **W.F. Patterson III**, and A.E. Pacicco. Validation of annual growth zone formation in Gray Triggerfish dorsal spines, fin rays, and vertebrae. *Gulf of Mexico Science*. In Press
- *Addis, D.T., **W.F. Patterson III**, and *M.A. Dance. The potential of unreported artificial reefs to serve as refuges from fishing mortality for Gulf of Mexico reef fishes. North American Journal of Fisheries Management 36:131-139.
- *Lewis, J.A. **W.F. Patterson III**, J.K. Carlson, and K. McLachlin. Vertebral chemical signatures distinguish juvenile blacktip shark (*Carcharhinus limbatus*) nursery regions in the northern Gulf of Mexico. *Marine and Freshwater Research* doi: 10.1071/MF15088.
- *Zapp Sluis, M., *B.K. Barnett, W.F. Patterson III, and J.H. Cowan, Jr. Application of otolith nursery chemical signatures to estimate population connectivity of Red Snapper in the western Gulf of Mexico. *Marine and Coastal Fisheries* 7:483-496.
- Barnett, B.K., **W.F. Patterson III**, T.D. Kellison, *S.B. Garner, and A.M. Shiller. Nursery sources of red snapper (*Lutjanus campechanus*) off the southeastern USA simulated with otolith chemical signatures. *Marine and Freshwater Research*. doi: 10.1071/MF15076
- *Tarnecki, J.H and **W.F. Patterson III**. Changes in red snapper, *Lutjanus campechanus*, diet and trophic ecology in the northern Gulf of Mexico following the Deepwater Horizon Oil Spill. *Marine and Coastal Fisheries* 7:135–147.
- *Garner, S.B. and **W.F. Patterson III**. Direct observation of charterboat effort, catch, and discarding of northern Gulf of Mexico reef fishes. *US Fishery Bulletin* 113:157-166.
- *Garner, S.B., **W.F. Patterson III**, C.E. Porch, and *J.H. Tarnecki. Experimental assessment of circle hook performance and selectivity in the northern Gulf of Mexico recreational reef fish fishery. *Marine and Coastal Fisheries* 6:235–246.
- 2014 **Patterson III, W.F.**, *J.H. Tarnecki, *D.T. Addis, and L.R. Barbieri. Reef Fish community structure at natural versus artificial reefs in the northern Gulf of Mexico. *Proceedings of the Gulf and Caribbean Fisheries Institute* 66:4-9.
- *Dahl, K.A. and **W.F. Patterson III**. Diet of the invasive lionfish, *Pterois volitans*, on natural and artificial reefs in the northern Gulf of Mexico. *Proceedings of the Gulf and Caribbean Fisheries Institute*. *Proceedings of the Gulf and Caribbean Fisheries Institute* 66:201-204.
- *Tarnecki, J.H. and **W.F. Patterson III**. Diet and trophic ecology of red snapper, *Lutjanus campechanus*, on natural and artificial reefs in the northern Gulf of Mexico. *Proceedings of the Gulf and Caribbean Fisheries Institute* 66:341-344.
- *Garner, S.B., **W.F. Patterson III**, and C.E. Porch. Observer-based estimates of red snapper catch and discard rates during open and closed recreational seasons in the northern Gulf of Mexico. *Proceedings of the Gulf and Caribbean Fisheries Institute* 66:125-128.
- *Dahl, K.A. and **W.F. Patterson III**. Density and diet of rapidly expanding invasive lionfish populations in the northern Gulf of Mexico. *PLoS ONE 9(8): e105852. doi:10.1371/journal.pone.0105852*
- Patterson III, W.F., B.K. Barnett, M.Z. Sluis, J.H. Cowan Jr., and A.M. Shiller. Interspecific variation in juvenile snapper otolith chemical signatures. *Aquatic Biology* 21:1-10.
- *Dahl, K.A., **W.F. Patterson III**, P.C. Darby, and A.L. Garr. Shell δ^{13} C and δ^{18} O distinguishes hatchery from wild Florida apple snails. *Florida Scientist* 77:43-51.
- *Addis, D.T., **W.F. Patterson III**, *M.A. Dance, and G.W. Ingram Jr. Implications of reef fish movement from unreported artificial reef sites in the northern Gulf of Mexico. *Fisheries Research* 147:349-358.
- *Scharer, R.M., **W.F. Patterson III**, J.K. Carlson, and G.R. Poulakis. Age and growth of smalltooth sawfish verified with LA-ICP-MS analysis of vertebrae. *PLoS ONE* 7(10): e47850.doi:10.1371/journal.pone.0047850.
- 2012 **Patterson III, W.F.**, C.E. Porch, *J.H. Tarnecki, and A.J. Strelcheck. Effect of circle hook size on reef fish catch rate, size distribution, and selectivity in the northern Gulf of Mexico recreational fishery. *Bulletin of Marine Science* 88:647-665.

- *Zapp Sluis, M.Z., *B.K. Barnett, W.F. Patterson III, J.H. Cowan Jr., and A.M. Shiller Discrimination of juvenile red snapper otolith chemical signatures from Gulf of Mexico nursery regions. *Marine and Coastal Fisheries* 4:578-598.
- *Dance, M.A., **W.F Patterson III**, and *D.T. Addis. Factors affecting reef fish community structure at unreported artificial reef sites off northwest Florida. *Bulletin of Marine Science* 87:301-324.
- 2011 Cowan Jr., J.H., C.B. Grimes, **W.F. Patterson III**, and 12 other co-authors. Red snapper management in the Gulf of Mexico: science- or faith-based? *Reviews in Fish Biology and Fisheries* 21:187-204.
- *Gibson, S.M., **W.F. Patterson III**, R.P. Phelps, W.P. Patterson, and Z. Chen. Otolith elemental and stable isotope signatures distinguish hatchery from wild red snapper juveniles. *North American Journal of Fisheries Management* 30: 1176-1186.
- *Barnett, B.K. and **W.F. Patterson III**. The effect of coring and pulverizing juvenile red snapper, *Lutjanus campechanus*, otoliths on their chemical signatures. *Environmental Biology of Fishes* 89:463-417.
- *Shepard, K.E., **W.F. Patterson III**, D.A. DeVries, and M. Ortiz. Contemporary versus historical estimates of king mackerel (*Scomberomorus cavalla*) age and growth in the United States Atlantic Ocean and Gulf of Mexico. *Bulletin of Marine Science* 86:515-532.
- *Shepard, K.E, **W.F. Patterson III**, and D.A. DeVries. Trends in Atlantic contribution to mixed-stock king mackerel landings in south Florida inferred from otolith shape analysis. *Marine and Coastal Fisheries* 2:195–204.
- 2009 **Patterson III, W.F.**, *M.A. Dance, and *D.T. Addis. Development of a remotely operated vehicle based methodology to estimate fish community structure at artificial reef sites in the northern Gulf of Mexico. *Proceedings of the Gulf and Caribbean Fisheries Institute* 61:263-270.
- *Wells, R.J.D., J.H. Cowan, Jr., and **W.F. Patterson III**. Habitat use and effect of shrimp trawling on fish and invertebrate communities over the northern Gulf of Mexico continental shelf. *ICES Journal of Marine Science* 65:1610-1619.
- *Wells, R.J.D., J.H. Cowan, Jr., **W.F. Patterson III**, and C.J. Walters. Trawling effects and habitat selection on life history parameters of Gulf of Mexico red snapper. *Canadian Journal of Fisheries and Aquatic Sciences* 65:2399-2411.
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PRESENTATIONS:

- 2016 Patterson, W.F. III. Overview of current and recent red snapper tagging studies in the northern Gulf of Mexico. *Sea Grant Gulf of Mexico Red Snapper Workshop*. 2-3 March, New Orleans, Louisiana. (invited)
- 2016 Patterson, W.F. III, S. Cass-Calay, J. Chanton, E. Goddard, D. Hollander, S. Murawski, I. Romero, and J.H. Tarnecki. Evidence of acute and chronic impacts of the Deepwater Horizon Oil Spill on Gulf of Mexico red snapper. 2016 Gulf of Mexico Oil Spill & Ecosystem Science Conference. 1-4 February, Tampa, Florida.
- 2016 **Patterson, W.F. III**, K.A. Dahl, JH. Tarnecki, A. Robertson, D. Chagaris, M.S. Allen, R. Ahrens, R.A. Snyder. Disturbance of northern Gulf of Mexico reef fish communities: The Deepwater Horizon Oil Spill and the lionfish invasion. *2016 Gulf of Mexico Oil Spill & Ecosystem Science Conference*. 1-4 February, Tampa, Florida.
- Barnett, B.K., W.F. Patterson III, J. Chanton, D. Hollander, I. Romero, and E. Goddard. Does otolith Δ¹⁴C document food web impacts of the Deepwater Horizon Oil Spill? 2016 Gulf of Mexico Oil Spill & Ecosystem Science Conference. 1-4 February, Tampa, Florida.
- 2016 Romero, I.C., **W.F. Patterson III**, T. Sutton, E. Quintana-Rizzo, S.W. Ross, A.S. Kane, S. Murawski, J.J. Torres, N. Zenzola, E.A. Goddard, and D.J. Hollander. Time-series analysis of polycyclic aromatic hydrocarbons in fish communities. *2016 Gulf of Mexico Oil Spill & Ecosystem Science Conference*. 1-4 February, Tampa, Florida.
- 2015 **Patterson III, W.F.**. Artificial reef research in the northern Gulf of Mexico. *Florida Fish and Wildlife Conservation Commission-Marine Fisheries Division*. 2 December, Tallahassee, Florida. (invited)
- 2015 **Patterson III, W.F.**. Lionfish research in the northern Gulf of Mexico. *Florida Fish and Wildlife Conservation Commission-Marine Fisheries Division*. 2 December, Tallahassee, Florida. (invited)
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- Dahl, K.A., **W.F. Patterson III**, and R.A. Snyder. Targeted lionfish removals on northern Gulf of Mexico artificial reefs: effectiveness and impacts to native reef fish communities. *Gulf and Caribbean Fisheries Institute 68th Annual Conference*. 9-13 November, Panama City, Panama.
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- 2015 **Patterson III, W.F.**, S. Lowerie-Barbieri, and F. Whoriskey. iTAG & OTN collaboration, accomplishments and development of a research case study with red snapper. 2015 Integrated tracking of aquatic animals in the Gulf of Mexico workshop. 30-31 October, St. Petersburg, Florida. (invited)
- 2015 Cass-Calay, S.L., **W.F. Patterson III**, J.C. Tezlaff. Rebuilding Gulf of Mexico red snapper: Does the single-stock hypothesis provide sufficient protection against overfishing? *2015 National Stock Assessment Workshop*. 13-15 August, Portland, Oregon.
- 2015 Rios, A., W.F. Patterson III, L.R. Barbieri, and S.L. Cass-Calay. Ending and preventing overfishing: Alternative ABC control rules for the Gulf of Mexico. 2015 National Stock Assessment Workshop. 13-15 August, Portland, Oregon.
- *Binion-Rock, S, *A. Bogdanoff, *K. Dahl, *J. Granneman, *H. Harris, *J. Mohan, *M. Rudd, *M. Swenarton, M. Allen, D. Chagaris, R. Ahrens, **W.F Patterson III** and J. Morris. Modeling lionfish management strategies on the West Florida Shelf. REEF Fish and Friends Seminar. 14 July, Key Largo, Florida. (invited)

- 2015 Patterson III, W.F., *K.A. Dahl, A. Robertson, and R.A. Snyder. Invasive lionfish in the northern Gulf of Mexico. National Marine Fisheries Service-University of Florida 2015 Marine Resources Population Dynamics Workshop. 7-9 July, Gainesville, Florida. (invited)
- 2015 **Patterson III, W.F.** Red snapper management and science challenges in the northern Gulf of Mexico. National Academy of Sciences Gulf Research Program. 26 June, Mobile, Alabama. (invited)
- 2015 **Patterson III, W.F.** Lionfish in the northern Gulf of Mexico: Trends and potential mitigation. Ocean Conservancy Lionfish Awareness Symposium. 15 May, Destin, Florida. (invited)
- 2015 Patterson III, W.F. Acute and chronic impacts of the Deepwater Horizon Oil Spill on northern Gulf of Mexico reef fish communities. *Horizons 2015-Tallahassee Scientific Society*. 23 April, Tallahassee, Florida. (invited)
- 2015 **Patterson III, W.F.** Remotely operated vehicle marine research applications in the northern Gulf of Mexico. *Deep-C GoMRI Student ROV Competition*. 17 April, Dauphin Island, Alabama. (invited)
- 2015 **Patterson III, W.F.** Direct and indirect effects of invasive lionfish in the northern Gulf of Mexico. *Central Gulf Marine Trades Association*. 15 April, Orange Beach, Alabama. (invited)
- 2015 **Patterson III, W.F.** Evaluation of the Gulf of Mexico Fishery Management Council's ABC Control Rule. National Scientific and Statistical Committee Meeting. 24-26 February, Honolulu, Hawaii.
- 2015 Robertson, A., K. Heck, R. Carmichael, **W.F. Patterson III**, J. Cebrian, and S. Powers, Marine ecosystems and ecology of the northern Gulf of Mexico. *NOAA Science of Oil Spills Workshop, NOAA Office of Response & Restoration and Emergency Response Division*. 23-27 February, Mobile, Alabama. (invited)
- 2015 Patterson III, W.F., D. Hollander, J. Chanton, S. Murawski, I. Romero, C. Jagoe, M. James, *J. Tarnecki, *J. Neese, and *M. Norberg. Reef fishes and the Deepwater Horizon Oil Spill: Chronic Effects and Evidence of System Resiliency. 2015 Gulf of Mexico Oil Spill & Ecosystem Science Conference. 17-20 February, Houston, Texas. (invited keynote)
- James, M.O., *M. Smeltz, *C. Ghiran, *J.H. Tarnecki, and **W.F. Patterson III**. Biomarkers of exposure to polycyclic aromatic hydrocarbons in Gulf of Mexico reef fishes 2015 Gulf of Mexico Oil Spill & Ecosystem Science Conference. 17-20 February, Houston, Texas.
- Patterson III, W.F., L.R. Barbieri, D.T. Addis, *J.H. Tarnecki, *J.T. Neese, and *M.J. Norberg. Ecological function of northern Gulf of Mexico artificial reefs: comparisons to natural reefs. 2015 Florida Artificial Reef Summit. 14-16 January, Clearwater Beach, FL (invited)
- *Dahl, K.A., **W.F. Patterson III**, and R.A. Snyder. Invasive lionfish on panhandle artificial reefs: trends, effects, and potential mitigation measures. *2015 Florida Artificial Reef Summit*. 14-16 January, Clearwater Beach, FL.
- 2015 **Patterson III, W.F.**, A. Robertson, *K.A. Dahl, and *B.A. Klimek. Lionfish Research at the Dauphin Island Sea Lab. *Dauphin Island Sea Lab Foundation Meeting*. 13 January, Mobile, AL (invited)
- *DaCosta, K., K. McLachlin, K. Interlichia, K. Brill, **W.F. Patterson III**, R.H. Carmichael, and K.Brill. Analysis of manatee periotic bone microchemistry as a tool to track manatee migrations in the northern Gulf of Mexico. *Bays and Bayous Symposium*. 3-5 December, Mobile, Alabama.
- 2014 **Patterson III, W.F.** Red Snapper Case Study: Can We Fix It? *Guy Harvey Fisheries Sysmposium*. 13-15 November, St. Petersburg, Florida. (invited)
- *DaCosta, K., K. McLachlin, K. Interlichia, K. Brill, **W.F. Patterson III**, R.H. Carmichael, and K.Brill. Analysis of manatee periotic bone microchemistry as a tool to track manatee migrations in the northern Gulf of Mexico. *Gulf Estuarine Research Society Biennial Meeting*. 30-31 October, Port Aransas, Texas.
- 2014 **Patterson III, W.F.**, D.A. DeVries, *K.S. Watkins, and Z. Chen. Mixing between U.S. king mackerel, *Scomberomorus cavalla*, stocks estimated with otolith chemical signatures. 5th *International Otolith Symposium*. 20-24 October, Mallorca, Spain.
- 2014 Barnett, B.K., **W.F. Patterson III**, T.D. Kellison, and A.M. Shiller. Estimating potential nursery sources for red snapper, *Lutjanus campechanus*, populations in Atlantic Ocean waters of the United States from North Carolina to Florida. 5th International Otolith Symposium. 20-24 October, Mallorca, Spain.
- *Lewis, J.A. **W.F. Patterson III**, K. McLachlin, and J.K. Carlson. Distinguishing blacktip shark, *Carcharhinus limbatus*, nursery areas in the northern Gulf of Mexico with vertebral chemical signatures. 5th *International Otolith Symposium*. 20-24 October, Mallorca, Spain.
- *Dahl, K.A., **W.F. Patterson III**, and J.H. Tarnecki. Density and diet of invasive red lionfish among natural and artificial reefs in the northern Gulf of Mexico. *68th Annual Conference of the Southeastern Association of Fish and Wildlife Agencies*. 19-22 October, Destin, FL.
- *Garner, S.E, **W.F. Patterson III**, C.E. Porch, and J.H. Tarnecki. Experimental assessment of circle hook performance and selectivity in the northern Gulf of Mexico recreational reef fish fishery. *68th Annual Conference of the Southeastern Association of Fish and Wildlife Agencies*. 19-22 October, Destin, FL. (invited)

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- *Dahl, K.A., **W.F. Patterson III**, and J.H. Tarnecki. Invasive Pacific lionfish: ongoing research in the northern Gulf of Mexico. *Institute for Marine Mammal Studies*. 7 October, Ocean Springs, MS. (invited)
- Murawski, S.A. and **W.F. Patterson III**. DWH Impacts on fish, fisheries, and marine ecosystems An evolving picture. *Gulf of Mexico Research Initiative Webinar Series*. 6 August, via webinar. (invited)
- *Lewis, J.A. **W.F. Patterson III**, K. McLachlin, and J.K. Carlson. Distinguishing blacktip shark, *Carcharhinus limbatus*, nursery areas in the northern Gulf of Mexico with vertebral chemical signatures. *30th Annual Meeting of the American Elasmobranch Society*. 30 June-3 August, Chattanooga, Tennessee.
- 2014 **Patterson III, W.F.** Remotely operated vehicle marine research applications in the northern Gulf of Mexico. *Deep-C GoMRI Consortium Teacher ROV Workshop*. 14 June, Dauphin Island, Alabama. (invited)
- *Lewis, J.A., **W.F. Patterson III**, K. McLachlin, and J.K. Carlson. Visualizing the heterogeneity of trace metals incorporated into elasmobranch vertebrae using LA-ICP-MS. *Goldschmidt Conference*. 8-11 June, Sacramento, California.
- 2014 **Patterson III, W.F.** Remotely operated vehicle marine research applications in the northern Gulf of Mexico. *Deep-C GoMRI Student ROV Competition*. 25 April, Dauphin Island, Alabama. (invited)
- 2014 **Patterson III, W.F.** Acute and chronic effects of the Deepwater Horizon Oil Spill on northern Gulf of Mexico reef fish communities. *Stratus, Inc.* 4 April, Boulder, Colorado. (invited)
- 2014 **Patterson III, W.F.** Population demographics and stock mixing in king mackerel, *Scomberomorus cavalla*. *Universidad Autónoma de Campeche*. 19 February, Campeche, Mexico. (invited)
- *Smeltz M., L. *Glicksman, *G. Zhong, *L. Rowland-Faux, *A.S. Kanel, **W.F. Patterson III**, and M.O. James. Exploring factors that impact the activity of a polycyclic aromatic hydrocarbon exposure biomarker, EROD, in livers of finfish from the Gulf of Mexico. 2014 Gulf of Mexico Oil Spill& Ecosystem Science Conference. 26-28 January, Mobile, Alabama.
- *Tarnecki, J.H. and **W.F. Patterson III**. The effects of ontogeny, habitat, and DWH oil spill on redsnapper, Lutjanus campechanus, diet and trophic ecology in the northern Gulf of Mexico. 2014Gulf of Mexico Oil Spill& Ecosystem Science Conference. 26-28 January, Mobile, Alabama.
- Kane, A.S., J. Pine, M.O. James, I.C. Romero, D.J. Hollander, and **W.F. Patterson III**. Splenicmacrophage aggregates as potential biomarker of exposure in red snapper sampled from the northern Gulf of Mexico post-DWH oil spill. *2014 Gulf of Mexico Oil Spill& Ecosystem Science Conference*. 26-28 January, Mobile, Alabama.
- *Norberg, M.J. and **W.F. Patterson, III**. Impacts of the Deepwater Horizon Oil Spill on trophic ecology and population dynamics of tomtate, *Haemulon aurolineatum*, in the northern Gulf of Mexico. 2014 Gulf of Mexico Oil Spill& Ecosystem Science Conference. 26-28 January, Mobile, Alabama.
- *K.A. Dahl, **W.F. Patterson III**, J. Tarnecki; Declines in small demersal reef fishes: confounding effects of the Deepwater Horizon oil spill and invasive lionfish. *2014 Gulf of Mexico Oil Spill& Ecosystem Science Conference*. 26-28 January, Mobile, Alabama.
- 2014 **Patterson III, W.F.**, J.T. Tarnecki, C.H. Jagoe, I.C. Romero, D.J. Hollander, and M.O. James. Acute and chronic effects of the Deepwater Horizon Oil Spill on reef fish community and trophic structure. *2014 Gulf of Mexico Oil Spill& Ecosystem Science Conference*. 26-28 January, Mobile, Alabama.
- 2014 Romero, I.C., D.J. Hollander, **W.F. Patterson III**, S.W. Ross, A.S. Kane, S. Murawski, E. Quintana-Rizzo, E.A. Goddard, J.J. Torres. Polycyclic aromatic hydrocarbons in fish: 2 years after the DWH oil spill. *2014 Gulf of Mexico Oil Spill& Ecosystem Science Conference*. 26-28 January, Mobile, Alabama.
- 2013 **Patterson III, W.F.**, J.H. Tarnecki, and D.T. Addis. Ecological function of artificial versus natural reefs in the northern Gulf of Mexico. *Gulf and Caribbean Fisheries Institute 66th Annual Conference*. 4-8 November, Corpus Christi, Texas. (invited)
- *Garner, S.B., **W.F. Patterson III**, and C.E. Porch. Observer-based estimates of red snapper catch and discard rates during open and closed recreational seasons in the northern Gulf of Mexico. *Gulf and Caribbean Fisheries Institute 66th Annual Conference*. 4-8 November, Corpus Christi, Texas.
- *Dahl, K.A. and **W.F. Patterson III**. Diet of the invasive lionfish, *Pterois volitans*, on natural and artificial reefs in the northern Gulf of Mexico. *Gulf and Caribbean Fisheries Institute 66th Annual Conference*. 4-8 November, Corpus Christi, Texas.
- *Tarnecki, J.H. and **W.F. Patterson III**. Diet and trophic ecology of red snapper, Lutjanus campechanus, on natural and artificial reefs in the northern Gulf of Mexico. *Gulf and Caribbean Fisheries Institute* 66th *Annual Conference*. 4-8 November, Corpus Christi, Texas.
- 2013 **Patterson III, W.F.**. Understanding artificial reef ecology: Recent studies and future questions. *Alabama Department of Conservation Marine Fisheries Division*. 24 September, Dauphin Island, Alabama (invited)

- Patterson III, W.F., D.T. Addis and *J.H. Tarnecki. Fishery independent sampling of reef fish with micro remotely operated vehicles. *143rd Annual Meeting of the American Fisheries Society*. 8-12 September, Little Rock, Arkansas. (invited)
- *Garner, S.B, **W.F. Patterson III**, C.E. Porch Jr. and *J.H. Tarnecki. Effect of circle hook size on reef fish catch rates, composition, and selectivity in the northern Gulf of Mexico. *143rd Annual Meeting of the American Fisheries Society*. 8-12 September, Little Rock, Arkansas. (invited)
- *Norberg, M.J., **W.F. Patterson III**, and *J.H. Tarnecki. Tomtate, *Haemulon aurolineatum*, population demographics and trophic ecology in the northern Gulf of Mexico. *143rd Annual Meeting of the American Fisheries Society*. 8-12 September, Little Rock, Arkansas.
- *J.H. Tarnecki and **W.F. Patterson III**. Diet and trophic ecology of red snapper, *Lutjanus campechanus*, on natural and artificial reefs in the northern Gulf of Mexico. *143rd Annual Meeting of the American Fisheries Society*. 8-12 September, Little Rock, Arkansas.
- *Dahl, K.A., **W.F. Patterson III**, and *J.H. Tarnecki. Effects of a rapid invasion of Pacific lionfish, *Pterois volitans*, on reef fish communities at artificial reefs in the northern Gulf Of Mexico. *143rd Annual Meeting of the American Fisheries Society*. 8-12 September, Little Rock, Arkansas.
- *Allen, L., *D. Johnson, C. Jagoe, **W.F. Patterson III**, and *J.H. Tarnecki. PAH metabolites in bile and enzymatic biomarkers in livers of reef fish from the northern Gulf of Mexico after the Deepwater Horizon Oil Spill. *143*rd Annual Meeting of the American Fisheries Society. 8-12 September, Little Rock, Arkansas.
- 2013 **Patterson III, W.F.**. Remotely operated vehicle marine research applications in the northern Gulf of Mexico. *Deep-C GoMRI Consortium Teacher ROV Workshop*. 10 July, Dauphin Island, Alabama. (invited)
- 2013 **Patterson III, W.F.**. Stuff an academic fisheries ecologists gets to work on every day. *Dauphin Island Sea Lab High School Summer Program.* 25 June, Dauphin Island, Alabama. (invited)
- James, M.O., **W.F. Patterson III**, A.S. Kane, L.R. Faux, and G. Zhong. Activities of biomarker enzymes in livers of Gulf of Mexico fishes. PRIMO17: Pollutant Responses in Marine Organisms. 5-8 May, Faro, Portugal.
- Walter, J., B. Linton, W.F. Patterson III, and C.E. Porch Jr. The value of empirical estimates of selectivity in integrated assessments. *Center for the Advancement of Population Assessment Methodology Workshop, Selectivity: Theory, Estimation, and Application in Fishery Stock Assessment Models.* 11-14 March, LaJolla, California.
- *Dahl, K.A., **W.F. Patterson III**, and *J.H. Tarnecki. Effects of a rapid invasion of Pacific lionfish, *Pterois volitans*, on reef fish communities at artificial reefs in the northern Gulf Of Mexico. *Alabama Fisheries Association Annual Meeting*. 6-9 March, Guntersville, Alabama.
- *Garner, S.B, **W.F. Patterson III**, C.E. Porch Jr. and *J.H. Tarnecki. Direct estimates of circle hook selectivity in the northern Gulf Of Mexico recreational reef fish fishery. *Alabama Fisheries Association Annual Meeting*. 6-9 March, Guntersville, Alabama.
- *Norberg, M.J., **W.F. Patterson III**, and *J.H. Tarnecki. Tomtate, *Haemulon aurolineatum*, population demographics and diet in the northern Gulf of Mexico. *Alabama Fisheries Association Annual Meeting*. 6-9 March, Guntersville, Alabama.
- *J.H. Tarnecki and **W.F. Patterson III**. Diet and trophic ecology of red snapper, *Lutjanus campechanus*, on natural and artificial reefs in the northern Gulf of Mexico. *Alabama Fisheries Association Annual Meeting*. 6-9 March, Guntersville, Alabama.
- Patterson III, W.F., *J. Tarnecki, *Michael Norberg, and *Dustin Addis. Artificial reef research in the northern Gulf of Mexico. *Northwest Florida Artificial Reef Workshop*. 19-20 February, Niceville, Florida. (invited)
- 2013 **Patterson W.F. III**, *J. Tarnecki, C. Jagoe, I. Romero, D. Hollander, A. Kane, and M. James. Acute and chronic effects of the Deepwater Horizon Oil Spill on northern Gulf of Mexico reef fishes. *Gulf of Mexico Oil Spill& Ecosystem Science Conference*. 21-23 January, New Orleans, Louisiana.
- James, M.O., A. Kane, L. *Rowland-Faux, *G. Zhong, *Q. Mievre, *A. Beers, *A. Espaillat, and W.F. Patterson III. Biomarker enzymatic activities in livers of Gulf of Mexico fishes. *Gulf of Mexico Oil Spill & Ecosystem Science Conference*. 21-23 January, New Orleans, Louisiana.
- *Allen, L., *D. Johnson, C. Jagoe, **W.F. Patterson III**, and *J.H. Tarnecki. PAH metabolites in bile and enzymatic biomarkers in livers of reef fish from the northern Gulf of Mexico after the Deepwater Horizon Oil Spill. *Gulf of Mexico Oil Spill& Ecosystem Science Conference*. 21-23 January, New Orleans, Louisiana.
- 2013 Romero, I.C., D.J. Hollander, **W.F. Patterson III**, S.W. Ross, A.S. Kane, S. Murawski, E. Quintana-Rizzo, E.B. Peebles, E.A. Goddard, and J.J. Torres. Spatio-temporal concentrations and composition of polycyclic aromatic hydrocarbons in fish: Evidence for DWH oil spill impact on mesopelagic and outer continental shelf fishes. *Gulf of Mexico Oil Spill& Ecosystem Science Conference*. 21-23 January, New Orleans,

- Louisiana.
- 2012 Patterson III, W.F., J. Tarnecki, C. Jagoe, I. Romero, D. Hollander, A. Kane, and M. James. Acute and chronic effects of the Deepwater Horizon Oil Spill on northern Gulf of Mexico reef fishes. SEDAR Episodic Mortality Workshop. 13-15 December, New Orleans, Louisiana. (invited)
- *Allen, L., *D. Johnson, C. Jagoe, **W.F. Patterson III**, and *J.H. Tarnecki. PAH metabolites in bile and enzymatic biomarkers in livers of reef fish from the northern Gulf of Mexico after the Deepwater Horizon Oil Spill. *Society of Environmental Toxicology and Chemistry North America 33rd Annual Meeting*. 11-15 November, Long Beach, California.
- 2012 **Patterson III, W.F.**, *J. Tarnecki, C. Jagoe, I. Romero, D. Hollander, A. Kane, and M. James. Acute and chronic effects of the Deepwater Horizon Oil Spill on northern Gulf of Mexico reef fishes. *Gulf Estuarine Research Society Biannual Meeting*. 8-9 November, Dauphin Island, Alabama.
- *Fitzgerald, L., W.M. Graham, and **W.F. Patterson III**. Characterization of *Aurelia* spp. associated fishes in the northern Gulf of Mexico. *Gulf Estuarine Research Society Biannual Meeting*. 8-9 November, Dauphin Island, Alabama.
- *J.H. Tarnecki and **W.F. Patterson III**. Diet and trophic ecology of Red Snapper, *Lutjanus campechanus*, at natural and artificial reefs in the northern Gulf of Mexico. *Gulf Estuarine Research Society Biannual Meeting*. 8-9 November, Dauphin Island, Alabama.
- *Dahl, K.A., **W.F. Patterson III**, P.C. Darby, A.L. Garr. Shell stable isotope chemistry distinguishes hatchery reared from wild Florida apple snails. *Gulf Estuarine Research Society Biannual Meeting*. 8-9 November, Dauphin Island, Alabama.
- *Norberg, M.J., **W.F. Patterson III**, and J.H. Tarnecki. Tomtate, *Haemulon aurolineatum*, population demographics and diet in the northern Gulf of Mexico. *Gulf Estuarine Research Society Biannual Meeting*. 8-9 November, Dauphin Island, Alabama.
- Romero, I.C., D.J. Hollander, **W.F. Patterson III**, and 9 co-authors. Organic geochemical evidence for oil spill impacts on fish in the Gulf of Mexico: comparative and quantitative analyses of polycyclic aromatic hydrocarbons. *Gordon Research Conference on Organic Geochemistry*. 29 July-3 August, Plymouth, New Hampshire.
- 2012 **Patterson III, W.F.**. Acute effects of the Deepwater Horizon Oil Spill on the northern Gulf of Mexico reef fishes. *Seafood Safety Symposium*. 19 May, Pensacola, Florida. (invited)
- 2012 **Patterson III, W.F.**. Primer on experimental design and analysis of data. *Dauphin Island Sea Lab Research Experience for Undergraduates Program*, 17 May. Dauphin Island, Alabama.
- *Faris, K, *D. Johnson, *L. Allen, **W. Patterson**, *J. Tarnecki and C. Jagoe. Relationship between polynuclear aromatic hydrocarbons in fish bile and mercury content in liver from the Gulf of Mexico after the Deepwater Horizon Oil Spill. *NOAA Educational Partnership Program Research Forum.* 26-28 March, Tallahassee, Florida.
- *Johnson, D., *L. Allen, *K. Farris, **W. Patterson**, *J. Tarnecki, and C. Jagoe. Detection of polynuclear aromatic hydrocarbons in fish bile using fluorescence from the Gulf of Mexican Deepwater Horizon Oil Spill. *NOAA Educational Partnership Program Research Forum*. 26-28 March, Tallahassee, Florida.
- *Allen, L., *D. Johnson, *K. Farris, **W. Patterson**, *J. Tarnecki, and C. Jagoe. Identification of the relationship between polycyclic aromatic hydrocarbons in fish livers from the Gulf of Mexico after the Deepwater Horizon Oil Spill. *NOAA Educational Partnership Program Research Forum.* 26-28 March, Tallahassee, Florida.
- 2012 Romero, I.C., D.J. Hollander, **W.F. Patterson III**, and 9 co-authors. Organic geochemical evidence for oil spill impacts on fish in the Gulf of Mexico: Comparative and quantitative analyses of polycyclic aromatic hydrocarbons. *2012 Ocean Sciences Meeting*. 20-24 February, Salt Lake City, Utah.
- *Johnson, D., *L. Allen, *K. Farris, W. Patterson, *J. Tarnecki, and C. Jagoe. Detection of fish bile metabolites by fluorescence from the northern Gulf of Mexico-Deepwater Horizon Oil Spill. 2012 Ocean Sciences Meeting. 20-24 February, Salt Lake City, Utah.
- 2012 **Patterson III, W.F.**. Acute and chronic effects of oil on northern Gulf of Mexico reef fish communities. *Dauphin Island Sea Lab.* 18 January, Dauphin Island, Alabama.
- 2012 **Patterson III, W.F.**. Acute and chronic effects of oil on northern Gulf of Mexico reef fish communities. *University of South Florida*. 5 January, St. Petersburg, Florida.
- 2011 **Patterson III, W.F.**, *J.H. Tarnecki, *D.T. Addis, and *M.A. Dance. Development of micro ROV methods to examine reef fish ecology in the northern Gulf of Mexico. *Gulf States Marine Fisheries Commission*. 18 October, New Orleans, Louisiana. (invited)
- Barnett, B.K. and **W.F. Patterson III**. Interspecific and regional variation in otolith chemical signatures between juvenile red and lane snappers in the northern Gulf of Mexico. 141st *Annual Meeting of the American Fisheries Society*. 4-8 September, Seattle, Washington.

- Hollander, D. and 19 co-authors, including **W.F. Patterson III**. Abundance, composition, fate and toxicity of subsurface oils released into the northern Gulf of Mexico: Ongoing chemical, biological and geological perspectives of the Deepwater Horizon catastrophe. *Gordon Research Conference on Chemical Oceanography*. 14-19 August, Andover, New Hampshire. (invited keynote)
- Patterson III, W.F., *J.H. Tarnecki, *D.T. Addis, and *J.T. Neese. Reef fish ecology at natural versus artificial reefs in northern Gulf of Mexico. *Dauphin Island Sea Lab Summer Colloquium*. 12 July, Dauphin Island, Alabama. (invited)
- 2011 **Patterson III, W.F.**, C. Jagoe, and G.R. Fitzhugh. Acute effects of oil on northern Gulf of Mexico reefs and reef communities. *Florida Institute of Oceanography*. 24-25 May, Orlando, Florida.
- 2011 **Patterson III, W.F.**, C.E. Porch, A.J. Strelcheck, and *J.H. Tarnecki. Effect of circle hook size on reef fish size distribution and catch rate in the northern Gulf of Mexico recreational fishery. *International Symposium on Circle Hook Research, Management, and Conservation.* 4-6 May 2011, Miami, Florida.
- Hollander, D. and 17 co-authors, including **W.F. Patterson III**. Fate and impact of toxic oils released into the northern Gulf of Mexico: Ongoing chemical, biological and geological perspectives of the Deepwater Horizon catastrophe. *Smithsonian Institution*. 19 April, Washington, D.C. (invited)
- 2011 **Patterson III, W.F.**. Ecological application in Gulf of Mexico fisheries science. *University of South Alabama, Department of Marine Sciences*. 3 February, Mobile, Alabama. (invited)
- Patterson III, W.F., *D.T. Addis, *M.A. Dance, and *J.H. Tarnecki. The effect of fishing on reef fish community, trophic, and size structure at artificial reef sites in the northeastern Gulf of Mexico. 19th Annual Spring Meeting, Southern Division of the American Fisheries Society. 13-16 January, Tampa, Florida
- *Tarnecki, J.H., **W.F. Patterson III**, *J.T. Neese. Differences in fish community and trophic structure at northern Gulf of Mexico natural versus artificial reefs. *19th Annual Spring Meeting, Southern Division of the American Fisheries Society.* 13-16 January, Tampa, Florida.
- *Scharer, R.M., **W.F. Patterson III**, J.K. Carlson, and G. Poulakis. Preliminary age estimates of the endangered smalltooth sawfish of South Florida. *19th Annual Spring Meeting, Southern Division of the American Fisheries Society*. 13-16 January, Tampa, Florida.
- *Barnett, B.K. and **W.F. Patterson III**. Interspecific and regional variation in otolith chemical signatures between juvenile red and lane snappers in the northern Gulf of Mexico. 19th Annual Spring Meeting, Southern Division of the American Fisheries Society. 13-16 January, Tampa, Florida.
- *Fioramonti, C.L., R.J. Allman 1, **W.F. Patterson III**. Regional differences in age and growth of Gulf of Mexico gray triggerfish, *Balistes capriscus*. 19th Annual Spring Meeting, Southern Division of the American Fisheries Society. 13-16 January, Tampa, Florida.
- 2010 **Patterson III**, **W.F.**, *J.H. Tarnecki, and *D.T. Addis. Effect of circle hook size on reef fish size distribution and catch rate in the northern Gulf of Mexico recreational fishery. *Gulf and Caribbean Fisheries Institute 63rd Annual Meeting*. 1-5 November, San Juan, Puerto Rico.
- *Tarnecki, J.H., **W.F. Patterson III**, and *D.T. Addis. Analysis of reef fish diet and trophic position at natural and artificial reefs in the northern Gulf of Mexico. *Gulf and Caribbean Fisheries Institute 63rd Annual Meeting.* 1-5 November, San Juan, Puerto Rico.
- 2010 **Patterson III, W.F.**, R.A. Snyder, and R. Menzer. Potential impacts of the BP oil spill on gulf coast marine life. *Joint Meeting of the Mobile and Pensacola Chapters of the American Chemical Society*. 14 October, Daphne, Alabama. (invited)
- 2010 **Patterson III, W.F.** Potential effects of Deepwater Horizon oil on northern Gulf of Mexico fishes. *Pensacola Big Game Fishing Club*. 12 October, Pensacola, Florida. (invited)
- 2010 **Patterson III, W.F.**, C. Jagoe, and G.R. Fitzhugh. Acute effects of oil on northern Gulf of Mexico reefs and reef communities. Florida Institute of Oceanography. 15-16 September, Orlando, Florida. (invited)
- 2010 **Patterson III, W.F.**, and L. Barbieri. The Magnuson-Stevens Reauthorization Act: The alphabet soup of incorporating scientific and management uncertainty into U.S. federal fisheries management *Gulf of Mexico Fishery Management Council*. 19 August, Pensacola, Florida. (invited)
- *Scharer, R.M, **W.F. Patterson III**, and J.K. Carlson. Preliminary age estimates of the endangered smalltooth sawfish, *Pristis pectinata*, in South Florida. 26th Annual American Elasmobranch Society Meeting. 7-12 July, Providence, Rhode Island.
- 2010 **Patterson III, W.F.**. UWF Fisheries Laboratory pre-oil impact assessment of reef fish habitat in the northeastern Gulf of Mexico. Presentation for Florida State University System Chancellor Frank Brogan, and Florida Oil Spill Academic Task Force. 10 May, Pensacola, Florida. (invited)
- 2010 **Patterson III, W.F.**, and L. Barbieri. 2010. The Magnuson-Stevens Reauthorization Act: The alphabet soup of incorporating scientific and management uncertainty into U.S. federal fisheries management 30th Annual Meeting of the Florida Chapter of the American Fisheries Society. 16-18 February, Ocala, Florida.

- Addis, D.T. and **W.F. Patterson III**. Site fidelity and movement of reef fishes tagged at unreported artificial reef sites off northwest Florida. *30th Annual Meeting of the Florida Chapter of the American Fisheries Society*. 16-18 February, Ocala, Florida.
- 2010 **Patterson III, W.F.**, *D.T. Addis, and *M.A. Dance. 2010. Development of micro ROV-based methods to examine reef fish community and size structure on artificial and natural reefs. *Underwater Intervention Conference*. 9-11 February, New Orleans, Louisiana. (invited)
- 2010 **Patterson III, W.F.**, *D.T. Addis, and *M.A. Dance. Community structure and population demographics of reef fishes at artificial reefs off northwest Florida. *2010 Florida Artificial Reef Summit*. 21-23 January, Cocoa Beach, Florida. (invited)
- *Addis, D.T., **Patterson III, W.F.**, and *M.A. Dance. Site fidelity and movement of reef fishes tagged at unreported artificial reef sites off northwest Florida. *2010 Florida Artificial Reef Summit*. 21-23 January, Cocoa Beach, Florida.
- *Shepard, K., **W.F. Patterson III**, and D.A. DeVries. Estimating the contribution of Atlantic king mackerel to mixed-stock winter fisheries off south Florida with otolith markers. *4*th *International Otolith Symposium*. 23-28 August, Monterey, California
- *Barnett, B.K. and **W.F. Patterson III**. Development of coring methods to extract nursery signatures from red snapper otoliths. *4*th *International Otolith Symposium*. 23-28 August, Monterey, California.
- *Zapp, M., *B.K. Barnett, J.H. Cowan, Jr, and **W.F. Patterson, III**. Variability in age-0 red snapper otolith microchemistry among Gulf of Mexico regions. *4*th *International Otolith Symposium*. 23-28 August, Monterey, California.
- 2009 **Patterson III, W.F.**, *M.A. Dance, and *D.T. Addis. The refuge effect of unpublished artificial reefs deployed on the northwest Florida shelf. *Florida Fish and Wildlife Commission*. 25 June, Tallahassee, Florida. (invited)
- 2009 **Patterson III, W.F.**. Addressing fisheries questions in the Gulf of Mexico with otolith chemistry. *National Marine Fisheries Service, SEFSC-Panama City Laboratory*. 28 May, Panama City, Florida (invited)
- *Anderson, R.L., P. Arena, **W.F. Patterson III**, L.K.B. Jordan, and R.E. Spieler. Characterization of nocturnal fish assemblages on vessel and natural reefs of Broward County, Florida, USA. *International Marine Conservation Congress*. 19-24 May, Washington, D.C.
- 2009 **Patterson III, W.F.**. Artificial reef function in the northeast Gulf of Mexico: Empirical evidence versus popular perception. *University of West Florida Department of Biology Seminar Series*. 16 April.
- *Lounder, C.A., **W.F. Patterson III**, D.A. Winter. A.M. Shiller. Otolith chemical signatures distinguish gray snapper nursery regions along the west coast of Florida. 29th Annual Meeting of the Florida Chapter of the American Fisheries Society. 19-21 February, Ocala, Florida.
- 2008 **Patterson III, W.F.** Examining the ecological and fishery function of artificial reefs in the north central Gulf of Mexico. *Gulf of Mexico Fishery Management Council's Florida and Alabama Habitat Advisory PanelMeeting.* 3 December, Tampa, Florida. (invited)
- 2008 **Patterson III, W.F.**. Gulf of Mexico fisheries, peer review, and applying Magnuson-Stevens Reauthorization Act requirements. *National Standing Statistical and Scientific Committee Workshop*. 12-14 November, Honolulu, Hawaii. (invited)
- *Dance, M.A., **W.F. Patterson III**, and *D.T. Addis. Development of a remotely operated vehicle based methodology to estimate fish community structure at artificial reef sites in the northern Gulf of Mexico. *Gulf and Caribbean Fisheries Institute 61th Annual Meeting*. 10-14 November, Gosier, Guadeloupe French West Indies.
- Patterson III, W.F., A.J. Strelcheck, and C.E. Porch. Management implications of release mortality and bycatch in the northern Gulf of Mexico reef fish fishery. *138th Annual Meeting of the American Fisheries Society*. 17-21 August, Ottawa, Ontario, Canada. (invited)
- 2008 **Patterson III, W.F.**, *K.E. Shepard, and *T.R. Clardy. Interannual variability in mixing between Atlantic Ocean and Gulf of Mexico king mackerel stocks estimated with otolith chemical signatures. *138th Annual Meeting of the American Fisheries Society*. 17-21 August, Ottawa, Ontario, Canada.
- *Lounder, C.A., **W.F. Patterson III**, and R.J. Allman. Recruitment dynamics of gray snapper, *Lutjanus griseus*, among west Florida estuaries. *138th Annual Meeting of the American Fisheries Society*. 17-21 August, Ottawa, Ontario, Canada.
- *Barnett, B.K. and **W.F. Patterson III**. Development of coring methods to extract nursery signatures from red snapper otoliths. *138th Annual Meeting of the American Fisheries Society*. 17-21 August, Ottawa, Ontario, Canada.
- Patterson III, W.F. Is Gulf of Mexico red snapper a marine metapopulation? *Ashland University*. 1 May, Ashland, Ohio (via webcam; invited).
- 2008 Patterson III, W.F., R.A. Snyder, K.R. Rao, *S. Gibson, *S. Jeffers, and *A. Ren. Bioaccumulation of

- PCBs and mercury in marine fishes off northwest Florida. 2008 ASLO Ocean Sciences Meeting. 2-7 March, Orlando, Florida.
- *Addis, D.T., **W.F. Patterson III**, and M.A. Dance. Site fidelity and movement of reef fishes tagged at unreported artificial reef sites off northwest Florida. 27th Annual Meeting of the Florida Chapter of the American Fisheries Society. 19-22 February, Ocala, Florida.
- *Shepard, K.E, **W.F. Patterson III**, and D.A. DeVries. Estimating stock mixing in Atlantic and Gulf of Mexico king mackerel. 28th Annual Meeting of the Florida Chapter of the American Fisheries Society. 19-21 February, Ocala, Florida. (Best Student Paper Award).
- *Lounder, C.A., **W.F. Patterson III**, and R.J. Allman. Recruitment dynamics of gray snapper, *Lutjanus griseus*, among west Florida estuaries. *28th Annual Meeting of the Florida Chapter of the American Fisheries Society*. 19-21 February, Ocala, Florida.
- 2007 **Patterson III, W.F.**, *B.K. Barnett, and *S.M. Gibson. Estimation of the source of red snapper recruits to the west Florida shelf with otolith microchemistry. *17th Annual MaRFIN Conference*. 11-12 December, St. Petersburg, Florida.
- *Addis, D.T., **W.F. Patterson III**, and M.A. Dance. Site fidelity and movement of reef fishes tagged at unreported artificial reef sites off northwest Florida. *Gulf and Caribbean Fisheries Institute 60th Annual Meeting*. 5-10 November, Punta Cana, Dominican Republic.
- *Shepard, K.E, **W.F. Patterson III**, and D.A. DeVries. Age and growth and stock mixing in Gulf and Atlantic king mackerel. *Gulf and Caribbean Fisheries Institute 60th Annual Meeting*. 5-10 November, Punta Cana, Dominican Republic.
- *Lounder, C.A., **W.F. Patterson III**, and R.J. Allman. 2007. Recruitment dynamics of gray snapper, Lutjanus griseus, among west Florida estuaries. Gulf and Caribbean Fisheries Institute 60th Annual Meeting. 5-10 November, Punta Cana, Dominican Republic.
- 2007 **Patterson III, W.F.**, J.H. Cowan, Jr., G.R. Fitzhugh, and D.A. Nieland. Red snapper ecology and fisheries in the U.S. Gulf of Mexico. *Gulf and Caribbean Fisheries Institute 60th Annual Meeting*. 5-10 November, Punta Cana, Dominican Republic.
- *Addis, D.T., **W.F. Patterson III**, and M.A. Dance. Site fidelity and movement of reef fishes tagged at unreported artificial reef sites off northwest Florida. *Northwest Florida Regional Environmental Symposium*. 5 October, Pensacola, Florida.
- 2007 **Patterson III, W.F.**. R.A. Snyder, K.R. Rao, *S. Gibson, *S. Jeffers, and *A. Ren. Bioaccumulation of PCBs and mercury in marine fishes off northwest Florida. *Northwest Florida Regional Environmental Symposium*. 5 October, Pensacola, Florida.
- 2007 **Patterson III, W.F.**. Ecosystem-based fishery management: Transitioning to a more holistic paradigm. National Marine Fisheries Service Beaufort Laboratory. 14 August. Beaufort, North Carolina. (invited)
- 2007 **Patterson III, W.F.**. Estimating ecological function of artificial reefs. *Florida Fish and Wildlife Conservation Commission Artificial Reef Fish Management Science Colloquium*. 24-25 July, Tallahassee, Florida. (invited)
- 2007 **Patterson III, W.F.**, J.H. Cowan, Jr. Red snapper and Alabama's artificial reefs. *Florida Fish and Wildlife Conservation Commission Artificial Reef Fish Management Science Colloquium*. 24-25 July, Tallahassee, Florida. (invited)
- 2007 **Patterson III, W.F.**, R.A. Snyder, K.R. Rao, *S.M Gibson, *S.A. Jeffers, and *A. Ren. Effects of size, age, and trophic position on bioaccumulation of PCBs and mercury in marine fishes off northwest Florida. 27th Annual Meeting of the Florida Chapter of the American Fisheries Society. 20-22 February, Ocala, Florida.
- *Barnett, B.K. and **W.F. Patterson III**. Development of coring methods to extract nursery signatures from red snapper otoliths. *27th Annual Meeting of the Florida Chapter of the American Fisheries Society*. 20-22 February, Ocala, Florida.
- *Dance, M.A., **W.F. Patterson III**, and *D.T. Addis. Succession in reef fish communities at unreported artificial reef sites off northwest Florida. *27th Annual Meeting of the Florida Chapter of the American Fisheries Society*. 20-22 February, Ocala, Florida.
- *Addis, D.T., **W.F. Patterson III**, and *M.A. Dance. Site fidelity and movement of reef fishes tagged at unreported artificial reef sites off northwest Florida. 27th Annual Meeting of the Florida Chapter of the American Fisheries Society. 20-22 February, Ocala, Florida.
- Snyder, R.A., **W.F. Patterson III**, *S. Gibson, *S. Jeffers, and *A. Ren. Pre-reefing environmental assessment for the *ex-Oriskany*. *U.S. Department of the Navy*. 26 January, Washington, D.C.
- 2007 **Patterson III, W.F.** and N.M.B. Morris. Fish community and trophic structure at deepwater shipwreck sites in the northern Gulf of Mexico. 24th Minerals Management Service Gulf of Mexico Information Transfer Meeting. 9-11 January, Kenner, Louisiana. (invited)

- 2006 **Patterson III, W.F.** and W.J. Lindberg. Estimating the ecological function of artificial reefs. *Annual Joint Meeting of the Artificial Reef Committees of the Gulf States Marine Fisheries Commission and the Atlantic States Marine Fisheries Commission*. 7 November, Tybee Island, Georgia. (invited)
- *Wells, R.J.D., J.H. Cowan, Jr., and **W.F. Patterson III**. Trawling in the Gulf of Mexico: A study of the effects on red snapper and the associated community. 59th Annual Meeting of the Gulf and Caribbean Fisheries Institute. 6-11 November, Belize City, Belize.
- *Wells, R.J.D., *K.M. Boswell, J.H. Cowan, Jr., and **W.F. Patterson III**. The effectiveness of multiple gear types in sampling red snapper in the northern Gulf of Mexico. *59th Annual Meeting of the Gulf and Caribbean Fisheries Institute*. 6-11 November, Belize City, Belize.
- *Wells, R.J.D., **W.F. Patterson, III**, C.A. Wilson, J.H. Cowan, Jr., S.J. Bentley, and T.A. Henwood. Fisheries habitat of juvenile red snapper in the northern Gulf of Mexico. *Louisiana Sea Grant Program Assessment*. 13 September, Baton Rouge, Louisiana.
- *Wells, R.J.D., J.H. Cowan, Jr., and **W.F. Patterson III**. Trawling in the Gulf of Mexico: A study of the effects on red snapper and the associated benthic community. *Louisiana Sea Grant Program Assessment*. 13 September, Baton Rouge, Louisiana.
- **Patterson III, W.F.**, *M.A. Dance, and *D.T. Addis. Artificial reef research at UWF: Estimating ecological function. *Northwest Florida Artificial Reef Workshop*. 1-2 August, Pensacola, Florida. (Invited)
- 2006 **Patterson III, W.F.**. A review of Gulf of Mexico red snapper movement studies: Implications for population structure. *14th Annual Southern Division of the American Fisheries Society Meeting*. 8-12 February, San Antonio, Texas.
- *Gibson, S.M., **W.F. Patterson III**, R.P. Phelps, and W.P. Patterson. Distinguishing wild from hatchery produced juvenile red snapper with otolith chemistry. *14th Annual Southern Division of the American Fisheries Society Meeting*. 8-12 February, San Antonio, Texas.
- *Newton, D.C., **W.F. Patterson III**, J.H. Cowan, Jr. and C.A. Wilson. Habitat effects on juvenile red snapper density and growth in the northern Gulf of Mexico. *14th Annual Southern Division of the American Fisheries Society Meeting*. 8-12 February, San Antonio, Texas.
- 2006 Strelcheck, A.J., J.H. Cowan Jr. and **W.F. Patterson III**. Site fidelity, movement, and growth of red snapper in the north central Gulf of Mexico. *14th Annual Southern Division of the American Fisheries Society Meeting*. 8-12 February, San Antonio, Texas.
- *Jeffers, S.A. and **W.F. Patterson III**. Ecology of inshore lizardfish in the northern Gulf of Mexico. *14th Annual Southern Division of the American Fisheries Society Meeting*. 8-12 February, San Antonio, Texas.
- 2006 **Patterson III, W.F.**, J.H. Cowan, Jr., C.A. Wilson, and Z Chen. Population connectivity in Gulf of Mexico red snapper inferred from otolith elemental signatures. *26th Annual Meeting of the Florida Chapter American Fisheries Society*. 24-26 February, Ocala, Florida. (Best Paper Award).
- *Gibson, S.M., **W.F. Patterson III**, R.P. Phelps, and W.P. Patterson. Distinguishing wild from hatchery produced juvenile red snapper with otolith chemistry. 26th Annual Meeting of the Florida Chapter American Fisheries Society. 24-26 February, Ocala, Florida. (Runner-up, Best Student Paper).
- *Dance, M.A. and **W.F. Patterson III**. Estimating reef fish communities at artificial reef sites using a remotely operated vehicle. 26th Annual Meeting of the Florida Chapter American Fisheries Society. 24-26 February, Ocala, Florida.
- *Jeffers, S.A. and **W.F. Patterson III**. Ecology of inshore lizardfish in the northern Gulf of Mexico. 26th

 Annual Meeting of the Florida Chapter American Fisheries Society. 24-26 February, Ocala, Florida.
- *Morris, N.M.B. and **W.F. Patterson III**. Ecology of fishes associated with deep sea shipwrecks in the northern Gulf of Mexico. *26*th *Annual Meeting of the Florida Chapter American Fisheries Society*. 24-26 February, Ocala, Florida.
- 2006 **Patterson III, W.F.**. Otolith applications in fisheries ecology. *Department of Biology Seminar Series, University of West Florida*. 3 February. Pensacola, Florida.
- *Morris, N.M.B. and **W.F. Patterson III**. The artificial reef effect of World War II era shipwrecks in the northern Gulf of Mexico. *135th Annual Meeting of the American Fisheries Society*. 22-24 September, Anchorage, Alaska.
- 2005 **Patterson III, W.F.**. Spatial and temporal variability in otolith chemical signatures used to estimate population connectivity in marine fishes. 135th Annual Meeting of the American Fisheries Society. 22-24 September, Anchorage, Alaska.
- 2005 **Patterson III, W.F.**. Report of the southeast data assessment and review-Gulf of Mexico king mackerel assessment review panel. *Gulf of Mexico Fishery Management Council's Standing Scientific and Statistical Committee Meeting*. 27 July, New Orleans, Louisiana.
- 2005 **Patterson III, W.F.**. Otolith applications in fisheries biology. *University of Southern Mississippi Gulf Coast Research Laboratory*. 7 April, Ocean Springs, Mississippi. (invited)

- 2005 **Patterson III, W.F.**, J.H. Cowan, Jr. and J.A. Bohnsack. Attraction vs. production of red snapper on Alabama artificial reefs: Conceptual models, empirical evidence, and future directions. *8th International Conference on Artificial Reefs and Related Aquatic Habitats*. 10-14 April, Biloxi, Mississippi.
- 2005 **Patterson III, W.F.**, Z. Chen, and D.A. Winter. Distinguishing striped mullet nursery estuaries in the northern Gulf of Mexico with otolith chemical signatures. 25th Annual Meeting of the Florida Chapter of the American Fisheries Society. 22-24 February, Ocala, Florida.
- *Morris, N. M. B., **W.F. Patterson III**, and R. Church. The artificial reef effect of World War II era shipwrecks in the Northern Gulf of Mexico. *25th Annual Meeting of the Florida Chapter of the American Fisheries Society*. 22-24 February, Ocala, Florida.
- 2004 Cowan, J.H., Jr. and **W.F. Patterson III**. Attraction vs. production of red snapper, *Lutjanus campechanus*, on Alabama artificial reefs: conceptual models and evidence. *VI Congreso de Ciencias del Mar*. 1-5 December, Havana, Cuba. (invited)
- 2004 **Patterson III, W.F.**. Report of the southeast data assessment and review Gulf of Mexico king mackerel assessment review panel. *Gulf of Mexico Fishery Management Council's Standing Scientific and Statistical Committee Meeting*. 8 September, Tampa, Florida.
- *Clardy, T.R., **W.F. Patterson III**, D.A. DeVries, and C. Palmer. Stock discrimination of king mackerel, *Scomberomorus cavalla*, in U.S. waters with otolith morphology. *Third International Symposium on Fish Otolith Research and Application*. 11-16 July, Townsville, Australia.
- 2004 **Patterson III, W.F.**, J.H. Cowan, Jr., C.A. Wilson, and Z. Chen. Post-settlement mixing in Gulf of Mexico red snapper, *Lutjanus campechanus*, inferred from otolith chemistry. *Third International Symposium on Fish Otolith Research and Application*. 11-16 July, Townsville, Australia.
- *Newton, D.C., **W.F. Patterson III**, C.A. Wilson, J.H. Cowan, Jr., S.J. Bentley, and J. J. Jackson. Juvenile red snapper essential fish habitat in the north central Gulf of Mexico. *Alabama Fisheries Association 21st Annual Meeting*. 10-12 February, Gulf Shores, Alabama.
- *Clardy, T.R., **W.F. Patterson III**, D.A. DeVries, and C. Palmer. Stock discrimination between Atlantic and Gulf of Mexico king mackerel, *Scomberomorus cavalla*, with otolith shape analysis. *Alabama Fisheries Association 21st Annual Meeting*. 10-12 February, Gulf Shores, Alabama.
- *Dufrene, T.A., S.J. Bentley, **W.F. Patterson III**, and C.A. Wilson. Geological controls on essential red snapper habitat, northern Gulf of Mexico continental shelf. *12th Ocean Sciences Meeting*. 26-30 January, Portland, Oregon.
- 2003 **Patterson III, W.F.**, *T.R. Clardy, D.A. DeVries, Z. Chen, and R.L. Shipp. Discrimination among U.S. South Atlantic and Gulf of Mexico king mackerel stocks with otolith shape analysis and otolith microchemistry. *15th Annual MaRFIN Conference*. 3-4 December, Biloxi, Mississippi.
- *Ploetz, D.M., **W.F. Patterson III**, and T.M. Rice. Heavy Metals in tissues of Northern Gulf of Mexico Odontoceti, king mackerel and prey. *24th Annual Meeting of the Society of Environmental Toxicology and Chemistry*. 9-13 November, Austin, Texas.
- 2003 **Patterson III, W.F.**. Metapopulation structure of Gulf of Mexico red snapper. *University of Massachusetts Department of Biology*. 10 October, Amherst, Massachusetts. (invited)
- 2003 **Patterson III, W.F.**, J.H. Cowan, Jr., C.A. Wilson, and Z. Chen. Metapopulation structure of red snapper in the northern Gulf of Mexico inferred from otolith chemistry. *Gulf of Mexico Fishery Management Council*. 16 September, Baton Rouge, Louisiana.
- 2003 **Patterson III, W.F.**. Fisheries research in the northern Gulf of Mexico. *National Science Foundation-Center for Ocean Science Education Excellence*. 3 June, Dauphin Island, Alabama. (invited)
- 2002 **Patterson III, W.F.**, J.H. Cowan, Jr., C.A. Wilson, and Z. Chen. Stock Structure of red snapper in the northern Gulf of Mexico: Is their management as a unit stock justified based on spatial and temporal patterns in otolith microchemistry? *National Oceanic and Atmospheric Administration Marine Fisheries Initiative 14th Annual Conference*. 10-11December, Biloxi, Mississippi.
- Bentley, S.J., **W.F. Patterson III**, Y. Allen, *W. Vienne and C.A. Wilson. Geoacoustic and geological characterization of juvenile red snapper habitat, northern Gulf Of Mexico continental shelf. *Ecological Society of America Symposium on Effects of Fishing Activities on Benthic Habitats*. 12-14 November, Tampa, Florida.
- 2002 Patterson III, W.F., C.A. Wilson, S.J. Bentley, J.H. Cowan, Jr., Y.C. Allen, and *T.A. Henwood. Delineating essential juvenile red snapper habitat in the northern Gulf of Mexico. *Ecological Society of America Symposium on Effects of Fishing Activities on Benthic Habitats*. 12-14 November, Tampa, Florida.
- 2002 **Patterson III, W.F.**, J.H. Cowan, Jr., C.A. Wilson, and Z. Chen. Otolith elemental signatures of age-0 red snapper nursery areas in the northern Gulf of Mexico. *American Society of Limnology and Oceanography 2002 Summer Meeting*. 10-14 June, Victoria, British Columbia, Canada.
- 2002 **Patterson III, W.F.**. Mackerel stock assessment panel 2002 report. *Gulf of Mexico Fishery Management*

- Council Meeting. 11 September, New Orleans, Louisiana.
- 2002 **Patterson III, W.F.**, D.A. DeVries, C.A. Wilson, and Z. Chen. Otolith elemental signatures of king mackerel stocks in United States' waters of the Atlantic Ocean and Gulf of Mexico. *Alabama Fisheries Association 19th Annual Meeting.* 10-12 February, Gulf Shores, Alabama.
- 2002 **Patterson III, W.F.**. Gulf of Mexico cobia stock assessment report. *Gulf of Mexico Fishery Management Council Meeting*. 23 January, Brownsville, Texas.
- 2001 **Patterson III, W.F.**, C.A. Wilson, D.A. DeVries, and Z. Chen. Discrimination among U.S. king mackerel, *Scomberomorus cavalla*, stocks with otolith chemistry. *Gulf and Caribbean Fisheries Institute* 54th *Annual Meeting*. 6-10 November, Providenciales, Turks and Caicos Islands, British West Indies.
- 2001 **Patterson III, W.F.**. Mackerel stock assessment panel 2001 report. *Gulf of Mexico Fishery Management Council Meeting*. 16 May, New Orleans, Louisiana.
- 2001 **Patterson III, W.F.**. Mackerel stock assessment panel 2000 default control rule risk analysis. *Gulf of Mexico Fishery Management Council Meeting*. 26 March, Mobile, AL
- 2000 **Patterson III, W.F.**, J.H. Cowan, Jr., and R.L. Shipp. Red snapper site fidelity to, and movement from, artificial reef sites off Alabama. *Minerals Management Service Information Transfer Meeting: Gulf of Mexico Fish and Fisheries*. 24-26 October, New Orleans, Louisiana.
- 2000 **Patterson III, W.F.**, J.H. Cowan, Jr., C.A. Wilson, and Z. Chen. Otolith microchemical tags of juvenile red snapper nursery areas in the northern Gulf of Mexico. *American Fisheries Society Early Life History Section 24th Annual Larval Fish Conference*. 6-10 November, Gulf Shores, Alabama.
- 2000 **Patterson III, W.F.**, *G.W. Ingram, R.L. Shipp, and J.H. Cowan, Jr. Indirect estimation of red snapper and gray triggerfish release mortality. *Gulf and Caribbean Fisheries Institute* 53nd Annual Meeting. 6-10 November, Biloxi, Mississippi.
- 2000 **Patterson III, W.F.**. Otolith applications in fisheries biology. *Louisiana State University Marine Science Graduate Student Organization*. 18 October, Baton Rouge, Louisiana. (invited)
- 2000 **Patterson III, W.F.**. Mackerel stock assessment panel 2000 report. *Gulf of Mexico Fishery Management Council Meeting*. 15 May, Destin, Florida.
- 2000 **Patterson III, W.F.**, J.H. Cowan, Jr., J.R. Gold, and C.A. Wilson. Stock structure of northern Gulf of Mexico red snapper: an interdisciplinary approach. *American Fisheries Society Southern Division Midyear Meeting*. 31 January-4 February, Savannah, Georgia.
- *Ingram, G.W. and **W.F. Patterson III**. Movement patterns of red snapper (*Lutjanus campechanus*), greater amberjack (*Seriola dumerili*), and gray triggerfish (*Balistes capriscus*) in the Gulf of Mexico and the utility of marine reserves as management tools. *Gulf and Caribbean Fisheries Institute 52nd Annual Meeting*. 1-5 November, Key West, Florida.
- *Patterson III, W.F., J.H. Cowan, Jr., C.A. Wilson, and N. Julien. Discriminating between age-0 red snapper, *Lutjanus campechanus*, nursery areas in the northern Gulf of Mexico using otolith microchemistry. *Gulf and Caribbean Fisheries Institute* 52nd Annual Meeting. 1-5 November, Key West, Florida.
- *Patterson III, W.F., J.C. *Watterson, R.L. Shipp, and J.H. Cowan. Site fidelity and movement of red snapper from an artificial reef area off Alabama. *American Fisheries Society 129th Annual Meeting*. 29August-2 September, Charlotte, North Carolina.
- *Patterson III, W.F.. Population ecology of northern Gulf of Mexico red snapper. *University of Mobile Biology Department*. 5 May, Mobile, Alabama. (invited)
- *Patterson III, W.F., J.H. Cowan, Jr., E.Y. Graham, and W.B. Lyons. Otolith microchemical fingerprints of age-0 red snapper, *Lutjanus campechanus*, from the northern Gulf of Mexico. *American Fisheries Society Early Life History Section 22nd Annual Larval Fish Conference*. 9-12 July, Ann Arbor, Michigan.
- *Patterson III, W.F., J.H. Cowan, W.B. Lyons, and E.Y. Graham. Northern Gulf of Mexico nursery habitat of red snapper *Lutjanus campechanus* inferred from otolith microchemistry. *American Fisheries Society* 127th Annual Meeting. 24-28 August, Monterey, California.
- 1997 Cowan, J.H., Jr., R.L. Shipp, and *W.F. Patterson III. Artificial reefs and stock enhancement: the role of fish movement. *American Fisheries Society* 127th *Annual Meeting*. 24-28 August, Monterey, California.
- *Patterson III, W.F., J.H. Cowan, Jr., W.B. Lyons, and E.Y. Graham. Can northern Gulf of Mexico nursery habitat of young-of-the-year red snapper *Lutjanus campechanus* be inferred from otolith microchemistry? *Fisheries Society of the British Isles Annual International Symposium: Ichthyoplankton Ecology.* 8-11 July, Galway, Ireland.
- *Patterson III, W.F., J.H. Cowan, Jr., and R.S. Birdsong. Nutritional condition of striped bass, *Morone saxatilis*, larvae as determined by constituent lipid analysis. *American Fisheries Society Early Life History Section 20th Annual Larval Fish Conference*. 13-19 June, New Orleans, Louisiana.
- *Watterson, J.C., *W.F. Patterson III, and R.L. Shipp. Site fidelity and other life history data from a mark/recapture study of red snapper, *Lutjanus campechanus*, in the north central Gulf of Mexico. *American*

- Fisheries Society Southern Division Meeting. 22-26 February, Mobile, Alabama.
- *Patterson III, W.F., *J.C. Watterson, and R.L. Shipp. Impact of tropical cyclones on the movement of red snapper, *Lutjanus campechanus*, in the north central Gulf of Mexico. *American Fisheries Society Southern Division Midyear Meeting*. 22-26 February, Mobile, Alabama.

GRANTS:

- 2016 Co-Principal Investigator, "Factors affecting reef fish community structure among Panhandle LAARS refugia reefs" (with Mike Allen as PI). Florida Fish and Wildlife Conservation Commission. \$59,929/1 yr.
- 2015 Co-Principal Investigator, "Molecular and stable isotope approaches to characterize food web structure in support of ecosystem based fisheries management in the northern Gulf of Mexico" (with Alexis Janosik as PI) NOAA Fisheries Saltonstall-Kennedy Program. \$298,944/2 yr. (pending)
- Co-Principal Investigator, "Examining fisheries impacts of invasive lionfish with an Ecopath with Ecosim model" (with Mike Allen as PI and Dave Chagaris as co-PI) Florida Institute of Oceanography-Florida Centers of Excellence Research Grants Program. \$299,165/2 yr.
- Principal Investigator, "Testing descender devices in the recreational Gulf of Mexico red snapper fishery: implications for slot limits and season length" NOAA Fisheries Cooperative Research Program. \$249,058/1 vr.
- 2015 Co-Principal Investigator, "Evaluating fish production and ecosystem impacts of artificial reefs" (with J. Caffrey as PI) Florida Institute of Oceanography-Florida Centers of Excellence Research Grants Program. \$299,999/2 yr.
- 2015 Co-Principal Investigator, "Fishery-independent surveys of reef fish community, size, and age structure off northwest Florida" (with Kevin Boswell as PI) Florida Institute of Oceanography-Florida Centers of Excellence Research Grants Program. \$297,074/2 yr.
- Co-Principal Investigator, "Integrative tracking of aquatic animals in the Gulf of Mexico (iTAG): assessing habitat use and site fidelity of resident and migratory fishes" (with Susan Lowerre-Barbieri as PI and J. Rooker, B. Mahmoudi, and C. Porch as Co-PIs). Offshore Telemetry Network, Dalhouise University. \$500,000/5 yr.
- Co-Principal Investigator, "Multifaceted fisheries and ecosystem monitoring in Alabama's marine waters and the Gulf of Mexico" (with Alabama Department of Conservation and S. Powers) National Fish and Wildlife Federation. Patterson component: \$389,196/5 yr.
- Principal Investigator, "Testing descender devices in the recreational Gulf of Mexico red snapper fishery: implications for slot limits and season length" NOAA Fisheries Cooperative Research Program. \$227,213/1 yr.
- Co-Principal Investigator, "Efficacy of lionfish removal as a management strategy for Florida artificial reefs" (with Richard Snyder, PI). Florida Fish and Wildlife Conservation Commission. \$84,478/1 yr.
- 2014 Co-Principal Investigator, "Center for Integrated Modeling and Analysis of the Gulf Ecosystem (C-IMAGE)" (with Steve Murawski as PI and multiple co-PIs) Gulf of Mexico Research Initiative. \$22,000,000/3 yr; USA budget \$690,131/3 yr.
- 2014 Principal Investigator, "Applying cutting edge laser ablation-inductively coupled plasma mass spectrometry to estimate population connectivity in coastal elasmobranchs." USA Resiliency Fund. \$14,400/1 yr.
- 2014 Co-Principal Investigator, "Ecosystem-based fisheries management in the Gulf of Mexico reef fish complex" (with Q. Weniger, PI, and L. Perruso and S. Gosnell, Co-PIs). Lenfest Ocean Program. \$200,000/2 yr.
- 2014 Principal Investigator, "Examining invasive lionfish diet and trophic position in the northern Gulf of Mexico via DNA barcoding of unidentifiable prey items" (with Alison Robertson and Alice Ortmann, Co-PIs). Mississippi-Alabama Sea Grant. \$10,000/1 yr.
- 2014 Co-Principal Investigator, "REU Site: Undergraduate research experiences in coastal and nearshore marine systems of the northeastern Gulf of Mexico" (with Ruth Carmichael, PI) National Science Foundation Research Experience for Undergraduates. \$187,222/2 yr.
- 2014 Co-Principal Investigator, "Assessment of Escambia East Large Area Artificial Reef Site refugia reefs: Impacts of invasive lionfish" (with Dick Snyder, PI). Florida Fish and Wildlife Conservation Commission. \$59,996/1 yr.
- Principal Investigator, "Modeling the impacts of gear regulations in the northern Gulf of Mexico recreational reef fish fishery" (graduate fellowship submitted by Steven Garner). National Marine Fisheries

- Service and National Sea Grant. \$77,000/2 yr.
- 2013 Principal Investigator, "Data management in support of NOAAs integrated ecosystem assessment for the Gulf of Mexico through the NGI Ecosystem Data Assembly Center: DISL's Data Management Center." Northern Gulf Institute. \$68,622/1 yr.
- Principal Investigator, "Acquisition of a laser ablation inductively coupled plasma mass spectrometer to support marine science research and education in the northern Gulf of Mexico" (with Ruth Carmichael, Jeffery Krause, Ken Heck, and Sean Powers, co-PIs). National Science Foundation. \$314,725.
- Principal Investigator, "Examining vertebrae elemental signatures as nursery-specific tags of blacktip shark in the Gulf of Mexico" (with John Carlson, Co-PI). NOAA Fisheries. \$10,000/1 yr.
- Co-Principal Investigator, "Estimating potential nursery sources for south Atlantic red snapper populations using otolith chemistry" (with Todd Kellison, PI, and Beverly Barnett, Co-PI). NOAA-NMFS Marine Fisheries Initiative. \$64,700/1 yr.
- Co-Principal Investigator, "Distinguishing three cohorts of juvenile red snapper, *Lutjanus campechanus*, in the northern and southern Gulf of Mexico using otolith chemical signatures" (with Beverly Barnett, PI). NOAA-NMFS Marine Fisheries Initiative. \$75,800/1 yr.
- Principal Investigator, "Examining hook selectivity in the northern Gulf of Mexico recreational reef fish fishery" (with Clay Porch, Co-PI) NOAA Fisheries Cooperative Research Program. \$202,636/1 yr.
- 2011 Co-Principal Investigator, "Center for Integrated Modeling and Analysis of the Gulf Ecosystem (C-IMAGE)" (with Steve Murawski as PI and multiple co-PIs) Gulf of Mexico Research Initiative. \$11,000,000/3 yr; USA budget \$471,966/3 yr.
- 2011 Principal Investigator, "Effect of Deepwater Horizon Oil Spill On fish communities associated with artificial reefs off northwest Florida" (with David Hollander, Andrew Kane, and Margret James) Florida Department of Environmental Protection. \$352,053/1 yr; USA budget \$152,544/1 yr.
- Principal Investigator, "Acoustic tracking of reef fishes associated with EE-LAARS refugia reefs." Florida Fish and Wildlife Conservation Commission. \$98,139/2 yr.
- Principal Investigator, "Acute effects of oil on northern Gulf of Mexico reefs and reef communities" (with Chuck Jagoe, FAMU and Gary Fithugh, NMFS). Florida Institute of Oceanography. \$236,929/2 yr.
- 2010 Principal Investigator, "Examining smalltooth sawfish, *Pristis pectinata*, life history through analysis of vertebrae" (with Rachel Scharer). National Marine Fisheries Service. \$4,000/1 yr.
- 2009 Principal Investigator, "Minimizing discards in the Gulf of Mexico recreational red snapper fishery: Hook selectivity and the efficacy of a first fish rule" (with Clay Porch and Andy Strelcheck, Co-PIs). NOAA Fisheries Cooperative Research Program. \$294,421/3 yr.
- 2010 Co-Principal Investigator, "Marine field ecology shipboard laboratory" (with R.A. Snyder, PI). Florida Institute of Oceanography. \$10,500/1 yr.
- 2009 Principal Investigator, "Examination of red snapper fisheries ecology on the northwest Florida shelf." Florida Fish and Wildlife Research Institute. \$99,978/2 yr.
- 2009 Co-Principal Investigator, "Marine field ecology shipboard laboratory" (with R.A. Snyder, PI). Florida Institute of Oceanography. \$10,500/1 yr.
- 2008 Principal Investigator, "The effect of unpublished artificial reefs deployed on the northwest Florida shelf" Florida Fish and Wildlife Conservation Commission. \$59,980/1 yr.
- Principal Investigator, "Migratory pathways and population connectivity in Gulf of Mexico king mackerel: A pilot study using next generation pop-up satellite archival tags." NOAA-MaRFIN. \$41,930/2 yr.
- 2008 Co-Principal Investigator, "Marine field ecology shipboard laboratory" (with R.A. Snyder, PI). Florida Institute of Oceanography. \$8,400/1 yr.
- 2007 Principal Investigator, "Enhancement of the University of West Florida's marine biology program's underwater teaching and research capabilities" (with R.A. Snyder, PI). University of West Florida Pace Academic Development. \$42,803/1 yr.
- 2007 Principal Investigator, "The effect of unpublished artificial reefs deployed on the northwest Florida shelf." Florida Fish and Wildlife Conservation Commission. \$36,829/1 yr.
- 2007 Co-Principal Investigator, "Marine field ecology shipboard laboratory" (with R.A. Snyder, PI). Florida Institute of Oceanography. \$11,200/1 vr.
- Principal Investigator, "The effect of unpublished artificial reefs deployed on the northwest Florida shelf." Florida Fish and Wildlife Conservation Commission. \$79,430/1 yr.
- 2006 Co-Principal Investigator, "Pre-Reefing Environmental Assessment for the *ex*-Oriskany" (with R.A. Snyder, PI). U.S. Navy/Computer Science Corporation. \$315,056/1 yr.

- 2006 Principal Investigator, "A cooperative research approach to estimating population dynamics and stock mixing in king mackerel" (with D.A. DeVries as Co-PI and B. Hartig and J. Thierry as cooperators). NOAA Fisheries. \$317,325/2 yrs.
- Principal Investigator, "Recruitment dynamics and population connectivity of gray snapper, *Lutjanus griseus*, among west Florida estuarine systems" (with R.S. McBride and R.J. Allman, Co-PIs). Florida Sea Grant. \$146,761/2 yrs.
- Principal Investigator, "Distinguishing Atlantic and Gulf of Mexico king mackerel, *Scomberomorus cavalla*, with otolith O and C stable isotope values." UWF Faculty Scholarly and Creative Activity Award. \$2,000/1yr.
- Principal Investigator, "The effect of unpublished artificial reefs deployed on the northwest Florida shelf." Florida Fish and Wildlife Conservation Commission. \$59,899/1 yr.
- Principal Investigator, "Estimation of the source of red snapper recruits to west Florida and south Texas with otolith chemistry: Implications for stock structure" (with J.H. Cowan, Co-PI). 2005. NOAA-MaRFIN. \$361,825/3 yrs.
- 2004 Principal Investigator, "The effect of unpublished artificial reefs deployed on the northwest Florida shelf." Florida Fish and Wildlife Conservation Commission. \$59,940/1 yr.
- 2004 Principal Investigator, "Post-settlement movement of Gulf of Mexico red snapper: Implications for metapopulation structure." NOAA-MaRFIN. \$71,931/2 yrs.
- Principal Investigator for UWF portion, "The archeological and biological analysis of World War II shipwrecks in the Gulf of Mexico: a pilot study of the artificial reef effect in deep water" (with R.A. Church, PI, D. Warren, T. Shirley, W. Schroeder, R. Cullimore, and D. Aig, Co-PIs). Minerals Management Service. \$349,950/2 yrs. (UWF = \$49,389/2 yrs.)
- 2004 Principal Investigator for UWF portion, "Fisheries habitat of juvenile red snapper in the northern Gulf of Mexico" (with J.H. Cowan, Jr., S.J. Bentley, C.A. Wilson, and T.A. Henwood, Co-PIs). NOAA-Sea Grant. \$377,181/2 yrs. (UWF = \$66,856/2 yrs.)
- 2002 Principal Investigator, "Intergovernmental personnel assignment to NOAA-NMFS for groundfish data Analysis." NOAA-NMFS. \$70,500/2 yrs.
- 2002 Principal Investigator, "Fisheries habitat of juvenile red snapper in the northern Gulf of Mexico." Mississippi-Alabama Sea Grant. \$9,631/1 yr.
- Principal Investigator, "Fisheries habitat of juvenile red snapper in the northern Gulf of Mexico" (with S.J. Bentley, J.H. Cowan, Jr., C.A. Wilson, and T.A. Henwood, Co-PIs). Mississippi-Alabama and Louisiana Sea Grant. \$435,240/2 yrs.
- 2001 Principal Investigator, "Natural biogeochemical tags of striped mullet, *Mugil cephalus*, estuarine nursery areas in the north central Gulf of Mexico" (with A.P. Rainosek, Co-PI). U.S. Environmental Protection Agency-Alabama Center for Estuarine Studies. \$87,755/2 yr.
- Co-Principal Investigator, "Discrimination among U.S. south Atlantic and Gulf of Mexico king mackerel stocks with otolith shape analysis and otolith microchemistry" (with R.L. Shipp, PI). NOAA-MaRFIN. \$189,562/3 yrs.
- 2000 Co-Principle Investigator, "Determination of geotechnical and biological properties in the Louisiana artificial reef program's reef planning areas: South Timbalier" (with C.A. Wilson, PI, and H.H. Roberts, Co-PI). Louisiana Department of Wildlife and Fisheries. \$49,993/1yr.
- 1999 Co-Principal Investigator, "Use of otolith microchemistry to discriminate between U.S. south Atlantic and Gulf of Mexico stocks of king mackerel" (with C.A.Wilson, PI). Louisiana Sea Grant. \$12,750/1 yr.
- 1998 Co-Principal Investigator, "Temporal stability in age-0 red snapper otolith microchemical fingerprints from the northern Gulf of Mexico" (with J.H. Cowan, Jr., PI). Alabama Department of Conservation. \$21,400/1 yr.
- Principal Investigator, "Biogeochemical tracers in red snapper otoliths: A test of the unit stock hypothesis". Mississippi-Alabama Sea Grant Graduate Student Fellowship. \$6,000/2 yr.

COLLABORATIONS ESTABLISHED:

National

Micheal Allen, University of Florida, Institute of Food and Agricultural Sciences Robert Allman, National Marine Fisheries Service, Panama City Laboratory Luiz Barbieri, Florida Fish and Wildlife Research Institute Sue Barbieri, Florida Fish and Wildlife Research Institute Kevin Boswell, Florida International University, Department of Biological Sciences

Jane Caffrey, University of West Florida, Center for Environmental Degradation and Bioremediation

Shannon Calay, National Marine Fisheries Service, Southeast Fisheries Science Center

John Carlson, National Marine Fisheries Service, Panama City Laboratory

Bernard Castillo, University of the Virgin Islands, Department of Biology

Dave Chagaris, Florida Fish and Wildlife Research Institute

Zhongxing Chen, Harvard University, Department of Geology

Rob Church, C and C Technologies, Inc

Jim Cowan, Louisiana State University, Department of Oceanography

Phil Darby, University of West Florida Department of Biology

Doug DeVries, National Marine Fisheries Service, Panama City Laboratory

Gary Fitzhugh, National Marine Fisheries Service, Panama City Laboratory

John Gold, Texas A&M University, Department of Wildlife and Fisheries

Terry Henwood, National Marine Fisheries Service, Pascagoula Laboratory

David Hollander, University of South Florida, College of Marine Sciences

Walter Ingram, National Marine Fisheries Service, Pascagoula Laboratory

Chuck Jagoe, Florida A&M University, School of the Environment

Margaret James, University of Florida, Department of Medicinal Chemistry

Dobbs Lee, Barry Vittor and Associates

John Mareska, Alabama Department of Conservation-Marine Resources Division

Rich McBride, National Marine Fisheries Service, Northeast Fisheries Science Center

Robert McMichael, Florida Fish and Wildlife Research Institute

Steve Murawski, University of South Florida, College of Marine Sciences

David Nieland, Louisiana State University, Coastal Fisheries Institute

Ernst Peebles, University of South Florida, College of Marine Sciences

Dave Portnoy, Texas A&M University-Corpus Christi, Department of Biology

Gregg Poulakis, Florida Fish and Wildlife Conservation Commission

Clay Porch, National Marine Fisheries Service, Southeast Fisheries Science Center

Al Rainosek, University of South Alabama, Depart of Mathematics and Statistics

Allison Robertson, US Food and Drug Administration, Seafood Safety Laboratory

Jay Rooker, Texas A&M University-Galveston, Department of Marine Biology

Alan Shiller, University of Southern Mississippi, Department of Marine Sciences

Tom Shirley, University of Texas at Corpus Christi, Harte Research Institute for Gulf of Mexico Studies

Will Schroeder, University of Alabama, Department of Biological Sciences (retired)

Richard Snyder, University of West Florida Center for Environmental Diagnostics and Bioremediation

Robert Turpin, Escambia County Florida Department of Marine Resources

David Wells, Texas A&M University at Galveston, Department of Marine Biology

Chuck Wilson, Louisiana State University and Louisiana Sea Grant

International

Sam Bentley, Memorial University of Newfoundland, Department of Earth Sciences Bill Patterson, University of Saskatchewan, Department of Geology

Sandy Diamond, University of Western Sydney, College of Natural Sciences

PROFESSIONAL ORGANIZATIONS:

American Fisheries Society, American Society of Limnology and Oceanography, Estuarine Research Federation, Gulf Estuarine Research Society, American Association for the Advancement of Science, and Gulf and Caribbean Fisheries Institute

HONORS AND AWARDS:

2010 University of West Florida Distinguished Faculty Research and Creative Activities Award

National Oceanographic Partnership Program Award for Excellence in Partnering for collaborative research (see above for project collaborators) "The archeological and biological analysis of World War II

shipwrecks in the Gulf of Mexico: A pilot study of the artificial reef effect in deep water"

2007 University of West Florida Distinguished Faculty Research and Creative Activities Award

- Inducted into the University of West Florida's Million Dollar Research Hall of Fame
 U.S. Department of Interior Cooperative Conservation Award for Minerals Management Service funded research (see above for project collaborators) "The archeological and biological analysis of World War II shipwrecks in the Gulf of Mexico: A pilot study of the artificial reef effect in deep water"
 Best Paper Award at the 26th Annual Meeting of the Florida Chapter of the American Fisheries Society for "Population connectivity in Gulf of Mexico red snapper inferred from otolith elemental signatures"
 Power Tie Award for the most dynamic oral presentation at the 25th Annual Meeting of the Florida Chapter
- 2005 Power Tie Award for the most dynamic oral presentation at the 25th Annual Meeting of the Florida Chapter of the American Fisheries Society for "Distinguishing striped mullet nursery estuaries in the northern Gulf of Mexico with otolith chemical signatures"
- Nelson Award for outstanding PhD. candidate in the Department of Marine Sciences, University of South Alabama

SEAGOING EXPERIENCE:

Chief scientist, field technician, or R/V operator on more than 100 cruises of R/V A.E Verrill, R/V Bayrunner, R/V Beagle Too, R/V Caretta, R/V Cynoscion, R/V High Roller, R/V NMFS HST, R/V Lynnwood Holton, R/V Miss Genna, R/V Oregon II, R/V Peaquod, R/V Seahorse, R/V Suncoaster, R/V Sundowner, R/V Tommy Munro, F/V Back Down II, F/V Deliverance, F/V Dorado, F/V Gulf of Mexico, F/V Intimidator, F/V Island Star, F/V Lady Ann, F/V Riptide, F/V Southerner, and F/V Total Package. Experience on Atlantic Ocean, Chesapeake Bay, and Gulf of Mexico and associated embayments.

PROFESSIONAL WORKSHOPS ATTENDED:

- 2016 Gulf of Mexico Red Snapper Workshop, National Sea Grant, New Orleans, Louisiana, 2-3 March (invited)
- 2015 Modeling Lionfish Management Strategies on the West Florida Shelf, University of Florida, Gainesville, Florida, 12-17 July (invited)
- Florida Fish and Wildlife Research Institute/ Gulf of Mexico Region Ocean Observing System iTAG
 Telemetry Workshop, Florida Fish and Wildlife Research Institute, St. Petersburg, Florida,
 28-30 May (invited)
- Data-Limited Methods Workshop, Gordon and Betty Moore Foundation and the Natural Resources Defense Council, Miami, Florida, 15-17 January (invited)
- 1998 International Workshop on Analysis of Survival Data from Marked Animals, Research Unit for Wildlife Population Assessment, St. Andrews, Scotland, 10-14 August.
- 1996 Short Course in Fishery Modeling, American Institute of Fishery Research Biologists, LaJolla, California, 10-12 April.

SERVICE

UNIVERSITY SERVICE:

Department:

USA Marine Sciences and Dauphin Island Sea Lab

2014-	Chair, DISL LA-ICP-MS User's Committee
2014-	Member, USA Marine Sciences Conservation Biologist Search Committee
2013	Chair, USA Marine Sciences Physical Oceanographer Search Committee
2012	Chair, USA Marine Sciences Research Assistant Professors (2) Search Committee
2012-	Chair, USA Marine Sciences Recruitment and Orientation Committee
2012-	Member, USA Marine Sciences Policies and Procedures Committee
2012-	Member, Dauphin Island Sea Lab Estuarium Committee
2012-2014	Chair, Dauphin Island Sea Lab Data Management Committee
2004, 2006,	Faculty Judge, Marine Sciences Graduate Student Symposium, Dauphin Island, Alabama
2011	

2011- 30+ letters of reference written for students

UWF Biology

2006-2011 Faculty Sponsor, UWF Fisheries Club

2004-2011 UWF Open House: Biology Faculty Representative 2004- 60+ letters of reference written for students

College:

USA College of Arts and Sciences

2013- USA Summer Professional Development Committee

UWF College of Arts and Sciences

2005-2006 UWF Building 58 Space Allocation Committee

2004-2011 UWF Florida Diver Control Board

University:

University of West Florida

2009-2011 UWF Space Utilization Committee

2009-2011 UWF Maritime Museum Exhibits Faculty Planning Group Chair, UWF Office of Sponsored Research Workgroup

2005-date UWF Sponsored Research Advisory Committee

2005-2008 UWF Sponsored Research Advisory Committee, Conflict of Interest Subcommittee

PROFESSIONAL SERVICE:

2014- Member, iTAG Scientific Steering Committee

2013- Chair, Standing Statistical and Scientific Committee of the Gulf of Mexico Fishery

Management Council

-Committee is responsible for reviewing all biological, sociological, and economic analyses from various advisory panels and stock assessments, and then providing binding scientific advice to the council on fishery management and habitat protection issues for all species living in federal

waters of the Gulf of Mexico

2013- Associate Editor, Gulf of Mexico Science

2002-2005

2012- Editorial Board, Reviews in Fisheries Science and Aquaculture

2012- Assistant Judge, Alabama Deepsea Fishing Rodeo

2002-2003

2012- Appointed Member, Alabama Department of Conservation and Natural Resources Marine

Resources Division State Record Fish Committee

2009-2011 Appointed Member, Florida Department of Agriculture and Consumer Services, Florida

Aquaculture Coordinating Council, representing the Florida Institute of Oceanography

2009 Invited Participant, Gulf of Mexico representative to the "Second National Scientific and

Statistical Committee Meeting," hosted by the Caribbean Fishery Management Council,

10-13 November. St. Thomas, USVI.

2009 Invited Participant, "Estimating Natural Mortality in Stock Assessment Applications" workshop

sponsored by the National Marine Fisheries Service, 11-13 August, Seattle, Washington

2008 President, Florida Chapter of the American Fisheries Society

2008 Invited Participant, Gulf of Mexico representative to the "First National Scientific and Statistical

Committee Meeting," hosted by the Western Pacific Fishery Management Council, 12-14 November, Honolulu, Hawaii.

2007 Invited Participant, Florida Fish and Wildlife Conservation Commission's Division of Freshwater Fisheries meeting: "Florida Freshwater Fisheries Roundtable: Creating a Vision for the Future". 19 October. Orlando, Florida.

2007 Invited Participant, Florida Fish and Wildlife Conservation Commission's Artificial Reef – Fish Management Science Colloquium: "The Utilization of Artificial Reefs for Effective Fish Management: Incorporating the Best Available Science". 24-25 July 2007. Tallahassee, Florida.

President-Elect, Florida Chapter of the American Fisheries Society
-Responsible for establishing symposium theme for 2008 annual meeting, as well as soliciting/inviting speakers for it and soliciting contributed papers and posters.

Appointed Member, Standing Statistical and Scientific Committee of the Gulf of Mexico Fishery Management Council

-Committee is responsible for reviewing all biological, sociological, and economic analyses from various advisory panels and stock assessments, and then providing binding scientific advice to the council on fishery management and habitat protection issues for all species living in federal waters of the Gulf of Mexico

2004, 2005, Appointed Member, National Marine Fisheries Service's Cooperative Research Program Review Panel

-One of 8 scientists responsible for reviewing proposals submitted to the NMFS-CRP, evaluating peer-review comments, and recommending proposals for funding to the NMFS southeast regional science director

2003-2009 Appointed Member, Finfish Stock Assessment Panel of the Gulf of Mexico Fishery Management Council

-One of 14 scientists responsible for reviewing scientific data on Gulf of Mexico fish stocks, running models to assess the status of the stocks, and providing scientific advice to the council on fishing quotas and other management actions.

2001-2003 Appointed Member, Reef Fish Stock Assessment Panel of the Gulf of Mexico Fishery Management Council

-One of eight scientists responsible for reviewing scientific data on reef fish stocks, running models to assess the status of the stocks, and providing scientific advice to the Council on fishing quotas and other management actions. Occasionally responsible for presenting results to the Standing Statistical and Statistical Committee or to the Gulf of Mexico Fishery Management Council and testifying at public meetings.

1997-2003 Appointed Member, Mackerel Stock Assessment Panel of the Gulf of Mexico and South Atlantic Fishery Management Councils (Chairman 2001-2003)

-One of seven scientists responsible for reviewing scientific data on coastal pelagic fish stocks, running models to assess the status of the stocks, and providing scientific advice to the council on fishing quotas and other management actions. As Chairman, responsible for running meetings, and editing and coordinating reports for the stock assessment panels. Presented stock assessment results to the Standing and Statistical Committee or to the Gulf of Mexico Fishery Management Council and testifying at public meetings

SCIENTIFIC MEETINGS OR SYMPOSIA ORAGANIZED:

2007

- 2015 Member, Steering Committee for iTAG Annual Meeting. 28-30 October, St. Petersburg, Florida.
- 2014 Member, Steering Committee for iTAG Organizational Meeting. 28-30 May, St. Petersburg, Florida.
- 2014 Co-chair, Program Committee for 2014 Alabama-Mississippi Bays & Bayous Symposium. 2-3 December,

- Mobile, Alabama.
- 2014 Co-Chair for session Integrated Understanding of the Impacts of the DWH Oil Spill on Fisheries:

 Exposure Vectors, Biological-Physiological Effects and Abundance of Fisheries Populations. 2015
 Gulf of Mexico Research Initiative Meeting. 26-29 January, Mobile, Alabama.
- Symposium and contributed papers organizer, Florida Chapter of the American Fisheries Society Annual Meeting. 19-21 February, Ocala, Florida.
- 2006 Member, Organizing Committee, Northwest Florida Artificial Reef Workshop. 1-2 August, Pensacola, Florida.
- 2006 Chair, Organizing Committee, Red Snapper Ecology and Fisheries Symposium, *14th Annual Southern Division of the American Fisheries Society Meeting*. 8-12 February, San Antonio, Texas.
- 2005 Member, Steering/Organizing Committee, 8th International Conference on Artificial Reefs and Artificial Habitats. 10-14 April, Biloxi, Mississippi

SERVICE AS A BOOK REVIEWER:

American Fisheries Society Books, Oxford University Press

SERVICE AS A MANUSCRIPT REVIEWER:

Aquatic Biology, Aquatic Ecology, Bulletin of Marine Science, Canadian Journal of Fisheries and Aquatic Sciences, Endangered Species Research, Environmental Biology of Fishes, Estuarine, Coastal, and Shelf Science, Fisheries Management and Ecology, Fisheries Oceanography, Fisheries Research, Florida Sea Grant, Frontiers in Marine Science, Gulf of Mexico Science, ICES Journal of Marine Science, Journal of Fish Biology, Marine Biology, Marine and Coastal Fisheries, Marine and Freshwater Research, Marine Ecology Progress Series, North American Journal of Fisheries Management, PLoS ONE, Scientia Marina, Transactions of the American Fisheries Society, U.S. Fishery Bulletin

SERVICE AS A PROPOSAL REVIEWER:

American Fisheries Society-Abstract Reviewer, Louisiana Sea Grant, Mississippi/Alabama Sea Grant, National Science Foundation, New Jersey Sea Grant, NOAA Coastal Oceans Program, NOAA Coral Reef Conservation Program, NOAA Fisheries Cooperative Research Program, NOAA-NMFS Marine Fisheries Initiative, NOAA Saltonstall-Kennedy Program, North Carolina Sea Grant, Texas Sea Grant, Virginia Sea Grant

COMMUNITY SERVICE:

- 2011- Participated along with my lab members in Discovery Day, the Dauphin Island Sea Lab's annual open house. Exhibits set up in my research laboratory demonstrating the types of research questions we examine and the tools we utilize to do so.
- 2011- Participated in the Dauphin Island Sea Lab's annual remotely operated vehicle competition by given public talk on the usage of ROVs in marine research, including at the Dauphin Island Sea Lab. Also provided guidance to groups competing in the ROV completion.
- 2010- Interviewed by CNN, the New York Times, National Geographic, National Fisherman, the Tampa Tribune, the Pensacola News Journal, the Mobile Press Register, Florida Today, ABC-WEAR News, and Smithsonian Magazine in regard to collapse of Deep Horizon drilling platform in the north central Gulf of Mexico and scientific efforts to assess potential impacts of oil on marine habitats and food webs of the northern Gulf of Mexico.
- Volunteer taught continuing education course, Fisheries Science for Fishermen. Course included 3, 2-hr sessions aimed educating fishermen about aspects of fish biology, fisheries science, and fisheries management in Florida and U.S. federal waters of the northern Gulf of Mexico.
- 2009 Participated in Career Day at SS Dixon Elementary School in Pace, Florida. Talked to 600

	students about what Marine Biology as career entails. Demonstrated flying a remotely operated vehicle (ROV) and had students conduct time trials with the ROV. 3 November.
2008	Solicited as an advisor to Senator Bill Nelson's staff in regard to pending red snapper fishery regulations in the Gulf of Mexico, the history of the red snapper fishery, and why the life history of the species and the current and historical overfished status of the Gulf stock necessitated regulatory measures
2007	Worked with Washington High School (Pensacola, Florida) honors marine biology students and their faculty advisor, Kevin Turner, as they designed, built, and field tested a prototype remotely operated vehicle (ROV). Also provided hands-on training in the operation of UWF Fisheries' VideoRay Pro III micro-ROVs
2006 about	Interviewed with R.A. Snyder for ABC News Pensacola Affiliate WEAR's evening newscast biological and toxicological research being conducted to estimate the potential impacts of the sinking of the aircraft carrier ex- <i>Oriskany</i> as an artificial reef off Pensacola; original air date: 19 May, 2006.
2006	Interviewed for WUWF's program "Inside UWF" about my and graduate student Nicole Morris' involvement in a Minerals Management Services study "Deep Gulf shipwrecks of World War II: Partners for science and history"; original air date: 10 September, 2006.
2005-	Served as a consultant to Florida Sea Grant, Santa Rosa County, FL, BVA, Inc., and Stratus Consulting
2002-2004	Participated along with my lab members in Discovery Day, the Dauphin Island Sea Lab's annual open house. Exhibits set up in my research laboratory demonstrating the types of research questions we examine and the tools we utilize to do so.