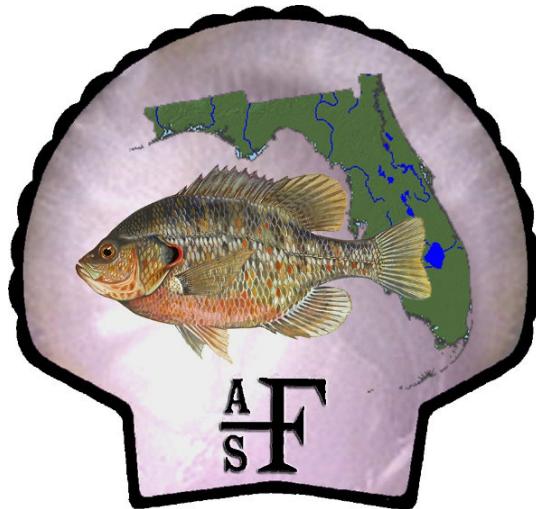


**43rd Annual Meeting of the
Florida Chapter of the
American Fisheries Society**

May 9th –11th, 2023

Guy Harvey Resort

St. Augustine Beach, Florida



The Florida Chapter of the American Fisheries Society

Chapter Officers

President: Chelsey Crandall, FWC

President-Elect: Ed Camp, UF

Past President: Daniel Nelson, FWC

Secretary-Treasurer: Steve Beck, FWC

Major Contributors for our Annual Meeting

Webmaster: Jason O'Connor, FWC

Newsletter Editor: Kyle Miller, FWC

Raffle Co-Chairs: Amanda Croteau, UWF, Geoff Smith, NWFSC, & Chelsey Crandall,
FWC

Student Travel Awards: Chuck Cichra, UF

Roger Rottmann Memorial Scholarships: Chuck Cichra, UF

Rich Cailteux Award: Eric Nagid, FWC

Membership Database Manager: Larry Connor, FWC (retired)

Special thanks to

Symposium participants & all presenters

All moderators & judges

AFS MEETINGS CODE OF CONDUCT

AFS is committed to providing a safe, productive, and welcoming environment for all meeting participants

Purpose: American Fisheries Society (AFS) meetings are among the most respected scientific meetings of fisheries professionals in the natural resource scientific community. AFS values the diversity of views, expertise, opinions, backgrounds, and experiences reflected among all attendees, and is committed to providing a safe, productive, and welcoming environment for all meeting participants and AFS staff. All participants, including, but not limited to, attendees, speakers, volunteers, exhibitors, staff, service providers, and others, are expected to abide by this Meetings Code of Conduct. This Code of Conduct applies to all AFS meeting-related events, including those sponsored by organizations other than AFS but held in conjunction with AFS events, in public or private facilities.

Expected Behaviors:

- Treat all participants, attendees, AFS staff, and vendors with respect and consideration, valuing a diversity of views and opinions, and critiquing ideas rather than individuals.
- Refrain from demeaning, discriminatory, or harassing behavior and speech directed toward other attendees, participants, AFS staff, and suppliers/vendors.
- Be mindful of your surroundings and of your fellow participants. Alert AFS staff or venue event staff if you notice a dangerous situation or someone in distress.
- Respect the rules and policies of the meeting venue, hotels, AFS-contracted facility, or any other venue.
- To foster a welcoming environment, assist AFS members with impaired physical or cognitive abilities, if necessary.

Unacceptable Behaviors:

- Harassment, intimidation, or discrimination in any form is unacceptable. Harassment includes speech or behavior that is not welcome or is personally offensive. Behavior that is acceptable to one person may not be acceptable to another, so use discretion to be sure respect is communicated. Harassment intended in a joking manner still constitutes unacceptable behavior. Regardless of your intent, if you are advised directly or by another party that some aspect of your speech or behavior at an AFS meeting is harassment, you are expected to stop engaging in such speech or behavior.
- Do not physically or verbally abuse any attendee, speaker, volunteer, exhibitor, AFS staff member, service provider, or other meeting guest.
- Examples of unacceptable behavior include, but are not limited to, unwelcome or offensive verbal comments related to age, appearance, or body size, employment or military status, ethnicity, gender identity and expression, individual lifestyle, marital status, national origin, physical or cognitive ability, political affiliation, sexual orientation, race, or religion. Harassment can also include the use of sexual and/or discriminatory images in public spaces or in presentations; deliberate intimidation; stalking; following; harassing photography or recording; sustained disruption of talks or other events; bullying behavior; inappropriate physical contact; and unwanted sexual attention.
- Appropriate and responsible personal use of photographs or posts to social media of another individual's oral presentation, poster, or likeness is acceptable unless permission is specifically denied by the individual.
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Consequences:

- Anyone requested to stop unacceptable behavior is expected to comply immediately.
- Consequences to unacceptable behavior will be determined by the AFS Ethics and Professional Conduct Committee in conjunction with AFS officers and the AFS Executive Director.
- Consequences may include one or more of the following actions: Dismissal from the meeting without refund, reporting to your agency, exclusion from any future AFS (sub unit/chapter/division) meetings for five years, revoke of AFS membership without the opportunity for renewal for five years; if the offense is criminal, local law enforcement will be contacted.

Reporting Unacceptable Behavior: Anyone experiencing or witnessing behavior that constitutes an immediate or serious threat to public safety at any time should contact local law enforcement (by calling 911) and immediately notifying facility security without delay. If you are not in immediate danger but feel that you are the subject of unacceptable behavior, you are encouraged to file a formal complaint to the AFS Ethics and Professional Conduct Committee and/or an AFS officer or the AFS Executive Director which will then be forwarded to the Ethics and Professional Conduct Committee for assessment.

43rd Annual Meeting of the Florida Chapter American Fisheries Society

May 9-11, 2023

Guy Harvey Resort, St. Augustine Beach, Florida

Tuesday, May 9th

11:00am – 6:00pm Meeting registration (Lobby)
1:00pm – 1:10pm Announcements and Welcome (Nautilus Ballroom)
1:10pm – 5:00pm Contributed Papers (Nautilus Ballroom)
6:00pm – 7:00pm Dinner (Nautilus Ballroom)
7:00pm – 8:00pm **Formal Poster Session** (Fairwinds Ballroom & Lobby)
Followed by BEACHSIDE SOCIAL

Wednesday, May 10th

7:00am – 8:10am Breakfast (Nautilus Ballroom)
7:00am – 6:00pm Registration (lobby)
8:10am – 8:15am Announcements and Welcome (Nautilus Ballroom)
8:15am – 12:00pm **Symposium: *Integrating Participants in Fisheries*** (Nautilus Ballroom)
12:00pm – 1:00pm Lunch (Ballroom)
1:00pm – 3:00pm **Symposium: *Integrating Participants in Fisheries*** (Nautilus Ballroom)
3:30pm – 4:00pm Student Subunit Meeting (Nautilus Ballroom)
4:00pm – 5:30 pm **Chapter Business Meeting & Award Presentations** (Nautilus Ballroom)
Student Awards: *Travel and Roger Rottmann Scholarship*
Professional Awards: *Rich Cailteux Award*
6:00pm – 7:00pm Dinner (Beachside)
followed by RAFFLE, AUCTION (Nautilus Ballroom) & BEACHSIDE SOCIAL

Thursday, May 11th

7:00am – 8:10am Breakfast (Nautilus Ballroom)
7:00am – 9:00am Registration (Lobby)
8:10am – 8:15am Announcements and Welcome (Nautilus Ballroom)
8:15am – 12:00pm Contributed Papers (Nautilus Ballroom)
12:00pm – 1:00pm **Lunch & Awards presentation:** (Nautilus Ballroom)
Best Papers/Best Posters
Power Tie
Lampshade Awards
1:00pm – 5:00pm Continuing Education Workshop: “Open Science” with Dr. Marcus Beck (Tampa Bay Estuary Program). Learn how to create reproducible, transparent, and actionable research products! (Nautilus Ballroom)

NEW THIS YEAR! We will be having a Nature Challenge throughout the meeting! See details at end of schedule!

Day-By-Day Agenda – 43rd Annual Meeting, 2023 - Florida Chapter American Fisheries Society

Tuesday, May 9th

11:00am-6:00 pm Registration and Check-in

*Check in *may* be available early on a room-by-room basis, but standard is 4pm*

11:00am-6:00 pm Registration and Check-in

*Check in *may* be available early on a room-by-room basis, but standard is 4pm*1:00pm – 1:10pm **Welcome: Chelsey Crandall, Chapter President****Contributed Papers 1****Moderator: Drew Dutterer, FWC**1:10pm – Johnson, E., K. Smith, C. Hymel, E. Sapp, K. Bonvechio. Recruitment of American eels (*Anguilla rostrata*) to a northeast Florida estuary: Effects of a changing climate on early life history.1:25pm – Hyle, R., R. Grey, J. O'Connor, B. Bankovich, C. Hanlon, S. Bousquin, T. Beagell, B. Fontaine, A. Bernhardt. Movement and Survival of Largemouth Bass in the Restored Kissimmee River.1:40pm -- Henry, R., B. Barthel, A. Strickland, S. Stang, B. Winston. Impacts of Hurricane Michael on Shoal Bass within the Chipola River.1:55pm-- Stang, S., A. Strickland, M. Allen. A Population on the Brink: Striped Bass in the Ochlockonee River Drainage, Florida.2:10pm -- Myles-McBurney, C., J. O'Connor. Diel or no diel: Benthic fish assemblages on gravel bars vary with depth and time of day.2:25pm -- *Gottesman, H., W. Patterson, E. Peebles, T. Switzer, S. Lowerre-Barbieri. Estimating gag (*Mycteroperca microlepis*) nursery origin with otolith stable isotope signatures.2:40pm -- *Keel, K., M. Kerr, G. Zapfe, C. Stallings, E. Peebles, M. Breitbart. Assessing Fall Spawning Dynamics of Fishes on the West Florida Shelf Using DNA Barcoding.2:55pm -- Smith, G., D. Murie, A. Croteau, D. Parkyn. Multidecadal Growth of Red Drum in Relation to the Deepwater Horizon Oil Spill and Other Driving Forces in the Gulf of Mexico.3:10pm -- *Webb, S., E. Ault, R. Ellis, M. Ajemian, P. Stevens. Do changes in natural habitat availability affect sportfish?3:25pm -- *Schram, M., C. Stallings. Diversity patterns of subtropical fish assemblages on artificial and natural reefs in the eastern Gulf of Mexico.3:40pm -- *Olson, J., A. Tobin, A. Acosta. Estimating the influence of modeled oceanographic variables on juvenile snapper abundance in the Middle Florida Keys.

3:55pm – Break—15 minutes

Contributed Papers 2— 5 minute speed talks Moderator: Brandon Thompson, FWC

4:10pm – O'Connor, J., C. Anderson, J. Wilsey, B. Barthel. Spotted Bullhead Population Status: A Tale of Two Regions?

4:15pm – Lundy, E., S. Harrison, J. Holder. Combing the Desert: Long-lingering effects of Post-Hurricane Vegetation Loss on Central Florida Lakes.

4:20pm – Bonvechio, K., T. Phillips, M. Taliercio, B. Bottom. Age, Growth, and Maturity of American Eel in the Lower St. Johns River, Florida.

4:25pm – *Crowder, C., L. Walters, M. Donnelly, G. Cook. Developing a New Method to Test Relationships Among Habitat Quality Characteristics, Prey Availability, and Sport Fish in an Estuarine Habitat Complex.

4:30pm – *Mathews, H., K. Smith. Provision of oyster reef habitat by the Pervious Oyster Shell Habitat (POSH) Along Two Energetic Shorelines in Northeast Florida.

4:35pm – Siders, Z. Embrace the Bayesian in You: Examples from Somatic Growth.

4:40pm – Long, C., R. Ahrens, Z. Siders. Comparing machine learning to ratio-based estimates of protected species bycatch.

4:45pm – Gentry, L., D. Chagaris, L. McEachron, Shanae Allen. Ecological Modeling to Support Management of Shifting Black Seabass Stocks.

4:50pm – Dutterer, D., S. Zappulla, S. Lindelien, A. Martin. Evaluating stocked, hatchery-reared Rainbow Trout as potential forage for trophy Largemouth Bass in Florida.

4:55pm – Day one closing comments.

6:00pm – 7:00pm

Dinner

7:00pm – 8:00pm

Formal Poster Session (Beverages and snacks in the poster area)

Followed by BEACHSIDE SOCIAL

Poster Session (7:00pm – 8:00pm)

(In alphabetical order by presenting author)

*Allume, J., O. Betiku, L. Katinwo, E. Betiku, A. Strickland. Changes in Piney Z Lake Productivity and Ecosystem Biodiversity due to contaminants.

*Anderson, C., A. Carlson. Assessing effects of Tilapia Oreochromis spp. on Largemouth Bass Micropterus salmoides and Bluegill Lepomis macrochirus reproduction, recruitment, and growth.

*Arvin, S., S. Kajiura. Sex and Size Distribution of Blacktip Sharks in Southeast Florida.

Barthel, B., A. Strickland, B. DeMauro, B. Winston, R. Henry. Reproductive activity of Shoal Bass in hatchery ponds.

Beech, C., A. Mattair, M. Wegener. A Year in the Life of Alligator Gar in Pensacola Bay.

*Bernanke, M., J. Gelseichter. Movement patterns and habitat use of young-of-the-year scalloped hammerhead sharks (Sphyrna lewini) in the Tolomato river nursery.

Bottom, B., J. Carroll, K. Bonvechio. Ageing methodology of American Eel Anguilla rostrata in Florida.

*Chase, K., D. Blewett, P. Stevens, C. Saari, Q. Tuckett, J. Hill. Shifting Baselines: Effects of seagrass loss on fish communities in Southwest Florida tidal creeks.

*Chery, J., O. Betiku. Responses of Microbial Communities to heavy Metal Contaminations in Lake Talquin.

Croteau, A., M. Rothfus. Filling the Gaps – Monitoring Water Quality and Zooplankton Assemblages in Perdido Bay.

Cruz, J., C. Myles-McBurney. Population trend assessment and population genetics of Saltmarsh Topminnows (Fundulus jenkinsi) in Florida.

*Doyscher, K., D. Murie. Philometrid Nematodes in the Gonads of Gray Snapper in Offshore Spawning Aggregations off the West Coast of Florida.

Dunn, K., J. Moran, J. Saxton, T. Lange, K. Bonvechio. Quantifying and Identifying Factors Influencing Length Changes in Popular Freshwater Fishes Preserved in Ice.

Durland Donahou, A., G. Langford. Does mobility matter? Differential survival of two ray species in Tampa Bay during a red tide event.

*Eggenberger, C., J. Rehage, R. Santos, R. James, C. Madden. Movement strategy comparison of Common Snook and sub-adult Atlantic Tarpon in two estuaries of varying environmental predictability within Everglades National Park.

Ellis, K., B. Thompson, A. Marbury. Using game cameras to evaluate restoration success and estimate angler effort on Lake Apopka.

*Farrell, E., R. Paperno, M. Gaither. Environmental DNA Analysis of Forage Fish Diversity and Distribution in the Indian River Lagoon.

Froeschke, B. Measuring fish movement in Everglades National Park using Floy Tags.

Ghegan, D., E. Willse, J. Gelsleichter, A. Hiron, D. Kerstetter. Mercury Accumulation and Trophic Position of a Dominant Mesopredatory Fish Family (Alepisauridae) and Prey in the Pelagic U.S. South Atlantic Bight.

Gray, K., J. Carroll, K. Mesner. Using Annuli Deposition to Evaluate Effects of Hatchery Induced Spawning of Red Drum *Sciaenops ocellatus*.

Harrison, S., J. Holder, K. Bonvechio, E. Lundy. Assessing anthropogenic impacts on submerged aquatic vegetation (SAV) in central Florida springs.

*Hessel, M., A. Hodges, S. Stewart, B. Froeschke. Trophic interactions of important recreational fisheries in Tampa Bay, Florida.

Humphries, G., B. Warland. Oh, the places they'll go! Seasonal movements of juvenile Gulf Sturgeon in Pensacola Bay watershed.

*Hymel, C., E. Sapp, E. Johnson, K. Smith. Bycatch analysis in a 20+ year study on American eel (*Anguilla rostrata*) recruitment into the Guana River system and its implications for a commercially valuable fishery.

*Kendall, B., Q. Tuckett. Propeller scarring hot spot analysis and behavior change/social marketing campaign for Tampa Bay.

*Lacy, B., C. Murray, A. Ropicki, A. Rhyne, C. Martyniuk, M. DiMaggio. Optimizing commercial culture practices of *Amphiprion ocellaris*: minimizing deformities, improving egg handling, larval rearing practices, and juvenile growout to optimize profitability.

*Markham, O., C. Murray, S. Hutchins, M. DiMaggio. Effects of Algal Manipulations on the Survival, Growth, and Feeding Incidence of Larval *Neocirrhites armatus*.

Murie, D., G. Smith. Fish assemblages on offshore sand shoals and potential impacts due to dredging.

*Murray, C., O. Markham, S. Hutchins, M. DiMaggio. Histological and physiological characterization of the digestive ontogeny of larval clownfish *Amphiprion ocellaris*.

*Nelson, G. Assessing Catch Efficiency of Bottomless Lift Nets on Artificial Oyster Reef Structures.

*Perez, K., G. Klarenberg, S. Baker, N. Morales, N. Dix. Implementation of collaborative open science tools to improve engagement with the ecology of the Guana River Estuary.

*Rayburn, A., D. Kerstetter, C. Blonar. The Parasites of the Unwanted: Endoparasite Fauna of Mesopredatory Teleost Pelagic Longline Bycatch.

Smith, G., I. Todd. Peripheral Oyster Monitoring in Santa Rosa Sound.

Thornbill, K., L. Patterson, S. Geda. Identification of host fish species parasitized by freshwater mussels of Florida.

*Trabelsi, S., J. Rehage, A. Distrubell, N. Castillo. Red Drum Hematological Health Relative to Pharmaceutical Exposure Across Florida Estuaries.

*Wechsler, A., D. Murie. Reproductive Potential of Gray Snapper in Spawning Aggregations off the West Coast of Florida.

*White, M., J. Rehage, R. Santos, R. James, R. Rezek, J. Massie, N. Viadero. When world's collide: consumer nutrient dynamics in the Florida Coastal Everglades.

Withers, M., J. Byrd. Reeling in Anglers: Recruitment and Retention for Fisheries-Based Citizen Science.

*Zimmermann, S., N. Montes, C. Sidman, Z. Siders. Teasing apart the source and composition of reef fish discards in the Gulf of Mexico.

Day-By-Day Agenda – 43rd Annual Meeting, 2023 - Florida Chapter American Fisheries Society**Wednesday, May 10th**

7:00am – 8:10am **Breakfast**
7:00am – 6:00pm **Registration**
8:10am – 8:15am **Welcome and Announcements**

Symposium 1: *Integrating Stakeholders in Fisheries***Moderator: Jeff Hill, UF**

8:15am – Camp, E., B. van Poorten, K. Robinson, H. Harrison, V. Nguyen, C. Crandall, K. Lorenzen, W. Casola, M. Dedual, K. Klizentyte. Integrating Diverse Stakeholder Knowledge in Recreational Fisheries Decision Making.

8:30am – Byrd, J., C. Collier, A. Iberle. FISHstory – Using Citizen Science to Describe Historic Catches in the U.S. South Atlantic.

8:45am – *Coleman, T., M. Vilchez, B. Thompson, A. Carlson. Assessing a newly created fishery using a volunteer angler data program.

9:00am – *Palmer, C., E. Camp. A Synthesis of the Scientific Literature on Positive Density Dependence as a Possible Cause for Oyster Reef Collapse.

9:15am – *Bleau, T., B. Froeschke. An analysis of the feeding ecology of invasives and native species in the Everglades.

9:30am – Break—15 minutes**Symposium 2: 5 min. speed talks****Moderator: Ed Camp, UF**

9:45am – Howard, R., T. Lange, B. Thompson, S. Bisping. Estimating Tournament Release Mortality for Largemouth Bass.

9:50am – Loch, J., G. Cook. Evidence of ontogenetic partitioning of restored coastal habitat by a generalist sportfish.

9:55am – Love, G., E. Camp. Using a spatiotemporal model to create a standardized index of oyster abundance in Apalachicola Bay, FL.

10:00am – Casola, W., D. Saindon Velez, E. Pienaar, E. Camp. Re-crafting oyster management with an understanding of stakeholder's knowledge and preferences.

10:05am – Bisping, S., B. Thompson. Hooked On Apopka: Partnering with a citizens group to combat the Dead Lake Stigma.

10:10am – Dix, N., J. Lee, O. Roorbach, S. Dunnigan. Water Quality in Guana Estuary: From Monitoring to Management.

10:15am – Stachowiak, C., M. Inchausti, D. Nelson, N. Trippel. Movement, distribution, and habitat preferences of Bullseye Snakehead in a quasi-natural system.

10:20am – Hutchinson, B., K. Gestring, S. Stanley. Stomach Content Comparison Between the Recently Discovered Bullseye Snakehead (*Channa marulius*), and Two Top-level Predators, Butterfly Peacock Bass (*Cichla ocellaris*), and Largemouth Bass (*Micropterus salmoides*), in a Natural Lake System in Southeast Florida.

10:25am – Lange, T. Bass Club Tournament Livewell Management: Participants Weigh-In.

10:30am – Break—15 minutes

Symposium 3: Integrating Stakeholders in Fisheries Moderator: Betsy Mansfield, FSU

10:45am – Liao, J., E. Goturk, B. Gibbs, C. Morgan. Acoustic telemetry, respirometry and biomechanics of reveal movement energetics of red drum (*Sciaenops ocellatus*) in Saint Augustine, FL.

11:00am – Stevens, P., C. Saari, D. Blewett, M. Butnting, C. Anderson. Knowledge co-production: Integrating sport fish nursery habitat into land-use management.

11:15am – *Ray, B., C. Murray, O. Markham, C. Ohs, J. Patterson, A. Collins, M. DiMaggio. Calcein marking of Hogfish (*Lachnolaimus maximus*), a potential tool for future stock enhancement.

11:30am – *Searles, A., D. Adams, L. Hall, L. Morris, C. Martin, L. Reynolds. Impacts of Tropical Herbivore Population Expansions on Seagrasses and Associated Fisheries in a Subtropical Lagoon.

11:45pm – *Chong, L., E. Pienaar, R. Ahrens, E. Camp. Recreational Angler Preferences for, and Potential Effort Responses, to Different Red Snapper Management Approaches.

12:00pm – Lunch

Wednesday PM

Symposium 4: Integrating Stakeholders in Fisheries Moderator: Matt Wegner, FWC

1:00pm – Mansfield, E., S. Lester, A. Rassweiler, S. Brooke. Stakeholder Preferences and Perceptions for Oyster Restoration in Apalachicola Bay, Florida.

1:15pm – Casteel, J., J. Moore, B. Pine, T. Coleman. Estimation of Shell Volume Removed From Two Major Oyster Fisheries in Florida.

1:30pm – Beck, S. Engaging stakeholders in the management of the Orange Creek Basin in north central Florida.

1:45pm – Break—15 minutes

Symposium 5: 5 min. speed talks Moderator: Ed Camp, UF

2:00pm – *Castillo, N., J. Rehage, R. Santos, R. James, R. Rezek, D. Cerveny, T. Brodin, J. Fick, A. Adams, R. Boucek. Widespread exposure of pharmaceuticals at concentrations of concern to a subtropical coastal marine fish, bonefish (*Albula vulpes*).

2:05pm – Thompson, B., D. Nelson, M. Stevens. New innovative creel design combined with a high-reward tagging study to estimate Largemouth Bass abundance at Lake Okeechobee.

2:10pm – Lindelién, S. Iconic Trophy Bass- how FWC uses citizen-scientist-data to document, promote, and manage the biggest Largemouth Bass in Florida.

2:15pm – *Perry, D., C. McGowan, E. Camp. Integrating Management Objectives into Stocking Optimization.

2:20pm – Coyle, S., K. Mesner, K. O’Neil, C. Murray, J. Lemus, M. DiMaggio, J. Patterson. A Preliminary Assessment of the Effects of Chronic Low-Level Nitrate-Nitrogen on Reproductive Development and Spawning Performance of Captive Adult Red Drum (*Sciaenops ocellatus*).

2:25pm – Flaherty-Walia, K., M. Beck, M. Schrandt, E. Sherwood. Emerging signs of ecological stress in Tampa Bay reinvigorates partnerships to preserve and restore seagrass habitats in support of healthy nekton communities.

2:30pm – Hunn, D., J. Young, J. Whittington. Examining residency in cobia (*Rachycentron canadum*) on the east coast of Florida using passive acoustic telemetry.

2:35pm – Collins, A., C. Morgan, M. Sipos, A. Zangroniz, M. Ajemian. Unsinkable? Developing optimal release strategies for the Goliath grouper (*Epinephelus itajara*) relevant to recreational fisheries in Florida.

2:40pm – Symposium Discussion

3:30pm Student Subunit Meeting (Nautilus Ballroom)

4:00pm Chapter Business Meeting & Award Presentations (Nautilus Ballroom)

6:00pm Dinner

Day-By-Day Agenda – 43rd Annual Meeting, 2023 - Florida Chapter American Fisheries Society

Thursday, May 11th

7:00am – 8:10am **Breakfast**
 7:00am – 9:00am **Registration**
 8:10am – 8:15am **Welcome and Announcements**

Contributed Papers 3

Moderator: Lisa Chong, UF

8:15am – Williams, K., A. Trotter, P. Stevens, M. Allen. Niche partitioning between endemic and range-expanding fishes in search of winter refuge.

8:30am – Wegener, M., A. Mattair, C. Beech, M. Barret, B. Barthel. Movement and Habitat Use of Alligator Gar in Pensacola Bay.

8:45am – *Everett, K., Q. Tuckett, J. Hill. Evaluation of The Eastern Mosquitofish (*Gambusia holbrooki*) As a Biocontrol of the Tropical Clawed Frog (*Xenopus tropicalis*).

9:00am – *Walsh, L., Q. Tuckett, J. Hill. A behavioral comparison and a review of impacts on two worldwide freshwater fish invaders- *Gambusia holbrooki* and *G. affinis*.

9:15am – *Masterson, L., B. Thompson, A. Carlson. Utilizing radio telemetry to investigate the survival and behavior of Grass Carp stocked in Florida Lakes.

9:30am – *McCain, P., G. Langford, A. Durland Donahou. Movement and habitat use of juvenile Bull Sharks *Carcharhinus leucas* in an estuarine nursery system

9:45am – Asche, F., T. Garlock. A hedonic analysis of ex-vessel spiny lobster prices in Florida.

9:50am – Garlock, T., F. Asche. Economic feasibility of on-growing lobsters in Florida

10:05am – Break—15 minutes

Contributed Papers 4

Moderator: Mack White, FIU

10:20am– *Markham, O., C. Murray, S. Hutchins, M. DiMaggio. Effects of Algal Manipulations on the Survival, Growth, and Feeding Incidence of Larval *Neocirrhites armatus*.

10:35am – *Murray, C., O. Markham, E. Domas, M. DiMaggio. Minimizing the use of *Artemia* during larval production of *Betta splendens*.

10:50am – *Trotter, A., S. Seyoum, J. Anderson, D. Williford, M. Hayes. A novel allopatric lineage within the fat snook species complex of the genus *Centropomus*.

11:05am – *Peake, J., C. Stallings. Using long-term monitoring data to investigate estuarine metacommunities.

11:20am – Break—15 minutes

Contributed Papers 5—5 minute speed talks

Moderator: Diana Perry, UF

11:35am – Warland, B., K. Humphries. Juvenile Gulf Sturgeon (*Acipenser oxyrinchus desotoi*) movements in the Pensacola Bay Watershed.

11:40am – Tuckett, Q., T. Lyons, J. Hill. Risk of invasion for select ornamental tankbuster catfishes.

11:45am – Freedman, J., W. Daniel. Introductions, spread, reproduction, and impacts of tilapia (*Oreochromis* spp.) in Florida.

11:50am – *O’Neil, K., J. Patterson, J. Lemus, S. Lowerre-Barbieri. Developing stereological methods to assess female reproductive condition for red drum (*Sciaenops ocellatus*) hatchery management.

11:55am – Tuten, T., N. Ducharme-Barth, C. Anderson, J. O’Connor, E. Nagid, P. Schueller, M. Allen. Fish removal at Lake Wauberg to evaluate changes in growth of Black Crappie

12:00pm – 1:00pm **Lunch, Closing Remarks, & Awards Presentation**
Jack Dequine Best Student Paper
Best Professional Oral Presentation
Best Poster Presentation – Student & Professional
Power Tie & Lampshade awards

1:00pm – 5:00pm Continuing Education Workshop: “Open Science” with Dr. Marcus Beck (Tampa Bay Estuary Program). Learn how to create reproducible, transparent, and actionable research products! (Nautilus Ballroom).

NATURE CHALLENGE—Entire Meeting!

All meeting attendees have been randomly assigned to teams. Participants can log all species of life observed into the iNaturalist App over the course of the meeting. The team with the most species observed and most participants by the end of the meeting wins! Not sure what species you saw? No problem, iNaturalist offers suggestions once you upload a photo. Priority will be given to Research Grade Observations.

How to Participate:

- 1) Download iNaturalist App and create an account (free)
- 2) Sign up for your Team (assigned at Registration):
 - a. [Clever Clupeids](#)
 - b. [Iconic Ictalurids](#)
 - c. [Practical Paralichthyids](#)
 - d. [Scandalous Scombrids](#)
 - e. [Sentient Centrarchids](#)
- 3) Upload Photos/Observations (all observations made during challenge timeframe are automatically added to your team totals)
- 4) Learn some new species! Improve ecosystem-level knowledge/appreciation!
- 5) Keep tabs on your Team’s Rank on [Nature Challenge Leaderboard](#) Page

Link to full abstracts: <https://units.fisheries.org/fl/chaptermeeting/meetingarchives/abstracts-2023/>