

Southern Division News



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The President's Message

Craig Bonds, SDAFS President

Greetings fellow fisheries professionals. The Southern Division officers have been busy serving you this year. President-Elect Wes Neal, Vice-President Tom Kwak, and I have collectively rotated through various terms of service on the Society's Governing Board and/or Management Committee. These forums are where much of the Society's business and strategic decisions are conducted. It provides platforms for Division leaders to interact with and provide input to Society leadership, from our Division's perspective, on short- and long-term operations.

One of our biggest tasks this year, and carrying forward from recent years, has been a comprehensive review of our Division's procedures manual. This herculean task has been led by our immediate Past-President, Wes Porak. We have made significant progress moving toward completion by the end of

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Photo above: Virginia Tech students measure a Muskellunge during fisheries techniques lab. Photo Corbin Hilling.

AMERICAN
FISHERIES
SOCIETY



Alabama Puerto Rico
Arkansas South Carolina
Florida Tennessee
Georgia Texas
Kentucky Virginia
Louisiana Washington D.C.
Maryland West Indian
Mississippi Islands
North Carolina West Virginia
Oklahoma

Questions/Comments:

Corbin D. Hilling
SDAFS Newsletter Editor
chilling@vt.edu

(President's Message Continued)

this calendar year. Our officer team is committed to seeing this through together.

Considerable time is always spent updating leadership contacts for chapters, as well as technical and standing committees, which are the lifeblood network of the Division's productivity. I had the honor and pleasure of bragging on the activities of our technical committees at the SEAFWA Fisheries Resources Committee meeting, this past October in Mobile, Alabama. Populated largely by state-agency fisheries chiefs, this committee provides an excellent mechanism for communication between the SDAFS and SEAFWA, especially regarding the work being done and planned by state-agency representatives on our various technical committees. This two-way information transfer is always valuable. I was also afforded the opportunity at the SEAFWA awards ceremony to announce the slate of SDAFS awardees, which are recognized at our Division's annual business meeting. Having the opportunity to make these announcements also at the SEAFWA banquet raises awareness and appreciation for our members' accomplishments within a much broader professional audience. Many thanks also go to Presi-

dent-Elect Wes Neal for setting up the SDAFS display in the SEAFWA vendor area.

Our veteran and talented Secretary-Treasurer, Kim Bonvechio, led an effort to move a significant amount of our strategic reserve fund into an investment account managed by the Society. We are grateful to the foresight and thoughtful stewardship by current and past Division officers for the availability of a modest balance of funds that can be held in reserve, but also used wisely to generate additional revenue. These funds are liquid enough to provide some operating buffer if necessary, as well as eventually increasing our capacity to put more resources toward serving our members, especially students.

Speaking of students, our Student Representatives to the EXCOM, Kyler Hecke (University of Tennessee) and Lauren Halbert (Tarleton State), with input from Nicole Rankin, Student Affairs Committee Chair, conducted an online survey of student-subunit members to gain their perspectives related to awareness, participation, and preferences of Division meeting offerings, including continuing education workshops and technical committee meetings. Insights gained from this survey will help our Division better engage and serve students for years to come.

We held a successful election this summer and will welcome new additions to the officer team this coming January. Refer to the election results on page 3 for details.

Finally, I've had a close view of the host chapter (Texas) planning team's efforts to facilitate an excellent Division annual meeting at Moody Gardens in Galveston, January 24–27, 2019. Expectations are high, and I know this team will deliver an enjoyable and educational meeting for us. Several of our technical committees are planning special symposia and/or workshops to be held there. I encourage everyone to make plans to attend one of Texas' oldest and storied coastal cities.

Craig Bonds



Southern Division President Craig Bonds presents an impressive Striped Bass during a Texas Parks and Wildlife Department hatchery brood fish collection.

SDAFS News

Election Results

Elections were held this summer for Vice-President, Secretary-Treasurer, and Student Representative. All three newly elected officers have previously held leadership roles in AFS and bring a tremendous amount of enthusiasm to their new roles. These new officers will begin their terms at the Annual Meeting of the Southern Division of the American Fisheries Society in Galveston, Texas.

Vice-President



Cindy A. Williams

Vice-President, Cindy Williams, will serve four years on the Executive Committee starting in January. Cindy has been active on and has chaired several AFS society com-

mittees for numerous years, and has been involved at all levels of AFS. She is a member of the Georgia and Tennessee Chapters. Cindy's goals include expanding the membership's diversity, incorporating Human Dimensions methods to improve the communication of science; and promoting increased involvement of federal and state agency members in Society interactions, policy development, and implementation.

Secretary-Treasurer

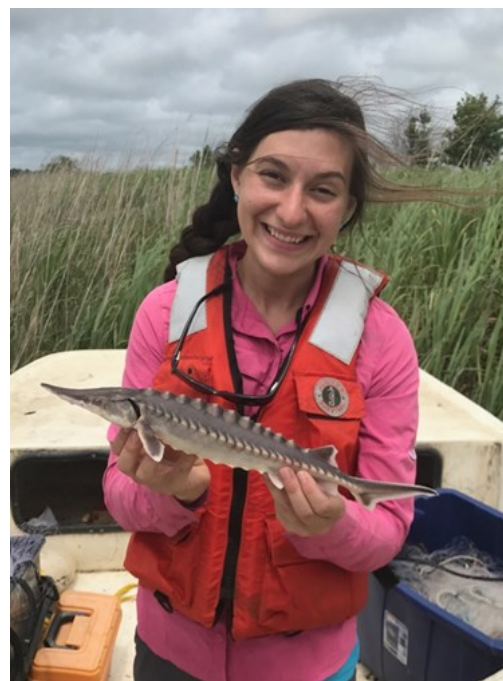


Jessica Baumann

Jessica Baumann, will serve as Secretary-Treasurer for the next two years. She has been active at multiple levels of AFS. Jessica has been Podcasting Coordinator for our division since 2013; a role that requires leadership and collaboration with numerous AFS members. Jessica has been an active member of the North Carolina Chapter for more than a decade, where she served as Co-Chair of the Education and Out-

reach Committee, organized annual continuing education workshops, and initiated podcasting at annual chapter meetings.

Student Representative



Sarah Walsh

Sarah Walsh will serve for one year as the Student Representative starting in January. She was Auburn's AFS Student Subunit President last year, and has delivered presentations about her graduate research at Chapter and Division meetings the past two years. Sarah wants to foster collaborations between student members and the division's EXCOM, and contribute to an informed student sector of AFS.



Annual Meeting of the Southern Division American Fisheries Society

January 24th – 27th, 2019 - Galveston Island, Texas

Registration and Abstract Submission are now open!!!

Symposia Line-up

**Alligator Gar – Striped Bass – Small Impoundment Management – American Eel – New Supervisory Managers – Aquatic Vegetation Management – Urban Fisheries – Reservoir Habitat Enhancement
Recovering America's Wildlife Act – Charismatic Megafauna – Best Student Presentations**

Workshop Line-up

**Alligator Gar Research Techniques – Fish Kill Investigations – Reservoir Habitat BMPs – Fish Age Estimation
BioBase Habitat Mapping – AFS Leadership at All Levels – Outdoor Photography – Public Engagement
Techniques – Acoustic Telemetry - Getting Hired – Effective Peer Review – Social and Traditional Media
Tactics – Uncomfortable Conversations**

Register and submit your abstracts online at:

<https://units.fisheries.org/tx/tc-meetings/2019-meeting-home-page/>

Southern Division Dune Restoration in Puerto Rico a Lasting Success

On March 8 at the 2018 Southern Division AFS Annual Meeting in San Juan, Puerto Rico, 80 SDAFS members and the AFS Governing Board joined two local nonprofit organizations in a service event to restore beach dune communities following the impact of Hurricanes Irma and Maria. We cleaned the beach of trash, removed sand deposited on an adjacent street by storm surge, and planted 200 coastal plants of two species — Sea Grape and Icaco (or Paradise Plum) — to promote dune formation on an urban beach in the Ocean Park neighborhood of San Juan.



The Sea Grape and Icaco plantings from our dune restoration event have filled in to form dense vegetation to stabilize the beach dune. Note the survey flags that mark some of the planting locations. Photo Tom Kwak.



Southern Division members (L-R) Bonnie Myers, Gus Engman, and Bobby Cope revisited Ocean Beach in July and are at a Leatherback Sea Turtle nesting site adjacent to the dune restored in a service event last March at the 2018 SDAFS Annual Meeting in San Juan, Puerto Rico. Photo Tom Kwak.

We revisited the restoration site this summer on July 1 to assess if the restoration was successful. We were thrilled to find the dune plants flourishing and spreading, the dunes stable and expanding, and we even found Leatherback Sea Turtle nesting sites adjacent to the dune that were protected by Grupo 7 Quillas, a local sea turtle conservation group. *Congratulations to the SDAFS and the Puerto Rico Chapter for a successful and lasting service conservation project!*

Tom Kwak, SDAFS Vice-President

Gus Engman, Puerto Rico AFS Chapter President

The SDAFS Warmwater Streams Committee drafted a resolution which was revised by the Resolutions Committee. Comments on this resolution should be sent to Dennis Riecke (Dennis.Riecke@wfp.ms.gov) prior to January 1, 2019.

American Fisheries Society-Southern Division

RESOLUTION ON THE INCLUSION OF HYDROLOGIC ALTERATION AS AN IMPAIRMENT IN STATE WATER QUALITY STANDARDS

Whereas, aquatic resources are facing ever-increasing threats, including urbanization, changing and warming climate, population growth, and increased water demand, perhaps the most detrimental of these threats is insufficient water in lakes and reservoirs and insufficient flow in streams and rivers;

Whereas, the Southern Division, American Fisheries Society (SDAFS) and the American Fisheries Society (AFS) adopted resolutions on the development of instream flow programs in 2007, and 2008, respectively (SDAFS 2007, AFS 2008);

Whereas, state water quality standards are important criteria that are used to stipulate water quality parameters that protect the designated use classifications, including that of providing for fishable and swimmable waters;

Whereas, historically state water quality standards have focused on water quality (e.g. dissolved oxygen and temperature) and pollutants by specifying criteria water chemistry parameters and maximum pollutant levels in either quantitative (numeric) or qualitative (narrative) terms;

Whereas, we recognize and acknowledge the importance of setting concentration limits of such constituents in our waters, scientific research has documented that water quality standards that lack incorporation of environmental or natural flows and sufficient water levels result in inadequate and incomplete standards. These standards merely provide for an impaired or an unattained beneficial use criteria for fish and wildlife populations (see Annear et al. 2004). Such state water quality standards are inadequate for providing and protecting the amounts and quality of lotic and lentic habitat needed for sustaining healthy, functioning, resilient, and viable, aquatic ecosystems. Such deficient standards compromise and violate the intents and purposes of establishing such standards;

Whereas, some states utilize a drought flow statistic, such as the 7Q10, to provide minimum flows in their water quality standards, there is no direct relationship between 7Q10 and aquatic life protection (Camp Dresser & McKee 1986). The main purpose of these design flows is to determine pollutant discharge values or limits rather than to support the flow requirements of aquatic ecosystems (USEPA 1991);

Whereas, the AFS adopted Policy Statement #9 – Effects of Altered Stream Flows on Fisheries Resources which states “The concept of ‘minimum flows’ and other low flow standards based on statistical records instead of biology (whereby it is assumed that needs of stream fishes can be met as long as some water remains) are seriously outdated”;

(SDAFS Resolution Continued)

Whereas, literature reviews summarizing the biological responses to altered flows (Bunn and Arthington 2002; Petts 2009; Poff and Zimmerman 2010; Carlisle et al. 2011) show among other responses, overall reduction in the abundance and diversity of fish and macroinvertebrates, excessive growth of aquatic vegetation, reduced growth of riparian vegetation, and shifts in aquatic and riparian species composition;

Whereas, a meta-analysis of research in the South Atlantic United States (McManamay et al. 2013) showed that fish, macroinvertebrates, and riparian vegetation often responded negatively to induced flow alterations;

Whereas, flow alteration can be a primary contributor to the impairment of water bodies that are designed to support aquatic life (Novak et al. 2016);

Whereas, the US Environmental Protection Agency (USEPA) and the US Geological Survey (USGS) have described the effects of flow alteration on designated uses in streams and rivers; provided examples of states (Kentucky, Missouri, New Hampshire, New York, Rhode Island, Tennessee, Vermont, and Virginia) and Indian tribes (Bad River Band of the Lake Superior Tribe of Chippewa Indians and Seminole Tribe) that have narrative flow criteria in their water quality standards; and provided a nonprescriptive framework that can be used to quantify flow targets to protect aquatic life from the effects associated with hydrologic alteration (Novak et al. 2016). Missouri's water quality criteria states "Waters shall be free from physical, chemical, or hydrologic changes that would impair the natural biological community". New York's water quality criteria states "There shall be no alteration to flow that will impair the waters for their best usages". Virginia's water quality criteria states "Man-made alterations in stream flow shall not contravene designated uses including protection of the propagation and growth of aquatic life";

Whereas, the USEPA has provided guidance (Best-Wong 2015) to the states when waters are impaired due to "pollution not caused by a pollutant" (i.e. Category 4C), such as hydrologic alteration caused by, for example, water diversions, impoundments, and extreme high flows leading to loss of habitat, or impacts from such to designated uses but no narrative or numeric water quality criteria can be assessed. The USEPA states that "data and/or information documenting significant hydrologic or habitat alteration could be used to make a use attainment decision for an impairment due to pollution not caused by a pollutant and should be collected, evaluated, and reported as appropriate":

Therefore, Be It Resolved, that the members of the Southern Division of the American Fisheries Society assembled here on the 25th day of January 2019, in Galveston, Texas at their annual business meeting do hereby:

Strongly urge that state fish and wildlife agencies, federal agencies and tribal agencies recommend that state environmental quality agencies incorporate either numeric or narrative flow criteria in all future revisions of their state water quality standards as required under the Clean Water Act section 303(c) to protect aquatic ecosystems from the effects of hydrologic alteration; and

Strongly urge that state fish and wildlife agencies, federal agencies and tribal agencies recommend that state environmental quality agencies follow and use the guidance provided by the USEPA to incorporate either numeric or narrative flow criteria into their state water quality standards as soon as possible.

Chapter Updates

Georgia Chapter

The 2019 GA-AFS meeting will be held at Lake Blackshear Resort in Cordele, GA from February 5th through 7th.

We had two very successful training workshops at the GoFish Georgia center this summer. The FAMS workshop was taught by Steve Sammons and has since sparked an interest in the attendees to continue on with at least one additional workshop where past participants would bring their own data for analysis. The fish ageing workshop, now in its second year, was also well attended. We are extremely thankful to the instructors (Tim Bonvechio, Donna McDowell, and Peter Sakaris) for donating their time again this year.

The GA-AFS website has been given a facelift! Check it out at www.gaafs.org



Dr. Peter Sakaris demonstrates how to remove otoliths from a Flathead Catfish during the Georgia Chapter's fish ageing workshop.

Mississippi Chapter

Tom Holman Honored

MSAFS member Tom Holman was named Fisheries Biologist of the Year by the Southeastern Association of Fish and Wildlife Agencies (SEAFWA). Tom is the Fisheries Bureau's Sport Fish Restoration Program Coordinator at the Mississippi Department of Wildlife, Fisheries and Parks. Congratulations Tom!



SEAFWA Fisheries Biologist of the Year Award recipient Tom Holman (*left*) poses for a photo with Mississippi Department of Wildlife, Fisheries and Parks Fisheries Bureau Director Larry Pugh (*right*).

Student Research Scholarship

The Mississippi Chapter has created a MSAFS Student Research Scholarship award to provide financial assistance to an undergraduate/graduate student in the state of Mississippi who is conducting fisheries research. The goal of the scholarship is to aid

(Mississippi Chapter Update Continued)

students in conducting essential fisheries research in our state and to encourage and facilitate involvement with our Chapter. Winners of the award will be required to present the results of their study during an annual MSAFS meeting. The scholarship application process will be held in the fall of each year. We are currently reviewing our first round of applicants. Winners of the award for this inaugural year will be announced by the end of November.

Travel Award

MSAFS will be offering travel awards to be used for attending the SDAFS meeting in Galveston, TX in January 2019 to promote participation with our region. The travel awards will be open to students and professionals from Mississippi Chapter who need assistance to attend the meeting. The application process will be announced soon!

Potomac Chapter

Potomac Chapter Awards 2018 Student Travel Award

Vaskar Nepal, a doctoral student at the Virginia Institute of Marine Science in Gloucester Point, VA, was selected to receive the 2018 Student Travel Award from the AFS Potomac Chapter. The award provided financial assistance for Vaskar's travel to the Annual AFS Meeting in Atlantic City, NJ. At the meeting, Vaskar presented part of his research on invasion biology of blue catfish in the Chesapeake Bay region. Specifically, he presented the results of a laboratory experiment assessing the effects of reduced ration size on growth rate, condition, and metabolic rates of blue catfish, and suggested that owing to the low metabolic demands of the fish, this species may be able to survive in and exploit oligotrophic habitats throughout the Chesapeake Bay region. At the meeting, Vaskar attended the AFS Estuaries and Marine Section business meetings, and met with Potomac Chapter President Julie Defilippi Simpson and Chapter Treasurer Lee Benaka. Vaskar currently serves as the newsletter editor for the

Potomac Chapter.

Potomac Chapter hosts another successful crab feast

On Saturday, October 27, the AFS Potomac Chapter, in conjunction with the Capitol District of the American Institute of Fishery Research Biologists, hosted its annual crab feast on the grounds of AFS headquarters in Bethesda, MD. Over 20 crab-lovers braved cool temperatures to enjoy food and fellowship during the three-plus hour event. The crab feast raised \$230 for student travel awards to AFS annual meetings.



Potomac Chapter Treasurer Lee Benaka presents VIMS Ph.D Student Vaskar Nepal with the 2018 Potomac Chapter Student Travel Award.



Members of the Potomac Chapter enjoy the 2018 Crab Feast at American Fishery Society headquarters in Bethesda, Maryland.

Virginia Tech Chapter

The Virginia Tech Chapter has gotten off to a busy start this academic year following a productive summer. Members of the Chapter participated in outreach activities, hosted guest speakers and workshops, and are excited to see what the rest of the year holds.

Over the summer, the Virginia Tech Chapter hosted the University of Tennessee-Knoxville Student Subunit for a weekend of camping and fishing on the New River near Blacksburg. Although participation was lower than expected, those in attendance had an excellent time. The first afternoon and evening, VT and UTK AFS members enjoyed fish tacos from Blacksburg's Cabo Fish Taco and toured the Virginia Tech campus. The following morning, AFS members floated 8 miles of the New River from Eggleston, VA to Ripplemead, VA, followed by a shorter fishing expedition on Sunday. All in attendance caught fish, including Smallmouth Bass, Rock Bass and Redbreast Sunfish. We hope to continue this event and include additional subunits to help expand students' networks.

Public outreach remains an important aspect of the Chapter's activities. Chapter members led an aquatic ecology lesson in cooperation with the Mayapple School, a preschool near Blacksburg. Chapter members taught children about the aquatic life of small headwater streams. The children were able to wade in a shallow pool and enjoy the water, as well as aquatic life of the stream. Further, students were engaged in College of Natural Resources and Environment events, including the Black College Institute's visit, where we provided a hands-on fish demonstration and outlined opportunities in fish and wildlife sciences. Chapter members also participated in the Virginia Soil and Water Conservation Districts' Youth Conservation Camp. Members discussed "Fisheries Management in the New River Valley" and shared some live local fishes. Several students were extremely enthusiastic about the aquatics work being conducted in the New River Valley and expressed interest in entering the field of fisheries science.

South Carolina Chapter

During the 21st joint annual meeting of the South Carolina Chapter of the American Fisheries Society (SCAFS) and the South Carolina Fisheries Workers Association (SCFWA) in March 2018, a merger between SCAFS and SCFWA was approved. The goal was to create a stronger, unified SC chapter of the American Fisheries Society by combining the resources of both groups. To preserve the significant history of SCFWA, the best student oral presentation award will be named for SCFWA, as it previously sponsored the student award. Additionally, the 2019 SCAFS meeting has been scheduled for February 20-22 in Clemson, SC.

(Virginia Tech Chapter Update Continued)



University of Tennessee-Knoxville AFS Graduate Student Representative and Southern Division AFS Student Representative Kyler Hecke with a New River Smallmouth Bass during the UTK-Virginia Tech AFS Float Trip in June 2018.

ery to create triploid trout. Dr. Andrew presented his work on Brook Trout ecology related to population responses to disturbances. Both speakers provided great presentations and we thank them for their time.

The Virginia Tech Chapter Education Committee recently hosted a workshop titled *Introduction to R for Fisheries Science*. Virginia Tech Ph.D student Corbin Hilling led the workshop that included ten student and professional participants. The workshop provided a primer on using R for statistical analysis, graphing data and dataset management. Attendees found the workshop helpful in introducing the program and look forward to learning more about R and how it can be applied to their studies and future careers.

The Virginia Tech Chapter is coordinating with the Virginia and West Virginia Chapters to plan a joint meeting in the spring of 2019 in Blacksburg. The meeting will be an excellent opportunity to share research and network.

Student Subunit Updates Clemson University

This fall semester has been packed full of guest speakers, trips, and outreach events for the Clemson student subunit. Guest speakers included Steven Patrick from University of Georgia Extension who spoke to us about Georgia extension's role in fisheries in the up-state particularly with the Shoal Bass, Dr. Mark Scott of the South Carolina Department of Natural Resources (SCDNR) who spoke to us about working in fisheries within a state agency as well as sharing some of their more recent projects with the society, and Duke Energy representatives Dr. Ryan Heise, Matt McKinney, and Nick Wahl who spoke about fisheries research in the private sector. We have had the opportunity to volunteer with some of our speakers in the field, including hook and line sampling the Upper Chattahoochee as part of a mark-recapture study on the Shoal Bass with Georgia Extension, and boat-electrofishing sampling Lake Keowee with the Duke Energy fisheries crew.

Thus far this semester, the Virginia Tech Chapter has hosted two Hokie alumni as guest speakers: Greyson Wootten (Virginia Department of Game and Inland Fisheries, Paint Bank Trout Hatchery) and Dr. Ross Andrew (West Virginia University). Mr. Wootten provided an insightful presentation on the process of rearing trout for Virginia's stocked trout program. He also detailed some impactful science being done at the hatch-



Virginia Tech and University of Tennessee students took in some excellent scenery during their float down the New River. Photo Corbin Hilling

(Clemson Subunit Update Continued)



Members of the Clemson University AFS subunit on the Atlantic City Boardwalk during the 148th Annual Meeting.

Society members volunteered with the SCDNR to help with National Hunting and Fishing Day where they helped teach kids how to identify a variety of species of trees and fish. We held our annual Shock and Grill again this fall, where we taught local high school students sampling methods for identifying and collecting fish (electrofishing, seining) and macroinvertebrates. At this event we also grill hotdogs and eat lunch with high school students, at which time we are able to answer questions about pursuing careers in fisheries. The subunit's annual Fall Fish Fry Fundraiser was also a great success this year, and will allow us to continue to fund trips and events for our students.

Our subunit had great representation at several AFS Meetings this fall. Six of our undergraduates travelled to Atlantic City for the 2018 national meeting to present posters of their undergraduate research. Five of our graduate students also attended and three had oral presentations. 9 of our students attended the Southeastern Fishes Council meeting in McCormick, SC, and many of our students helped with coordination of the meeting because of its proximity to Clemson. 4 of our graduate students presented oral talks at this event, and our very own Sam Silknetter won best

student presentation out of over 20 student talks!

Currently many of our undergraduate members are working diligently on research with graduate students, as we prepare for the Southern Division meeting coming up in January in Galveston, TX with new posters and presentations. Our chapter is also hard at work gearing up to host the South Carolina state AFS meeting in Clemson, SC in February 2019. It has been a very busy semester so far, but we are excited about the spring semester and all that we have planned!

East Carolina University

The East Carolina University Student Subunit of AFS has had another active year. Along with monthly meetings, campus involvement, conference presentations, research and learning opportunity's, the members have had community outreach. Currently there are 15 active members, and a new board of officers were elected in the Fall 2018.

The subunit has had the opportunity to reach out to the undergraduates through ECU's program "What's up Bio?" This program allowed the AFS members to spread the importance and usefulness of becoming part of a research lab. Many scientific tools were dis-



East Carolina student subunit members during the "What's up Bio?" campus involvement event.

(East Carolina Subunit Update Continued)

played including flowmeters, hydrophones, nets, quadrats, sonar transducers, underwater video cameras, water quality instruments, and the R/V Pinfish.



East Carolina AFS members meet up before deploying hydro-acoustic equipment, and angling techniques for Red Drum.

Subunit members have presented both oral and poster presentations at a variety of venues. Chris Moore, Ph.D. student, was the runner up for the student writing award at AFS in Atlantic City. Chris Thaxton, graduate student, received a travel grant from NCAFS to travel to the national AFS meeting. Along with Chris Thaxton, Steve Meyer, graduate student, and advisor Dr. Roger Rulifson, attended the 148th annual AFS meeting in August 2018. Two undergraduate students, Jon Sherman II and Noah Gwynn, along with Dr. Joe Luczkovich, attended the AERS conference at Stockton University in October 2018.

The chapter went on a “Red Drum Fishing Trip” which launched out of Oregon Inlet Fishing Center in September 2018. Along with angling fishing techniques, the group utilized hydro acoustic tools to listen to species around the hydrophone. Students were introduced to the sound frequencies, and different noises

produced by the underwater aquatic world of communication.

Community outreach was directed towards grade school students through a statewide program called “Shad in the classroom.” The objective of this outreach was to inform the younger generation about the biology/ecology of fish. Fish anatomy and physiology were taught to kids through the utilization of fish dissections of several species; including, Hickory and American shad.

The subunit has several upcoming events in the spring to raise money for the chapter, reach out to students on campus, as well as in the community. Currently the plan is to organize a fishing tournament which will raise donations for a charity, hold a raffle to raise money for chapter expenses. The chapter also wants to hold a cookout to celebrate the 20th anniversary of ECU AFS.

Mississippi State University

Updates

Three undergraduate members were recently awarded with either travel or research funds in the inaugural MSU AFS Undergraduate Research/Travel Scholarships, totaling \$600. Bayley Wilmoth, a junior, received \$200 in travel funds to attend an AFS-hosted conference. Tom Miles, a sophomore, and Ethan Woodyard, a senior, each received \$200 in research funds that can be used to aid in any aspect of their research, including travel to attend a conference. This program is an initiative by the present MSU AFS Executive Committee to attract more undergraduates to the Society, engages students in undergraduate research, and create more opportunities for undergraduates to attend research conferences and network with professionals and potential future employers.

(Mississippi State Subunit Update Continued)



Freshman MSU AFS member, Kyle Wetjen, presents an 8 lbs. Largemouth Bass he caught at the AFS Fishing Day/Social.



Mississippi State University alumnus Jason Olive (Assistant Fisheries Chief of Arkansas Game and Fish Commission) speaks with the MSU AFS group about improving their skill sets in preparation for their careers.

Upcoming Events

“Adopt-A-Family” Christmas Event (December) – MSU AFS will provide Christmas presents for a local family that would be unable to afford it otherwise.

Graduate School and Agency Panel Discussion (January) – The MSU AFS will host a panel consisting of faculty, graduate and post-graduate students, and agency professionals to answer questions about what students should expect as they enter graduate school or the workforce. This event will serve all Mississippi State University students.

University of Georgia

The University of Georgia Subunit of the American Fisheries Society is prepared for a successful year. We have worked diligently to improve our Subunit’s annual events and to start some exciting new traditions. We have dedicated ourselves to improving UGA AFS for the long-term, and we are excited to share our current progress with you.

Recent Events

The MSU AFS group hosted an AFS Fishing Day/Social. Subunit members used the day to teach nearly 40 members from the local community how to fish in a local management research pond. Nearly 60 lbs. of juvenile Largemouth Bass were removed from the research pond.

The subunit also hosted a guest speaker. Jason Olive (Assistant Fisheries Chief of Arkansas Game and Fish Commission) spoke with the MSU AFS group about agency interviews and the types of skills that students should develop while pursuing their degree.

(U. of Georgia Subunit Update Continued)

Formalizing the Subunit: We recently voted to create two new working committees: the Fundraising Committee and the Outreach Committee. We hope this new committee structure will increase our efficiency and help us engage more members in a meaningful way.

Membership is High: The Subunit has increased our efforts to recruit new student members this year. We currently have 22 dues-paying members and hope to see that number increase as the year progresses.

AFS Annual Meeting: Five of our student members attended the AFS Annual Meeting in Atlantic City, New Jersey in August. Two of our students gave oral presentations about their graduate research. For three of us, this was our first time at an Annual Meeting.

Fish Fry Fundraiser: Our Fish Fry Fundraiser is our most famous and largest fundraising event of the year, so we strived to improve our guests' experience this year. We started by diversifying the menu, serving hearty meals of fried catfish, grilled Tilapia, french fries, baked beans, cornbread, and salad to our 90 guests. We also introduced a friendly competition dur-



UGA AFS students pose with catfish they've seined from the holding pond in preparation for the Fish Fry.

ing which AFS student members made an eclectic array of desserts for our guests, who then voted on their favorites. We hosted a raffle with 35 items generously donated from local businesses. Profits from this event will help us send our undergraduate members to the Georgia Chapter AFS Meeting at Lake Blackshear Resort this winter.

The Fish Fry presented opportunities for our students to learn how to seine a pond and fillet fish. We also harvested several hundred young-of-year catfish that were spawned this summer for a Fisheries Management class, during which the students learned about tagging fish.

Guest Lecture with Dr. Janet Genz: Dr. Janet Genz presented her lab's work to our members during our October business meeting. Dr. Genz studies Lake Sturgeon physiology and aquaculture at the University of West Georgia. We would like to thank Dr. Genz for her visit!

Chattahoochee Bass Sampling with Georgia Dept. of Natural Resources: We were given the opportunity to sample for Chattahoochee Bass via backpack electrofishing with the Georgia Dept. of Natural Resources in Yahoola Creek near Dahlonega, Georgia. We sent five



UGA students work with Georgia DNR personnel to identify and count the fish they've just collected from Yahoola Creek near Dahlonega, Georgia.

(U. of Georgia Subunit Update Continued)

students to sample over two days, and for some students it was their first introduction to backpack electrofishing. We hope to continue these sampling effort with the Georgia DNR in the spring.

We look forward to another successful year, and we hope to see you at AFS meetings to come.

Sincerely, on behalf of the University of Georgia Subunit of the American Fisheries Society,

Alex Pelletier, President

Shannon Kirk, Vice President

Jeff Cullen, Secretary

Clay Colwell, Treasurer

Cortney Bunch, Member



University of Southern Mississippi student subunit members from the Fall of 2018.

University of Southern Mississippi

Our USM student subunit has remained active on our campus and in our community this year. We currently have 16 members, two of those being undergraduate students from our local USM Long Beach campus.

Several members have attended and presented at local and national meetings. We have had members present at the 2018 Graduate Student Symposium (Dauphin Island, AL), Benthic Ecology Meeting (Corpus Christi, TX), the 148th American Fisheries Society Meeting (Atlantic City, NJ), Gulf States Marine Fisheries Commission Meeting (South Padre Island, Texas), and the Science Center for Marine Fisheries Meeting (Newport, RI). While at the Annual AFS meeting members participated in a workshop called "Crash course in Ageing/Age Validation of Finfish and Shellfish", as well as, networking events for professional development. We also had members attend a template model builder workshop at the University of Washington. We also have several members that will be presenting at upcoming meetings such as 2018 Gulf Estuarine Research Society (Galveston, TX) and Bays, and Bayous

(Mobile, AL) meetings.

Our members have also been very active in our local community. We participated in the 2018 Gorenflo's 32nd Annual Cobia Tournament, where we raffled off a cooler and received a \$1000 donation from Gorenflo's tackle and marina store. We participated in scientific collection of large pelagic sport fish species at the 2018 Mississippi Gulf Coast Billfish Classic. We participated in two of our local Coastal Conservation Association (CCA) kids casting for conservation fishing events. At these events, we were able to assist the local Biloxi Bay and Horn Island chapters with event set up, registration, and break down. We also interacted with the children by helping them set up their fishing rods. At one of the events we were able to set up a frozen fish identification table, where we got to teach the kids about local fish species with actual specimens for them to see. Our group also helped our local CCA chapter with set up at their annual fundraiser and they generously donated \$100 to our group. Our local CCA chapters are very supportive of our student group, so we like to help them where we can and help get our local community excited and interested in fishing and our local fisheries. We also had a member give a talk on their graduate work to the local Historic

(U. of Southern Miss. Subunit Update Continued)



Members of the USM student subunit alongside members of the Biloxi Bay CCA chapter at the 2018 Casting for Conservation kids fishing event.

Committee Updates

Student Affairs Committee

The Student Affairs Committee is looking forward to the upcoming 2019 SDAFS Spring Meeting in Galveston, Texas! Opportunities for students include:

Free Student Room Space Available!

The Southern Division of the American Fisheries Society supports a limited number of complimentary hotel rooms for students attending the 2019 SDAFS Spring Meeting (January 24-27) at the Moody Gardens Hotel and Conference Center on Galveston Island, Texas. Rooms are available for 3 nights (January 24, 25, and 26). These rooms are shared with 3 to 4 students per room. In order to be considered for a free room, students must be a current AFS member and volunteer to assist the Texas Chapter during the 2019 SDAFS Spring Meeting. Students interested in these rooms should make a request using the [SDAFS Student Room Request Questionnaire](#). If you have questions, please contact Nicole Rankin (nicolemrarkin@gmail.com), the Chair of the Student Affairs Committee.

Best Student Presentation and Best Student Poster Awards

The Southern Division of the American Fisheries Society supports awards for Best Student Presentation and Best Student Poster at the annual SDAFS Spring Meeting. Students interested in competing for the Best Student Presentation and the Best Student Poster at the 2019 SDAFS Spring Meeting should indicate so with their abstract submission. Finalists for the Best Student Presentation and Best Student Poster will be selected based on submitted abstracts and notified prior to the meeting. Each selected finalist will be required to give his or her presentation in the Best Student Presentation Symposium on Saturday, January 26, 2019. Submissions for Best Student Poster will be judged during the Poster Session on Friday, January 25, 2019.

Ocean Springs Saltwater Flyfishing (HOSSFLY) club at one of their monthly meetings.

Currently our subunit is preparing for our upcoming annual Jim Franks Merry Fishmas fun run that will be in December. We hope to have an educational outreach table with fisheries related kids activities at the event and plenty of Christmas cheer. This event is our annual fundraiser that helps support our student travel awards that our student subunit gives out and gives us a festive outlet to get our community thinking about our local fisheries. Our student subunit has also been very successful with raising money this semester through our glassware and t-shirt sales, raising \$400. We are now planning for a new t-shirt design for future sales of our student subunit shirts.

We are also planning a boating safety and operations course with our center for fisheries and development for our students to participate in for the next semester. This course will give students who don't get the chance to conduct much small boat field work the opportunity to gain a valuable skill.

We plan on continuing to be active in our local community and within our local MSAFS chapter in the new year.

(Student Affairs Committee Update Continued)

Student Mentor Lunch at SDAFS Spring Meeting

The Southern Division of the American Fisheries Society encourages interaction between students and fisheries professionals through a Student Mentor Lunch. The Student Mentor Lunch at the 2019 SDAFS Spring Meeting will occur at noon on Saturday, January 26, 2019. If you are a student interested in being paired with a mentor (or a professional volunteering to mentor a student) for lunch that day, please indicate your participation by making the appropriate selection on the registration form or make your request using the [Student-Mentor Request Form](#). If you have questions, please contact Nicole Rankin (nicolemrankin@gmail.com), the Chair of the Student Affairs Committee.

Thanks!

Nicole Rankin

SDAFS Student Affairs Committee Chair

Awards

Robert M. Jenkins Memorial Reservoir Research Scholarship

The Reservoir Committee (RC), a technical committee of the Southern Division AFS, created the Robert M. Jenkins Memorial Reservoir Research Scholarship in 1997. The Scholarship is intended to provide financial assistance to graduate students conducting reservoir-related fisheries research in the southeastern United States who show exceptional progress in their research, education, and professional endeavors.

The recipient(s) of the Jenkins Scholarship receive a check and are recognized at the Spring SDAFS business meeting. The award is made directly to the student and not the student's educational institution. It can be used for any aspect of the graduate education including, but not limited to, tuition, textbooks, equipment, travel or living expenses. It is not intended to replace any funding obligated to the student.

Selection criteria are based on research, education, professional and civic activities, among other things. Research and education activities can be associated with any aspect of reservoir ecosystem management. Professional activities in fishery-related student organizations, AFS Chapters, and similar organizations are desirable. Applicable public services include any voluntary activities but those pertaining to conservation and fishing are most desirable. A committee of RC members will review applications and present recommendations to the RC Chair for approval. All application materials must be received by **December 1st each year**. Scholarship information may be found on the SDAFS [Reservoir Technical Committee](#) website, and on the [Students](#) page of the Southern Division website.

2018 Recipients: The Reservoir Technical Committee is proud to recognize Hunter Hatcher and Jeremy Plauger as recipients of the 2018 Robert M. Jenkins Memorial Reservoir Research Scholarship sponsored by [American Aquatics](#), and [Fishiding](#). Hunter's M.S. work at Mississippi State University focused on the effect of supplemental brush piles and agricultural plantings in mudflats on the growth and recruitment of juvenile gamefish in Lake Enid Reservoir, MS. Hunter is now a Fisheries Biologist with the Florida Fish and Wildlife Commission in Tallahassee, FL. Jeremy's M.S. work at Auburn University focused on the economic impact of fishing on Lake Eufaula to surrounding communities in Alabama and Georgia.

Hunter, Jeremy, and the scholarship sponsors were recognized at their local state chapter AFS meetings. Congratulations Hunter and Jeremy!

NC State Fisheries Graduates Honored with College Alumni Awards

Two NC State University fisheries graduates and SDAFS members were honored with NCSU, College of Agriculture and Life Sciences, Outstanding Alumni Awards. Christian Waters (MS 1997, Joe Hightower Advisor) was awarded the 2018 Outstanding Alumni Award, and Steve Midway (MS, 2008, Derek Aday and

(NC State Alumni Awards Continued)



NC State University College Alumni Award recipients and their former advisors. L-R, Tom Kwak (Unit Leader and Professor), Steve Midway (MS 2008, current LSU Assistant Professor), Derek Aday (Applied Ecology Department Head), Christian Waters (MS 1997, Fisheries Chief, NC Wildlife Resources Commission), Joe Hightower (Emeritus Professor). Photo provided by Tom Kwak.

Tom Kwak, Coadvisors) received the 2018 Outstanding Young Alumni Award. Christian pursued a career as a fisheries biologist with the NC Wildlife Resources Commission, and over the years assumed additional responsibilities to become the Chief of the Inland Fisheries Division. Steve continued his education with a doctorate degree from UNC Wilmington (Fred Scharf, Advisor) and is currently an Assistant Professor in the Department of Oceanography and Coastal Sciences at Louisiana State University. Christian and Steve presented a joint Applied Ecology Departmental seminar on September 7 on their professional experiences, and then College alumni, friends, faculty, and staff gathered at the NC State Alumni Center to celebrate these honors. We're proud of the success and impact that our NCSU graduates achieve after fledging. Congratulations to Christian and Steve!

Dr. Kirk Winemiller Recognized for His Achievements by AFS & ESA

Texas A&M Regents Professor Kirk Winemiller was recognized by both the American Fisheries Society and the Ecological Society of America for a total of three honors. At the annual Society meeting in Atlantic City, AFS President Steve L. McMullin recognized Dr. Winemiller with the American Fisheries Society Award of Excellence for his outstanding contributions to fisheries and aquatic biology. In addition, AFS inducted Dr. Winemiller to the 2018 class of American Fishery Society Fellows. The Ecological Society of America also recognized Dr. Winemiller as a 2018 Fellow. We congratulate Dr. Winemiller for receiving these prestigious honors!

For details see: [AFS Awards](#) [ESA Fellowship](#).

Dan Fitzgerald Wins Haldane Prize

The JBS Haldane Early Career Researcher Award is awarded annually to the best paper in the journal *Functional Ecology* from an early career author. The winner of the Haldane Prize receives a monetary award, membership to the British Ecological Society, a year's subscription to *Functional Ecology*, and funds to attend the British Ecology Society Meeting in the United Kingdom to present their work. The winner is selected by the Editors of *Functional Ecology*.

Daniel Fitzgerald, the Director of Watershed Science and Restoration at the Harpeth Conservancy, was recognized as the 2017 Haldane Prize winner for his paper titled *Using trophic structure to reveal patterns of trait-based community assembly across niche dimensions*. Dr. Fitzgerald completed a Bachelor of Science in Environmental Science at Drexel University, before studying the nesting ecology of leatherback sea turtles in Equatorial Guinea. Later, he completed a PhD with Dr. Kirk Winemiller at Texas A&M studying fish community dynamics in the Xingu River in Brazil. Click [here](#) for more information.

Dr. Karl V. Miller Named C.W. Watson Award Winner

University of Georgia Wheatley Distinguished Professor Karl Miller was named the 2018 C.W. Watson Award Winner at the 2018 SEAFWA Meeting in Mobile, Alabama. The C.W. Watson Award is the highest honor bestowed by the Southeastern Association of Fish and Wildlife Agencies. We congratulate Dr. Miller on receiving this honor and thank him for his hard work and dedication to the management of natural resources in southeast.

Click [here](#) for more information.

Tom Holman Named 2018 SEAFWA Fisheries Biologist of the Year

Mississippi Department of Wildlife, Fisheries and Parks fisheries biologist Tom Holman has been recognized as the 2018 Fisheries Biologist of the Year by the Southeastern Association of Fish and Wildlife Agencies. Tom was recognized at the Association's Annual Meeting in Mobile Alabama in October. We thank him for his efforts in management and conservation of the fishes of the southeast and helping provide recreational opportunities for the people of Mississippi.

Click [here](#) for more information.

SEAFWA Award Nominations

If you know someone that has made outstanding contributions to their field, consider nominating them for a Southeastern Association of the Fish and Wildlife Agencies award. Calls for award nominations will be circulated in the coming months.

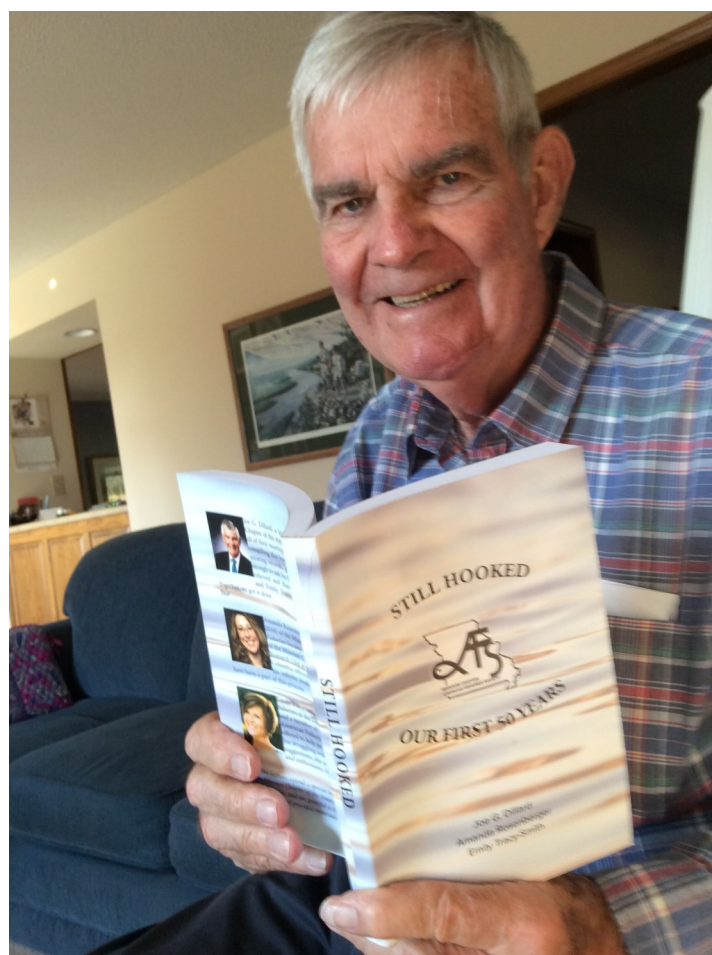
Click [here](#) for details on awards, award eligibility and past winners.

Contributed Articles

The Missouri Chapter has published "Still Hooked-MOAFS-Our First 50 Years"

"The more you know about the past, the better prepared you are for the future." -Teddy Roosevelt

What Teddy said about knowing the past to prepare for the future also applies to MOAFS. In that regard, I am pleased to announce the upcoming publication for release, *Still Hooked: Our First Fifty Years*, a compila



Joe Dillard presents *Still Hooked-MOAFS-Our First 50 Years*, a book detailing the history of the Missouri Chapter of the American Fisheries Society.

(Still Hooked Continued)

tion of the history of the Missouri Chapter of the American Fisheries Society. It is the result of many years of hard labor by our own Joe G. Dillard to compile, organize, and summarize thousands of pages of documents, hundreds of photographs, and his own formidable institutional memory into a single volume. Joe was assisted by History Committee members Amanda Rosenberger and Emily Tracy-Smith. I sincerely hope it can be utilized by current and future members of MOAFS, and other state chapters looking to build upon our legacy, learn from our successes and failures, and examine their own history and evolution.

In *Still Hooked*, you will find records of our beginnings, officers, subunits, awards, and annual meetings. In addition, our major milestones and significant accomplishments are summarized on a year-by-year basis. The book culminates with a summary of our 50th anniversary celebration and a reflection on the future of MOAFS by our own Greg Pitchford, a former president and guest author.

As Sydney Stephens, one of the Missouri Department of Conservation's founding fathers, said, "No organization, whether governmental or public-private, is worth a damn unless it develops a history, a philosophy, and guiding ethics."

I hope by delving into this volume, you will gain insight into all three.

Clint Hale

MOAFS President

2018-2019

For information about the availability of this book, please contact Joe G. Dillard at Dillardj@missouri.edu or 3535 West Arbor Way, Columbia, MO 65203.

ChesapeakeCatfish.com: A Blog on Invasive Catfishes



Launched in 2015, ChesapeakeCatfish.com shares information on catfishes in the Chesapeake Bay watershed. The blog was started to disseminate information on invasive Blue and Flathead Catfish to stakeholders within the region. Following their introduction in the 1960s and 70s, the species generated concerns for native species, such as *Alosa* spp., American Eel, blue crab and sturgeons. Invasive catfishes also support recreational and commercial fisheries, creating a complicated scenario where many stakeholders have conflicting management objectives.

Content of the blog is somewhat variable, but many posts provide brief summaries of primary literature on catfishes in the region. Other posts describe the process of collecting scientific information on catfishes to give stakeholders insight into the daily activities of fisheries scientists. The blog also aims to clarify inaccurate and misinterpreted information related to invasive catfishes.

Most Popular Posts

[How big can North American catfish get?](#)

[How to distinguish male vs female catfish?](#)

[What do Blue Catfish eat in Virginia's tidal rivers?](#)

Questions and comments can be forwarded to Corbin Hilling (chilling@vt.edu).

Meeting Announcements

Gulf Coast American Eel Symposium	Jan. 24-27, 2019
Southern Division American Fisheries Society*	Jan. 24-27, 2019
Georgia Chapter Meeting*	Feb. 5-7, 2019
Mississippi Chapter Meeting	Feb. 20-22, 2019
South Carolina Chapter Meeting*	Feb. 20-22, 2019
Alabama Chapter Meeting	Feb. 21-22, 2019
Catfish Symposium	Feb. 2020

*See details in Chapter Updates or SDAFS announcement on page 4.

Gulf Coast American Eel Symposium

Employees from the Louisiana Department of Wildlife and Fisheries and Texas Department of Parks and Wildlife are co-chairing a symposium for Gulf Coast American Eels at the Southern Division American Fisheries Society Meeting in Galveston, Texas from January 24-27, 2019.

Date to be announced once program is completed

Anyone interested can contact Robby Maxwell (rmaxwell@wlf.la.gov) or Stephen Curtis (Stephen.Curtis@tpwd.texas.gov)

Mississippi Chapter Meeting

The 45th Annual Meeting of the Mississippi Chapter of the American Fisheries Society will be held February 20-22, 2019 in Jackson, Mississippi at the Mississippi Museum of Natural Science. The meeting will include submitted abstract presentations on topics ranging from fresh to salt water on fisheries management, conservation, aquaculture, physiology, control, and much more. A keynote address and banquet will be held Thursday evening. The MSAFS annual business meeting will be held the morning of Friday February 22nd, 2019. Watch our website for updates on registration: <http://mississippiafs.org/> Please feel free to contact MSAFS President Jill Hendon (jill.hendon@usm.edu) with any questions.



Alabama Chapter Meeting

During the past two years, the Alabama Chapter of the American Fisheries Society (ACAFS) has slowly revived itself after a long period of relative inactivity. In 2016, then-President, Steve Rider, worked to co-host a joint Alabama meeting hosted by the Georgia Chapter in Columbus. This meeting was well-attended and helped to breathe new life into our membership. Steve was also instrumental in promoting a successful joint Alabama-Mississippi Chapter meeting with 39 Alabama attendees during 2017. With seed money in hand, the Alabama Chapter decided to go it alone, hosting their first independent state chapter meeting in many years. The 2018 meeting was held at the Little River Canyon Center and National Preserve in Fort Payne with 73 registered attendees, 23 oral presentations and 4 posters.

With that, our newly fledged Alabama Chapter of the American Fisheries Society wants to invite anyone interested in current fisheries and aquatic science work in the Dixie State to attend our 2019 meeting in Spanish Fort, February 21 and 22. For more information, please contact me for more information or placement on our email list at: dave.armstrong@dcnr.alabama.gov or call (251) 626-5153.

Respectfully submitted,

Dave Armstrong, Alabama Chapter President



Workshops

6th East Coast Trout Management and Culture Workshop

Frostburg State University

Frostburg, Maryland

June 10-13, 2019

Sponsored by the AFS Southern Division Trout Committee

Additional meeting info due out late 2018

The U.S. Aquaculture Society is offering 3 Continuing Education workshops at the upcoming Aquaculture 2019 meeting in New Orleans, LA. See links below for more information:

Date: March 7, 2019

Time: 8:30 am - 4:30 pm

Cost: \$300 for non-USAS members, \$150 for USAS members and \$75 for USAS student members.

Commercial Aquaponics Workshop

Global demand for high quality proteins and vegetables has made aquaponics a viable option. With increased interest in these growing methods, it is difficult to find information and courses that are provided by proven commercial instructors. The U.S. Aquaculture Society, Auburn University and commercial producers have teamed up to host a full-day event.

Best Aquaculture Practices (BAP) Workshop



BAP standards are scientific, rigorous, always evolving and encompass the entire aquaculture production chain, including farms, processing plants, hatcheries and feed mills. The U.S. Aquaculture Society has teamed up with experts from GAA and BAP for a full-day workshop of BAP principals and key elements of responsible aquaculture, including environmental responsibility, social responsibility, food safety, animal welfare, traceability and more.

Water Quality Workshop

Regardless of the type of aquaculture system, good water quality is essential for efficient production. The U.S. Aquaculture Society has arranged for Dr. Claude Boyd of Auburn University and Dr. Chris Good of The Conservation Fund's Freshwater Institute to bring you a great workshop on the basics of water chemistry and the practical aspects of pond and RAS water quality.

Registration for the Commercial Aquaponics, BAP, or Water Quality workshops can be completed with registration for Aquaculture 2019 at www.was.org, or by contacting John Cooksey at admin@was.org.



Publications

Check out the exiting work being done by members of the Division!

Hyman, A.A. and S.L. McMullin. 2018. Specialization and Characterization of Stocked-Trout Anglers in Virginia, USA. North American Journal of Fisheries Management. <https://afspubs.onlinelibrary.wiley.com/doi/epdf/10.1002/nafm.10237>

Karp, M. A., R. D. Seitz, and M. C. Fabrizio. 2018. Faunal communities on restored oyster reefs: effects of habitat complexity and environmental conditions. Marine Ecology Progress Series 590: 35-51. <https://doi.org/10.3354/meps12470> (Recognized by the Virginia Institute of Marine Science as the Best MS Student Paper for 2017)

Luellen, D., M. LaGuardia, T. Tuckey, M. C. Fabrizio, Rice, and R. Hale. 2018. Assessment of legacy and emerging contaminants in an introduced catfish and implications for the fishery. Environmental Science and Pollution Research 25: 28355-28366. <https://doi.org/10.1007/s11356-018-2801-9>.

Stone, J. P., D. K. Steinberg, and M. C. Fabrizio. In press. Long-term changes in gelatinous zooplankton in Chesapeake Bay, USA: environmental controls and interspecific interactions. Estuaries and Coasts. <https://doi.org/10.1007/s12237-018-0459-7>.

Schloesser, R. W., and M. C. Fabrizio. In press. Nursery habitat quality assessed by the condition of juvenile fishes: not all estuarine areas are equal. Estuaries and Coasts. <https://doi.org/10.1007/s12237-018-0468-6> . (Open Access)

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