

PROGRAM

SOUTHERN DIVISION OF THE AMERICAN FISHERIES SOCIETY



GALVESTON ISLAND, TEXAS
JANUARY 24-27, 2019

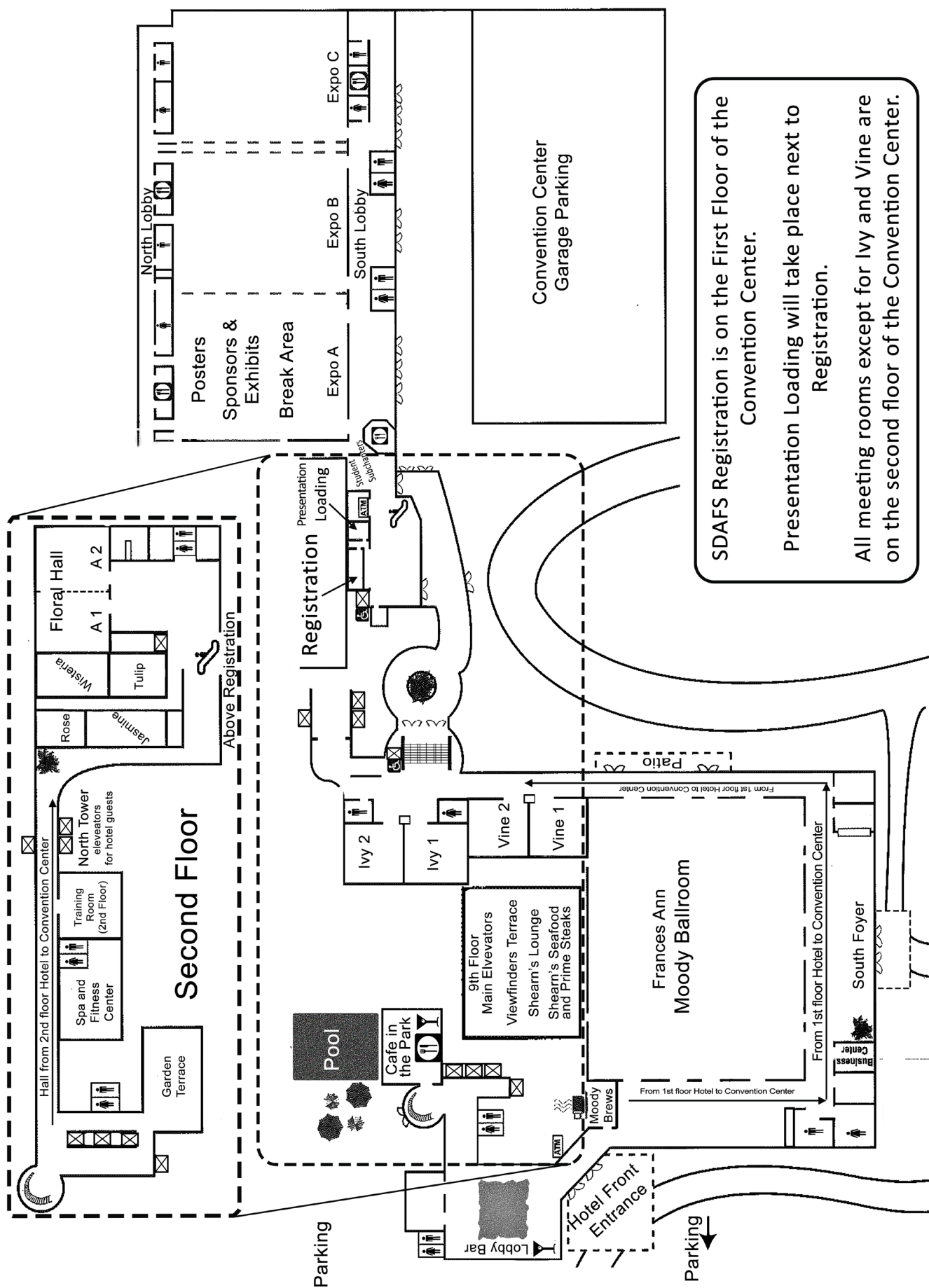
HOSTED BY THE
TEXAS CHAPTER OF THE AMERICAN FISHERIES SOCIETY

AT

MOODY GARDENS



Map of Moody Gardens Hotel and Convention Center



SDAFS Registration is on the First Floor of the Convention Center.

Presentation Loading will take place next to Registration.

All meeting rooms except for Ivy and Vine are on the second floor of the Convention Center.

SDAFS 2019 Annual Meeting Organizing Committee

OVERSIGHT COMMITTEE:

Dan Daugherty, General Meeting Chair
Ken Kurzawski, Scheduling and Logistics

REGISTRATION:

Niki Ragan-Harbison, Chair
Annette Sudyka

PROGRAM COMMITTEE:

Alice Best, Program Chair
Allison Pease, Symposia
Chris Mace, Oral Session
Jake Norman, Poster Session
Lynn Wright, Continuing Education

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Greg Southard, Chair
Niki Ragan-Harbison
Sarah Haas, AV/Webpage
George Guillen, Local Arrangements
Debbie Wade, Publicity and Advertising
Michele Nations, Social Media
Josh Perkin, Student-Mentor Lunch
Jessica Baumann, Camtasia Recording
Nicole Rankin, Best Student Presentation
Judging and Student Volunteer Coordinator
Alice Best, Artist and Graphic Designer

SPONSORSHIP AND FUNDRAISING:

Tom Lang, Chair
Randy Rushin, Tradeshow and Exhibits
Stephen Curtis, Auction and Raffle
Stephanie George, Auction and Raffle
Ben Yeager



2017-2018 Texas Chapter Officer and Committee Chairs



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Newsletter Editor

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Scholarship Committee

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Continuing Education

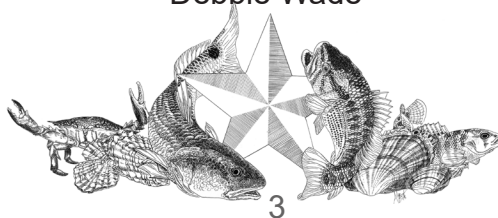
Lynn Wright

Membership

Debbie Wade

Student Activities

Josh Perkin



Welcome!

I would like to extend a warm, Texas welcome to the participants of the 27th Annual Meeting of the Southern Division of the American Fisheries Society (SDAFS) at Moody Gardens in Galveston, January 24-27, 2019. This represents the third opportunity for the Texas Chapter to host this meeting, with the previous two being held in San Antonio. Texas has more culture, history, and cuisine to share with you, and our Texas Chapter planning team has worked diligently with local partners to provide an excellent venue, meeting program, and social activities during your stay.

Galveston, and its namesake island and protected port, offers a rich history, from shipwrecked Spanish explorers (Cabeza de Vaca and crew), to occupying pirates (Jean Lafitte), temporarily serving as the capitol of the Republic of Texas (1836), being bloodied by a Civil War battle (January 1863), witnessing the reading of the Emancipation Proclamation at the Harbor Pier (June 19, 1865; precursor of Juneteenth celebrations), and welcoming multiple waves of European (mostly German and Czech) immigrants. During the 19th century, Galveston's port and financial district were known as the center of trade for Texas and one of the most economically-important port cities on the Gulf coast. In September 1900, the island city was devastated by a hurricane that killed between 6,000 – 8,000 inhabitants, still holding the notorious distinction as the nation's worst natural disaster on record. Following the storm, a seawall was built to protect the city from storm surges and major infrastructure investments were made further inland to convert Buffalo Bayou into the Houston Ship Channel. Galveston is home to six historic districts containing one of the largest and historically significant collections of 19th-century buildings in the U.S., with over 60 structures listed on the National Register of Historic Places, maintained by the National Park Service.

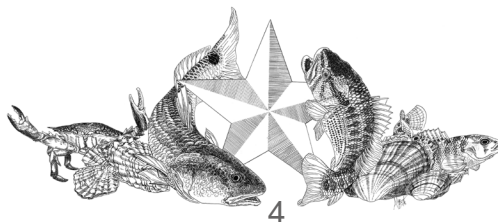


Galveston Bay and associated estuaries offer a diversity of recreational and commercial fish and shellfish industries, even in the face of significant industrial development. The bay complex has experienced numerous ecological restoration projects to make it more resilient to anthropogenic and environmental changes. While you are here, we encourage you to learn more about the area and take advantage of all the opportunities that Galveston and the Moody Gardens facility have to offer, including beaches, restaurants and pubs, museums, aquaria, exhibits, historical architecture, state and city parks, and a host of other activities.

We know that you will have an excellent experience, and if you have any questions, comments, or concerns, please connect with one of the Texas Chapter's Planning Committee members or a SDAFS officer. Thanks, and enjoy your visit!

A handwritten signature in cursive script that reads "Craig Bonds".

Craig Bonds
SDAFS President



Welcome!



Howdy! On behalf of the Texas Chapter, I'd like to welcome you to the 2019 Annual Meeting of the Southern Division of the American Fisheries Society at Moody Gardens Hotel & Resort here in Galveston, TX. Our chapter is honored to host this gathering of fisheries professionals, students, and enthusiasts to network and share the innovative projects and research that have been occurring in fisheries. This meeting would not have been possible without your attendance as well as the generous support of our sponsors, tradeshow exhibitors, presenters, and our volunteers – thank you.

During this year's meeting, numerous committees will be meeting, 13 continuing education workshops will be provided, and 215 presentations and 86 posters will be given among 10 symposia and technical sessions. While we have a busy program for the next four days, the Planning Committee has also integrated opportunities for pleasure and networking with our meeting socials, exhibitor tradeshow, and banquet in conjunction with the other primary aspects of the meeting – we hope you enjoy what has been planned.

During your stay, please be sure to take advantage of the local attractions on-site as well as on the island. If you are an ornithology enthusiast, Galveston offers some of the best birding experiences in the country. Should you have any questions about the meeting, please be sure to visit the registration area for assistance. Again, thank you for joining us this year!

Michael Homer Jr.
Texas Chapter President



A note on safety from our hosts at Moody Gardens

First Aid and Medical Emergencies

In the event of an emergency, call 911 and provide your location. After 911 has been contacted, inform Hotel Security of the emergency. Hotel Security will work with the Mobile Security Officer to direct emergency personnel to the location of the emergency. Hotel Security will respond with a first aid kit and an Automated External Defibrillator (AED). AEDs are located in the Hotel, Convention Center, Aquarium, Visitors Center/Palm Beach, Mobile Security Unit, Colonel Paddlewheeler, and Golf Course.

In the event of a non-emergency injury or incident, inform the Security Department via phone or ask a staff member for assistance.

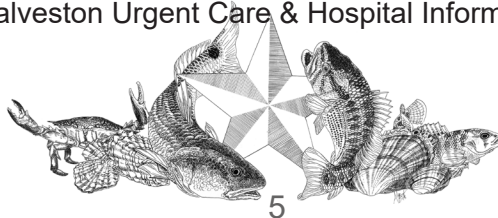
Hotel Security Office
Hotel Operator

(409) 683-4400 or ext. 4400 using an in-house phone
(409) 683-4000 or ext. 0 using an in-house phone

If an emergency requires evacuation the audio system will broadcast a message with instructions. If instructed, please exit the building in an orderly manner through the nearest fire exit. Evacuation Assembly Areas have been established at the Oleander Bowl, Vietnam Memorial Circle, and Central Parking Lot. Please do not reenter the building unless a Hotel Manager or a Security Officer instructs you to do so.

Galveston Urgent Care & Hospital Information

West Isle Urgent Care
2027 61st Street
Galveston, TX 77551
(409) 744-9800



UTMB Emergency Room Galveston
901 Harborside Drive,
Galveston, TX 77555
(409) 772-1191
Open 24 hours/7 days week

Dining

In-house options:

Café in the Park features a wide variety of breakfast, lunch, and dinner options from classic burgers to jumbo gulf shrimp, along with breakfast and lunch buffets during the conference. Open daily from 6:30 am to 10:00 pm.

Lobby Bar provides a great alternative for lunch, dinner, and drinks, with a full-service menu. Open 11 am to 12 pm Thursday, 11 am to 1 am Friday and Saturday.

Shearn's Seafood and Prime Steaks is an upscale, premiere dining destination in Galveston. Open 5:30 to 10 pm. Please note that a dress code does apply (see www.moodygardenshotel.com/shearns).

Moody Brews café features Starbucks beverages and grab-and-go food items. Open daily at 7:00 am.

Expo Hall Concessions will offer a variety of food and beverage options immediately outside of the tradeshow hall. Open daily 7am - 4pm Friday to Saturday.

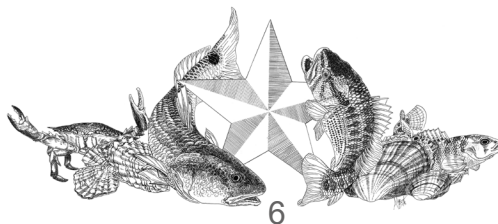
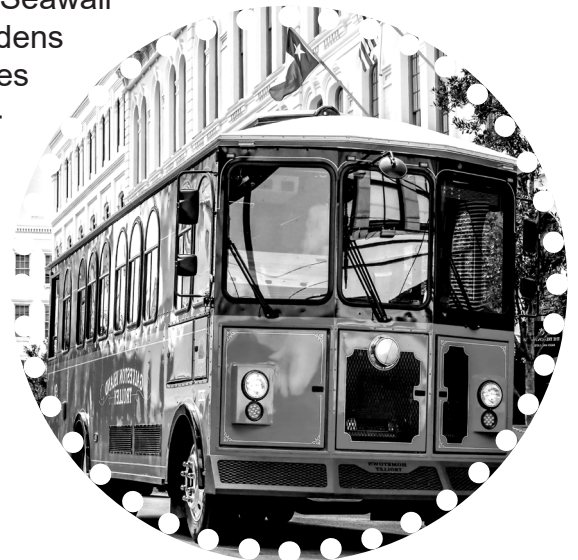
Off-site options:

Galveston Island is home to a wide variety of quality restaurants. Simply use your smartphone to narrow down your choice! Please note that many of these options will require a 10-15 minute drive, so plan accordingly.

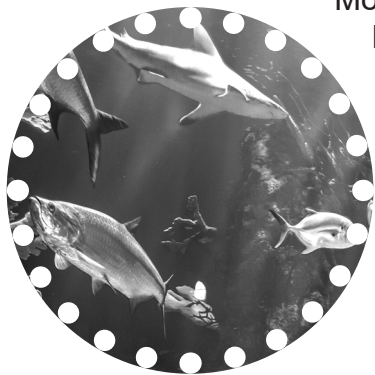
Getting Around

Galveston Island Trolley provides easy transportation around Galveston Island on two loops with transfer available at 21st Street and Seawall Blvd. The Seawall Shuttle loop stops outside the Moody Gardens Hotel every 30 minutes and costs \$1.00. The trolley operates from Monday - Thursday 11:00 m to 7:00 pm and Friday - Sunday 10:00 am to 10:00 pm.

Island Transit operates a bus system on Galveston Island seven days a week; however, hours are limited. Information on routes, times, and fares can be found at <http://www.galvestontx.gov/393/Transportation>.



Local Attractions



Moody Gardens has several great attractions, including the Aquarium Pyramid (which will host the Thursday night Welcome Social), the Rainforest Pyramid with Amazon river fishes exhibit, the Colonel Paddlewheel Boat, as well as a ropes course and zipline for those that need to get up and move! Moody Gardens is also home to a 3D theater with the largest movie screen in Texas, as well as the 4D Special FX Theater. All Moody Gardens attractions are within walking distance of the hotel and the hotel can provide transportation for those with limited mobility. Visit www.moodygardens.com/attractions for more information.

Fishing

January 2019 Fishing Report: Fishing from Galveston stays good most of the year. Wade fishing from the bay-side has been good for Spotted Seatrout and Red Drum. Fishing from the larger jetties on the gulf-side have been yielding bull Red Drum and Sheepshead. Smaller beach-side jetties and fishing piers have been good for a variety of fish species. Almost everything this time of year can be caught on medium-light tackle with live or artificial shrimp under a popping cork.

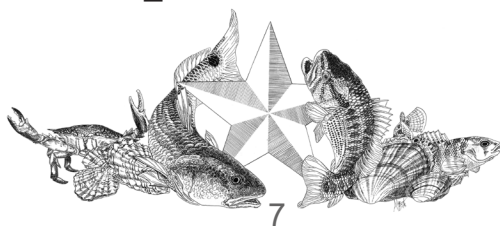
Galveston Island State Park provides bay and beach fishing access. Fishing piers and jetties dot the beach along the seawall and provide angler access to the entire surf line. The Galveston Fishing Pier and the 61st Street Fishing Pier are commercial fishing piers on the gulf that provide bait, tackle, and refreshments. Seawolf Park is a popular



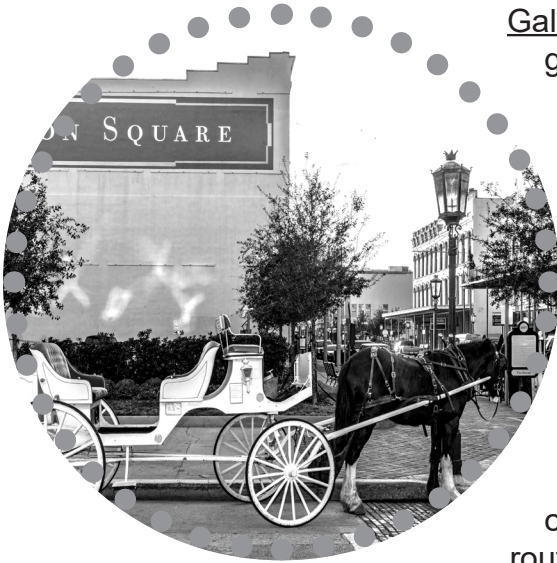
free fishing location at the Mouth of Galveston Bay which is also home to WWII submarine the USS Cavalla and the destroyer escort USS Stewart. Galveston is also home to many private charter fishing boats and party boats, see <https://www.galveston.com/fishingcharters/>.



A Texas Fishing License is required to fish from shore or boat in Galveston (except in Galveston Island State Park). Licenses can be purchased on the island at Academy or Walmart, or online at: https://tpwd.texas.gov/business/licenses/online_sales/.



Local Attractions



Galveston Island State Park (<https://tpwd.texas.gov/state-parks/galveston-island>): spans the breadth of Galveston Island from bay to beach. Head down to the park to see what the undeveloped coastline of Texas looks like, enjoy some of the best birding on the island, walk on a quiet beach, or catch a local redfish! Texas Fishing Licenses are not required if you are fishing within State Park boundaries.

The Seawall and the Great Storm: In 1900 the Island of Galveston was devastated by the Great Storm, a hurricane which remains the deadliest in U.S. history. In response, the Galveston community raised the island and built a seawall to protect itself from future storms. Now the seawall provides excellent views of the gulf, access to beaches, and a popular walking and jogging route. Renting a bike or pedal-powered surrey to cruise along the top of the seawall is a tradition among many Texans visiting Galveston.

Multiple rental companies can be found on Seawall Blvd. To learn more about the Great Storm of 1900, visit the Pier 21 Theater for the daily showing of *The Great Storm* or visit the Rosenberg Library's exhibit on the storm.

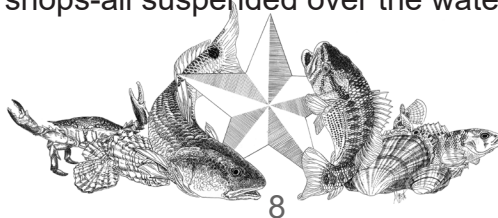
The Strand Historic District (www.downtowngalveston.org): Strand Street was once the center of commerce in Galveston and is now home to shops, galleries, and restaurants, all housed in historic buildings.

Texas Seaport Museum and the Elissa (<https://www.galveston.com/texasseaportmuseum/>): The Texas Seaport Museum tells of the rich legacy of seaborne commerce and immigration in Galveston, once known as the "Wall Street of the Southwest" for its roll in trade, and "The Ellis Island of the West" for the 133,000 immigrants that came through the port to settle Texas and the American West. The Seaport Museum is also home to the celebrated tallship Elissa a fully restored barque from 1877, which is open to visitors daily.



The Bryan Museum (<https://www.thebryanmuseum.org/>): The Bryan Museum, located in the historic Galveston Orphans Home, houses The Bryan Collection which is one of the world's largest collections of historical artifacts, documents, and artwork relating to Texas and the American West.

Galveston Island Historic Pleasure Pier (www.pleasurepier.com): More than 40 years after the original Pleasure Pier was destroyed by Hurricane Carla, the new Pleasure Pier is a world-class amusement park for all ages. The Pleasure Pier features family-oriented attractions including rides, midway games, a wide selection of food venues, and retail shops-all suspended over the waters of the Gulf of Mexico.



EXHIBITORS, POSTERS, TCAFS AUCTION, AND BREAKS

This year we've combined our exhibitors, posters, TCAFS fundraising auction preview, and breaks in one place!

Check out Exhibit Hall A to relax and converse in the soft chair lounge seating areas, enjoy each session's break refreshments, and recharge your phone, laptop, or iPad at one of the charging stations.

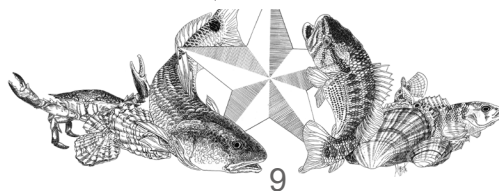
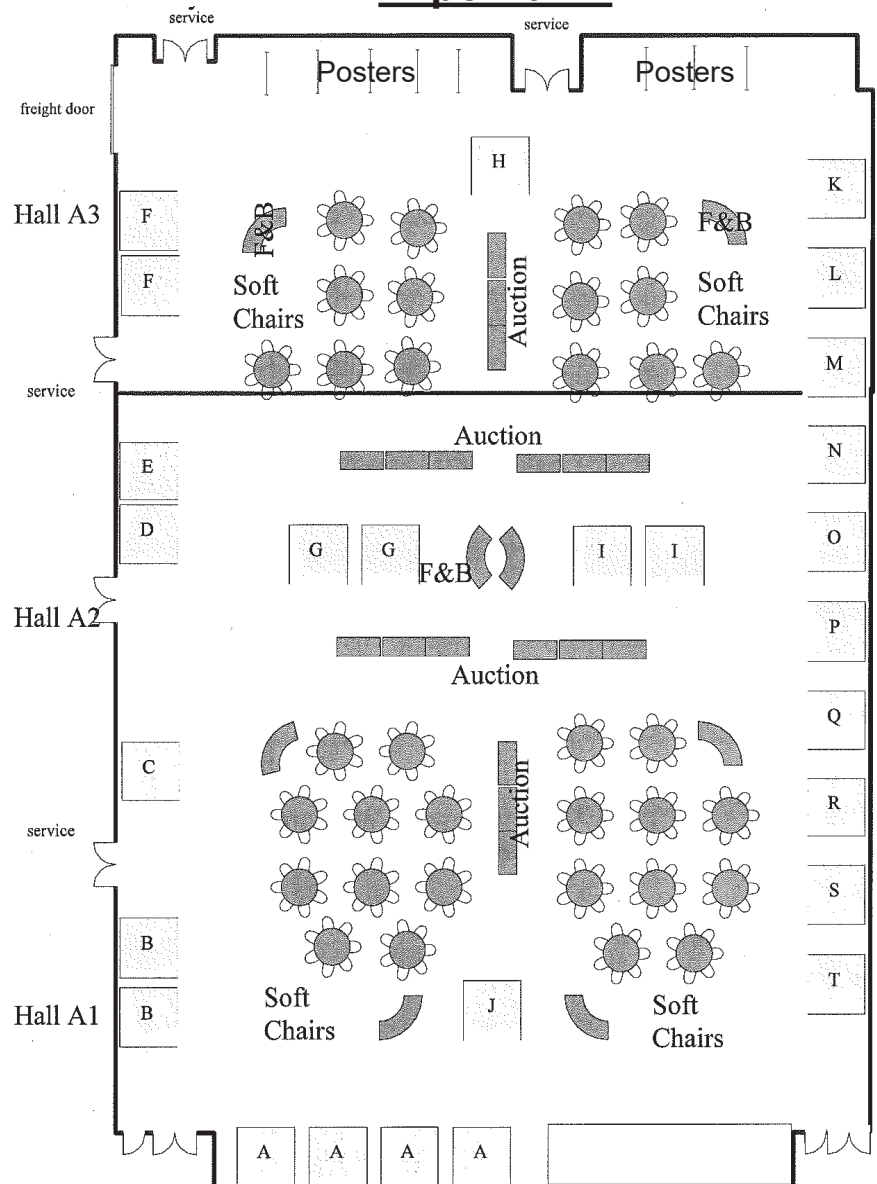
Don't miss the awesome auction item preview tables to support TCAFS! Our live auction and raffle supports the TCAFS Scholarship Endowment and will take place Saturday night after the banquet.

Thank you to Tim Dietz with Get A Bid Auctions for hosting our Live Auction! For more info go to:
www.getabidauctions.com - TDLR 17887

Exhibitors

- A. Mossback Fish Attractor
- B. Miller Net Company
- C. Smith-Root
- D. BioSonics Inc.
- E. Water Monitoring Solutions
- F. Pond King
- G. Fishiding
- H. Texas Alliance for America's Fish and Wildlife
- I. Hydro Glow
- I. Pond Boss
- J. Reservoir Fish Habitat Partnership (Donated by Bass Pro Shops)
- K. American Fish Tree
- L. Vemco
- M. Lochow Ranch Pond & Lake Management
- N. Sonotronics
- O. USFS/USFWS
- P. Leaky Canoe Art Studio
- Q. Biomark
- R. Pentair Aquatic Eco-Systems
- S. Oregon RFID
- T. Midwest Lake Electrofishing Systems

Expo Hall A



Schedule at a Glance

Wednesday, 23 January 2019

3:00 PM – 5:00 PM

Registration

Convention Center (1st Floor)

Thursday, 24 January 2019

7:00 AM – 5:00 PM

Registration

Convention Center (1st Floor)

7:00 AM – 5:00 PM

Presentation Loading

Convention Center (1st Floor)

8:00 AM – 6:00 PM

Exhibits and Poster Set-up

Expo Hall A

SDAFS Technical Committee Meetings

8:00 AM – 12:00 PM

Catfish

Floral Hall A1

8:00 AM – 12:00 PM

Morone

Wisteria

8:00 AM – 4:30 PM

Reservoir

Floral Hall A2

8:00 AM – 5:00 PM

Warmwater Streams

Rose

8:00 AM – 5:00 PM

Pollution

Tulip

8:00 AM – 5:00 PM

Alligator Gar

Jasmine

10:00 AM – 10:30 AM

Break

Floral Hall Lobby (2nd Floor)

12:00 PM – 1:00 PM

Lunch

On your own

1:00 PM – 5:00 PM

Small Impoundments

Floral Hall A1

1:00 PM – 5:00 PM

TPWD Inland Fish. Habitat Program

Wisteria

3:00 PM – 3:30 PM

Break

Floral Hall Lobby (2nd Floor)

5:00 PM – 7:00 PM

SDAFS Executive Committee

Floral Hall A2

7:00 PM – 9:00 PM

Welcome Social

Moody Aquarium

Friday, 25 January 2019

7:00 AM – 5:00 PM

Registration

Convention Center (1st Floor)

7:00 AM – 5:00 PM

Presentation Loading

Convention Center (1st Floor)

8:00 AM – 6:00 PM

Exhibits, Posters, and Breaks

Expo Hall A

Continuing Education Workshops

8:00 AM – 12:00 PM

BioBase Habitat Mapping

Floral Hall A1

8:00 AM – 12:00 PM

Acoustic Telemetry

Floral Hall A2

8:00 AM – 5:00 PM

Finfish Age Estimation

Rose

8:00 AM – 5:00 PM

Reservoir Habitat BMPs

Wisteria

8:00 AM – 12:00 PM

Improving Communication with Stakeholders
and Policy Decisions

Tulip

8:00 AM – 12:00 PM

Nature, Wildlife, and Landscape Photos

Jasmine

8:00 AM – 12:00 PM

Fish Kill Investigation Methodology

Ivy 1

8:00 AM – 12:00 PM

Leading at all Levels in AFS

Ivy 2

8:00 AM – 5:00 PM

Alligator Gar Research Techniques

Vine 1

10:00 AM – 10:30 AM

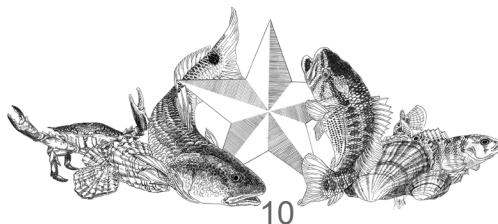
Break

Expo Hall A

12:00 PM – 1:00 PM

Lunch

On your own



Friday, 25 January 2019

Continuing Education Workshops

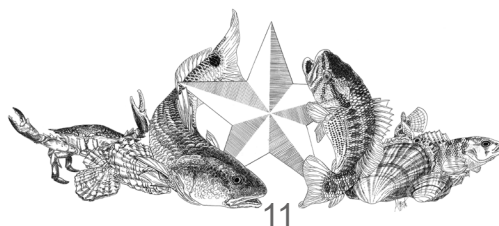
12:00 PM – 1:30 PM	SDAFS Past President's Lunch	Viewfinders Terrace 9th Floor
1:00 PM – 5:00 PM	BioBase Mapping Demo	Moody Marina
1:00 PM – 5:00 PM	Fish Kill Investigation Exercise	Expo Hall C
1:00 PM – 5:00 PM	Uncomfortable Conversations	Tulip
1:00 PM – 5:00 PM	Effective Peer Review	Ivy 2
2:00 PM – 4:00 PM	Social and Traditional Media Tactics	Floral Hall A2
2:00 PM – 5:00 PM	Getting Hired (for Students)	Jasmine
3:00 PM – 3:30 PM	Break	Expo Hall A
5:00 PM – 7:00 PM	SDAFS Business Meeting	Ivy 1
7:00 PM – 9:00 PM	Trade Show and Poster Social	Expo Hall A

Saturday, 26 January 2019

7:00 AM – 5:00 PM	Registration	Convention Center (1st Floor)
7:00 AM – 5:00 PM	Presentation Loading	Convention Center (1st Floor)
8:00 AM – 5:00 PM	Exhibits, Posters, and Breaks	Expo Hall A
8:00 AM – 12:00 PM	Symposium/Contributed Presentations	Refer to Presentation Schedule, Pg. 20 - 21
10:00 AM – 10:20 AM	Break	Expo Hall A
12:00 PM – 1:20 PM	Lunch	On your own
12:00 PM – 1:20 PM	Student-Mentor Lunch	Café in the Park
1:20 PM – 5:00 PM	Symposium/Contributed Presentations	Refer to Presentation Schedule, Pg. 22 - 23
3:00 PM – 3:20 PM	Break	Expo Hall A
3:00 PM – 5:00 PM	Women's Leadership Group	Hotel Room 154
5:00 PM – 7:00 PM	TCAFS Business Meeting	Floral Hall A1
6:30 PM – 7:30 PM	Pre-Banquet Social	Moody Ballroom South Foyer
7:00 PM – 10:00 PM	Banquet, Auction, and Raffle	Moody Ballroom

Sunday, 27 January 2019

7:00 AM – 8:00 AM	TCAFS Past-President's Breakfast	Monarch Room - Café in the Park
7:00 AM – 10:00 AM	Presentation Loading	Convention Center (1st Floor)
8:00 AM – 12:00 PM	Exhibit and Poster Take-down	Expo Hall A
8:00 AM – 12:00 PM	Symposium/Contributed Presentations	Refer to Presentation Schedule, Pg 24 - 25
10:00 AM – 10:20 AM	Break	Floral Hall Lobby (2nd Floor)
12:00 PM	Adjourn	



Symposia

Note: Organizers of symposia with an asterisk (*) are pursuing the option of peer-reviewed publication of manuscripts associated with papers presented.

Advances in the Conservation and Management of North American Gars*

Contact: Nate Smith (nate.smith@tpwd.texas.gov)

Subsequent to their designation as vulnerable in a review of conservation status of North American fishes in 2008, great efforts have been undertaken to understand the biology of the Alligator Gar. This symposium aims to disseminate this information in support of applied management and restoration of Alligator Gar populations across North America. While the focus is on Alligator Gar, we are also considering presentations aimed at management of other species in the family Lepisosteidae. Presentations (oral and poster) will include research related to life history, biology, ecology, culture, and management of gars. We also encourage submission of associated manuscripts for publication in a special section of North American Journal of Fisheries Management.

American Eel Research and Conservation in the Gulf of Mexico: What Are We Doing and Where Are We Headed?

Contact: Stephen Curtis (stephen.curtis@tpwd.texas.gov)

American Eel (*Anguilla rostrata*) in the Gulf of Mexico (GoM) and associated drainages are understudied. With the evolving worldwide demand for freshwater eels, American Eel have received increased attention as a species of commercial harvest in recent years. Much of our recent efforts to understand the life history of American Eel have been focused on the eastern coast of North America. Gulf of Mexico American Eel present unique challenges and opportunities for fisheries researchers and managers as we work to better understand their distribution and abundance, life history and movement patterns, and population structure within the GoM region. This symposium looks to share some of the methods and approaches being used to assess the status of American Eel throughout the greater GoM, Southeast United States, and Caribbean to better inform and coordinate research frameworks and conservation actions.

Best Student Presentation Symposium – Oral or Poster

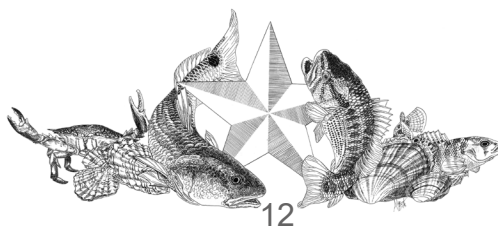
Contact: Nicole Rankin (nicole_rankin@fws.gov)

The Southern Division of the American Fisheries Society supports awards for Best Student Presentation and Best Student Poster at the annual SDAFS meeting. Students interested in competing for the Best Student Presentation or the Best Student Poster should select the appropriate symposium at the time of 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. Finalists selected for the Best Student Presentation Symposium will present on Saturday, 26 January 2019. Submissions for Best Student Poster will be judged during the Poster Session on Friday, 25 January 2019.

Charismatic and Enigmatic Megafauna*

Contact: John Mohan (jmohan@tamu.edu)

Aquatic megafauna exhibit diverse life history strategies, and play important trophic roles in marine ecosystems. The behavior and ecology of megafauna are often enigmatic, as many are characterized by low abundances, high longevity and a propensity for long-distance movements. Advanced research techniques, including the use of electronic instrumentation, genetic primers, and natural chemical biomarkers have increased our understanding of megafauna behavior, population structure, and responses to environmental and anthropogenic stressors. This symposium will focus on current research in aquatic megafauna ecology and management including: 1) life history information such as age, growth, reproduction and feeding ecology; 2) population dynamics including migration patterns, population connectivity and stock structure; and 3) behavioral and physiological responses to environmental and anthropogenic stressors. Studies employing traditional fishery dependent and independent datasets, advanced electronic tags (acoustic & satellite telemetry), and innovative natural tags (genetics, stable isotopes, trace elements) with results directed at management applications, are especially encouraged.



Symposia Continued

Congratulations on Your Promotion to Management: Considerations for New Supervisory Biologists

Contact: Cecil Jennings (jennings@uga.edu)

The aim of this symposium is to provide an overview of the roles and responsibilities of mid-level managers in natural resource organizations to mid-career biologists considering applying to a supervisory position or those who have been recently-promoted to such a position. The information presented will cover a range of non-scientific topics (e.g., personnel, budgets, procurement, safety) with which the new supervisor will have to contend, and do so without formal training in those areas. The need for this type of information is great as many state, federal, and NGO natural resource agencies nationally are facing large-scale retirements as the last of the baby boomers reach retirement age. Accordingly, many mid-level biologists at these agencies will be recruited to fill the recently or soon-to-be vacated supervisory positions, but without the benefit of formal training in this area as these topics are seldom covered in graduate fisheries curricula. This symposium will introduce new and aspiring supervisors to the opportunities and challenges inherent in their new position as well as to a cadre of professionals from whom they can learn. The topics covered in this symposium will facilitate a smooth transition from mid-career biologist to a supervisory biologist and will help fulfill agency mission in natural resource stewardship.

Embracing the Fisheries Opportunities in the Urban Landscape

Contact: Niki Ragan (niki.ragan@tpwd.texas.gov)

As populations continue to shift toward growing metropolitan areas, the number of urban fisheries - and their importance - is increasing. Urban fisheries' accessibility and proximity to large portions of the population present increased angling and recreational activities to urban residents. However, urban fisheries also face challenges that traditional fisheries do not, including perceived and genuine absence of fishing opportunities, environmental challenges associated with urbanized watersheds, impeded access for anglers and resource managers, and atypical levels of fishing pressure. Resource managers, recreation specialists, and angling advocates are finding new opportunities to overcome challenges like these while connecting urban residents to fishing resources and angling. This symposium brings together ideas and approaches for addressing fisheries management, expansion, and promotion in urban centers.

Morone Biology and Management

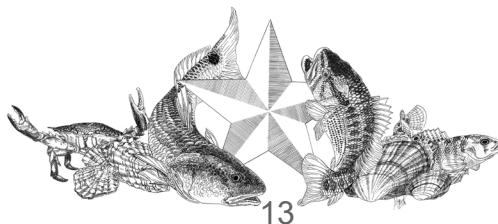
Contact: Jake Norman (jake.norman@tpwd.texas.gov)

An overview of current research and management topics dealing with Striped Bass, Hybrid Striped Bass, White Bass and other pertinent Morone species within the Southeastern US. Presentation topics will include stocking procedures, sampling methods, angler motivations/creel surveys, Striped Bass and Hybrid Striped Bass Culture, evaluating year class strength in wild Morone stocks, and others. The broad scope of this symposium will help biologists incorporate new ideas into their respective state's Morone research and management and provide a great setting for biologist to discuss issues across the southeast region. While Morone culture has been deeply studied, there is a paucity of published research focused on Morone fisheries and associated management. This symposium will highlight what biologists already know and what information is still needed to improve our Morone fisheries across the US.

Small Impoundment Management: Addressing Multifaceted Objectives in Fisheries

Contact: Marcos De Jesus (marcos.dejesus@tpwd.texas.gov)

Southern states are experiencing a population boom. More people are targeting southern states and their large cities to pursue new opportunities. As fishing competes with other fast-paced activities in growing communities, fisheries professionals are challenged to keep recreational fishing relevant in the coming years. More concerning, population growth has outpaced license sales in many states. It is important to serve our existing anglers; however, it's also important to generate new anglers and increase future license buyers. With today's time and money constraints, fishing opportunities need to be affordable and close to home. Small impoundments (< 200 hectares) are usually optimal for anglers looking for these attributes. With many operated publicly, state conservation agencies can partner to manage these systems to provide optimal fishing experiences. Issues like pond aging, limited fish habitat and access, population dynamics, and angler recruitment, reactivation, and retention are among many that are addressed by fisheries professionals across southern states. The private industry and university researchers have also approached similar issues in ways that could transpose to public small impoundment management. This symposium will provide a venue to share localized management approaches with the fisheries community to help address defined challenges we face as small impoundment managers.



Symposia Continued

Recovering America's Wildlife Act: The Grand Vision and Funding for Conservation

Contact: Tom Lang (tom.lang@tpwd.texas.gov), Tim Birdsong (Timothy.Birdsong@tpwd.texas.gov)

Sponsor: AFS Fish Habitat Section

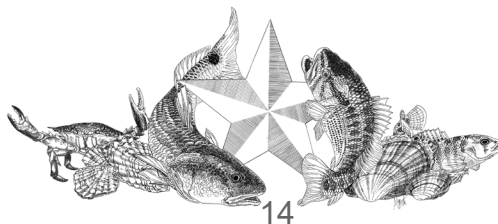
Fish and wildlife face a myriad of threats in the United States including loss of habitat, degradation of habitat, pollution, climate change, invasive species, and disease. Although Pittman-Robertson, Dingell-Johnson, and Wallop-Breaux have provided unparalleled funding for wildlife and sportfish restoration and have garnered many conservation successes, State Wildlife Action Plans collectively have identified nearly 12,000 species nationwide that are in need of conservation attention and action. These species of greatest conservation need are at-risk of moving onto the threatened and endangered species lists. The Blue Ribbon Panel on Sustaining America's Diverse Fish and Wildlife Resources (a nonpartisan panel of 26 national leaders representing conservation organizations, the energy industry, outdoor recreation retailers, sportsmen's group, and governmental agencies) was organized to develop recommendations for securing dedicated funding that would fully provide for our nation's fish and wildlife species. The panel developed a recommendation that would eventually become HR4647 the bipartisan "Recovering America's Wildlife Act" sponsored by Rep. Jeff Fortenberry (R-Neb.) and Rep. Debbie Dingell (D-Mich.). If passed this Act would dedicate \$1.3 billion annually in existing revenues from the development of energy and mineral resources on federal lands and waters to the currently unfunded Wildlife Conservation and Restoration Account. These funds would then be distributed to the state natural resource agencies to implement State Wildlife Action Plans which are designed to conserve at-risk species and keep them off of the threatened and endangered list. This symposium will provide a detailed examination of HR4647 and its current status, include reviews of multiple State Wildlife Action Plans and their important activities that would be funded through this Act, review of AFS and our partner's efforts to support the Act, and ways that AFS members, Sections, and Chapters can help to support this visionary bill that could change the future of fish and wildlife indefinitely.

Reservoir Fisheries Habitat Enhancement

Contact: Tom Lang (tom.lang@tpwd.texas.gov), Jeff Boxrucker (jboxrucker@sbcglobal.net)

Sponsors: Reservoir Fish Habitat Partnership, AFS Fish Habitat Section, Mossback Fish Attractor, and Bio Base

Reservoirs provide a plethora of tremendously important societal benefits including but not limited to water supply, flood control, hydropower, ecosystem services, and recreational activities including boating, hunting, and fishing. However, over time, the ability of reservoirs to provide significant benefits diminishes as habitat impairments intensify. Fisheries managers are uniquely positioned to recognize evidence of reservoir aging-related impacts early in their expression through their regular fisheries population and habitat assessment duties. Thus, while construction of reservoirs was typically conducted with fisheries as an afterthought, fisheries managers are increasingly finding themselves leading the charge to restore reservoirs. This dynamic provides great opportunities for fisheries resource interests to be a primary concern in restoration efforts but also brings challenges like developing and managing partnerships and volunteers, and fundraising efforts. The Reservoir Fisheries Habitat Partnership (RFHP), one of 20 Fish Habitat Partnerships comprising the National Fish Habitat Partnership, has been providing granting and networking opportunities to fisheries professionals and lay users of reservoir resources since 2010. A tremendous number of partnership efforts among fisheries management agencies, municipalities, corporations and anglers have occurred. Habitat restoration efforts, best management practices, Friends of Reservoirs Chapter efforts, outreach, education, fundraising, and research efforts will be discussed as well.

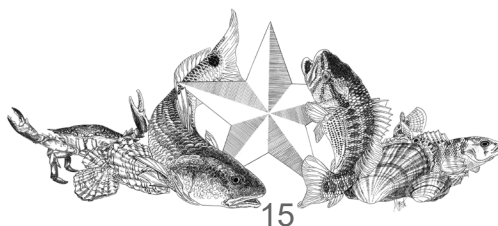


Poster Presentations

Poster Presentations will take place from 7 pm- 9 pm on Friday, the 25th

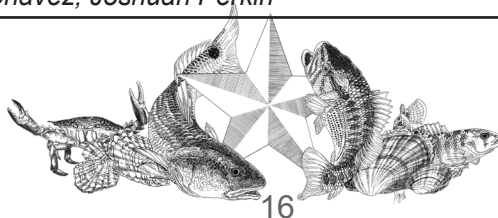
Freshwater - General	Posters 1-10	Freshwater - Streams	Posters 22-50
Morones	Posters 11-12	Saltwater - General	Posters 51-71
Alligator Gar	Posters 13-17	Sharks	Posters 72-80
Black Bass	Posters 18-21	Flounder	Posters 81-85

1	Establishing Ground Cover In Reservoir Mudflats To Enhance Fish Habitat <i>David Norris, Giancarlo Coppola, Mike E. Colvin, Marcus A. Lashley, Leandro E. Miranda</i>	Reservoir Fisheries Habitat Enhancement
2	The Effect Of Feed Level Zinc Methionine On The Performance Of Farm Raised Catfish During Oxygen Stress <i>Joshua Stone, Heather Mathewson, Barry Lambert, Dale Tiemann</i>	Contributed
3	Morphological, Histopathological, And Molecular Identification Of An <i>Echinochasmus Sp. Metacercaria</i> In Farm-Raised Catfish Production Systems In Northeast Mississippi <i>Thomas Miles, Justin Stilwell, Ethan Woodyard, Alvin Camus, Matt Griffin, Thomas Rosser</i>	Best Student Presentation Symposium
4	Microplastics In Mississippi River Watershed Fishes <i>Ahmed Gad, Kerrin Toner, Mark Benfield, Stephen R. Midway</i>	Contributed
5	Angler Doppler Radar: Spatial Mapping Using Residence Data From Creel Surveys <i>Aaron Bunch, Jay Kapalczynski</i>	Contributed
6	Tennessee Wildlife Resources Agency's Winter Trout Program: A First Look Into Angler Recruitment And Retention <i>Brandon Simcox</i>	Contributed
7	Modeling The Predation Dynamics Of Invasive Blue Catfish (<i>Ictalurus Furcatus</i>) In The Chesapeake Bay Tributaries And Subestuaries <i>Donald Orth, Joseph Schmitt, Brandon Peoples, Aaron Bunch, Leandro Castello</i>	Contributed
8	Elephant Ear (<i>Colocasia Esculenta</i>) Control Efforts In The Upper Llano River, Texas, Support Riparian Habitat Health And Guadalupe Bass Restoration Success <i>Kristen Eggers, Patricia Thompson, Monica McGarrity, Angela England</i>	Contributed
9	Low-Dose Stimulation Of Growth Of The Harmful Alga, <i>Prymnesium Parvum</i> , By Glyphosate And Glyphosate-Based Herbicides <i>Reynaldo Patiño, Brittanie L. Dabney</i>	Contributed
10	Small Impoundments In Croplands For Integrating Agricultural And Aquaculture Practices In Regions With Water Stress <i>Pramod Pandey, Sriram Vidyarth, Vinay Pandeym, Sudhindra Panda</i>	Contributed
11	Using A Collaborative Approach For Sampling Striped Bass For Pcb Analysis In A Deep Reservoir While Reducing Bycatch <i>Michael W. Jones, Trent Jett, Kelly Roy, Teresa Mathews, Mark Peterson</i>	Morone Biology and Management
12	Estimation Of Hybrid Striped Bass <i>Morone Saxatilis</i> X <i>M. Chrysops</i> Mortality Using Telemetry And Transmitter Returns In Degray Lake, Arkansas <i>Jeremiah Salinger, Steve Lochmann</i>	Morone Biology and Management
13	Reproductive Ecology Of Alligator Gar In A River-Floodplain Ecosystem <i>Chris Naus, Reid Adams, Tommy Inebnit, Lindsey Lewis, Geoffry Spooner, Edward Kluender</i>	Advances in the Conservation and Management of North American Gars
14	Marking Otoliths Of Alligator Gar By Immersion In Oxytetracycline <i>Richard A. Snow, James M. Long, Michael J. Porta</i>	Advances in the Conservation and Management of North American Gars



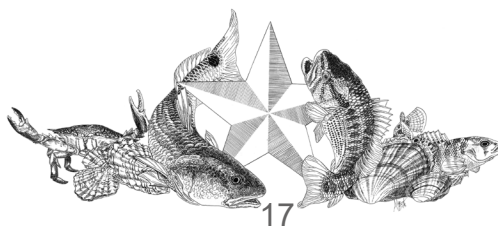
Poster Presentations Continued

15	Diet Of Alligator Gar (<i>Atractosteus Spatula</i>) In The Aransas Bay Ecosystem <i>Emily Miller</i>	Best Student Presentation Symposium
16	Reproductive Characteristics Of Alligator Gar In Falcon Reservoir, Texas. <i>Susanna Harrison, Randy Myers, Mitch Nisbet</i>	Best Student Presentation Symposium
17	Genetic Assessment Of Alligator Gar In Lake Texoma <i>Andrew T. Taylor, James M. Long, Richard A. Snow, Michael J. Porta</i>	Advances in the Conservation and Management of North American Gars
18	Evaluation Of Shoreline Rotenone Application To Control Largemouth Bass (<i>Micropterus Salmoides</i>) Recruitment In Small Impoundments <i>Collin Chittam, Tyler Steven Coleman, Matthew J. Catalano, Graves Lovell, Russell Wright, Dennis Devries</i>	Best Student Presentation Symposium
19	Comparing Otoliths And Scales To Age Bartram's Bass—A Savannah River Endemic <i>Jon Blalock, Logan Bodiford, Emily Judson, Brandon Peoples</i>	Best Student Presentation Symposium
20	Evaluating The Divergent Attributes Of Non-Native Black Bass: Economic Advantages Versus Ecological Repercussions <i>Lauren Seguy, James Long</i>	Contributed
21	Fishing For Success: Angling Efficiency And Catchability Analysis In Stream Micropterids <i>Travis Waldrep, Nick Loveland, Nate Smith, Paul Fleming</i>	Contributed
22	Stream Fish And Benthic Community Response To A New Industrial Wastewater Discharge <i>Adam Whisenant, Cynthia Hobson, Archis Grubh</i>	Contributed
23	Long-Term Changes In A Fish Community From An East Texas Urban Stream: A 28-Year Perspective <i>Carmen G. Montaña, Edan Morag, David Peterson, Christopher Schalk</i>	Contributed
24	4 Years Of Bioblitzing In Texas Native Fish Conservation Areas (Nfcas): An Overview Highlighting Notable Discoveries <i>Melissa Casarez, Sarah Robertson, Dean Hendrickson, Adam Cohen, Gary Garrett</i>	Contributed
25	The Effects Of Forest Management Practices On Fish Diversity In The Santee Experimental Forest, South Carolina <i>Ashley Padgett Alicia Rivera, Jacob Moreland, Peijia Ku, Martin Tsui, Alex Chow, Troy Farmer</i>	Best Student Presentation Symposium
26	Growth And Recruitment Of Gray Redhorse In The Lower Colorado River <i>Caroline Jurca, Matthew Acre, Allison Pease, Preston Bean</i>	Best Student Presentation Symposium
27	Biomonitoring Of Aquatic Fauna At Fort Polk Training Center <i>Crissie Fowler, Lance Williams, Marsha Williams</i>	Contributed
28	Biomonitoring Of Aquatic Fauna On Camp Swift Training Center <i>Madison Currans, Marsha Williams</i>	Contributed
29	Stream Biomonitoring And Aquatic Fauna Surveys On Fort Walters Training Center <i>Rachel Quintanilla, Marsha Williams, Lance Williams</i>	Best Student Presentation Symposium
30	A Conceptual Framework For Studying Flow Impacts On Fish Reproductive Guilds <i>Erin Nguyen, Joshua Perkin</i>	Best Student Presentation Symposium
31	Impact Of Land Use Practices On Fisheries Ecology Of Two Rivers In North Central Texas. <i>Farron Fiedler Jr., Barbara Bellows</i>	Best Student Presentation Symposium
32	Inter-Annual Variation In Fish Communities Within Spring-Fed Systems Of The Edwards Plateau <i>Marisa Quevedo, David Ruppel, Cody Craig, Timothy Bonner</i>	Contributed
33	A Riverscape Divided: Longitudinal Change In Fish Community Structure In White Creek, College Station, Texas <i>Matthew Madewell, Fernando Chavez, Joshua Perkin</i>	Contributed



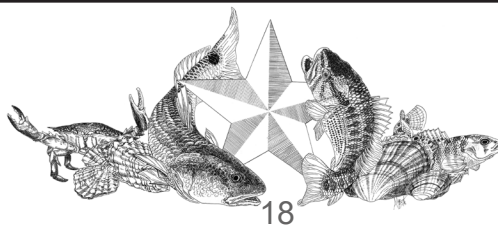
Poster Presentations Continued

34	The Scales Of Texan Freshwater Fishes – A Pictorial Atlas. Part I. Cyprinidae <i>Rebecca Castro, Kevin W. Conway</i>	Best Student Presentation Symposium
35	Water Quality Assessment Of The Upper Neches River Watershed <i>Samantha Rowe, Marsha Williams, Lance Williams</i>	Best Student Presentation Symposium
36	Do Chubs Change Their Spots? Using Natural Markers To Track Small Fish In Big Rivers <i>Chase Corrington, Joshua Perkin</i>	Contributed
37	Pigmentation As A Potential Stress Indicator In Paddlefish <i>Nicky Fauchaux, Jan Jeffrey Hoover</i>	Charismatic and Enigmatic Megafauna
38	Niche Segregation Among Sunfishes (<i>Lepomis</i> Spp.) In An East Texas Urban Stream <i>Chelsea Veloso, Carmen Montana, Christopher Schalk</i>	Contributed
39	Updated Checklist And Drainage Basin Keys For Inland Fishes Of Texas <i>Cody Craig, Timothy Bonner</i>	Best Student Presentation Symposium
40	Evaluating Length Bias In Three-Pass Depletion Backpack Electrofishing <i>Elijah Lamb, Brandon Peoples, Troy Farmer</i>	Best Student Presentation Symposium
41	Assessment Of The Sulphur River Basin Fish Communities <i>Elizabeth Rosas, Audrey Fry, Peter Pfaff, Timothy Bonner</i>	Contributed
42	Examination Of Feeding Ecology Of Non-Native Naked Goby (<i>Gobiosoma Bosc</i>) In The Concho River Using Gut Contents Analysis <i>Jacob Wright, Allison Pease, Nathan Schubert</i>	Best Student Presentation Symposium
43	Patterns In Sheepshead Minnow (<i>Cyprinodon Variegatus</i>) Size Structure In West Texas <i>Jayne Ecker, Stephanie George, Joshua Perkin</i>	Contributed
44	Targeted Invasive Species Removal Cascades To Reduce Non-Target Invasive Species Through Apparent Facilitation <i>Jennifer Whitt, Peter Lisi, Peter McIntyre, Michael Blum, Derek Hogan, Chis Patrick</i>	Best Student Presentation Symposium
45	Effect Of Formalin Preservation On Fish Morphology Over Time: Implications For Morphological Studies <i>Peter Pfaff, Alex Sotola, Cody Craig, Jeremy Maikoetter, Noland Martin, Timothy Bonner</i>	Contributed
46	Is There Sexual Dimorphism In The Endangered Sharpnose Shiner (<i>Notropis Oxyrhynchus</i>)? <i>Ryan Vazquez, Gene Wilde</i>	Best Student Presentation Symposium
47	Mapping The Current Range Of Species In Genus <i>Macrobrachium</i> Across Texas <i>Alexander Solis, Fernando Cervallo, Christopher Patrick</i>	Contributed
48	Verifying Genomically-Informed Ecological Niche Models <i>Ava Laszlo, John Placyk, Jr., Joshua Banta, Lance Williams, Marsha Williams, Kate Hertweck</i>	Best Student Presentation Symposium
49	The Status Of The Kisatchie Painted Crayfish (<i>Faxonius Maletae</i>) In Louisiana <i>Jade Mccarley, Josh Banta, John Placyk, Marsha Williams, Lance Williams</i>	Best Student Presentation Symposium
50	Responses Of Aquatic Benthic Macroinvertebrate Communities To A Large Flow Pulse In The Guadalupe, San Antonio And Brazos River Basins, Texas <i>Jeremy D. Maikoetter, Cody A. Craig, David S. Ruppel, Timothy H. Bonner</i>	Contributed
51	Differences In Habitat Use Between Immature And Mature Female Red Snapper <i>Andrea Leontiou</i>	Contributed
52	Positive Impacts Of Reduced Fishing Pressure On The Popular Recreational Finfish Of Aransas Bay Following Hurricane Harvey <i>Cynthia Kelly, Evan Pettis</i>	Contributed



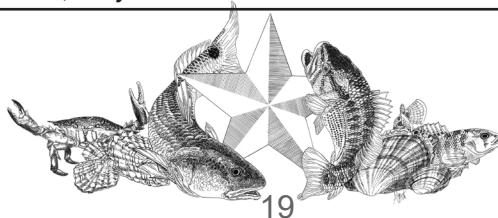
Poster Presentations Continued

53	Using Low-Cost, Recreational Side-Scan Sonar And Echosounder Units To Inform Oyster Reef Restoration In Aransas Bay, Texas <i>Evan Pettis, Emma Clarkson</i>	Contributed
54	Population Structure Of Atlantic Croaker (<i>Micropogonias Undulatus</i>) From The Gulf Of Mexico: Evaluating A Single Stock Hypothesis Using A Genomic Approach <i>Joel Anderson, Shannon O'leary, Pearce Cooper</i>	Contributed
55	Age, Growth, And Mortality Of Lane Snapper <i>Lutjanus Synagris</i> From The Eastern Gulf Of Mexico, Usa <i>Kristin Cook, Jessica Carroll, Kerry Flaherty-Walia</i>	Contributed
56	Acoustic Backscatter Analysis Of Nekton Utilization Over Restored And Non-Restored Oyster Reefs <i>Lindsey George, Emma Clarkson, Brad Grimmett, Zachary Olsen, Bill Rodney, Stephanie Taylor</i>	Contributed
57	Movement Of Tarpon Along The Texas Coast <i>Michelle Zapp Sluis, Jay Rooker, Michael Dance, David Wells, Richard Kline, Greg Stunz</i>	Charismatic and Enigmatic Megafauna
58	Combining Acoustic Technology In Shallow Water Bay Systems Of Texas <i>Stephanie Taylor, Emma Clarkson, Lindsey George, Zach Olsen, Bill Rodney, Jake Harris</i>	Contributed
59	The Selection Of Stocking Locations For Fisheries Enhancement In The Coastal Environment: A Decision Support Tool <i>Zachary Olsen</i>	Contributed
60	History Of Eastern Oyster, <i>Crassostrea Virginica</i> , Management In Texas <i>Zechariah Turk, Stephen Hale, Cindy Kelly</i>	Contributed
61	An Initial Life History Assessment Of Recreationally Landed Swordfish, <i>Xiphias Gladius</i> , In The Northern Gulf Of Mexico <i>Anna Millender, Jeremy Higgs, Jim Franks, Nancy Brown-Peterson, Gary Gray</i>	Contributed
62	Inter-Annual Variability (2010-2016) In Isotopic Composition And Assimilation Of Autochthonous And Allochthonous Basal Sources By Fishes In A Subtropical Estuary <i>Bianca Possamai, David Hoeinghaus, Clarisse Odebrecht, Paulo Abreu, Leonardo Moraes, Alexandre Garcia</i>	Contributed
63	Evaluation Of Nearshore Reef Site Materials In The Gulf Of Mexico Off Texas Using Swath Bathymetry And Side Scan Sonar <i>Cameron Moody, Richard Kline, Dale Shively</i>	Contributed
64	Differential Hurricane Recoveries By Benthic Invertebrate Communities Along An Aridity Gradient <i>Fernando Carvalho, Sean Kinard, Darcy Gonzalez, Alex Solis, J. Derek Hogan, Brandi Kiel Reese, Christopher J. Patrick</i>	Contributed
65	Monitoring Of Low-Profile Artificial Patch Reefs Using Time-Lapse Videography <i>Kirsten Lara, Richard Kline</i>	Contributed
66	Climate And Hurricane Disturbance Drive Temporal Variation In Stream Algal Communities Along The Texas Coastal Bend <i>Madison Hightower, Christopher Patrick, Derek Hogan, Brandi Kiel Reese, Sean Kinard, Fernando Carvalho, Darcy Gonzalez, Victoria Jenkins, Alex Solis</i>	Contributed
67	The Effect Of Deepwater Horizon Crude Oil On Dna Methylation Patterns In Wild-Caught Red Drum (<i>Sciaenops Ocellatus</i>) In Louisiana Estuaries <i>Natalie Beeken, Andrew Fields, Dana Wetzel, David Portnoy</i>	Contributed
68	Molecular Characterization Of Black Drum <i>Pogonias Cromis</i> (<i>Sciaenidae</i>) Stocks In The Western South Atlantic As A Basis For Fisheries Management <i>Renan Machado, Maira Proietti, Maria Da Silva-Cortinhas, Bianca Possamai, Manuel Haimovici</i>	Contributed



Poster Presentations Continued

69	Mimicking Vegetation In Hatchery Tanks Improves Post-Release Behavior Of Stocked Snook <i>Sarah Glover, Ryan Schloesser</i>	Best Student Presentation Symposium
70	Effect Of Several Disinfectants On Hatch Rates And Bacterial Loads Of Almaco Jack (<i>Seriola Rivoliana</i>) Eggs <i>Stephen Stang, Vieve Patrick , Nicole Rhody , Andrea Tarnecki</i>	Best Student Presentation Symposium
71	Trophic Structure Of Deep-Pelagic Micronekton As Revealed Through Bulk And Compound-Specific Stable Isotope Analysis <i>Travis Richards, Tracey Sutton, David Wells</i>	Best Student Presentation Symposium
72	A Gis Analysis Of Shark Movements In Northeast Florida Estuaries From 2009 To 2017 <i>Amanda Schaaf, James Gelseichter</i>	Best Student Presentation Symposium
73	Characterization Of A Scalloped Hammerhead (<i>Sphyrna Lewini</i>) Nursery Habitat In Portions Of The Atlantic Intercoastal Waterway <i>Bryanna Wargat, James Gelsleichter</i>	Contributed
74	Preliminary Observations On The Uptake Of Microplastics In The Atlantic Sharpnose Shark (<i>Rhizoprionodon Terraenovae</i>) And The Atlantic Stingray (<i>Hypanus Sabina</i>) On The Southeast U.s. Coast. <i>Cailla Strobel</i>	Contributed
75	Mercury Concentrations In The Oceanic Whitetip Shark, <i>Carcharhinus Longimanus</i> , Off Of Cat Island, Bahamas. <i>Graceann Sparkman, Oliver Shipley , Edward J Brooks, Lucy Howey, Jim Gelsleichter</i>	Contributed
76	Reproductive Endocrinology Of The Atlantic Sharpnose Shark, <i>Rhizoprionodon Terraenovae</i> , Off The Coast Of Northern Florida <i>Halee Larson, Jim Gelsleichter</i>	Contributed
77	How Does Feeding Ecology Impact The Accumulation Of Pahs And Pcb's In Sympatric Shark Species? <i>Joshua Cullen, David Hala, Christopher Marshall</i>	Contributed
78	Preliminary Observations On Reproduction Of The Spinner Shark, <i>Carcharhinus Brevipinna</i> <i>Kristin Palmrose, Lindsay French, George Burgess, Jim Gelsleichter</i>	Contributed
79	Preliminary Data On The Effects Of Ink On Shark Swimming Behavior <i>Lauren Simonitis, Christopher Marshall</i>	Contributed
80	An Evaluation Of The Use Of Red Blood Cells As A Surrogate For Measuring Mercury Contamination In Sharks And Rays <i>Sarah Sullivan, Jeffrey Hudgins, Jim Gelsleichter</i>	Contributed
81	Characterizing The Southern Flounder Fishery In Louisiana <i>Dave Smith, Kenneth A. Erickson, Jack Isaacs, Stephen R. Midway</i>	Contributed
82	Habitat-Specific Contribution Of Southern Flounder To Alabama's Recreational Fishery Revealed By Otolith Chemistry <i>Jared Chrisp, Reid Nelson, Matthew Catalano, Dennis Devries, Russell Wright, Troy Farmer</i>	Best Student Presentation Symposium
83	Significance Of Variable Habitat Exploitation To Understanding An Economically Important Fish Stock <i>Kaylyn Zipp, Benjamin Walther</i>	Contributed
84	Temporal Patterns And Environmental Correlates Of Age-0 Southern Flounder Abundance Along The Northern Gulf Of Mexico <i>Mason Collins, Jared Chrisp, Meghan Angelina, Dennis Devries, Rusty Wright, Matt Catalano, Troy Farmer</i>	Best Student Presentation Symposium
85	Environmental Correlates Of Southern Flounder Juvenile Abundance Along The Northeastern Gulf Of Mexico <i>Meghan Angelina, Matthew Catalano, Troy Farmer</i>	Best Student Presentation Symposium



Saturday, January 26th, Oral Presentations

	Floral Hall A1	Floral Hall A2	Rose	Wisteria	Jasmine	Tulip	Ivy 1	Ivy 2
	Reservoir Fisheries Habitat Enhancement	Contributed	Morone Biology and Management	Charismatic and Enigmatic Megafauna	Advances in the Conservation and Management of North American Gars	Best Student Presentation Symposium	Small Impoundment Management	Contributed
8:00 AM	The History Of Woody Structure Habitat Enhancement In Reservoirs: Changing Objectives From Fish Attraction To Fish Production <i>Jeff Boxrucker</i>	Evaluation Of Current And Historic Fish Assemblages In The Ouachita Mountain Ecoregion Due To Changes In Land Use Land Cover And Water Quality <i>Chris Naus</i>		Seamap Longline Monitoring Of Elasmobranchs In Texas Nearshore Waters From 2010-2018 <i>Jason Slocum</i>	Current Management Efforts For Alligator Gar Across Their Historic Range Of The U.S. <i>Eric Brinkman</i>		The Small Impoundments Committee Of The Southern Division Of The American Fisheries Society: Engaging With The Fisheries Community <i>Brett Timmons</i>	Phylogeography Of The Sand Shiner <i>Notropis Stramineus</i> (Teleostei: Cyprinidae) <i>Amanda Pinion</i>
8:20 AM	Fish Habitat Improvement Strategies For Reservoirs With Limited Littoral Zone Structure <i>Ben Page</i>	Local And Regional Drivers Of Taxonomic Homogenization In Stream Communities Along A Land Use Gradient <i>William Robert Budnick</i>	Past And Current Research And Management Of White Bass In North Carolina <i>Kelsey Lincoln</i>	Factors Influencing An Elasmobranch Community Assemblage Identified Through Long-Term Bottom Longline Surveys <i>Emily Seibert</i>	Effects Of Temperature On Hatching Rate And Early Development Of Alligator Gar And Spotted Gar In A Laboratory Setting <i>Richard A. Snow</i>	Environmental Influences On Fish Density And Distribution In The Aransas Ship Channel, Texas <i>Derek Bolser</i>	History Of Private Pond Management <i>Bob Lusk</i>	Habitat Associations And Categories Of Inland Fishes Within Gulf Slope Drainages Of Texas And Louisiana <i>Cody Craig</i>
8:40 AM	The Rehabilitation Of Conestoga Reservoir <i>Mark Porath</i>	Population Status Of Florida's Species Of Greatest Conservation Need From The Escambia Watershed <i>Kayla Smith</i>	Understanding Striped Bass Egg Characteristics In North Carolina Coastal Rivers <i>Cara Kowalchuk</i>	Distribution And Community Structure Of Shark Assemblages Along The First Coast Of Florida <i>Clark Morgan</i>	Flow-Specific Floodplain Inundation Modeling And Alligator Gar Recruitment In The Lower Trinity River <i>David Hoeinghaus</i>	Fish Co-Occurrence Networks Vary In Type And Complexity Along Latitude In The Eastern US <i>Joseph Mruzek</i>		Freshwater Mussel Habitat Modeling And Environmental Flow Analysis In The Lower Colorado River, Texas <i>Brad Litrell</i>
9:00 AM	The Effects Of Assisted Migration On Self-Organization Of Reservoir Ecosystems <i>Earl Conway</i>	Assessing Angler Use And Demographics At Three Sandhills Region Lakes In North Carolina Using Trail Cameras <i>Lawrence Dorsey</i>	Striped Bass Recruitment And Hydrology In The Two Major Tributaries Of Lake Texoma. <i>Dan Bennett</i>	Influence Of Environmental Factors On Predation Risk Gradients For Juvenile Bull Sharks (<i>Carcharhinus leucas</i>) Across Two Texas Estuaries <i>Amanda Lothrus</i>	Mercury, PCB, And OCP Body Burden And Maternal Transfer, Egg Quality And Fecundity Of Alligator Gar In The Lower Trinity River: Are Bigger Fish Always Better For Recruitment? <i>Brittany L Harried</i>	Heterogeneous Fish Recolonization Along A Climate Gradient Following Hurricane Harvey <i>Sean Kinard</i>	Smart Fish- A New Tool For Fishery Managers <i>C. Wade Bales</i>	Overview Of The Lower Brazos River Instream Flow Study <i>John Botros</i>
9:20 AM	Divergent Growth Response To Climate Patterns Among Ecosystem Types For A Temperate Freshwater Habitat Generalist <i>Jonathan J. Spurgeon</i>	Assessing The Usage Of Time-Lapse Digital Cameras To Obtain Angler Effort Estimates On Alabama Reservoirs <i>Robert Eckelbecker</i>	Site-Specific Contributions To Juvenile Striped Bass Production In Virginia Estuaries: Implications For Water Withdrawal <i>Brian Gallagher</i>	Habitat Associations And Co-Occurrence Patterns Of Two Estuarine-Dependent Predatory Fish Species In Coastal Alabama <i>Mariah Livernois</i>	An Evaluation Of Alligator Gar Brood Fish Collections In The Mobile-Tensaw Delta, Alabama <i>David Armstrong</i>	Influence Of The Annual Flood Pulse Of The Atchafalaya River On The Ecology Of Aquatic Hemiptera And Their Associates <i>Patricia L. Shorter</i>	Hurricane Maria And The Structure And Resilience Of Reservoir Fish Communities <i>Wes Neal</i>	First Record Of The Conchos Shiner <i>Cyprinella paracryps</i> (Hubbs & Miller, 1978) From The Mainstem Of The Rio Grande Along The US-Mexico Border <i>Kevin W. Conway</i>
9:40 AM	Reservoir Aging – A New Paradigm For Water-Quality Management: Are Our Reservoirs Promoting Cyanobacterial Harmful Algal Blooms? <i>W. Reed Green</i>	Lake Bathymetry Mapping Using A Raspberry Pi And Open-Source Software <i>Powell Wheeler</i>	Utility Of Stocking Hybrid Striped Bass Fry In Texas Reservoirs: What We Know And Were To Go From Here <i>Jake Norman</i>	Relationships Between Spawning Behavior And Life History Traits In Gulf Of Mexico Fishes: Implications For Vulnerability Assessments <i>Brad Erisman</i>	Using Remote Sensing To Assess Alligator Gar Spawning Habitat <i>Yvonne Allen</i>	Asymmetric Introggression Between Fishes In The Red River Basin Of Texas Is Associated With Variation In Water Quality <i>Alex Sotola</i>	Long-Term Assessment (2007-2018) Of Fish Assemblage Dynamics Of Puerto Rico Reservoirs: Application Of Community Size Spectra To Novel Systems <i>Brent Murry</i>	Habitat Conservation Priorities For Headwater Catfish In West Texas <i>Stephanie D. George</i>
10:00 AM	BREAK (Expo Hall A)							

Saturday, January 26th, Oral Presentations

	Floral Hall A1	Floral Hall A2	Rose	Wisteria	Jasmine	Tulip	Ivy 1	Ivy 2
	Reservoir Fisheries Habitat Enhancement	Contributed	Morone Biology and Management	Charismatic and Enigmatic Megafauna	Advances in the Conservation and Management of North American Gars	Best Student Presentation Symposium	Small Impoundment Management	Contributed
10:20 AM	Vegetation Analysis In The Middle Holiday Creek Subwatershed <i>Alex Nelson</i>	Fecundity Of Shoal Bass <i>Micropterus Cataractae</i> In An Impounded Reach Of The Lower Flint River, Ga. <i>Aaron Kern</i>	Seasonal Habitat Overlap Between Hybrid Striped Bass And Largemouth Bass In Degray Lake, Arkansas <i>Jeremiah Salinger</i>	Evaluation Of Dorsal Fin Rays And Spines As A Non-Lethal Ageing Method For Goliath Grouper <i>Epinephelus Itajara</i> <i>Jessica Carroll</i>	Relation Of Alligator Gar Hatch Date Distributions To River Hydrology And Reservoir Water Levels <i>Daniel Bennett</i>	Long-Term Ecological Response To Wastewatered-Scale Acid Remediation <i>Rebecca Long</i>	Shoreline Rolenone Application To Control Large-mouth Bass (<i>Micropterus Salmoides</i>) Recruitment In Small Impoundments. <i>Tyler Steven Coleman</i>	Using National Surveys To Evaluate The Condition Of Texas State-Wide Fish Communities <i>Cory Scanes</i>
10:40 AM	Fisheries Habitat Mapping With Biobase: Applications Across Us And Abroad <i>Ray Valley</i>	Exploring The Benefits Of A Catch-And-Release Season For An Endemic Black Bass Using Empirical Exploitation Data: The Effects Of Location And Size <i>Steven Sammons</i>	Exploring Causal Factors Of Spawning Stock Mortality In A Riverine Striped Bass Population <i>Kyle Rachels</i>	Radiocarbon Age Validation Of Warsaw And Snowy Grouper <i>Phillip Sanchez</i>	Feeding Ecology Of Age-0 Gar At Lake Texoma Inferred From Analysis Of Stable Isotopes <i>Michael J. Porta</i>	Occurrence Of Microplastic In The Diet Of Juvenile Fish In The Corpus Christi Bay And The Upper Laguna Madre <i>Polly Hajovsky</i>	Trophy Bass Management-Current Trends <i>Greg Grimes</i>	Coast-Wide Characterization Of Saltmarsh Topminnow – <i>Fundulus Jenkinsi</i> Populations In Texas <i>George Guillen</i>
11:00 AM	From Farmland To Fishery: Creating Habitat At A New Florida Reservoir <i>Dustin Everitt</i>	Behavioral Variation Across Sexes In An Isolated Shoal Bass Population <i>Amy Cottrell</i>	Hybrid Striped Bass Stocking Rates, Abundance, And Angling Catch Rates In Texas Reservoirs. <i>Lynn Wright</i>	Population Genetic Structure Of Large Marine Pelagics– Challenges, Hypotheses And Potential Input Of Genomic Approaches In The Case Of Two Tropical Tunas <i>Pavel V. Dimens</i>	Occupancy Of Four Gar Species In River-Floodplain Habitats: Is There Evidence For Competitive Exclusion And Habitat Mediated Co-Existence? <i>David Schumann</i>	Life History Of Marine Catfishes In The Northern Gulf Of Mexico <i>Lucas Pensinger</i>	Considerations For Largemouth Bass Electrofishing Surveys In Small Impoundments: Evaluating The Effects Of Environmental Conditions And Testing Mark-Recapture Assumptions To Improve Relative Abundance Estimates <i>Jeff Williams</i>	Site Occupancy Estimates For Saltmarsh Topminnows In Northwest Florida <i>Chelsea Myles-McBourney</i>
11:20 AM	Evaluation Of Large-Scale Habitat Manipulations In Newly Inundated Fellers Reservoir <i>Brad Fontaine</i>	Repatriation Of Guadalupe Bass <i>Micropterus Treculii</i> In The Blanco River, Texas: A Case Study In The Opportunistic Use Of Drought As A Fisheries Management Tool <i>Stephan Magnolia</i>	Utilizing Recreational Catch Data To Evaluate One Of Arkansas Premier Striped Bass Fisheries: A Pilot Study <i>Sean Lusk</i>	Exploring Pathways Of Atlantic Surgeon Dna In Diets From A Tidal River Fish Assemblage Using Nextgeneration Sequencing <i>Aaron Bunch</i>	The Ancient Sport Fishes Project: Investigations Into The Ecology And Management Of <i>Lepisosteus</i> Spp. In Illinois <i>Jeffrey A. Stein</i>	Determining Habitat Usage Of A Habitat Generalist Using 3D Habitat Mapping <i>Jason Selwyn</i>	Utilizing Structure To Maximize Habitat Diversity In Strategic Locations In Private Lakes <i>Steven Bardin</i>	Influence Of Surface Geology On Fish Communities Of The Colorado River Basin Of Texas <i>Peter Pfaff</i>
11:40 AM	Small Reservoir Renovation Challenges And Experiences: Dahlgren Lake Oklahoma, A Case Study <i>Kurt Kuklinski</i>	Modeling Distribution Of Endemic Bartam's Bass, Congeners, And Hybrids In The Savannah River Basin <i>Brandon K. Peoples</i>		Tiger Sharks Eat Terrestrial Songbirds: Exploring The Prevalence Of A Unique Cross-System Pulsed Subsidy <i>Marcus Drymon</i>	Preliminary Results Of Movement And Habitat Use Of Alligator Gar On Delta National Wildlife Refuge, Louisiana <i>Kayla D. Kimmel</i>	Isotopic Analysis Of Food Webs In Coastal Plains Streams With Varying Hydrologic Connectivity <i>Erin Thayer</i>	Effects Of Experimental Removals Of Largemouth Bass Biomass From A Bass-Crowded Tropical Reservoir <i>Cynthia Fox Holt</i>	Life History Theory Predicts Long-Term Fish Assemblage Response To Stream Impoundment <i>Josh Perkin</i>
12:00 PM	LUNCH (on your own) Student-Mentor Lunch (Cafe in the Park)							

Saturday, January 26th, Oral Presentations

	Floral Hall A1	Floral Hall A2	Rose	Wisteria	Jasmine	Tulip	Ivy 1	Ivy 2
	Reservoir Fisheries Habitat Enhancement	Contributed	Morone Biology And Management	Charismatic And Enigmatic Megafauna	Advances In The Conservation And Management Of North American Gars	American Eel Research And Conservation In The Gulf Of Mexico	Small Impoundment Management	Contributed
1:20 PM	Using Artificial Habitat Structures To Supplement Natural Brush Fish Attractor Sites <i>Marcos J. De Jesus</i>	Field-Based Edna Sampling And Detection Systems With Application In Aquaculture <i>Phong Nguyen</i>	Standardizing Sampling And Stocking Strategies: Linking Reservoir Characteristics To North Carolina Striped Bass Population Dynamics <i>Stephen Parker</i>	Resilience Exemplified - Drum Fish Spawning Doesn't Miss A Beat <i>Christopher Biggs</i>	Sibship Reconstruction For Inferring The Effective Number Of Breeders Of Alligator Gar From Texas <i>Brian Kreiser</i>	America's Sea Serpent: Biology, Ecology, And Conservation Of The American Eel <i>Thomas Kwak</i>	How Hurricane Maria Impacted Fish Community In Cerrillos Reservoir <i>Gaspar Pons</i>	Tracking Ontogenetic Habitat Shifts In Gray Snapper From Estuaries To Offshore Along The West Florida Shelf <i>Kerry Flaherty Walia</i>
1:40 PM	Triumphs And Trials In Texas, The Enduring Tale Of Lake Wichita <i>Tom Lang</i>	Evaluating The Market Potential And Economic Feasibility Of Marine Batfish Aquaculture <i>Andrew Ropicki</i>	Evaluating North Carolina's Striped Bass Stocking Program Utilizing Parentage-Based Tagging <i>Ben Ricks</i>	Assessing Paddlefish Stress Levels In The Tailrace Of A Dam <i>Henry Hershey</i>	Genetic Population Structure Of Alligator Gar In Texas <i>Damon Williford</i>	Downstream Migration Dynamics Of American Eels In The Ouachita, Black, And Red River Basins, Arkansas And Louisiana <i>Jeff Quinn</i>	Alternative Management Strategies For Small Impoundments In Northwest Florida <i>Matthew Wegener</i>	Life Through The Eyes Of A Hogfish: Investigating Hogfish (<i>Lachnolaimus Maximus</i>) Movement And Habitat Connectivity Using Eye-Lens Stable Isotopes <i>Meaghan Faletti</i>
2:00 PM	An Overview Of Arkansas Game And Fish Large Scale Fisheries Habitat Projects <i>D. Colton Dennis</i>	Sciaenops Ocellatus And The Use Of Water-Base Probiotics To Change Growth, Mortality, And Behavior. <i>Wren Busby</i>	Determining Angler Tendencies Using Mark-Capture Techniques In A New Hybrid Striped Bass Fishery In Lake Norman, North Carolina. <i>Michael Fisk</i>	Trophy Bass Telemetry—Cracking The Riddle Of Kingsley Lake <i>Drew Dutterer</i>	Insights On High-Profile Tournament Bowfishers <i>Jason Schooley</i>	Preliminary Assessment Of American Eel Demographics At The Toledo Bend Hydropower Project, Sabine River, Gulf Of Mexico <i>Arturo J. Vale</i>	Suwannee Lake Renovation: A Success Story <i>Allen D. Martin</i>	Analysis Of Reproductive Hormones As An Indicator Of Skipped Reproduction In A Protandric Hermaphrodite, Common Snook (<i>Centropomus Undecimalis</i>) <i>Alexis Trotter</i>
2:20 PM	Louisiana Artificial Reef Effort: An Evolving Framework <i>Sean Kinney</i>	Attachment Site Selection Of Chestnut Lamprays On Rainbow Trout In Hatchery Raceways In The Content Of Other Lamprays And Their Hosts <i>Jeremiah Salinger</i>	Protective Slot Limit, Changing Angler Behavior, And Increased Survival Has Unintentional Consequences For Striped Bass Fishery <i>Dan Wilson</i>	Using Acoustic Telemetry To Refine Essential Fish Habitat: Long-Term Patterns Of Natal Philopatry In Juvenile Gulf Of Mexico Blacktip Sharks <i>Jayne Gardiner</i>	Texans Open To Variety Of Options For Managing Alligator Gar <i>J. Warren Schlechte</i>	An Update On The Louisiana American Eel (<i>Anguilla Rostrata</i>) Project: Ages, Growth Rates, Diet, And Emerging Patterns <i>Robby Maxwell</i>	Short-Term Responses Of The Freshwater Fish Communities To The Impact Of Hurricane Maria In Puerto Rico Reservoirs And Lagoons <i>Maria De Lourdes Olmeda</i>	Essential Nursery Habitat Of An Iconic Estuarine-Dependent Sportfish In Apalachicola Bay, FL Using Regression Trees And Spatial Hot Spot Analysis <i>David A. Gandy</i>
2:40 PM	Reservoir Fisheries Habitat Enhancement Projects In Georgia <i>Scott Robinson</i>	Habitat Quality For Juvenile Snook Assessed By The Survival Of Hatchery-Reared Individuals <i>Ryan Schloesser</i>		Exploring The Origin Of Juvenile Bull Sharks (<i>Carcharhinus Leucas</i>) In Pamlico Sound, North Carolina Using Acoustic Telemetry And Population Genetics <i>Charles Bangley</i>	Identification And Frequency Of Sub-Annual Increments In Sagittal Otoliths Of Alligator Gar: Implications For Age Estimation <i>David Buckmeier</i>	Current Research And Outreach Efforts To Assess The Status Of American Eel In Gulf Of Mexico Drainages Of Texas <i>Stephen Curtis</i>	Yankee Fish In Rebel Waters? <i>Jeff Slipke</i>	Longitudinal Trends In Prey Use And Condition Of Age-0 Sturgeon In The Lower Missouri River <i>Alin González</i>
3:00 PM	BREAK (Expo Hall A)							

Saturday, January 26th, Oral Presentations

	Floral Hall A1	Floral Hall A2	Rose	Wisteria	Jasmine	Tulip	Ivy 1	Ivy 2
	Reservoir Fisheries Habitat Enhancement	Contributed			Advances in the Conservation and Management of North American Gars	American Eel Research and Conservation in the Gulf of Mexico	Small Impoundment Management	Contributed
3:20 PM	Assessment Of Fish Habitat Associations In The Trinity River-Lake Livingston Ecosystem, Texas <i>Michael D. Homer Jr.</i>	Influences Of Sampling Method And Season On Florida Largemouth Bass Genetic Introgression At Chickamaugh Reservoir, Tennessee <i>Phillip Kacmar</i>			Bomb Radiocarbon Val- idation Of Otolith-Based Age Estimates In The Alligator Gar To Greater Than 60 Years <i>Daniel J. Daugherty</i>	The Hunt For The Elusive American Eel In Texas: A Story About Eels And Blue Crab <i>Justin Hansen</i>	Managing La Plata Reservoir P.r. To Improve Fishing Before And After Hurricanes Irma And Maria <i>Marinely Valentin</i>	A Fish Growth Simulation Study To Evaluate Bin Width Bias At Varying Levels Of Sub-Sampling <i>Corbin Hilling</i>
3:40 PM	The Environmental Flow In- formation Toolkit – Developing Strategies To Support The Protection And Restoration Of Environmental Flows In Texas <i>Johanna Valente</i>	Determining Lake Char- acteristics For Expanding The Florida Bass Stocking Program In Arkansas <i>Jeff Buckingham</i>				Anguillicoloides Crassus: Gulf Of Mexico's Unwant- ed Visitor <i>Kimberly Bonvecchio</i>	Evaluation Of A Large- mouth Bass Selective Breeding Program In Tex- as Small Impoundments <i>Mukhtar Farooqi</i>	Investigating Fish Population Connectivity In A Southeast- ern U.s. River System Using Hard-Part Microchemistry <i>Garret Kratina</i>
4:00 PM	Reservoir Fish Habitat En- hancement Opportunities In The Ferc Relicensing Process <i>Patrick O'Rourke</i>	A Plan For Enhancing Trophy Largemouth Bass Fisheries In Virginia Res- ervoirs Via Stocking <i>Scott Smith</i>				Ecology And Conservation Of The American Eel In The Caribbean Region <i>Thomas Kwak</i>	Relative Catchability Of Channel Catfish And Blue X Channel Hybrid Catfish By Anglers In Put-And- Take Urban Fisheries <i>Thomas Hungerford</i>	Ecological Implications Of Abundant Cryptobenthic Reef Fish: Estimating Previously Unknown Life History Traits Of <i>Coryphopterus Personatus</i> (Gobiidae) <i>Nicolette Beeken</i>
4:20 PM	Creating And Keeping Volunteer Armies <i>Earl Conway</i>	Stock Enhancement Of Puerto Rico Reservoirs Before And After Hurri- cane Maria — Challenges And Opportunities <i>Maria De Lourdes Olmeda</i>				From Gulf To Gulf, How Can We Improve Ameri- can Eel Management? <i>Maele Cornic</i>	Managing A Small Public Impoundment For A Trophy Channel Catfish Experience <i>Marcos J. De Jesus</i>	Factors Influencing Migra- tions Of A Prairie Stream Fish: A Case Study Using <i>Machyobopsis Australis</i> <i>David S. Ruppel</i>
4:40 PM	Development And Application Of A Politically Strategic Part- nership Expansion Matrix For Influencing State Reservoir Reinvestment Policies <i>Tom Lang</i>	Examining 21 Years Of American Shad Hatchery Contributions To The Spawning Stock In The James River, Va <i>Patrick McGrath</i>						Sauger (<i>Sander Canaden- sis</i>) Seasonal Habitat Use And Movement In The Arkansas River <i>Peter Leonard</i>
5:00-7:00 PM								
TCAFS Business Meeting								
Floral Hall A1								
6:30 PM– 7:30 PM	Pre-Banquet Social							
7:00-10:00 PM	Banquet, Auction, and Raffle							
							Moody Ballroom South Foyer	
							Moody Ballroom	

Sunday, 27th, Oral Presentations

	Floral Hall A1	Floral Hall A2	Rose	Wisteria	Jasmine	Ivy 1	Ivy 2
	Recovering America's Wildlife Act	Contributed	Embracing the Fisheries Opportunities in the Urban Landscape	Contributed	Considerations for New Supervisory Biologists	Contributed	Contributed
8:00 AM	Situational Examination Of Major Fish And Wildlife Funding Legislation Efforts <i>Tom Lang</i>		Keeping Fishing Relevant For Today's Urban Anglers <i>Mark Webb</i>				
8:20 AM	Overview Of The Texas Alliance And Statewide Efforts To Date <i>Rachel Rommel</i>	Toledo Bend Reservoir Spillway Repair: Moving Fish And Water On A Large Scale <i>Sean Kinney</i>	Family Education In Neighborhood Fishing Ponds <i>Michael Scherer</i>	Assessing Temporal Shifts In Lotic Fish Community Structure In The Upper Red River Basin <i>Trevor Starks</i>	Help Wanted: Hr Guidance For Replacing Yourself And Others <i>Cecil A. Jennings</i>	A Cryptic Invader: Snps Inform Asian Swamp Eel Management <i>Andrew T. Taylor</i>	Mercury Concentrations In Fishes From The Upper Paraná River Basin <i>Corey S. Green</i>
8:40 AM	Texas Native Fish Conservation Areas Network: A Framework For Planning And Delivery Of Conservation Investments Through The Recovering America's Wildlife Act <i>Timothy Birdsong</i>	Monitoring The Dispersal And Predation Of Stocked Rainbow Trout In An Alabama Tailwater <i>Sarah Baker</i>	Urban Fisheries Management In Dallas/Fort Worth, Texas <i>Cynthia Fox Holt</i>	Distributional Updates For The Calcasieu Painted Crayfish (<i>Faxonius hathawayi</i> Blacki), A Louisiana Endemic <i>Beau Gregory</i>	When Not To Improve- Considerations For Personnel Management <i>Robert Bringolf</i>	The First International Snakehead Symposium – News From The Front(S) <i>John S Odenkirk</i>	Mercury In Blood Of The Endangered Smallmouth Sawfish, <i>Pristis pectinata</i> . <i>Jim Geislerichter</i>
9:00 AM	Prioritizing Conservation Investments Through The Recovering America's Wildlife Act: Selection Of Estuarine, Coastal And Marine Fishes Of Greatest Conservation Need <i>Kelcee Smith</i>	Population Dynamics And Angler Preferences Of Crappie On An Aging Ozark Reservoir In Oklahoma <i>Josh Johnston</i>	Reaching Our Urban Anglers: The Growth Of Arkansas's Family And Community Fishing Program <i>Jessica Feitz</i>	Ecological Niche-Modeling Of The Sickle Darter (<i>Percina Williamsi</i>) Across Multiple Scales. <i>Kyler B. Heckle</i>	The Ins And Outs Of Budget Management—Navigating The Shell Game <i>Jim Long</i>	Attempting Biological Control Of White Perch In Oklahoma: Setting A Benchmark To Evaluate Success <i>Ashley Nealis</i>	Long-Term Recovery Of A Fish Community In An Acid Impacted Hydropower Reservoir <i>Dustin Smith</i>
9:20 AM	State Wildlife Action Plan Case Study: Use Of Biodiversity Collections In Conservation Of Species Of Greatest Conservation Need <i>Gary Garrett</i>	Development Of Standard Sampling Protocols For Crappie In Highland And Lowland Reservoirs In Arkansas <i>Andrew Yung</i>	Satisfaction Lies In The Effort, Not The Attainment: Sport Fish Resources And Angler Use And Experience In An Urban Small Impoundment Fishery <i>Augustin Engman</i>	Mountain Mullet (<i>Agorostomus monticola</i>) In Texas: Report Of A Recent Encounter In The Brazos River (Washington Co.) And An Overview Of Historical Records From Texas <i>Kole M. Kubicek</i>	Congratulations On Your New Project; Uhhh, Now What? <i>Mark W. Rogers</i>	Zebra Mussel Invasion Of Texas Lakes: Estimating Dispersal Potential Via Overland Transport <i>Josi Robertson</i>	Pah And Pcb Levels And Associated Biomarker Activity In Fish From Galveston Bay (Tx) Following Hurricane Harvey. <i>Beatrice Hernout</i>
9:40 AM	State Wildlife Action Plan Case Study: Conservation Of Prairie Rivers And Native Fishes In The Southern Great Plains Of Texas <i>Kevin Mayes</i>	Low-Frequency Electrofishing Of Riverine Habitats For Blue Catfish <i>Ictalurus furcatus</i> In The Arkansas River <i>Charles Jordan</i>	Understanding Responses Of Stream Fish Assemblages To Urbanization In The Southeastern United States <i>Emilee Briggs</i>	Studying Life History Of The Tennessee Dace (<i>Chrosomus tennesseensis</i>) To Determine The Best Conservation Practices For The Endangered Laurel Dace (<i>Chrosomus saylori</i>) <i>Shawna Mitchell</i>	Avoiding Common Pitfalls And Potholes When Navigating Purchasing And Procurement Systems <i>Micheal S. Allen</i>	Silver Carp Establishment In A National Wildlife Refuge And The Effect On The White River, Arkansas Fish Assemblage <i>Michael Eggleston</i>	The Legacy Of The Dead Zone For Demersal Fish Revealed By Natural Tags <i>Benjamin Walther</i>
10:00 AM	BREAK (Floral Hall Lobby, 2nd Floor)						

Sunday, 27th, Oral Presentations

	Floral Hall A1	Floral Hall A2	Rose	Wisteria	Jasmine	Ivy 1	Ivy 2
	Recovering America's Wildlife Act: The Grand Vision and Funding for Conservation Sarah Robertson	Contributed		Contributed	Considerations for New Supervisory Biologists Don Dennerline	Contributed	Contributed
10:20 AM	State Wildlife Action Plan Case Study: Multispecies, Watershed-Based Conservation Of Native Fishes In The Devils River, Texas Sarah Robertson	Round 2: A Four-Year Follow-Up Evaluation Of A Flathead Catfish Population Exposed To Hand Fishing Dominik Chilleri		Nekton Assemblages Associated With Live-Bottom Habitat In The Eastern Gulf Of Mexico Amanda Tyler-Jedlund	Safety Through The Eyes Of A Supervisor, Your New Lens Don Dennerline	Effects Of Silver Carp On Age-0 Fish Characteristics In Oxbow Lakes Of The Lower White River, Arkansas Joseph Kaiser	Black Gill Disease In White Shrimp (<i>Litopenaeus Setiferus</i>) In The Chesapeake Bay Jillian Swinford
10:40 AM	Leveraging Recovering America's Wildlife Act Funding To Support A Regional Research Framework For The Conservation And Management Of American Eel Stephen Curtis	Paddlefish Snagging At Fort Gibson Dam: A Unique Fishery In Oklahoma Adam Geik		Use The Freshwater Information Network (Fin) To Share Your Southeastern Fish Encounters With Others Bernie Kuhajda	Dealing With The Press – Being Reactive And Proactive Dennis Reacke	Analyzing Leap Characteristics And Burst Speeds Of Silver Carp (Hypophthalmichthys Molitrix) Using In Situ Video Analysis Ehlana Stell	A Coastal Health Index For The Northern Gulf Of Mexico: How Fisheries Contribute To Measuring Ecosystem Health Jenny Oakley
11:00 AM	State Wildlife Action Plan Case Study: Freshwater Mussel Conservation In Texas Clint Robertson	Evaluation Of The Use Of Alternative Plasma Biomarkers As Indicators Of Post-Release Mortality In Blacktip Sharks (<i>Carcharhinus limbatus</i>) Casey Zender		Estimating Detection Probability Using Multiple Gears For Least Darter And Sympatric Spring-Associated Species. Dusty Swedberg	Legal Considerations: Managing Issues And Problems Without Exposure To Institutional Or Personal Liability. Patricia Mazik	Population Characteristics And Simulated Exploitation Responses Of Common Carp (<i>Cyprinus Carpio</i>) In A Shallow, Eutrophic Lake April Lamb	Exploring Fisheries Aspects Of Large-Scale Habitat Restoration In Tampa Bay Kailee Schulz
11:20 AM	Restoring The State Fish Of Texas: Guadalupe Bass (<i>Micropterus Treculii</i>) Ryan McGillicuddy	Power Of Fishery-Independent Hooked Gear Surveys To Detect Abundance Trends In Reef Fish Populations Heather M. Christiansen		Practical Tool Or Shiny Penny? Using Fiber-Optic Distributed Temperature Sensing To Improve Evaluations Of Temperature Selection By Stream Fishes Skylar Wolf	Planning For The Unexpected: Strategies For Managerial "Whack-A-Mole" Carolyn Belcher	Modeling Abundance And Population Controls Of Bigheaded Carps In A Productive Southeastern Reservoir William T Wood	Spatial And Temporal Patterns Of Egress Displayed By Southern Flounder In The Galveston Bay Complex Christopher Steffen
11:40 AM	Activating Your Network For Conservation And Rawa Richard Heilbrun	A 26-Year Perspective On Spotted Sea Trout (<i>Cynoscion Nebulosus</i>) Age And Growth In The Western Gulf Of Mexico Heidi Heim-Ballew		Making A Splash With Freshwater Snorkeling Education Programs Craig Roghair	Maintaining Morale Once You Become A Supervisor Allen D. Martin	Evaluating Asian Carp Movement In The Tennessee River With Focus On Prohibiting Lock And Dam Passage Thomas Flanagan	Dynamics Of Symbiont Acquisition In Brain Coral Recruits Rebecca Gilpin
12:00 PM	ADJOURN						



Annual Meeting of the Southern Division American Fisheries Society

February 20-23, 2020 Little Rock, Arkansas

The Arkansas Chapter of the American Fisheries Society cordially invites you to attend next year's Southern Division Annual Meeting in the Natural State.

Little Rock, nestled in the heart of the Natural State, offers down-home hospitality with big city flair. The Marriot Hotel in downtown Little Rock will be our hosts the event. The Marriott is adjacent to Little Rock's River Market district, which hosts abundant cultural, entertainment and dining options. Little Rock also offers excellent trolley service for nearby attractions. For those interested in an extended visit, the "Natural State" offers world-class fishing, hiking, whitewater, and cultural experiences. Arkansas also offers excellent state and national parks ranging from the Crater of Diamonds State Park, the world's only public diamond mine, to the Buffalo River National Park, America's first national river.

The 2020 SDAFS Annual Meeting will bring professionals together to network and share knowledge in fisheries science and management. Speakers will present a broad range of topics at the plenary session, technical symposia, and contributed oral and poster sessions. An array of continuing education courses will also be offered.



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