

**2017 Annual Meeting of the
Texas Chapter
American Fisheries Society**



January 19th – 21st, 2017

Holiday Inn Downtown Marina

Corpus Christi, Texas

MEETING SCHEDULE

Thursday, January 19th

Registration (Foyer).....	1:00 pm to 5:00 pm
Continuing Education (Riviera 1-5)	2:00 pm to 4:00 pm
Student/Professional Mixer (Padre A-D)	5:00 pm to 6:30 pm

Friday, January 20th

Registration (Foyer).....	7:00 am to 5:00 pm
Pre-session coffee service	7:30 am
Welcome and Keynote Addresses (Riviera 1-5).....	8:00 am to 10:00 am
Technical Session (Riviera 1-5)	10:00 am to 10:30 am
Break (Padre A-D).....	10:30 am to 10:45 am
Technical Session (Riviera 1-5)	10:45 am to 12:00 pm
Student/Mentor Lunch	12:00 pm to 1:00 pm
Lunch (on your own).....	12:00 pm to 1:00 pm
Technical Session (Riviera 1-5)	1:00 pm to 3:00 pm
Break (Padre A-D).....	3:00 pm to 3:15 pm
Technical Session (Riviera 1-5)	3:15 pm to 5:00 pm
Poster Session (Padre A-D)	5:00 pm to 6:00 pm
Host Bar (Padre A-D)	6:00 pm
Raffle/Auction Social (Riviera 1-5)	6:30 pm to 10:00 pm
Dinner and Awards Presentations	

Saturday, January 21st

Past Presidents' Breakfast (Monty's Board Room)	7:00 am to 7:45 am
Pre-session coffee service	7:30 am
Technical Session (Riviera 1-5)	8:00 am to 10:00 am
Break (Padre A-D).....	10:00 am to 10:15 am
Technical Session (Riviera 1-5)	10:15 am to 11:30 am
Business Meeting (Riviera 1-5)	11:30 am to 1:00 pm
Adjourn.....	1:00 pm

THURSDAY, JANUARY 19th

Holiday Inn Downtown Marina

2:00 pm – 4:00 pm - Continuing Education Workshops

2:00 pm – 4:00 pm

- **Remote sensing using acoustic techniques – applications for habitat & fisheries assessments** *Emma Clarkson, Bill Rodney, Zach Olsen, and Adam Reimer (TPWD Coastal Fisheries)*

2:00 pm – 4:00 pm

- **Otolith microchemistry 101: an introduction for fisheries scientists** *Benjamin Walther, PhD, Matthew Altenritter, PhD (TAMU – Corpus Christi), and John Mohan, PhD (TAMU-Galveston)*

5:00 pm - 6:30 pm Student / Professional Mixer

FRIDAY, JANUARY 20th

Holiday Inn Downtown Marina

8:00 am Welcome – Randy Rushin, TCAFS President-Elect

8:10 am – 10:00 am Keynote Addresses

- **The 50-year water plan – how will Texas meet its future water needs?**
Dr. Robert Mace, Texas Water Development Board
- **Ensuring adequate water resources to sustain healthy aquatic ecosystems**
Cindy Loeffler, Texas Parks and Wildlife Department
- **Balancing the municipal, industrial, agricultural and ecological water demands in the Trinity River basin**
Glenn Clingenpeel, Trinity River Authority

10:00 am – 10:30 am Technical Session

10:00 am **Reproductive life history and host fish selection in *Fusconaia mitchelli* (False Spike), *Quadrula aurea* (Golden Orb), and *Quadrula petrina* (Texas Pimpleback)**

*Dudding**, J., and C. Randklev*

10:15 am **Rapid quantitative assessment to identify imperiled fishes**

*Hahn**, N., C. A. Craig, and T. H. Bonner*

10:30 am – 10:45 am Break

10:45 am – 12:00 pm TECHNICAL SESSION

- 10:45 am **Movements and demographics of Blue Sucker in the lower Colorado River, Texas**
*Acre***, M. R., T. B. Grabowski, D. Geeslin, A. Pease, and N. G. Smith
- 11:00 am **Comparison of two biometric methods for determining sex of Alligator Gar**
*McDonald**, D., J. W. Schlechte, and D. J. Daugherty
- 11:15 am **Residency and movement of Spotted Seatrout *Cynoscion nebulosus* on a restored oyster reef**
*TinHan***, T. C., J. A. Mohan, J. Sullivan, M. J. Dumesnil, C. F. Ruiz, and R. J. D. Wells
- 11:30 am **Modeling the responses of Alligator Gar populations to harvest: implications for conservation and management**
*Smith**, N. G., D. J. Daugherty, J. W. Schlechte, and D. L. Buckmeier
- 11:45 am **Effects of stocking density and feed rate on the growth of hatchery-reared juvenile Spotted Seatrout, *Cynoscion nebulosus***
*Fincannon**, A. N., R. R. Vega, D. M. Gatlin III, J. M. Fox, and B. D. Sterba-Boatwright

12:00 am - 1:00 pm STUDENT/MENTOR LUNCH or LUNCH (on your own).

- 1:00 pm **Parasite pressure or just plain bad luck: fitness costs of larval trematodes in two closely related Poeciliids with different reproductive strategies**
*Quintero***, E.
- 1:15 pm **Enhanced production of Red Snapper (*Lutjanus campechanus*) at a newly constructed artificial reef in the western Gulf of Mexico**
*Streich***, M. K., M. J. Ajemian, J. J. Wetz, and G. W. Stunz
- 1:30 pm **GoMexSI: Progress toward a valuable resource for fisheries managers, marine ecologists, and educators in Texas**
*Simons**, J.
- 1:45 pm **Managing commercial harvest of Eastern Oysters (*Crassostrea virginica*) in Texas – applying a 2-metric stoplight approach in Copano Bay, Texas**
*Mace**, C. E.
- 2:00 pm **Distribution, abundance, and life history of the Prairie Chub**
*Ruppel***, D. S., and T. H. Bonner
- 2:15 pm **The Medina Roundnose Minnow (*Dionda nigrotaeniata*): an assessment of its rangewide status and initial study of its ecology in a hill country stream**
*Smith**, R.

2:30 pm **Morphometrics as a descriptor of potential hybridization between the Prairie Chub (*Macrohybopsis australis*) and Shoal Chub (*M. hyostoma*)**
*Sotola***, A., D. Ruppel, T. H. Bonner, and N. Martin

2:45 pm **Capture stress and post-release survival of Blacktip Sharks (*Carcharhinus limbatus*) in the Gulf of Mexico recreational fishery**
*Mohan**, J., J. Hendon, E. Jones, B. Falterman, K. Boswell, and R. J. D. Wells

3:00 pm – 3:15 pm Break

3:15 pm – 5:00 pm TECHNICAL SESSION

3:15 pm **Hydroelectric dams in the tropics: impending threats to biodiversity and fisheries**
*Winemiller**, K. O.

3:30 pm **Reducing discard mortality in the northwestern Gulf of Mexico Red Snapper fishery**
*Tompkins***, A. K., J. M. Curtis, and G. W. Stunz

3:45 pm **Uses of American Water-willow (*Justicia americana*) by reservoir fishes and invertebrates in Lake Conroe, Texas**
*O'Hanlon***, R., F. Gelwick, and M. Webb

4:00 pm **Determining thermal tolerances of freshwater mussels in Texas**
*Morton***, J. N., and C. R. Randklev

4:15 pm **Tracking Atlantic Tarpon with scale chemistry**
*Walther**, B. D., and M. E. Seeley

4:30 pm **Relationships between climate, growth, and fisheries production in a commercially exploited marine fish from the Gulf of California**
*Reed***, E., B. Black, M. J. Román, I. Mascareñas, C. Lopez-Sagastegui, O. Aburto-Oropeza, K. Rowell, and B. Erisman

4:45 pm **TPWD's East Bay oyster restoration project: results and lessons learned**
*Rodney**, W.

5:00 pm – 6:00 pm Poster Session

6:00 pm - Host Bar

6:30 pm – 10:00 pm Awards Banquet & Raffle/Auction

SATURDAY, JANUARY 21st

Holiday Inn Downtown Marina

7:00 am to 7:45 am Past Presidents' Breakfast

7:30 am - Pre-session coffee service

8:00 am – 10:00 am TECHNICAL SESSION

8:00 am **Is low-profile worthwhile? Investigating the effect of low-profile artificial reef patch size on juvenile fish recruitment**

*Alder***, D. A., and R. J. Kline

8:15 am **Retention of visual implant elastomer (VIE) tags in two species of Great Plains minnows**

*Weiberg***, G. P., and G. R. Wilde

8:30 am **Effectiveness of removals of the invasive Lionfish: how many dives are needed to deplete a reef?**

*Selwyn***, J. D., P. Usseglio, A. M. Downey-Wall, and J. D. Hogan

8:45 am **Upstream passage plan for American Eel *Anguilla rostrata* at Toledo Bend Hydropower Dam, Texas-Louisiana, Sabine River, Gulf of Mexico**

*Mayer**, K., and A. Vale III

9:00 am **Giant Reed extract suppresses golden alga growth – a potential strategy involving the processing of one harmful invasive to control the growth of another**

*Patiño**, R., R. H. Rashel, A. Rubio, and S. Longing

9:15 am **Phylogenetic relationships between the members of the genus *Notropis* (Family Cyprinidae)**

*Vasquez***, R., L. Densmore, and G. Wilde

9:30 am **Utilizing accelerometer telemetry tags to compare Red Snapper (*Lutjanus campechanus*) behavior on artificial and natural reefs**

*Getz***, E. T., and R. J. Kline

9:45 am **Effects of environmental hypoxia on physiological, molecular, and epigenomic responses in a marine fish, Atlantic Croaker**

*Rahman**, M. S., and P. Thomas

10:00 am – 10:15 am Break

10:15 am – 11:30 am TECHNICAL SESSION

- 10:15 am **Are Age Estimates from Longnose Gar and Spotted Gar Sagittal Otoliths, Pectoral Fin Rays, and Branchiostegal Rays Accurate?**
Buckmeier, D. L., R. Snow, N. Smith, and C. Porter*
- 10:30 am **Influence of water temperature on feeding competition of spring-associated and riverine-associated fishes of the Edwards Plateau**
*Maikoetter**, J. D., C. A. Craig, and T. H. Bonner*
- 10:45 am **Degradation and temporal effectiveness of Ashe Juniper (*Juniperus ashei*) used as fish habitat in a Texas reservoir**
*Pavliska**, C., and M. J. De Jesus*
- 11:00 am **Population characterization of *Balistes capriscus* on northwestern Gulf of Mexico artificial reefs**
*Lee**, A. M., C. E. Cintra-Buenrostro, and J. D. Shively*
- 11:15 am **Evaluation of fish and invertebrate assemblages associated with Torpedograss (*Panicum repens*) in Lake Conroe, Texas**
*Mynatt**, C., F. Gelwick, and M. Webb*
- 11:30 am **Native fish conservation areas in the Chihuahuan Desert of Texas**
Garrett, G. P., T. Birdsong, B. Labay, and M. Bean*
- 11:45 am **Fish assemblage structure and associations on a spring flow gradient within the upper Nueces drainage basin**
*Craig**, C. A., and T. H. Bonner*

11:45 am – 12:00 pm Informal break

12:00 pm to 1:00 pm Business Meeting

1:00 pm - Adjourn

* *Professional presenter*

** *Student presenter*

POSTER PRESENTATIONS

The ratio of organic to inorganic nitrogen affects the growth of ichthyotoxic golden alga
*Rashel***, R. H., L. D. Williams, and R Patiño

Current status of Bluehead Shiner (*Pteronotropis hubbsi*) in Texas
*Thorn***, C., K. Gary, J. McWilliams, and C. Hargrave

An assessment of fish vulnerability to climate change
Craig, C. A., D. S. Ruppel**, and T. H. Bonner

Validation of environmental flow standards
*Beckman***, A. M., C. A. Craig, D. S. Ruppel, and T. H. Bonner

Validation of daily growth increments in otoliths of young-of-year Guadalupe Bass
*Williams***, H., T. Grabowski, S. Hill, and R. Verble-Pearson

Morphological variation among reproductive tactics in the Comanche Springs pupfish, *Cyprinodon elegans*
*McCann***, K., and J. Gumm

Drainage basin keys for inland fishes of Texas
*Craig***, C. A., N. M. Hahn, and T. H. Bonner

Identifying the most efficient host fish for the Texas Fatmucket (*Lampsilis bracteata*) for captive breeding
*Seagroves***, L. A., and A. N. Schwalb

Quantifying Alligator Gar (*Atractosteus spatula*) spawning habitat on the lower Trinity River, Texas
*Sterling***, K., and J. Jensen

Potential effects of climate change on fish-mediated nutrient dynamics in a small coastal plains stream
*McWilliams***, J. L., and C. W. Hargrave

Comparing the ichthyoplanktonic food web near three coastal inlets in the Texas Coastal Bend
*Bromschwig***, M., and S. Geist

Shared morphologies of spring-associated fishes of the Edwards Plateau
*Sotola***, V. A. **, C. A. Craig **, and T. H. Bonner

Comparative effects of high & low quality allochthonous input on stream food webs
*Sadeghian***, C., and C. W. Hargrave

Investigating sister species pairs in two fish genera as they relate to the biogeography of the northern Gulf of Mexico
*Hunt***, E. P., S. C. Willis, K. W. Conway, and D. S. Portnoy

Dynamics of an artisanal fishery in Río Dulce National Park, Guatemala

*Quintana***, Y., and C. Barrientos

Diversity of benthic macroinvertebrate communities at tributary confluences of the Pecos River

*Delaune***, K. D., S. Longing, and A. A. Pease

Aging swordfish using otolith chemistry

*Russell***, Z. R.

Effects of the Rincon Bayou pipeline on salinity in the upper Nueces Delta

*Del Rosario***, E. A. and P. A. Montagna

Is there a relationship between fish cannibalism and latitude or species richness?

Pereira, L. S., F. W. Keppeler**, A. A. Agostinho, and K. O. Winemiller

The importance of low salinity habitats for Red Drum

Torrance, L.**

Testing the effect of increasing crab trap escape ring size

*Carrillo**, N., and Glen Sutton

Impacts of Deepwater Horizon crude oil exposure on the swimming performance of juvenile and young adult Mahi-Mahi (*Coryphaena hippurus*)

*Mager**, E. M., J. D. Stieglitz, D. Nelson, R. M. Heuer, G. K. Cox, D. D. Benetti, D. A. Crossley II, and M. Grosell

An overview of biological monitoring on Texas artificial reefs

*Shiple**, B.

Quantification of Alligator Gar recruitment dynamics using a river-stage specific floodplain inundation model

*Hoeinghaus**, D. J.

Spatio-temporal trends of Alligator Gar *Atractosteus spatula* in Texas's bays and estuaries

*Pettis**, E. L.

Freshwater fisheries in the Usumacinta River Basin

*Rodiles-Hernández**, R., C. Barrientos, A. Espinosa-Tenorio, Y. Quintana, and M. Mendoza-Carranza

Introducing the Geist early life history lab at Texas A&M University, Corpus Christi

*Geist**, S. J., M. Bromschwig, P. Hajovsky, C. Camacho, and D. Hardin

The effects of the Texas drought of record on Bonnethead Shark, *Sphyrna tiburo*, abundances

*Macias**, R. J.

***Elops saurus* abundance trends along the Texas Gulf Coast**

*Collins**, C.

Habitat associations of juvenile Rio Grande Blue Sucker in the Trans-Pecos region of the Rio Grande

Miyazono, S., S. Fritts, T. B. Grabowski, B. Grisham, K. Mayes, S. Magnelia, and P. Bean*

Evaluating the factors associated with the spatial and seasonal distribution of spawning female Blue Crabs (*Callinectes sapidus* Rathburn) in the coastal waters of Texas

Anderson, J., C. Gelpi, Z. Olsen, G. Sutton, D. Topping, and T. Wagner*

Population size and dispersion patterns of Bluehead Shiner within Iron Ore Lake and Pruitt Lake, Texas

Hargrave, C., K. Gary, C. Thorn, and J. McWilliams*

Fish assemblages structure across a habitat gradient in the Big Cypress drainage, Texas

Gary, K., C. Thorn, J. McWilliams, and C. Hargrave*

Monitoring biological response to *Arundo* (*Arundo donax*) management in the upper Pedernales watershed

Curtis, S., M. McGarrity, and A. Grubh*

Influence of freshwater inflow on the distribution of Atlantic Rangia and Water Celery within the Trinity River delta, Galveston Bay

Guillen, G., J. Oakley, M. Gordon, C. Scanes, and N. Johns*

Texas Blue Crab Fishery Management – Past, Present, and Future

Wagner, T.*

A Multifaceted Approach to Combating Zebra Mussel Invasions in Texas

Arterburn, H. M., M. McGarrity, and C. Pavliska*

Effects of pH and salinity on juvenile hatchery reared Red Drum (*Scianops ocellatus*)

Norris, B., F. Pezold, R. Vega, J. Fox, A. Siccardi, and D. Portnoy*

Biological Profile for Tripletail in the Gulf of Mexico and the Western Central Atlantic

VanderKooy, S. P. Mickle, J. Harper, K. Shipley, K. Aplin, C. Kalinowsky, J. Adriance, C. Hebert, J. Franks, C. Adams, W. Mancini, and J. Rester*

Reproductive isolation and hybridization between the Red River Pupfish and Sheepshead Minnow

Gumm, J., C. Becher, K. Ayers, and G. Wilde*

* Professional presenter

** Student presenter

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