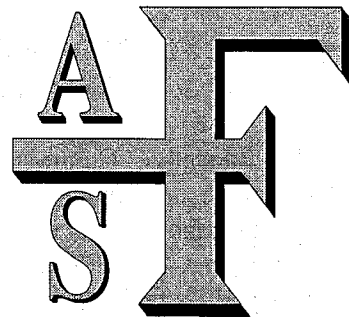



The Newsletter of
the Texas Chapter of
the American Fisheries Society



Volume 20 (3)

July 1994

A GESTALTIC CHALLENGE!
the SHADOW GAME


You'll find silhouettes of fishes at the end of each article (or articlette). Fill out the ID form on page 8 and bring it to registration at the Annual Meeting. Whoever gets the most correct answers gets praise and also wins a brand new rod and reel. Ties will be settled by drawing. Good nomenclatural luck. 

THE TCAFS ANNUAL MEETING
THE PLACE TO BE IN 1994

(a mini-recap of previously detailed material)

The meeting this year may be the biggest ever - we have a record 250 members! Be one of the attendees and share your fisheries wisdom. The meeting will be held at Lago Vista near Travis Lake, Texas. Registration will be from 4 to 6 PM on 7 September and from 8:30 AM to noon on 8 September. The technical session will begin at about 10 AM on 8 September and the evening events (food frolic, refreshment reduction, auction action, raffle ruckus) will begin a bit after the technical session ends. The morning (8:30 AM) of 9 September will bring us a business meeting followed by an exciting panel discussion on Clean Water. Make your reservations **immediately**: call 1-800-288-1882 for a condo (\$87 for three persons) at Lago Vista or 1-800-252-3040 for a room (\$55) at The Inn on Lake Travis.


On 7 September, let your astounding athletic abilities amaze all at a golf tournament (call Clell Guest, 817-732-0761), a fishing tournament (call Dave Terre, 512-353-0072 or 512-396-1948), or a diving adventure (call Loraine T. Fries, 512-353-3492).

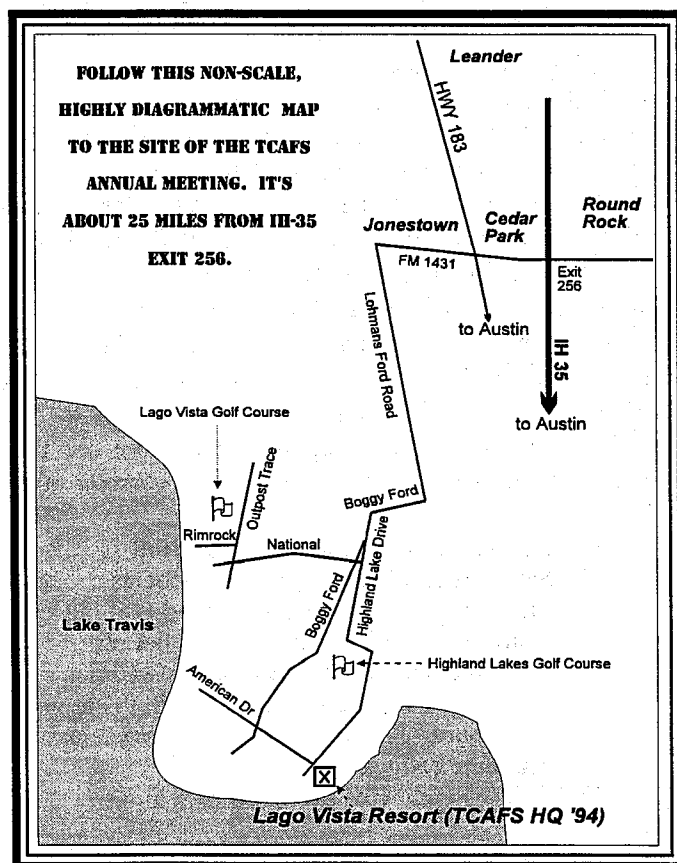
For more meeting information, call the program coordinator, our elected President-Elect, Pat L. Hutson, at 512-353-0313. 

FINAL CALL FOR PAPERS

This is the last request for those intending to present something at our Annual Meeting. Send an abstract in. Follow the format of **Transactions of the American Fisheries Society**.

Please send abstracts, by **19 August 1994**, to:

Bob Edwards
Department of Biology
UT- Pan American
Edinburg, TX 78539 



EXCOM MEETING MINUTES

by Kathy Ramos

An Executive Committee (EXCOM) meeting was held on 18 July at 1 PM in San Marcos. Attendees were Loraine Fries, Pat Hutson, Bobby Whiteside, Barry Lyons, Mark Webb, Mark Stacell, Earl Chilton, Beverly Villarreal, Ronnie Pitman, Joe Fries, and Kathy Ramos. Howard Elder attended as a guest from the Texas A&M Student Chapter.

Committee Reports

The Awards Committee reported that nomination forms for "Fisheries Worker of the Year" would be published in the upcoming newsletter. Barry Lyons reported that there will be three scholarships awarded this year.

We discussed ways to increase TCAFS visibility at universities and get the word out about the scholarships. Beverly Villarreal completed displays that will be posted on university bulletin boards. The information will be updated periodically and will stress the benefits that the Texas Chapter can offer students.

According to Ronnie Pitman membership is up to 250 and still growing. We discussed increasing our interaction with student chapters and subunits. Howard Elder was able to provide some valuable insights. It was decided that time would be set aside at the upcoming meeting to discuss, with students, ways in which the Chapter could better address their needs.

Brian Blackwell retired as chair of the Editorial Committee. Bob Edwards, of Pan American University, has agreed to assume the responsibilities of chair. Brian was able to complete the Annual Proceedings of the Texas Chapter before he left for South Dakota. These will be distributed at the meeting in September.

Exotic species research is ongoing. Mark Webb advised the EXCOM that summaries of these projects will be made available to the Chapter membership.

The Issues Committee reported that there are three issues that need to be considered by the Chapter at this time:

- (1) Changes to the Texas Parks & Wildlife Department's (TPWD) Exotic Species regulations. It has been proposed that the department change from using a list of prohibited species to using lists of species allowed and allowed with a permit. This change would make it easier to regulate exotic species introductions.
- (2) TPWD would like the Chapter's input

regarding the use of Asian Black Carp to control mollusks.

- (3) Red River Chloride Control Project. There is currently a proposal to make water coming into Lake Texoma fresher, by removing chloride ions, so that it can be used for irrigation. These issues will be brought up for discussion at the upcoming meeting.

Joe N. Fries will be retiring as Newsletter Editor after the Annual Meeting in September and Steve Magnelia has graciously agreed to assume the duties of the position. A motion was passed that the Chapter purchase desktop publishing software for the newsletter so that the quality will remain consistent. The software will be passed on from one editor to the next.

Bobby Whiteside is looking for nominations for the office of president. The Chapter will hold an election for this office at the meeting in September. Please contact either Bobby or Roger McCabe if you would like to make a nomination.

The EXCOM received the first draft of the new Procedures Manual and will be forwarding edits and comments to Joan Holt. The purpose of this manual is to make the transition easier for new officers and committee chairpersons.


Mark Stacell reported that the Publicity/Exhibits Committee has raised \$900 in donations of cash and merchandise. Some of these funds were earmarked by the donors for scholarships only and will be added to the endowment fund. The committee plans to contact river authorities throughout the state increase participation in Chapter activities by these groups.

The Urban Fishing Committee has the final draft of the Guide to Urban Fishing Programs manuscript ready to go to print. The plan is to print approximately 100 copies and then make revisions after they have been used in actual situations. Lance Robinson is heading up a group of three volunteers that will be working on the Texas Fisheries Workers Directory. The goal of this directory will be to list all people in the state working in fisheries professions and should include graduate students as well as Texas Chapter AFS members.

Old and New Business

Steve Magnelia sent a thank you letter to the Chapter for the donation of funds for the construction of a Bass Tournament Weigh-In Kit. The kit will be on display at the meeting at Lago Vista. Pat Hutson will work on having a decal of the Chapter logo donated and affixed somewhere on the kit. Motions were passed and

EXCOM MEETING MINUTES (continued)

seconded for the Chapter to have notepads and T-shirts with our logo available at the annual meeting. Since our membership is up, the Excom decided to look into using non-profit bulk mailing rates in order to reduce postage costs. The meeting was adjourned at 4 PM by President Loraine Fries. 

THE SHOCKING PAST

We read about potential problems associated with electroshocking fish in the last newsletter, Volume 20(2), but these pale in comparison to the possibilities with a technique mentioned in a 1937 article called "Shocking the Fish" (Progressive Fish-Culturist 31:36-38). The paper describes an experimental method for reclaiming trout waters in a 10-acre lake in California.


"As late summer approached various old abandoned wire fences and telephone lines in the vicinity began to disappear. Curious hikers came from Lower Loch Leven Lake wanting to know why lines of wire were being stretched from tree to tree across the lake."

"The signal...sounded. Current flowed out over more than half mile of...wire."




Sounds like they really shocked those "rough" fishes. Well, they did, but not in the manner you might expect - 10 to 20 dynamite sticks had been suspended from the wires at 100-foot intervals and "ten acres of water were lifted skyward."

"Yes, the Cisco Sports Club learned how to get rid of rough fish. Other clubs, and perhaps some of the governmental agencies interested, will use our method in the future. It is simple. It is not too costly."

Of course, proper preparation is necessary...

"Publicity was avoided as a matter of safeguard against sightseers getting blown up along with the lake's population." 

ANOTHER SHOCKER

Mention is made of a hatching technique in the 1936 Progressive Fish-Culturist 16:19. Over in Italy culturists claimed 100% hatch using the following method: "eggs are placed in a salt solution and the electric current is then turned on." Wonder if we'd need a permit for that?   


OPPORTUNITY TO BE AN OVERSEAS VOLUNTEER

by Kathy Ramos

Calling all fisheries professionals! Have you been bored lately? Want to have an exciting adventure overseas without signing up for a tour with the armed forces? Consider volunteering with Volunteers in Overseas Cooperative Assistance (VOCA). VOCA was founded in 1970 as an international people-to-people volunteer organization committed to strengthening democratic institutions, enhancing economic opportunities of cooperatives and agriculturally-based enterprises, and improving the environment of rural communities. The types of projects are many. They include production agriculture, food processing and marketing, cooperative formation and strengthening, agribusiness development, farm management, agricultural extension, and environmental and natural resource management.

In response to a worldwide increase in technical assistance requests in the natural resources arena, VOCA is currently working to expand its volunteer database by recruiting a wide range of specialists with natural resource management expertise. Volunteer skills are needed in areas such as institution building, agroforestry, watershed management, biodiversity, ecotourism, coastal zone management, alternative energy, forest management, land use planning and conflict management.

In fiscal year 1993, 40% of VOCA project assignments were in the newly independent states of the former Soviet Union and 38% in Central and Eastern Europe. Volunteers also have worked in Latin America, the Caribbean, Near East, Asia and Africa. Assignments may last from two to twelve weeks. VOCA and the requesting overseas organization pay all volunteer expenses, including travel, lodging and meals. If you would like more information or a volunteer application, contact:

Julie A. Holt
Regional Recruiter
VOCA
50 F Street
NW Suite 1075
Washington, DC 2001
800-929-8622. 

Kathy T. Ramos
P.O. Box 947
San Marcos, TX 78667
512-353-3492

Primary production in estuaries is about 14 times that of the open ocean and is essentially equivalent to primary production in tropical forests.

CURRENT AQUATIC RESEARCH PROJECTS FROM AROUND THE STATE

by Beverly A. Villarreal

This installment highlights work being conducted at Texas Tech University, Texas Parks and Wildlife Department (TPWD) Hatcheries, The University of Texas at Arlington, West Texas A&M University, Stephen F. Austin State University, and Baylor University.

The Texas Cooperative Fish and Wildlife Research Unit, Texas Tech University, Lubbock

- Movements, habitat use, and activity patterns of flathead catfish in Buffalo Springs Lake via ultrasonic telemetry. (Dr. Jim Winter, Rob Weller)

- Effects of aquatic herbicides on juvenile largemouth bass as measured by stress physiology. (Dr. Jim Winter, Beth D'Silva)

- General studies on the effects of aquatic herbicides and mechanical harvesters on macrophytes and fish. (Dr. Jim Winter)

- The effectiveness of striped bass and hybrid striped bass in controlling gizzard shad populations in reservoirs. (Dr. Jim Winter)

- Evaluation of fisheries in urban lakes and ranch ponds in West Texas. (Dr. Jim Winter)

- Use of radio and ultrasonic telemetry techniques for monitoring aquatic organisms (Dr. Jim Winter)

- Utilizing cattle manure to produce algal protein based fish feed in the Texas High Plains. (Dr. N.C. Parker, Dr. C.B. Fedler, Joe Vondracek)

- Lubbock fishery improvement program. (Dr. Jim Winter)

- Effective stocking densities of triploid grass carp for control of aquatic vegetation in small ponds in the Texas Panhandle. (Dr. N.C. Parker, Michael Brice)

- Intensive stocking rates of striped bass and hybrid striped bass to improve the forage value of gizzard shad in two highly eutrophic West Texas reservoirs. (Dr. N.C. Parker, Michael Brice)

- Evaluation of rearing temperature of fry as method for controlling sex of channel catfish. (Dr. Reynaldo Patiño, Cevdet Uguz)

- Establishment of a transgenic fish research program at Texas Tech University. (Dr. Reynaldo Patiño, Wei Jin)

- Constructed wetlands. (Dr. N.C. Parker, Dr. C.B. Fedler)

TPWD, A.E. Wood Hatchery, San Marcos

- Comparison of cottonseed meal and alfalfa meal as

organic fertilizers of fingerling Florida largemouth bass production in plastic-lined ponds. (Mark Stacell, Dennis Smith, and Bill Bowling)

- The effectiveness of salt and formalin in the control of fungus (*Saprolegnia*) in koi carp eggs. (Susan Froelich and Ted Engelhardt)

- Examination of fluctuating asymmetry in two species of hatchery-reared fish. (Loraine Fries)

- Addition of corn meal to channel catfish rearing ponds to improve production efficiency. (Steven Hamby, Bill Bowling, and Loraine Fries)

- Florida largemouth bass raceway spawning observations. (Jake Isaac, Vernon Staats, Bob Bagley and Max Kimmel)

- The effects of sinking vs. floating feed on water quality, growth, and feed conversion of channel catfish fingerlings produced in plastic-lined ponds. (Mark Stacell, Joe Warren, and Greg Hall)

- Influence of cleaned vs. uncleaned plastic-lined ponds on production of Florida largemouth bass. (Mark Stacell, Dennis Smith, and Bob Bagley)

- Investigation of the vitamin C status of A.E. Wood Hatchery-produced channel catfish fingerlings and the implication of the findings to recurring production problems. (Beverly Villarreal, Katherine Ramos, and Loraine Fries)

TPWD, Dundee Hatchery, Electra

- Comparison of cottonseed meal and alfalfa meal for fertilizing striped bass production ponds. (Tom Dorzab, David Holub, and Jon Meade)

- Effects of three fertilization regimens on water quality and striped bass fingerling production in plastic-lined ponds. (Aaron Barkoh)

TPWD, Jasper Hatchery, Jasper

- Comparison of cottonseed meal and alfalfa meal for fertilizing crappie spawning and rearing ponds. (Gerald Kurten, Neil Thompson, and Lee Hall)

- Comparison of cottonseed meal and alfalfa meal for fertilizing Florida largemouth bass spawning and rearing ponds. (Gerald Kurten, Neil Thompson, and Lee Hall)

TPWD, Possum Kingdom Hatchery, Graford

- Comparison of cottonseed meal and alfalfa meal for fertilizing hybrid striped bass production ponds. (Brian Burma and Glen Alexander)

TPWD, Tyler Hatchery, Tyler

- The effect of prey size on Florida largemouth bass future broodfish growth and prey utilization. (Deborah Wade and David Campbell)

AQUATIC RESEARCH (continued)

West Texas A&M University, Canyon

•Ecology of *Graptemys caglei*--proposed species for threatened status. (Flavius C. Killebrew)

Stephen F. Austin State University, Department of Biology, Nacogdoches

•A study of the effect of oil field run-off on streams in the Sabine National Forest. (Greg Rogers, Lance Mason, Uli Martin, and Boyd Guthrie)

•The movements of the grass carp stocked in a power plant reservoir, using radio-telemetry. (John Hanks)

•A survey of fish species in ox-bow lakes of East Texas and Louisiana. (David Cowin, Robert Brenner, Steve Scoggin, Todd Hynson, and Corey Mackey)

•A survey of fish species in 10 streams in the Davy Crockett National Forest. (Jess Kelly and Todd McGowin)

•A study of the feeding habits of larval largemouth bass in the Tyler fish hatchery. (Jessica Franks)

•A survey of the fresh-water mussels in streams in the Davy Crockett and Angelina National Forests. (Dana Feaster)

•A study of the limnological features of Athens Reservoir. (Jess Stringer, Jeff Teague, Kurt Fleener, and Bill Costanza)

•A study of the effects of an annual draw-down of Nacogdoches Reservoir on water chemistry and *Hydrilla* growth. (Jeff Ward and Henry McLaurine)

•A limnological study of Bouton Lake and Little Bouton Lake in the Angelina National Forest. (Mike Krause)

•A study of the water chemistry, heavy metals concentrations, and the benthic macroinvertebrate community structure in two streams near a deep well, toxic waste disposal facility. (Trevor Loveday and Brady Crouch)

Baylor University, Department of Biology, Waco

The Biology Department offers M.S. and Ph.D. degrees in aquatic biology and a M.S. in limnology. Research areas of faculty members include:

Ecology of the benthos with emphasis on disturbance to community structure. (Darrell Vodopich, Associate Professor)

Pond ecology with emphasis on factors regulating phytoplankton growth. (Mark Taylor, Assistant Professor)

Microbial ecology with emphasis on heavy metal pollution of tropical lakes. (Laura Dávalos-Lind, Coordinator Chapala Ecology Station)

Lake and reservoir ecosystem structure with emphasis on food web dynamics. (Owen Lind, Professor)

The University of Texas at Arlington, Center for Fish Studies, Department of Biology, Arlington

•Gene structure determination of fish red blood cell carbonic anhydrase. (Dr. Whitmore, Daisy Wang)

•Fish mitochondrial genome explorations and implications to evolution and structural requirements of fish inhabiting various environments. (Dr. Whitmore's lab)

•Water temperature and oxygen content preferenda of largemouth bass. (Donald Wilhelm, Dr. Smatresk)

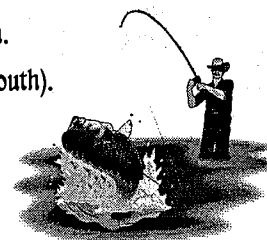
•The role of catfish chemoreceptors in the regulation of respiration. (Mark Burleson, Dr. Smatresk)

Submit a synopsis of your group's current aquatic research efforts to:

Beverly Villarreal
A.E. Wood Hatchery
P.O. Box 947
San Marcos, Texas 78667.



El pez muere porque abre su boca.
(The fish dies because he opens his mouth).
Old Spanish Proverb



ARTISTS AND CRAFTERS - GET BUSY!


The Annual Meeting is upon us soon and the Chapter needs you to freely donate MemberMade™ items such as hand-sculptured ducks, stained-glass works, and anything else that can be auctioned. ←

The average temperature of the air surrounding this planet is about 15 °C (59 °F). In this air, krypton molecules are about twice as common as hydrogen molecules (1.1 ppm vs. 0.5 ppm)

COMPUTERS AND COMMUNICATION IN OKLAHOMA: CONTINUING EDUCATION

The Oklahoma Chapter of the AFS is offering its first continuing education program to be held in conjunction with Oklahoma's Annual Chapter Meeting. The meeting and course will be held at the University of Oklahoma Biological Station on Lake Texoma. The two half-day short courses, "Computer Applications in Fisheries Research and Management" and "Effective Communication Skills," are being offered on Saturday, 1 October 1994. Cost is \$50 (\$25 for students). TCAFS member Gene Wilde will be teaching one of the short courses and Eugene Decker, of Colorado State University, will be teaching the other short course.

Technical sessions for Oklahoma's Annual Meeting are being held on 30 September 1994. The theme is "Sampling Methods: Are We the Best We Can Be?" Come a day early for the course and participate in Oklahoma's Annual Meeting.

For more information contact Jeff Boxrucker at 405-325-7288. 

THOSE OLD FISH LAWS

The U.S. Department of Commerce published its first summary of game fish laws in 1932 (Fishery Circular No. 9). Some of the regulations for **Texas** follow.


Licenses - non-resident, \$5; resident, \$1.10.
Limits - black bass, 11"; crappie, 7"; rainbow trout, 14" (no more than 5 in one day); speckled sea trout, 12"; redfish, between 12" and 32"; drum, between 8" and 20"; flounder, 12"; sheepshead, 8"; pompano, 9"; Spanish mackerel, 14"; salt water gaff-topsail, 11"; terrapin, 6", green turtles, 12 pounds; shrimp, 5.5".

In May, 1929, the State's court of criminal appeals said Texans can fish in their own private ponds anytime they want, regardless of State closed seasons.

Fishing with artificial bait during March and April is unlawful.

Black bass and crappie can be taken only from 1 May to 29 February.

The use of explosives for taking fish is prohibited.

Laws change. 

MEETING ANOUNCEMENTS

21-25 August 1994

The 124th AFS Annual Meeting, "Managing Now for the 21st Century: Food, Recreation, Diversity."

Contact:

Paul Brouha, AFS
301-897-8616 (FAX ...8096)

6-9 September 1994

Trout Unlimited Canada's 1994 International Trout Stream Habitat Improvement Workshop.

Contact:

Garry Szabo
403-221-8365

8-9 September 1994

The Annual Meeting of the Texas Chapter of the American Fisheries Society

Contact:

Pat L. Hutson
512-353-0313

28-30 September 1994

Watersheds '94 Expo.

Contact:

Andrea Lindsay, EPA
206-553-1896 or 800-424-4EPA

23-26 October 1994

48th Annual Conference of the Southeastern Association of Fish and Wildlife Agencies

Contact:

(fisheries)	(non-game)
Mark Konikoff	Brian Chapman
318-231-6754	706-542-3929

4-7 December 1994

56th Midwest Fish and Wildlife Conference

Contact:

Debbie Fairhurst
317-232-7535

The whale shark is the largest fish on the planet - it can be up to 15 m (50 ft) in length. This planktivore occurs worldwide in tropical seas.

STOCK TRANSFERS: TCAFS POSITION STATEMENT

by Loraine T. Fries

I feel as though I have been embroiled in controversy regarding the draft AFS position statement, "Protecting Genetic Resources of Aquatic Organisms: Elimination of Stock Transfers." No doubt about it, the draft position statement that appeared in the December 1993 issue of **Fisheries** proved to be contentious! It turns out that AFS Executive Committee (EXCOM) approval of this statement was not the actual goal: rather a point-counterpoint debate program at each of the Division meetings was requested.

Some of you may recall that in the last Newsletter (Volume 20:2), we published an excerpt of the Fish Culture Section's (FCS) response and expressed an inclination to support that response. A few TCAFS members felt strongly enough to write to me about support of the original draft statement of Philipp et al. (non-support for the FCS response) - so, with counseling from the TCAFS EXCOM, a poll of 50 randomly selected members was conducted. Each of these members received a copy of the original draft, a copy of the FCS response, and a self-addressed stamped ballot. Only 27 (54%) ballots were returned and six of those were received past the deadline! Five persons (19%) voted to support the original draft statement of Philipp et al. and the remaining 22 (81%) voted to support the FCS response.

Consequently, I wrote to AFS President Ray Hubley expressing a desire to join the FCS and others in advocating extensive modifications of the original draft position statement of Philipp et al. Copies also were sent to AFS Executive Director Paul Brouha, Southern Division President Larry Wilson, Genetics Section President Fred Utter, and FCS President Brian Allee.

Fred Utter updated me on the situation. The Genetics Section drafted a position statement on genetic concerns for hatchery programs and hatchery roles in fishery management. This position statement carries no official status but was intended as a consensus of the views of the section members participating in the Albuquerque symposium. I was gratified to see two of my favorite soapbox issues, inbreeding and domestication, mentioned within this statement. While the text is too lengthy for our newsletter, here are some of what I considered highlights:

Conflicting goals resulted in polarization that is represented by "hatchery bashers" and "fish dumpers."

An emerging middle ground is based on shared concerns for understanding and application of genetic and ecological principals.

Native populations must be identified to be protected.

Stocking should not be permitted without adequate biological assessments.

Maintenance of large hatchery broodstocks to support extensive releases may continue if monitoring fails to detect measurable impact on healthy native populations of a region.

Irreplaceable native populations imperiled by past and present hatchery practiced may necessitate the cessation of stocking and, where possible, non-native fish may be eradicated.

Replacement of exotic hatchery populations may be desirable provided guidelines to prevent excessive genetic losses through inbreeding and domestication.

The Genetics Section supports a cooperative rather than polarizing approach to interface conservation and cultural activities based on a commitment to shared responsibilities.

Copies of the Genetics Section position statement are available upon request. For additional information contact:

Loraine T. Fries
P.O. Box 947
San Marcos, TX 78667
512-353-3492



TCAFS GOLF TOURNAMENT

by Clell Guest

The TCAFS **Celebrity Golf Tournament** will be held at Lago Vista's famous golf resort on 7 September 1994 at 2 PM. Tournament format will be a Scramble with 2-, 3-, or 4-man teams, depending upon participation. Green fees, including golf cart, are \$25. A \$5 fee for prizes also will be required. Please contact Clell Guest at 817-732-0761 or 817-737-6931 as soon as possible if you plan to play. The course is beautiful and we will have a lot of fun.



FISH IDENTIFICATION FORM


(bring to TCAFS Annual Meeting registration)

The titles below are grouped by page occurrence. Once you (one brain per form, please) have figured out the common name of the fish at the end of an article, write your guess on the corresponding line in this form. Do NOT give scientific names (they will count as blanks), but do try to follow AFS suggestions for common names. Try to be as specific as possible (e.g., "threadfin shad" rather than just "shad") although in many cases the species are not determinable.

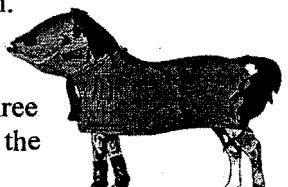
The fine print.—Contest judges will be selected by myself, the NEWSL-ED. Of course, these human judges cannot vie for the rod and reel set. The winner will be announced at the Business Meeting on 9 September 1994. You must be present to win. You must be an active TCAFS member and over 18 years of age to win. The judges' decisions will be final. This offer is valid only in Texas. This offer is void in any state besides Texas. The prize is subject to minor changes without notice.




Article/Articlette	Fish
A Gestaltic Challenge! The TCAFS Annual Meeting Final Call For Papers	_____
Excom Meeting Minutes The Shocking Past Another Shocker Overseas Volunteer	_____
Current Aquatic Research Artists and Crafters-Get Busy!	_____
Computers & Communication Those Old Fish Laws	_____
Stock Transfers TCAFS Golf Tournament	_____
Onion Ring Catfish The San Marcos TX Station	_____
President's Message TCAFS - Presidentless? Wanted - Merchandise	_____
Pellet Size and Feed Rate Annual Meeting Diving Redear Sunfish Data Needed	_____
Last Minute Meeting Info Two For One! Outstanding Fisheries Worker	_____
Sea Monkeys in Space Publication Announcement	_____
The Original Fish Trips Farewell From the Newsl-Ed	_____

ONION RING CATFISH

This recipe is for those who are willing to not work hard on making a tasty meal. Take out one or two frozen catfish fillets. Thaw them in water in a shallow dish. Blot dry with a paper towel. Place them on a microwavable plate, making sure to keep the thicker parts near the outside of the plate (cut the fillets if necessary). Open a can of French Fried Onion Rings and sprinkle some on the fish. Then sprinkle on some paprika. Place wax paper over the fish. Microwave on high until the thicker parts are white and flaky (generally a few minutes). Eat and enjoy and then pretend that you've spent a lot of time preparing your dinner. 

THE SAN MARCOS TEXAS STATION

Around the turn of the century a federal hatchery, called the San Marcos Texas Station (1908 Transactions of the AFS:75-78), was located near the springs of the San Marcos River. Near the Station was "the hill...crowned by a very handsome state building known as the Southwest Normal School of Texas." The Station produced largemouth bass, "two crappies, bream, warmouth bass, and rock bass." Successful hatchery production required "the very best breeding fish to start with. Not the very large and possibly old fish, but fish that will run from two and one-half to three pounds, well proportioned; not the long race horse kind." 

Some things change while other things stay the same. The "Station" (now the "San Marcos National Fish Hatchery and Technology Center") is no longer adjacent to the springs of the San Marcos River and raises a different group of critters, including non-game fishes and amphibians.  
The "school on the hill" (was that a Beatles' song?) is no longer "Normal" and has become the "Southwest Texas State University." On the other hand, a hatchery still needs to use the very best brooders they can. The meaning of best, however, is changing: invisible things such as genetics are visibly being considered. Selection in fish culture whose product is destined for the wild may become de-selected. 

PRESIDENT'S MESSAGE

by Loraine T. Fries

At one time I thought it would never get here but the end of my term as president of the Texas Chapter is rapidly drawing to a close and this is, in all likelihood, my final presidential message. While it is not with regret that I leave "office," I will have many fond memories of my tenure. I believe the Chapter has gained a lot of ground in the past year, and I thank everyone who allowed this to happen. While I would like to think that maybe I had something to do with the progress we have made, I know it is really the membership, especially committee members, who deserve the credit and my thanks. I would like to share with you what I consider some of the highlights from the past year.



The meeting in Port Aransas was a resounding success. The Technical Session was great, the special symposium was lively, and the auction/raffle was one of, if not the, most successful ever. Thanks to everyone who made that meeting a success.

Membership has reached an all-time high. I hope the long-term members (including me) will have the opportunity to meet many of our new members at the upcoming meeting at Lake Travis.

Our newsletter made quarterly appearances and became informative and professional. Members even made contributions to it!

Wait until you see the 1993 Proceedings of the Texas Chapter of the American Fisheries Society. This, too, has set a new standard.

Volunteerism within the Chapter is what I would consider an all time high. Standing and ad-hoc committees have been active on their projects. Some members have contributed to the Chapter even without being on a committee. Keep up the good work!

We have invested our money so that the endowment fund has a real chance to grow and become self-sustaining.

For the second year in a row, the Chapter will support a scholarship from its own coffers. Wetlands Habitat Alliance of Texas (WHAT) also continues to fund two scholarships.


We are ready to publish the "Guide to Urban Fishing Programs."

Student Outreach is reaching out! Our Chapter is increasing efforts to recruit and support students.

As immediate Past-President, I will remain on the

Executive Committee for one more year. I would like to contribute to the Chapter by working in an area in which we have not yet excelled - continuing education for the membership. I would appreciate hearing from you on this subject.


Thanks again to all of you. It has been an honor and a privilege to serve as your President. I wish incoming President Pat Hutson much luck - with your continued support, Pat and the Chapter will be successful.

Hope to see you all at Lake Travis! 

TCAFS - PRESIDENTLESS FOR 1996?


Will the Chapter run headstrong with no heading? Can it be that the Chapter will sink like lead with no leader? Could the Chapter be a loss without a boss? Will the Chapter crash into a reef with no chief? Shall there be insurrection with lack of direction? Help terminate this seemingly endless onslaught of wrangling wordplay - go ahead and **nominate** someone for President-Elect! To save the Chapter from otherwise certain and inescapable doom, contact the honorable:



Bobby G. Whiteside
Southwest Texas State University
San Marcos, TX 78666
512-245-2284 

- WANTED - RAFFLE & AUCTION MERCHANDISE

by Mark Stacell


The Exhibits/Publicity Committee has had great success in soliciting donations for our social, but we could still use more stuff. If you have any hot leads on a business that might donate fishing gear, guide trips, etc., or want to set up an exhibit, please contact Mark Stacell or Max Kimmel (512-353-3492) or Camilo Chavez (409-238-1884). The more items we receive, the better the auction and raffle will be, and ultimately, the more money we can raise for Chapter activities. Thanks in advance for your help! 

PELLET SIZE AND FEED RATE AFFECTS EFFICACY OF MEDICATED FEED

summary by Mark Stacell

A recent study (Johnson and Smith, 1994. *Journal of Aquatic Animal Health* 6:53-58) on commercially prepared medicated feed demonstrated that both feeding rate and pellet size have significant effects on survival in diseased channel catfish fingerlings. The work was performed at Mississippi State University using Romet®-medicated feed to treat 70- to 100-mm catfish that had been infected with the bacterium *Edwardsiella ictaluri*. The major premise for the study focused on feed consumption. Commercially prepared Romet and Terramycin®-medicated feeds typically are produced to be fed at 1% of body weight, even though approximately 3% is the typical feed rate used by catfish producers. The authors suggest that decreasing the feed available during treatment can result in the more aggressive fish receiving most of the feed, and subsequently, less aggressive fish will receive a smaller dose or go untreated.


Following infection with *Edwardsiella*, fish were treated by feeding Romet-medicated feed (50 mg/kg of fish) of two different pellet sizes at two different pre-mix formulations. All four groups receiving treated feed had significantly higher survival than the non-medicated controls. Fish fed small pellets formulated at 5 kg Romet-30 premix per tonne had significantly higher survival than fish fed large pellets with the same formulation, or fish fed large or small pellets formulated at 15 kg Romet-30 per tonne. How could this happen? The answer, explained the authors, is a function of how many medicated pellets the fish receive: the more medicated pellets eaten, the higher the survival. The formulation of 15 kg/tonne provided a feeding rate of 1% of body weight; reducing the formulation to 5 kg/tonne allowed a feed rate of 3% of body weight (more feed had to be medicated to achieve the legal dose). The authors believe the increased survival occurred because the 3% feed rate allowed more medicated pellets to be available to more fish. Likewise, the formulation of 5 kg/tonne fed at the same rate as large or small pellets resulted in greatest survival in the fish fed smaller pellets; again because more treated pellets were available, even though the amount of Romet-30 did not change.

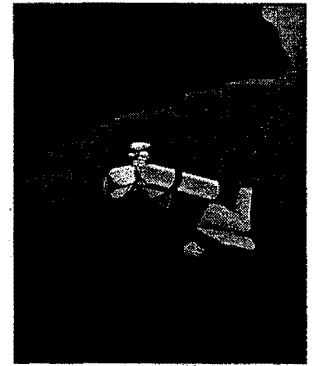
An additional benefit of the 3% rate feed rate was significantly higher growth than fish fed at 1% of body weight. The authors' findings tout a beneficial one-two punch for catfish fingerling producers: greater growth during treatment, and greater fish survival. 

ANNUAL MEETING DIVING ADVENTURE

Show up on 7 September with all your diving gear and your C-card at Windy Point Park, Lake Travis. Then join us in a freshwater "wall" dive. We'll meet at 4 PM and plan our dive. Then we'll gear up, do a buddy check, and gracefully enter the water using the wooden



staircases. We can explore the sunken boats, sculptures, and maybe even see a fish or two. Advanced divers can swim through an inundated grove of pecan trees (at the cold depths of 100-130 feet). If you would like more information or would like to attempt to arrange for a dive buddy, call Loraine T. Fries or Susan Froelich (512-353-3492) or Joe N. Fries (512-353-0011). 




REDEAR SUNFISH DATA NEEDED

by John Moczysgemba

Kevin Pope, who is at the Northern Plains Biostress Laboratory, South Dakota State University, is looking for some help with redear sunfish. He states, "Although there is a standard available for this species, there remains some skepticism as to its validity. Therefore we are soliciting data for this species in an attempt to either validate the standard or to provide the management community with an unbiased *Ws* equation." He needs length-weight information for redear sunfish by population in any sample size. If possible he could use the capture date (or at least season) and sampling gear. He will take the data in hard copy but would like it on IBM-compatible computer diskettes (e.g., ASCII, Lotus, Symphony, Smartware, dBase, or Quattro format). He promises to acknowledge your contribution and will send a copy of the results to you.


Send the data to :

Kevin Pope
Wildlife and Fisheries Sciences
Northern Plains Biostress Laboratory 138
Box 2140B
South Dakota State University
Brookings, SD 57007-1696 

LAST MINUTE MEETING INFO

by Pat L. Hutson

The condominiums will accommodate three people and it will be necessary to fill each room to be sure that there are adequate rooms. If individuals do not have roommates then Lago Vista will make assignments.

There will be complementary sausage and chips in condo #1 (my room) on Wednesday (7 September) for early arrivals and people participating in the golf and fishing activities. The hospitality refreshments will be provided by HUTSON METAL CRAFT and PORTS WELDING. 

TWO FOR ONE!

by Ronnie Pittman


Have we got a deal for you! Last year we started collecting Texas Chapter dues through the parent society and since they operate by the calendar year, we decided to switch over to this mode of dues collection. Bottom line - if you paid your 1993-94 dues at or after the 1993 Annual Meeting, not only will you receive Proceedings for the 1993 meeting but you are now paid up for the 1994 Annual Meeting and will receive the Proceedings for this event as well. All you have to do at the upcoming 1994 Texas Chapter Annual Meeting is have us verify payment of dues. You then have the option of spending your money on the banquet, raffle tickets, or the auction (or, most correctly, all of the above).

For the calendar year 1995, you will have three options for paying Texas Chapter dues:

- ① at the 1994 Annual Meeting
- ② through the AFS parent society
- ③ by mail (form in Newsletter or from me).

A number of members forgot they paid through the parent society last year and then paid a second time. We have notified these members and have credited them for 1995 dues.

While the move to collect dues through the parent society has created some minor and momentary confusion, it definitely has paid off. We now have a much larger (250 members, an all time high) and more diversified membership. This can only help to heighten the Chapter's ability to achieve its goals and to make further contributions to the scientific community.

See you at Lake Travis. 

OUTSTANDING FISHERIES WORKER OF THE YEAR

by John Moczygemba

The time is here to nominate your choice for "Outstanding Fisheries Worker of the Year" and "Special Recognition in Fisheries Work." The deadline is **23 August**. Use the form on page 12.

Nominations should be easier now - the awards can be based on fisheries-related work spanning more than 1 year. Award criteria for Culture, Education, and Management were presented in the last newsletter, Volume 20(2). The rest of the criteria follow:

Administration

Development of innovative management programs, research activities, or facilities that enhance fisheries management/conservation.

Leadership in implementation of regulations or management programs that address important fisheries issues.

Development of new sources of funding for fisheries programs.

Leadership in the development of public outreach or recognition/award programs.

Substantial and effective promotion of fisheries management and conservation activities.

Research


Research should add to the understanding of a biological problem or to solving a resource problem.

Research can be basic, applied, or both.

Research results should have been disseminated, in order of importance, in a peer-reviewed journal, non-peer-reviewed publication, or an oral presentation.

Participation in professional and public organizations in the fisheries research field which comment, advise, or review research activities.

In order of importance, the nominee's role in a research project should be directing the project, establishing the project, analyzing data, or conceiving the project.

Here are the nominating instructions again. Please use specific accomplishments to meet the criteria for each area. A short paragraph (100 words or less) at the end of each nomination can be used to list accomplishments which do not exactly fit criteria. Please be concise so the Committee can be objective in making the best choices. See you at the meeting. 

1994 AWARD NOMINATION FORM
TEXAS CHAPTER OF THE AFS

NAME (nominee) _____ EMPLOYER _____

Nominated for (check one):

___ Outstanding Fisheries Worker of the Year for (circle one):

Administration Culture Education Management Research

___ Special Recognition in Fisheries Work

SPECIFIC CRITERIA-RELATED ACCOMPLISHMENTS:


OTHER ACCOMPLISHMENTS:

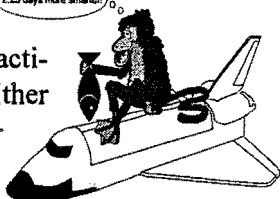
Send nomination form to:

John Moczygema
Lake Texoma Fisheries Station
Route 4, Box 157
Denison, Texas 75020
(FAX 903-786-9871)

SEA MONKEYS IN SPACE


by Mark Stacell

DID YOU KNOW - That development of brine shrimp *Artemia* is accelerated in space flight? *Artemia* cysts on two different Space Shuttle missions were compared with simultaneously reactivated ground controls. Neither hatching rate or larval morphology were affected, but development after reactivation was accelerated by as early as 2.25 days (by a full instar) over ground control shrimp (a long time in an *Artemia* life). So next time you are in a hurry to produce some brine shrimp, this is how you do it! 



PUBLICATION ANNOUNCEMENT

The Texas System of Natural Laboratories (TSNL) has a new publication - **Freshwater and Marine Fishes of Texas and the Northwestern Gulf of Mexico**. It is a taxonomic and distributional inventory. Over 1,000 fish species are inventoried and the database used to develop the book will eventually be accessible using software that will be developed by TSNL. Full citations of pertinent literature are featured in this 270-page information source. For more information or to suggest ways to make the software useful to you, contact:

Texas System of Natural Laboratories, Inc.
P.O. Box 1644
Austin, TX 78767-1644
512-444-4479 or 512-477-4925 

**MEMBERSHIP APPLICATION AND RENEWAL
TEXAS CHAPTER OF THE AMERICAN FISHERIES SOCIETY**

for the 1994 calendar year

for the 1995 calendar year

Name _____

Address: _____

Primary Field of Interest _____

Affiliation _____

Check the two that apply:

Regular Membership (\$8/yr)
 Student Membership (\$5/yr)

AFS Member
 Non-AFS Member

Send dues to:

Kathy T. Ramos
P. O. Box 947
San Marcos, Texas 78667

If you have an interest in serving on a committee, check one (or more) of the following:

Awards

Issues

Pond Management

Exotic Species

Student Outreach

Editorial

Membership

Publicity/Exhibits

Procedures Manual

Endowments

Nominating

Newsletter

Urban Fishing

EXECUTIVE COMMITTEE

PRESIDENT..... Loraine T. Fries
PRESIDENT-ELECT..... Pat L. Hutson
PAST-PRESIDENT..... Barbara A. Gregg
SECRETARY-TREASURER..... Kathy Ramos

COMMITTEE CHAIRPERSONS

AWARDS..... John Moczygemba
EDITORIAL..... Bob Edwards
ENDOWMENTS..... Barry Lyons
ISSUES..... Earl Chilton II
MEMBERSHIP..... Ronnie Pitman
NOMINATING..... Bobby Whiteside
POND MANAGEMENT..... Bill Seawell
PUBLICITY/EXHIBITS..... Mark Stacell/Camillo Chavez

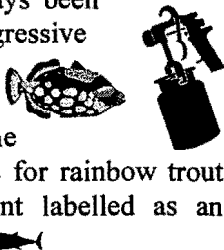
AD-HOC COMMITTEES

EXOTIC SPECIES..... Mark Webb
PROCEDURES MANUAL..... Joan Holt
URBAN FISHING..... Charles Munger
STUDENT OUTREACH..... Beverly Villarreal
FISHERIES WORKERS DIRECTORY..... Lance Robinson


NEWSLETTER EDITOR

Joe N. Fries
500 East McCarty Lane
San Marcos, Texas 78666
512-353-0011
512-353-0856 (FAX)

THE ORIGINAL FISH TRIPS

Currently, only a few chemicals can be used legally in aquaculture. But it has not always been that way. A note in the 1950 Progressive Fish-Culturist 12(4):195 reminds us of the "good old days": urethane (polyurethane is a component in some paints) was used as a fish anesthetic for rainbow trout tagging. Think we could get paint labelled as an anesthetic for use in aquaculture? 

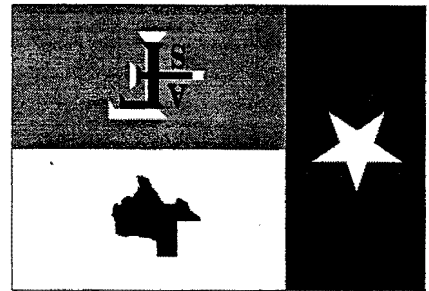
FAREWELL FROM THE NEWSL-ED

This Newsletter is the last one I, Joe N. Fries, will be wielding for a while. Steve Magnelia has valiantly volunteered to take over the duties of Newsletter Editor. I wish him well and I hope that members will continue to help the Newsletter have some news. I thank all those who have helped me by providing material for the eight Newsletters I have put together. 

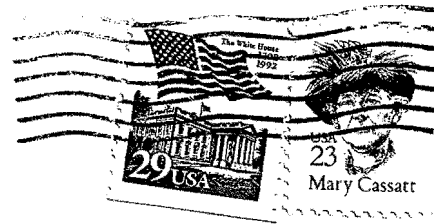
THE AMERICAN FISHERIES SOCIETY

THE TEXAS CHAPTER OF

THE NEWSLETTER OF



NEWSLETTER EDITOR
500 EAST MCCARTY LANE
SAN MARCOS, TEXAS 78666



035548 NM
Roger McCabe
1601 East Crest Drive
Waco TX 76705

RECEIVED
AUG 12 1994
FISH AND WILDLIFE DEPARTMENT
WACO, TEXAS