Tank Tales

September 2016
Volume 45, Issue 7

The 2016 Keystone Clash

September 16-18 at the Lancaster Host Resort

BAP Report update
DERMOGENYS PUSILLA
CHARLES VICKERY

Advances in the Reintroduction of
ZOOGENETICUS TEQUILA
UNIVERSIDAD MICHOACANA TEAM

The official Publication of The Aquarium Club of Lancaster County, Inc.

Tank Tales™

ON THE COVER:

2015 Clash Best-of-Show Winner Joel Antkowiak with judges Matt Quinn & Rachel O'Leary photo by Tyler Termini

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590 Centerville Road #318
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editor@aclcpa.org

WEB : www.aclcpa.org

FACEBOOK GROUP:
www.facebook.com/Aquarium-Club-of-Lancaster-County-165146629317/

MANAGING EDITOR: Tim Brady

ASSOCIATE EDITOR: Kurt Johnston

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President's Message

Jack LaFayette

Back! (for the first time)

In my 20 months as President in 2013 and again in 2016, this is actually my very first President's message. I wish I could say it's because I'm lazy, but that would be giving myself too much credit. It's actually because in my strange, neurotic mind, I felt like it would be presumptuous to think anyone would be interested in what I had to say. That might actually be true! But I'm going to write one anyway. Here are three things on my mind:

"Believe none of what you hear, and only half of what you see." [and about %5 of what you read online]

This is by no means unique to the aquarium hobby, but there is A LOT of bad information out there, especially on the internet. It can be a very daunting task for a new or even experienced aquarist to look up something seemingly simple "on the internet" and come across extremely over -complicated, and often, conflicting information. For example, I have seen dozens of posts from people recommending a filtration turnover rate of 5x per hour minimum. Well, many of my tanks are turning over at about 1.5x per hour. These are tanks stocked with large, hungry, breeding African cichlids and my ammonia and nitrites are always at zero (nitrates are a different story, but forget that for now J). Am I special, or is the 5x "rule" just plain…..wrong? Another example, google "African cichlids and plecos" and see how many people swear that it's impossible to mix these two. Guess what, not only do I have healthy happy plecos keeping all of my African tanks algae free, but they are also breeding in that water.

My point? Keep it simple, try things for yourself, stick to the basics, and be very mindful of the difference between fact and opinion/anecdote.

Get the word out

Something else I'd like to do is to remind everyone that there are many, many people out there that WOULD be in the ACLC if they only KNEW about the ACLC. Don't be afraid to get out there and let them know about it. If you happen to find out that a friend or coworker keeps (or used to keep) fish, let them know about our club. If you see someone in That Fish Place or another pet store looking clueless in the aquarium isles, let them know about our club. If someone accidentally runs into your because they are looking down at their phone, call them an idiot….and then let them know about our club.

The Keystone Clash

I don't want to repeat information that your will see elsewhere in this edition of Tank Tales, so I'll just say this….Go to it! Many of the fine members of our club and others have put in quite a number of hours to make sure it will be a successful event, and they indeed have put together a great schedule of events. Whether it be the entire weekend, just the auction on Sunday, or something in between, I encourage you all to participate.

Until next month. That wasn't so bad, was it?

Jack

Editor's Notes

For those of you who were unaware, Karen Haas stepped down as Tank Tales editor after the June 2016 issue. Karen has done a tremendous job with Tank Tales and her skills will be sorely missed. Tim Brady and I have decided to step up and try to fill some very big shoes.

This publication has been an award winning , top quality newsletter for as long as I have been a member of the ACLC, with Bob Kulesa, Joel Antkowiak and Karen Haas as editors. With every new editor there are going to be changes but, most things remain the same. Tank Tales is for and about YOU, the members of the Aquarium Club of Lancaster County. No matter who the editor is, without your articles, photos and ideas there is no Tank Tales. You can be sure that this will not be the last time that we beg for articles and photos but realize that for your club and its newsletter to continue to thrive, we must have your input.

Please take a few moments of your time, think about what you love about this hobby, why you are in the hobby, and what you have done to make the hobby work for you. Put these thoughts down in an email, take a picture or two and send it to us. If you have any suggestion or ideas for Tank Tales, write them down and send them to us. If you need our help or have any questions, contact us. This is your club and your newsletter.

Thank you

Kurt

Send all communications for Tank Tales to editor@aclcpa.org

Deadline for October Tank Tales is September 29th!

Keystone Clash

CCY Aquarium Club of Lancaster County

Sept 16th - 18th 2016
Lancaster, PA

Hotel Information:

Lancaster Host Resort & Conference Center
2300 Lincoln Highway East (US Route 30)
Lancaster PA 17602
Special Rate $92/night– specify "Keystone Clash"
For Reservations call 1-(800) 233-0121

Website: ***www.KeystoneKlash.com***

Event Speakers

Rusty Wessel

Fishes of the Rio Panuco

Charley Grimes

Does he really need a topic?

Mark Denaro

"Fishy Trivia"

"The Namesakes""

Ted Judy

"Raising Fry from Egg to Adolescence"

"West African Aquariums"

HUGE VENDOR AREA

GIANT ALL DAY SUNDAY AUCTION

STARTS AT 11:00 AM

2016 Keystone Clash Schedule

Friday, September 16

8:00 AM – 12:00 Noon Final set up by both clubs

8:00 AM – 9:00 PM Vendors can set up at any time and can be available for business.

1:00 PM – 9:00 PM Event Registration
Fish Show Entry set-up

6:45 PM – 7:00 PM Event Welcome

7:00 PM – 8:00 PM Ted Judy, "Raising Fry from Egg to Adolesence"

8:30 PM – 9:30 PM Mark Denaro, "Fishy Trivia"

9:00 PM Registration and Fish Room Closed

9:30 PM - ???? Hospitality Room Open

Saturday, September 17

8:00 AM – 1:00 PM Event Registration Open
Final Fish Show Entry set-up
Vendors can set up at any time and can be available for business.

9:00 AM – 10:00 AM Joel Antkowiak, "Komments on Killiekeeping"

10:150 AM– 11:15 AM Rusty Wessel, "Fishes of the Panuco Basin"

1:00 PM Fish Room Closed for Judging

1:30 PM – 2:30 PM Ted Judy, West African Aquariums"

3:00 PM – 4:00 PM Mark Denaro, "The Namesakes"

5:00 PM Vendor Area closed.

6:00 PM Awards Banquet

7:30 PM Charley Grimes

The Fish Room shall be open after the banquet for approximately 1 hr for viewing.

10:00 PM – 12 Midnight Attendees may begin removing their fish show entries.

10:00 PM - ??? Hospitality Room Open

12:00 Midnight Entire event area closed.

Sunday, September 18

6:00 AM – 10:00 AM Fish room open for entry removal. All entries must be removed by 10:00 AM.

9:00 AM – 1:00 PM Auction Registration Open for Buyers and Sellers

9:00 AM - ???? Vendors can tear down any time after 12:00 noon, but may be open for business as long as the auction is going on if they like.

11:00 AM - ???? Giant Auction!

Schedule is Tentative and subject to change

The Birth of an Event (?)

by Joel Antkowiak

On September 16-18, 2016, the first Keystone Clash will take place. The Clash is a multi-club hosted event that offers some of the biggest names in the hobby as speakers, a vendor hall featuring all things fishy, and of course a huge All Species Tropical Fish Show. An event this big needs at least 2 clubs to pull it off. And so the Aquarium Club of Lancaster County (ACLC) and the Cichlid Club of York (CCY) have teamed up to bring you this event. But how did it all start?

Well, the CCY started holding its "Clash of the Cichlids" several years ago. The first and second shows were actually held in the same year. Many folks in the ACLC were wondering what was wrong with these people having a fish show in January. They quickly learned from their mistake, however, and and held the next installment in September of that year. And with good success. The third "Clash" also showed growth from the previous incarnations and in fact the show has grown every year since its inception, as has its attendance. We had a young, growing specialty club that had begun to make its mark on the hobby in the central Pennsylvania area.

But the ACLC was no slouch in itself. This club was 40+ years old and had grown to nearly 100 members over the last 5-7 years. They decided to try to host a national convention in 2015. And so the ACLC hosted the 2015 American Livebearer Association's annual convention. And as it turns out, it was one of the most successful ALA conventions ever by most accounts. So now we have 2 clubs that are situated very near to each other, with some overlapping membership, enjoying some success.

Now, contrary to the story being told on www.KeystoneKlash.com, CCY did *not* invite ACLC to join in this year. Oh no, the actual story is much different. It just so happened that 2 of those overlapping members were taking care of the fish show room at the ALA convention when they began chatting. One of them was futzing around with the air supply system, the other tracking show entries. Mr. Air Supply says to Mr. Entry Tracker, "looks like you have the entries under control". Mr. Entry Tracker says "yeah, it's easy when you know how to use the program."

Then Mr. Air Supply quipped "We should plan a show for the club…you can handle the entries."

To which Mr. Entry Tracker replied "I got no problem with that…you just make sure the fish room gets set up and running."

Mr. Air Supply said "Yeah man, I love doin' this stuff!"

Then Mr. Entry Tracker asked, "Do you think that CCY & ACLC could do a joint show?"

The Birth of an Event (?)

by Joel Antkowiak

And Mr. Air Supply responded with, "Why not? We have a lot of the same members. Maybe some of the other clubs could get involved too."

And so an idea was born. The thought was discussed amongst key members of both clubs, and finally a proposal to do this thing was approved by the boards of both clubs. The Keystone Killy Group was invited to join in, but there was a perceived conflict with the Northeast Killifish Weekend, and so they declined out of respect to those clubs. Other clubs were extended offers to take part in some form, including the Chesapeake Guppy Club and the Eastern Betta Society, but they showed little interest. Maybe in the future we can get other clubs involved. It would be great to make this a multi-club mega-event. But for now, just ACLC and CCY will be pulling this thing off.

CCY was intent on keeping its branding of "Clash of the Cichlids" alive and having it carry forward, which was no problem for ACLC, as this event had been growing every year. Thus, "The Keystone Clash featuring the Clash of the Cichlids" was born. And so the planning would begin.

The clubs would each have to provide people to work on this thing. That wasn't hard, as most of those that had already been involved were members of both clubs. They would agree that there should be an all species show and some speakers. But how many classes in the show? What classes? Who would speak...and on what topics? Many hours of thought and preparation have gone into the planning of this event, with the hope that it would not become a one-time affair. It was decided that there would be 4 speakers, and then a fifth was added, with a broad range of topics being covered.

The show would start at about 20 classes, then grew to nearly 60, and was finally trimmed down to 43. An extra level of interest was added when "The Keystone Challenge" was extended. This would award the individual who accumulated the most show points during the event, as well as the club whose members would accumulate the most points. Thus we would truly have club bragging rights established.

The Keystone Clash will hopefully be a successful endeavor. We will certainly learn from whatever mistakes we may make and apply that knowledge to future events. Be sure to add your input to the show coordinators, such as changes in classes, speakers and topics you would like covered, vendors you would like to see, etc.

About the ACLC™

Established in 1972, the Aquarium Club of Lancaster County is dedicated to further the study of all forms of aquatic life, to promote interest, exchange ideas, distribute information concerning the aquarium hobby and to encourage the breeding and display of aquatic life. The ACLC is an affiliated member of the Northeast Council of Aquarium Societies, Federation of American Aquarium Societies, International Guppy Education & Exhibition Society and the C.A.R.E.S. Preservation Program. The ACLC also actively supports and encourages our members to join the American Cichlid Association, American Livebearer Association, American Killifish Association and any other International, National, Regional or Local Club abd Societies. In 2015 we hosted the American Livebearer Association Convention and in 2016 established the Aquatic Life Education Fund.

The ACLC is scheduled to meet on the third Saturday of each month (except July and August) at the Hand-in-Hand Fire co., 313 Enterprise Drive, Bird-in-Hand, PA 17505. Meetings begin at 1:00 PM unless otherwise noted. Meetings usually are comprised of a program featuring a guest speaker, raffle and door prizes and a mini fish auction, with a period allowed for mingling and refreshments. The philosophy of the club is such that our activities are interesting to both the novice and advanced hobbyist alike. An effort is made to keep business to a minimum at the general meetings, with the board of directors meeting being held quarterly at a pre-established date and time.

DATE: / /

AQUARIUM CLUB OF LANCASTER COUNTY – MEMBERSHIP APPLICATION

Individual: $18 – Secondary: $12 – Family: $35 – Junior: $6 (under 18)

Secondary members must reside at the same address and do not receive an additional newsletter. Membership is effective the month you join. Renewals are due the following year of the last day of the month you joined. Make checks payable to: Aquarium Club of Lancaster County. Mail to: ACLC Membership Chair, 590 Centerville Rd. #318, Lancaster PA 17601

Do you want your phone number and email address published? Yes ( ) No ( )

MEMBERSHIP TYPE: ( ) NEW ( ) RENEWAL ***for*** ( ) Individual ( ) Secondary ( ) Family ( ) Junior

NAME(S):_____

ADDRESS:_____City:_____

STATE____ ZIP_____ PHONE:_____EMAIL:_____

*Signature of Parent or Guardian if under 18 years:*_____

How did you hear of the Aquarium Club of Lancaster County? _____

Officers, Directors & Chairpersons

Officers

President	Jack Lafayette	president@aclcpa.org
Vice President	Michael Buchma	vicepresident@aclcpa.org
Treasurer	Tim Brady	treasurer@aclcpa.org
Secretary	Gary Haas	secretary@aclcpa.org
Past President	Kurt Johnston	pastpresident@aclcpa.org

Directors

Public Relations	Mike Mull	publicrelations@aclcpa.org
Programs	*Vacant*	
Financial	*Vacant*	

Chairpersons

Auction	Danny Corman	auction@aclcpa.org
Annual Event	Joel Antkowiak	
Audit	*Vacant*	audit@aclcpa.org
BAP	Gary Haas	bap@aclcpa.org
CARES	Gary Haas	cares@aclcpa.org
Corporate Sponsors	Joel Antkowiak	sponsor@aclcpa.org
Exchange Editor	Kurt Johnston	exchange@aclcpa.org
HAP	Michael Buchma	hap@aclcpa.org
Membership	Mary Crittenden	membership@aclcpa.org
Raffles	Mike Mull	raffle@aclcpa.org
Social	Tim Brady	social@aclcpa.org
Speaker Coordinator	Alan Rollings	
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AQUEON

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ACLC Speaker Schedule

September 16-18
Keystone Clash
@Lancaster Host

October 15th
Greg Steeves (TX)
Native Fish

November 19th
TBA

December 17th
ACLC Member Open Mic
Get involved in your club!

BAP Report Update

"Dermogenys pusilla"

BY CHARLES VICKERY

I wrote about breeding Dermogenys pusilla, or wrestling halfbeaks, in the June 2016 issue of Tank Tales, which included more details about tank parameters than this update about brood size, deformities, delivery routine and wrestling.

In their first brood, one female had 15 fry and the other had 30 fry, in line with quantities cited by reputable online sources. Seriously Fish noted brood sizes averaging 10-20 fry.[1] FishBase noted brood sizes of 10-30 fry.[2] After their first brood, the adult females grew about 0.75 inches (1.9 cm) longer and they grew in girth. Brood sizes increased significantly, as listed in Table 1. Subsequent broods were more energetic than the first brood, which could result in higher survival rates

Table 1

D. pusilla Delivery Dates & Brood Sizes

Female 1	Fry	Female 2	Fry	Total
5/13/2016	15	5/16/2015	30	45
6/9/2016	40	6/12/2016	50	90
7/7/2016	56	7/12/2016	51	107
8/3/2016	54	8/6/2016	67	121

The first broods had two types of deformities, bent spines and bent beaks, each affecting about six otherwise healthy fry. Bent beaks are often attributed to hitting the glass, although it appears that they were present at or near birth for these fry. Subsequent broods, totaling 318 fry, had neither deformity.

D. pusilla with Bent Beak

About 10 percent of all fry were underdeveloped at birth, some of which swam almost vertically, like seahorses, and paddled at a relatively fast rate. Underdeveloped fry died within a few months, by which time even minor displays

D. pusilla with Bent Spine

of dominance, such as chasing, by healthy siblings appeared to further subordinate and weaken unhealthy fry.

One to three days prior to giving birth, both females spent up to 24 hours in a vertical position with beaks down and writhed within a small, heavily planted area at the bottom of

D. pusilla males wrestling

the tank, where they usually do not go. They behaved normally and showed no signs of distress when they surfaced.

Males wrestled as youths, then shared a few months of detente prior to the initial births, and then resumed wrestling. Wrestling among the two mature, dominant males is more vigorous, longer in duration (perhaps 30 minutes long) and fin coloration is more vivid than when they were younger. The apparently uninjured loser often spends a few hours in a self-imposed penalty box at the bottom of the tank before gradually returning to the surface. Four younger, more subordinate male tank mates rarely wrestle and stay a few inches below the surface, stealing an occasional moment with the females. The mating pairs reside at the surface.

Wrestling halfbeaks are excellent community fish and have not bothered Caridina sp. and Neocaridina sp. shrimp tank mates. Adults rarely ate a fry unless it swam directly into its mouth, perhaps mistaking the horizontal facing adult for a two-dimensional point on the horizon, in the spirit of Edwin A. Abbott's Flatland. Fry were removed from the main tank within an hour of birth to minimize such ill-fated misperceptions.

References:

1. Seriously Fish. Accessed via http://www.seriouslyfish.com/species/dermogenys-pusilla on August 24, 2016.

2. Froese, R. and D. Pauly. Editors. FishBase. Accessed via http://www.fishbase.org/summary/11298 on August 24, 2016.

Aquatic Life Education Fund

In January 2016, the Aquarium Club of Lancaster County Board of Directors announced a new program, the ACLC Aquatic Life Education Fund. This program has been instituted to assist schools in our area with funding for the continued development of curriculums related to the study of aquatic life. The importance of continued education of young people in this field could not be overstated and we felt that there is no better way to show our support than to develop a means for our club to assist financially.

The program will work as follows:

- Five percent (5%) of the ACLC's auction proceeds annually between September 1st and August 31st will be earmarked for this fund
- The ACLC will also collect any donations offered by members and guests at all meetings and events held during the year and put 100% of those into the fund
- The ACLC will accept nominations from ACLC Members in good standing, for schools to be considered recipients beginning in September of each year and the decision will be made by a vote of the ACLC membership no later than at the March General meeting.
- Nominations should be accompanied by a letter from that school's representative with a description of the program the funds will be used for.
- Schools must be pre-college education facilities from neighboring counties in Pennsylvania, Maryland, Delaware and New Jersey.
- No fees or other costs will be deducted from the funds collected. 100% will go to the school selected by the ACLC. A check will be awarded to that school as soon as possible after August 31st each year.

We look forward to this being and long term annual program to help educate our areas' young people in all aspects of our hobby and to promote the conservation efforts necessary for the continues existence of aquatic life.

IMPORTANT !

The Aquarium Club of Lancaster County is currently looking for nominations for the 2017 recipient of the Aquatic Life Education Fund proceeds. If you know of any school that could benefit from this program please contact or have the school contact Kurt Johnston at ALEF@aclcpa.org.

Aquatic Life Education Fund 2016 Final Report

What a great inaugural year for the ALEF! The program has come a long way in a short time. In March we set a first-year goal of $400 for the fund, which at the time looked to be a very aggressive goal. Joel Antkowiak then decided that he would challenge us by stating that his company, Joel Antkowiak & Associates, would contribute $200 if the ACLC was able to reach $500. Although it was close we did surpass that amount with a final total of $505.24!

The breakdown is as follows:

Funds from ACLC Auction Proceeds (5%) - $278.39

Donations collected directly from members— $226.85

This money will be presented to Hannah McNett of Manchester Valley High School at the Keystone Clash Banquet on Saturday, September 17th. The Science Research Program that was originally at North Carroll High School has been moved to Manchester Valley High School starting with the 2016-2017 school year. Same great program and instructor, just a new location.

Please come to the Keystone Clash for the great speakers, vendors, and auction. You will not only be supporting two great clubs, the ACLC and CCY, but you will also be supporting the ALEF and our first annual recipient at the banquet.

Piscatorial Pearls

"Reviewing Aquarium Society Newsletters from Around the World"

We will start out this month with a stop in Georgia for 2 articles in the June and July 2016 issues of the Atlanta Area Aquarium Association's **Fish Talk**. In the June Issue, Bob Major tells us the way he goes about "Finding the Rare and Unusual Fish". In the July Issue we have an article titled "Breeding the Blue Badis" by Tom Koranda that gives us a brief description of Tom's success with this little beauty.

IMPORTANT

If you see an article that you would like a copy of, just click on the article title. It will generate an email for you to send to the ACLC Exchange Editor, requesting a copy. If you would like to visit the website of the Club that publishes the newsletter, just click on the club name. If you have any questions contact the ACLC Exchange Editor at exchange@aclcpa.org

Next we head out to Indiana for 3 stories in the June/July 2016 edition of the Circle City Aquarium Club's **Fancy Fins**. The first story is by Chris Eichrodt and is a breeding report for "Lepidiolamprologus hecqui" a feisty, little Tanganyikan shell dweller. Bobby Sutton wrote the next story which is a good description of Bobby's success in "Breeding Pseudocrenilabrus multicolor" the ever popular Egyptian mouthbrooder. In the final story in this edition, Chris Eichrodt tries to answer the question "MTS are the pests or helpful?" with mixed results.

Heading back to Pennsylvania, we stop for 2 articles in the July 2016 issue of the Greater Pittsburgh Aquarium Society's **Finformation**. The first article is titled "Labidochromis sp. 'Perlmutt'" by Jonathan Raviotta that gives us a great deal of background information on the species as well as Jonathan's experiences. Next we have an article by Joe Doyle that gives us a detailed description of Joe's success with keeping and breeding "Skiffia francesae".

Our next stop is going to be across the border in Ontario for 3 stories in the June 2016 edition of the Kitchener Waterloo Aquarium Society's **Fins & Tales**. The first story is titled "Mango Pleco L-47" by Al Ridley and tells us all the things that Al likes about this pleco. The next story is titled "Building a Waterfall in your Aquarium" by Lillian Stroh and is a very detailed DIY project plan for your fishroom. Zenin Skomorowski takes us on a trip to London (Ontario) with a story about "CAOAC 2016" ,the annual convention of the Canadian Association of Aquarium Clubs. A lot of familiar faces in those photos.

Coming back to the USA we head to Missouri for 8 articles in the July/August 2016 Issue of the Missouri Aquarium Society's **Darter**. The first article in this issue is titled "Raising Tropical Fish in a Pond Environment in the Midwest" by Gary Lange. Despite the title, this article gives great information that can be used for our area. Next we have an article by Holly Paoni titled "Madagascar Lace Plant" that gives us a good description of one of the most beautiful plants for your aquarium. Gary Lange wrote the next article which is a complete description of his "Findings on a Visit to Brine Shrimp Direct" that give us some great insight to the operations of a sponsor. Mike Hellweg gives us "A West African Challenge" with his description of

Piscatorial Pearls

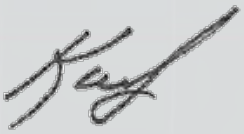
"Reviewing Aquarium Society Newsletters from Around the World"

The beautiful African Tetra, Neolebias ansorgii. Next article is titled "Quarantine is not an insult!" by Kathy Deutsch and goes into detail about the reasons for quarantine. Mike Hellweg pens the next article by saying "Welcome to a New Missouri Resident" that happens to be a killifish (Fundulus diaphanous) that brings the number of native Missouri killifish to 8 and all are described well by Mike. Need some help with a knot for tying your seine? Kurt Zahringer gives a complete lesson on how to tie "The Icicle Hitch". The final article in this issue is by Mark England and is titled "Marine Hobby Attacked for Collecting Practices" that goes into detail about the Lacey Act and its enforcement.

The great state of New Jersey is our next stop for 3 stories in the June 2016 edition of the North Jersey Aquarium Society's **Reporter**. The first story is another one of "Dr. Paul's Fishes of the Month", and this month Dr. Paul gives us an amazing amount of detail about 2 different Danios, Danio feegradei and Danio meghalayensis. Next we have a Plant of the Month story by Alan DeVelasco that describes the plant you may know as Brazilian Pennywort, "Hydrocotyle leucocephala". Our final story this edition is titled "The Miracle of Competition for Food....and how it brings out the best in fish" by Hugh Jass is a good story regarding a beneficial process.

Our final stop this month is in the state of Florida for 2 articles in the June 2016 issue of the Tampa Bay Aquarium Society's **The Filter**. The first article is titled "Genus Boraras" by Bill Little and gives us a great description of how to care for 3 species of this genus of little jewels. Our final article this month is titled "Yard Sales: Finding Fish Stuff" by Kent Sheets that tells us about some of the fishy things Kent has discovered.

See you at the Clash!



Kurt Johnston – Exchange Editor

exchange@aclcpa.org

Writer's & Artist's Award Program

OK folks, let's get writing. Tank Tales is looking more like "Tales from the Fishroom of Haas & Rollings." We all want to know what you've been up to in your fish rooms! Tell us about the fish or plants you are working with, what projects you have completed, or some trips you have taken or places you've visited! Enquiring minds want to know! And Tank Tales needs articles!

~ Joel Antkowiak
WAAP Chair

2016 Mighty Fin Standings

Standings through August 15, 2016

Joel Antkowiak	105 points
Alan Rollings	105 points
Karen Haas	80 points
Kurt Johnston	65 points
Michael Buchma	40 points
Bob Kulesa	30 points
Paul Tangredi	30 points
Gary Haas	15 points

Writer's & Artist's Award Program

Participant	Total	Base Pts	Bonus Pts	Reprints	Special Awards
Ultimate Writer Award					
Joel Antkowiak	2730	1975	755	5/0	Fishy Photographer Popular Fish Head Writing Breeder
Pen & Quill Award (No Current Qualifying Participant)					
Wordsmith Award					
Kurt Johnston *	1610	1325	285	1/0	
Bob Kulesa	720	500	220		
Scott McLaughlin	575	480	95	1/0	Fishy Photographer
Karen Haas	553	433	120	2/0	Fishy Photographer
Author's Award					
Gary Haas	455	400	55	2/0	Fishy Photographer
Alan Rollings	363	328	35		
Writer's Award					
Richard Bressler	190	70	120		
Lonny Langione	170	100	70	2/0	
Joseph Pacheco	100	50	50		
Michael Buchma	95	65	30		
Greg Steeves	65	55	10		
Other Participants					
Brandon Moyer	40	40	0		
Lindsey Moyer	40	40	0		
Sheila Garl	30	30	0		
Ellen Haas	10	10	0		

- indicates that participant has enough points to qualify for the next higher award but, needs to complete one or more requirements to qualify

Participants who are no longer ACLC members are not on the list but, their records are maintained.

C.A.R.E.S. Registration

Summer 2016 CARES Report

Without meetings and auctions, CARES activity has been scant. Actually, it has been zero, based on new registrations. So why does the report look so much different? Mostly because our new Tank Tales editors are using new software, but also because I finally got around to cleaning up the report to reflect the 2016 CARES census conducted last winter. Folks who reported that they were still providing a home for a CARES species had the Longevity number incremented for that species. Folks that didn't respond to the questionnaire (back in January) were removed from the report. Are you surprised that your name is no longer in the report, that you are no longer being honored for your efforts to maintain an endangered species? Just drop me an email, we will correct the error.

~Gary Haas
ACLC CARES Coordinator

Conservation
Awareness
Recognition
Encouragement
Support

Joel Antkowiak

Tanichthys micagemmae	●		●		5
Ameca splendens	●	●			5
Tanichthys albonubes	●				4
Puntius denisoni	●				4
Pseudotropheus saulosi	●				3
Prognathochromis perrieri	●				3
Pseudotropheus demasoni	●				3
Puntius titteya	●				2
Pachypanchax sparksorum	●				2
Neotoca (Skiffia) multipunctata	●				2
Coptodon snyderae	●				2
Ataeniobius toweri	●	●	●	●	2
Fundulopanchax amieti	●				***2***
Coptodon bythobates	●				2
Xenotaenia resolonae	●				2
Pachypanchax patriciae	●				2
Rivulus uroflammeus	●				2
Melanotaenia boesemani	●		●		2
Melanotaenia eachamensis	●				2
Cryptoheros myrnae	●				1
Bedotia geayi	●				1
Xiphophorus malinche	●			●	1
Zoogeneticus tequila	●				1
Melanotaenia parva	●				
Chilatherina sentaniensis	●				
Paretroplus maculatus	●				
Enigmatochromis lucanusi	●				

C.A.R.E.S. Registration

Steve Arnold

Tanichthys micagemmae 5

Barry Bixler

Tanichthys albonubes

Ameca splendens

Gary Boyer

Xystichromis sp. 'Kyoga flameback' 1

Cryptoheros nanoluteus 1

Pundamilia nyererei 1

Ataeniobius toweri

Ilyodon whitei

Symbol Key

The Gold Seal , designates that species is registered in ACLC CARES

The Green Seal , designates that a spawning report has been published in Tank Tales.

The Blue Seal , designates that species has been distributed and registered within the ACLC

The Red Seal , designates that species has been distributed and registered in another clubs' CARES program.

Longevity Seal [#], indicates the number of years the member has maintained the species.

Tim Brady

Xenotica eiseni 3

Zoogeneticus tequila

Ameca splendens 1

Rich Bressler

Melanotaenia lacustris 4

Tanichthys micagemmae 4

Bedotia geayi 2

Zoogenetius tequila 2

Ataeniobius toweri 2

Xiphophorus malinche 2

Glossolepsis incisus 2

Melanotaenia boesemani 1

Nothobranchius kilomberoensis 1

Chapalichthys peraticus

Characodon audax

Fundulopanchax sjoestedti

Girardinichthys multiradiatus

Paul Bricknell

Ilyodon whitei (lennoni)

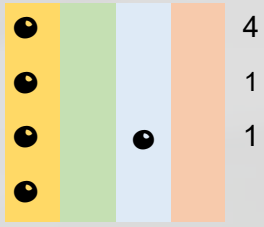
Zoogeneticus tequila

Ameca splendens

Ataeniobius toweri

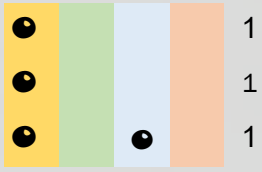
C.A.R.E.S. Registration

John & Natalie Dickel



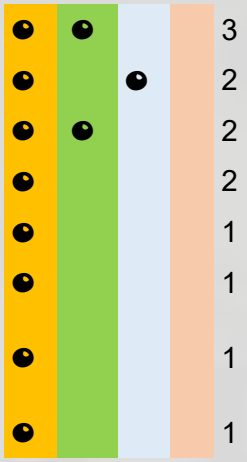
Tanichthys micagemmae	4
Zoogeneticus tequila	1
Xenotoca eiseni	1
Ameca splendens	

Jayson Gard



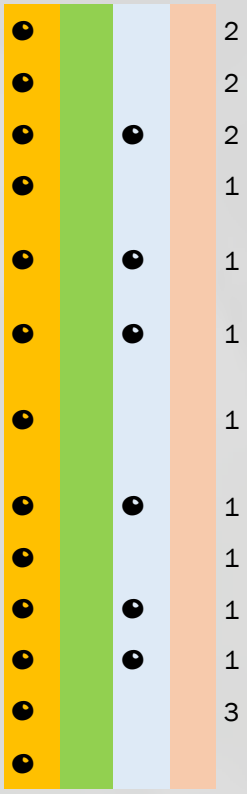
Chapalichthys encaustus	1
Tanichthys micagemmae	1
Enigmatochromis lucanusi	1

Gary Haas



Fundulopanchax sjoestedti	3
Fundulopanchax amieti	2
Puntius titteya	2
Tanichthys albonubes	2
Melanotaenia boesemani	1
Nematolebia papiliferus (Inoa)	1
Nothobranchius kilomberoensis	1
Puntius denisonii	1

Karen Haas



Synodontis brichardi	2
Glossolepis incisus	2
Chapalichthys encaustus	2
Cryptoheros nanoluteus	1
Xystochromis sp.“Kyoga Flameback”	1
Cryptoheros nanoluteus	1
Characodon lateralis “Los Berros”	1
Ilyodon whitei	1
Ataeniobius toweri	1
Pundamilia nyererei	1
Ameca splendens	1
Xystochromis phytophagus	3
Fundulopanchax sjoestedti	

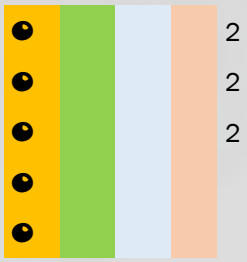
Lisa Hoebner

Xystichromis sp.”Kyoga flameback”	
Enterochromis pariopus	

Tony Kline

Tanichthys albonubes	3

Clair Klinedinst



Fundulopanchax amieti	2
Tanichthys albonubes	2
Tanichthys micagemmae	2
Fundulopanchax sjoestedti	
Chapalichthys encaustus	

C.A.R.E.S. Registration

Bob Kulesa

Pundamilia nyererei
'Ruti Island'

Julie Lovell

Melataenia boesemani

1

Dave Tangredi

Ameca splendens

1

Paul Tangredi

Melanotaenia lacustris

3

What is the C.A.R.E..S. Program ?

Founded in 2004 by hobbyist and conservationist Claudia Dickinson, the **C.A.R.E.S. (Conservation, Awareness, Recognition and Responsibility, Encouragement, Sharing and Support)** Preservation Program is based on the critical and timely significance of Conservation, our Awareness, as hobbyists, of the issues involved, the public Recognition of members, our Responsibilities as fish keepers, member Encouragement, Sharing of fish and data, and Support for those who take part in playing a vital role in ensuring a positive future for species-at-risk.

The purpose of the **C.A.R.E.S.** Preservation Program is to encourage hobbyists worldwide to devote tank space to one or more species-at-risk, while forming an information network between aquarists, scientists, and conservationists. The **C.A.R.E.S.** Preservation Program may be implemented by societies, educational institutions, and independent aquarium retailers, as all are encouraged and welcome to participate. Whatever one's level of expertise, there is a fish for you. Please plan to begin with a species that you are most comfortable working with, and a support team will be ready to assist, guide, and counsel you as needed.

The foundation for any program relies on the strength in its roots, which results in a solid base for growth and enrichment as we move into the future. For the hobbyist, the **C.A.R.E.S.** Preservation Program is intrinsic as the aquarium hobby does, in fact, truly care. The**C.A.R.E.S.** Preservation Program has four major objectives:

1) to bring **AWARENESS** to the critical situation of fish in nature, while educating and stressing the importance of our roles as **RESPONSIBLE** aquarists;
2) to **RECOGNIZE, ENCOURAGE,** and offer **SUPPORT** to hobbyists who maintain species -at-risk;
3) to **SHARE** fish as well as data and experiences through notes, graphing, and manuscripts so that others may learn to maintain those identical, and similar species; and
4) to **PRESERVE** species-at-risk for future generations.

Horticultural Award Program Monthly Report

Propagator of the Year

Gary Haas	12 species
Bressler Family	11 species
Scott Sommer	6 species
Clair Klinedinst	4 species
Charles Vickery	4 species
Alan Rollings	1 species

Gardener of the Year

Gary Haas	220 points
Bressler Family	170 points
Scott Sommer	70 points
Clair Klinedinst	50 points
Charles Vickery	50 points
Alan Rollings	15 points

Lifetime Achievement Awards

2 Star Gardener

Gary Haas

1 Star Gardener

Bressler Family
Gary Boyer

Novice Gardener

Charles Vickery
Clair Klinedinst
Scott Sommer
Karen Haas

NOTE: Since the HAP is barely one year in existence, no member has yet to achieve the top 5 categories of 3 star, Senior, Master, Grand Master and Supreme Grand Master Gardener,

Horticultural Award Program Monthly Report

Species Propagated—Summer 2016

Bressler Family—30 Total Points

Nymphaea 'William McLane' *	30 points

Charles Vickery - 50 Total Points

Hydrocotyle tripartite *	20 points
Lemna minor *	10 points
Najas gaudalupensis	10 points
Taxiphyllum Barbieri *	10 points

Gary Haas - 220 Total Points

Aponogeton crispus * +	30 points
Ceratopteris thalictroides *	10 points
Cryptocoryne crispatula v. Balansae *	20 points
Cryptocoryne walkeri v. lutea *	20 points
Cryptocoryne wendtii *	20 points
Echinodorus 'barthii' *	20 points
Helanthium tenellum *	20 points
Hemianthus glomeratus *	20 points
Ludwigia arcuate x. repens *	20 points
Microsorum pteropus *	20 points
Riccia fluitans *	10 points
Vallisneria Americana *	10 points

* indicates that plant was donated to club auction (2x points
+ indicates that plant was propogated from seed

Breeder Award Program Monthly Report

BAP News as of June 6, 2016

May brought a flurry of BAP activity. Karen Haas and Alan Rollings submitted claims for four broods, a couple of livebearers and a couple of African riverine cichlids. Rich Bressler and Gary Boyer each bred three species, for a total of one rainbowfish, three cichlids, a killifish, and a livebearer. Several are CARES fish, earning extra points, and Rich's livebearer is critically endangered, earning even more points. Joel Antkowiak spawned a South American CARES cichlid.

And the points haven't stopped there – there are reputed to be some spawning reports in this very issue of Tank Tales, which will earn the authors even more points. The publication points will be reported in the next edition of Tank Tales. See you then.

2016 Breeder of the Year

Team Haas/Rollings	113 points
Bressler Family	110 points
Gary Boyer	58 points
Joel Antkowiak	46 points
David Tangredi	39 points
Danny Corman	26 points
Gary Haas	20 points
Charles Vickery	14 points
Clair Klinedinst	13 points

2016 Species Bred

Team Haas/Rollings	8 Species
Bressler Family	7 Species
Joel Antkowiak	4 species
Clair Klinedinst	3 Species
Gary Boyer	3 Species
David Tangredi	2 Species
Charles Vickery	2 Species
Danny Corman	2 Species
Gary Haas	1 Species

April Species Bred

Team Haas/Rollings

Lamprologus congoensis *Gambusia holbrooki*

Cnesterodon decemmaculatus *Pelvicachromis pulcher*

Gary Boyer

Pundamilia nyererei "Ruti Island" *Herotilapia multispinosa*

Aplocheilus lineatus

Bressler Family

Chapalichthys peraticus *Mikrogeophagus altispinosus*

Melanotaenia boesemani

Joel Antkowiak

Cryptoheros sajica

BAP Lifetime Achievement Awards

Currently Active ACLC Members

F. Wayne Calender Breeder

Bressler Family	1842 pts
Wayne Calender	1593 pts

Grand Master Breeder

Paul Bricknell	2003 pts
David Stephon	1120 pts
Pedro Sanchez	1050 pts

Master Breeder

Expert Breeder

Bob Kulesa*	812 pts

Advanced Breeder

Joel Antkowiak*	1271 pts

3 Star Breeder

Gary Boyer*	649 pts
Haas/Rollings*	617 pts

2 Star Breeder

Gary Haas*	435 pts
Danny Corman*	425 pts
J/N Dickel	178 pts

1 Star Breeder

Gene Regener	245 pts
Pat Kelly*	165 pts
Clair Klinedinst	146 pts
Glenn Davies*	120 pts
Dave Frehafer	90 pts
Scott Shenk	70 pts
Tony Kline	60 pts
Robin Antkowiak	57 pts
Kurt Johnston	56 pts

Other Participants

David Tangredi	67 pts
Sam Jones	66 pts
The Moyers	37 pts
Lonny Langione	35 pts
Ashley Antkowiak	21 pts
Mackenzie Dalton	14 pts
Charles Vickery	14 pts

**Breeder has enough points for next higher class award but needs to complete one or more classes to achieve the award.*

Specialist Breeder Awards

Currently Active ACLC Members

Class 1—Livebearers

Paul Bricknell (A) — Wayne Calender
Bob Kulesa — Pedro Sanchez
David Stephon — Joel Antkowiak (M)
Bressler Family (M) — Gary Boyer (A)
J/N Dickel — Haas/Rollings (A)

Class 2—Catfish

Wayne Calender — Bob Kulesa
Bressler Family

Class 3—Barbs & Minnows

David Stephon — Paul Bricknell
Bressler Family

Class 4—Characins

Wayne Calender — David Stephon
Danny Corman — Bressler Family

Class 5—Killifish

Bob Kulesa — Wayne Calender
Pedro Sanchez — Paul Bricknell (M)
Bressler Family — Gary Haas

Class 6—Anabantoids

Bressler Family

Class 7—New World Cichlids

Bob Kulesa — Pedro Sanchez
David Stephon — Bressler Family
Paul Bricknell

Class 8—Old World Cichlids

Bob Kulesa — Joel Antkowiak
Bressler Family — Paul Bricknell
Gary Boyer

Class 9—Rainbows & Blue-eyes

Bressler Family

Class 11—Other Aquatic Animals

Bob Kulesa — Joel Antkowiak
Bressler Family — Haas/Rollings
Paul Bricknell — Bressler Family

Class 12—U.S. Native Species

Wayne Calender — Paul Bricknell
Bressler Family

Class 14—All Other FW Fish

Bressler Family

Special Notes

(A) - Designates Advanced Breeder for that Class

(M) - Designates Master Breeder for that Class

Breeder Award Program Information

All ACLC Members in good standing are eligible to participate in the breeders Award Program.

The purpose of the ACLC Breeders Award Program is to promote the keeping and breeding of tropical and marine fish and invertebrates, to recognize and motivate achievement in the hobby, to encourage the development of the skills and knowledge necessary to spawn more difficult species ,to support the CARES program by encouraging the spawning of species endangered in the wild, to share knowledge about breeding techniques and to publish accounts of spawning techniques.

Please use the form on this page to submit spawning reports or for a full copy of the BAP rules and an electronic form submission, go to our website at http://aclcpa.org

The Aquarium Club of Lancaster County - Spawning Report					
Member Name:		Member No.#:		Date:	
Scientific Name:					
Common Name:					
If this is a CARES eligible species, have you registered it in the CARES Program Y/N?					
Tank Tales Article Written Y/N ?		Fish Donated in Auction Y/N?			
Comments:					
Class:		Group:		Points:	
Confirmed by:			Date Confirmed:		

INTERVIEW

Advances in the reintroduction of *Zoogoneticus tequila* in the springs of Teuchitlan, Jalisco, Mexico

By Universidad Michoacana team:
Martina Medina Nava, Luis Humberto Escalera Vázquez, Yvonne Herrerias Diego, Ruben Hernandez Morales, David Tafolla Venegas, Berenice Vital Rodriguez, Mar-Silva V., Ramírez-García A., Mar-Silva L.M., Chávez-G. R.R. and Omar Dominguez Dominguez

Dr. John Lyons of the NAGWG provided us with this very important report with the encouragement to publish it for everyone to read and digest. Due to the length of this report we will have to publish it over several issues. Please enjoy and join the North American Goodeid Working Group and the American Livebearer Association

Have you ever seen tropical palm trees or banana trees in a temperate pine-oak forest? That is one example of the success of non-native species introduced by man in native habitats. Man not only changes environmental characteristics to build houses, streets and cities, he substitutes the local flora and fauna in a direct or indirect way, sometimes to obtain food or services according to the new environment he has created, but sometimes just because it is pretty and he can afford it. In this process of modification, man pushes the native species towards extinction. According to the International Union for Conservation of Nature (IUCN), 39% of extinctions have resulted from the introduction of species, 36% have resulted from habitat destruction, and 23% have resulted from hunting and planned extermination. The most worrisome situation is when one species is extinct worldwide, as this means that this species will never be recovered and we have lost it forever. In some luckier cases, species are extinct in the places where they used to live, but are found in captivity (e.g. zoos, scientific and private collections, research institutes). Under these captive conditions some species have thrived, giving the opportunity to think about the potential for reintroduction of species into their original habitat. One good example is the case of *Zoogonetiucs tequila* in the Teuchitlán River in México.

The reintroduction of an endangered species may be considered as the last opportunity to recover a species in its natural habitat and to reintegrate it into that native ecosystem. Native species reintroduction is feasible if the native environment maintains its ecological “native” properties, or if ecological restoration can be done to reach as close as possible to an “optimum” condition in order to allow the species to live and reproduce. The success of this reintroduction effort will be positive if the reintroduced individuals survive, are able to avoid predators, resist parasites, and produce successful offspring. However, this is not a “just go and put back the species and pray for success” task.

We first need to answer some questions such as: 1) what are the environmental "optimal" conditions for the individuals to live, thrive, and leave successful ofspring? 2) Are conditions of the habitat where the species will be reintroduced suitable to maintain the new population for the long term? and 3) Are the local people conscious of the importance of maintaining the ecological services of the area where the new species is to be restablished? These "simple" questions are not easily answered, but in order to have responses, plenty of data need to be collected, before, during, and after the reintroduction process; data on habitat and water quality, amount and availability of food sources, potential parasites, non-native species, potential competition and predation, and so on. Analyzing these data can give important information about the success or failure of the reintroduction, and this information can be used to guide other reintroduction initiatives or to improve those already in progress. It also is very important to conduct an educational and conciousness-raising program involving the local and regional people, in order to communicate a positive attitude about the aquatic environment and to promote endangerd species conservation.Because of these efforts, the local people may become more protective of the species and its environment.

All of these issues are especially complicated in central Mexico for three reasons. First, the geological history of central Mexico is complex, resulting in a wide variety of aquatic ecosystems with different characteristics and seasonal dynamics, including lakes, rivers, springs, and wetlands. In some cases, the rainy season promotes temporary connections among them. The mix of geological complexity and environmental diversity among aquatic ecosystems makes a perfect combination for cooking biodiversification centers for fishes with many endemics (species limited to a specific small area and found nowhere else). Second, beginning in the 1930's and 1940's, a program to populate freshwater ecosystems with carp (*Cyprinus carpio*) and tilapia (*Oreochromis niloticus*) took place in Mexico, the goal of which was to supply a potential source of protein to local people. Since then, these species have been intentionally and constantly introduced in many aquatic ecosystems. At the same time, the release of small fish kept ornamental purposes has resulted in the spreading of many other species throughout Mexico (see Swift et al. 1993; Miller 2005). Consequently, species such as non-native poeciliids are now very common in many waterbodies in Mexico. Third, most of the Mexican human population (73%) inhabits the central part of the country, and 67% of industrial activities take place in this same region (see Domínguez-Domínguez et al 2008), casuing major impacts on aquatic environments via water consumption, water pollution, and habitat destruction.

Under this scenario, the restoration and resettlement of the native fish fauna is quite complicated. To be successful in the challenge of getting the ecological services and biodiversity back, we must consolidate efforts from different teams and work together in a multidisciplinary way, considering local-people needs, knowledge, and interests (local-people team); ecological properties of the environment and the biology of the species present (biology-study team); options to transfer the technology to simplify techniques for monitoring the fauna, flora, and environment in a long term (monitoring team); the interest of national and international organizations to conserve these unique fish species (sponsor-funding team); and proposed options to manage and conserve the environment, and, at the same time to obtain stable and long-term benefits for the local people (social team). Of course, more teams can be included according to the goal being pursued!

Background Picture: From the GWG website—©Frank Kroenke

One good example of re-establishing a local fish fauna in Mexico is now taking place in the locality of Teuchitlán, Jalisco. This town possesses characteristics that make it particularly attractive as a model for ecological restoration and re-population of the native fish fauna, (e.g., *Zoogoneticus tequila*): 1) an important archeological zone with major tourism potential represented by a large prehispanic settlement known as "Huachimontones"; 2) the use of the Teuchitlán springs and river as a water supply for the people of Teuchitlán; 3) some native fish species that are still present; 4) commercial and ornamental non-native fish species that are quite abundant; 5) river flow that has been modified by a dam used mainly for crop irrigation; 6) local extinction of three endemic fish species which took place around 1990 (*Zoogoneticus tequila*, *Skiffia francesae* and *Notropis amecae*); and espcially 7) local people interested in recovering the local aquatic native biodiversity and promoting conservation, educational programs, and national and international tourism and 8) interest by international conservation organizations to restore the lost ichthyofauna of this unique place.

With the help from researchers from the Universidad Michoacana de San Nicolás Hidalgo (UMSNH) and sponsored by Chester Zoo Garden, Mohammed Bin Zayed Species Conservation Found, Haus des Meeres - Aqua Terra Zoo, Poecilia Scandinavia, Poecilia Netherlands, Missouri Aquarium Society, Deutsche Gesellschaft für Lebendgebärende Zahnkarpfen, British Livebearer Association, Goodeid Working Group, American Livebearers Association, Mexican Commission for the Knowledge and Use of Biodiversity, and Association Beauval Nature Pour la Conservation et la Recherche, a multidisciplinary project began in January 2015 in order to restore and re-populate the Teuchitlán River with native fish species, particularly the goodeid *Zoogoneticus tequila* and the minnow *Notropis amecae*.

In this article we will give a sumary of the work that the team from the UNSNH did in 2015 and early 2016 on the reintroduction project. During that period the work was focused on fish community monitoring and basic species biology (non-native and native and semi-captive and in-situ), to find out which fish species were more competitive and produced more offspring, whether each species carried parasites, and their distribution in relation to river characteristics. The goal was to find the best place for reintroducing the native species based on water quality, and food resources such as zooplankton, phytoplankton, and benthic invertebrates, and the physio-chemical variables that are being monitored. Pooling together data on water and environmental quality indices offers a holistic view to allow selection of the best place for the reintroduction program to begin

Limnological characterization & water quality

The watershed of Teuchitlán River is located in the southern portion of the volcano of Tequila, Jalisco. It is comprised of springs, a first-order river, and an artificial reservoir. It presents a longitudinal progression with changing a total of four environmental variables, 34 physicochemical and five

microbiological parameters were obtained for water following the Mexican Norms standard procedures established for each

(Figure 2). The physicochemical parameters that affect the water quality index in the study period are nine, of which the total

Figure 1.- Sampled sites along the Teuchitlan river.

parameter. The water bodies show basic and moderately mineralized water with high solids loading and ionized compounds. 90% of the sites have a transparency of 100%, with a gradual increase in turbidity downstream, suggesting the accumulation of colloidal and particulate matter in the water. Regarding the nutrient loads, 40% of the sites are classified as mesotrophic to oligotrphic, mainly in the springs, while the remaining sites show a mesotrophic condition, prone to eutrophication. Regarding the water quality index established by the National Water Commission (SEMARNAT, 2007), the sites with better water quality are the springs (S1 and S2 in Figure 2). The sites with high variation in water quality correspond to the "pump channel" (S4) and "presa de la Vega" (S9). The sites with signs of water pollution, are from S3) to spring "Camarena" (S8) except upper river S5

alkalinity and total phosphorus have the highest ranges, indicating the presence of pollution, followed by coliform bacteria load, dissolved oxygen and turbidity.

With regard to the vulnerability of water quality, it is noteworthy that one of the sites with greater variation in this parameter is "La Vega" Reservoir (Dam) (S9), which is considered as a vulnerable system, followed by S7, both attributed to frequent changes in

their physicochemical composition. Sites with less vulnerability correspond to the springs "El Rincon" (S1), spring La Alberca (S2), the meander and the upper section of the Teuchitlán river (S5) were the river begins (Fig. 2).

Figure 2.- Results of water quality index of the nine sample sites. In green is acceptable water quality and in yellow sites with signs of water pollution. **S1**. Spring La Alberca, **S2**. Spring El Rincon, **S3**. Trough, **S4**.Canal Pumping, **S5**.High Section Teuchitlán River, **S6**.Teuchitlan bridge water park, **S7**. River mouth Teuchitlan, **S8**. Spring "Camarena", **S9**. De La Vega Dam "Lic. Santiago Camarena".

Phytoplankton community

Planktonic microflora is essential for the optimal development of insect larvae, copepods, cladocerans and other primary consumers, and also as a food source for the endemic fish of Teuchitlán. For the phytoplankton community, 47 taxa were identified belonging to four Phyla, 5 classes, 15 orders, 24 families, 33 genera and 46 species. Ochrophyta had the highest species richness, followed by Chlorophyta, Cyanobacteria and Charophyta. Algal abundance was led by Ochrophyta followed by Chlorophyta and Cyanobacteria. In general, the phytoplankton was dominated by diatoms at all sites, followed by green algae, cyanobacteria and charophytes (Fig. 3).

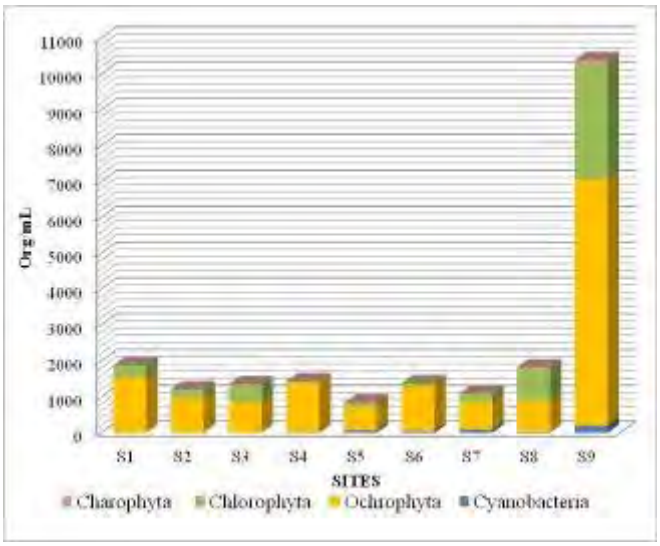


Figure 3. Variation in the abundance of phytoplankton by site. Site legend corresponds to those in Figure 1.

The most abundant species during the study were: *Scenedesmus dispar, Scenedesmus opoliensis, Pediastrum simplex, Cyclotella menenghiniana, Achnanthidium minutissimum, Gomphonema olivaceum, Surirella elegans, Nitzchia amphibia, Thalassiosira weisflogii, Cyclotella meneghiniana, Tetraedron minimum, Chrooccocus dispersus* and *Monoraphidium contortum* (Fig. 4).

Figure 4. Genera of phytoplankton identify in the area. A *Chroococcus,* B. *Cocconeis* and C. *Frustulia.*

The evaluation of trophic status in the study area based on algal association indicates a mesotrophic to eutrophic condition in these aquatic systems (Nygaard index; Table 1), suggesting that the watershed is in the process of eutrophication. Sites with greater availability of autotrophic planktonic organisms are S4, S8 and S9, while S1 and S2 havea small number of organisms. The mesotrophic condition prevails in the springs of the upper Teuchitlán River, while from the S4 downward the algal associations suggest the development of eutrophic conditions culminating in a eutrophic category with a tendency to hypertrophy at the S9 (dam "La Vega") (Table 1).

Table 1. Trophic status based on the index Nygaard

SITE	TROPHIC STATE
S1 Spring "pool"	Mesotrophic
S2 Spring "El Rincón"	Mesotrophic
S3 Trough	Mesotrophic
S4 Pumping channel	Eutrophic
S5 Teuchitlan upper river	Eutrophic
S6 Teuchitlan middle river	Eutrophic
S7 Teuchitlan mouth river	Eutrophic
S8 Spring "Camarena"	Eutrophic
S9 Dam "La Vega"	Eutrophic to Hypertrophic

Zooplankton community

Twenty-eight taxa of zooplankton were identified, belonging to 7 Phylum, 1 Superclass, 8 classes, five subclasses, 5 superorder, 10 orders, 3 subfamilies, 10 families, 16 genera and 28 species. Zooplankton is represented in most places by Copepoda, Rotifera, Cladocera, Ostracoda and protozoa groups (Fig 5).

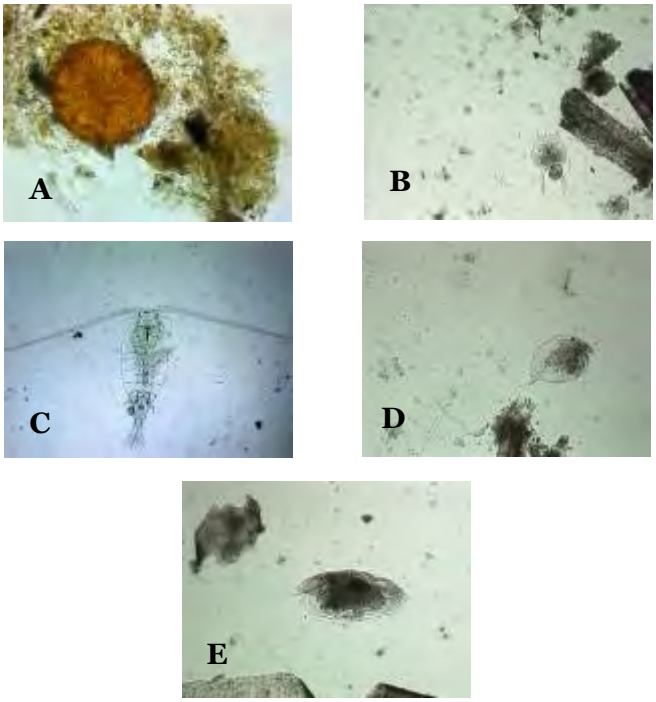


Figure 5. Zooplnkton community. A) protozoa, B) Rotifer, C) Copepod, D) Cladoceran, E) Ostracod.

Regarding its distribution, zooplankton was common in all the sites of the stream, principally Copepod and Cladocera. "La Vega" dam (S9 in Fig. 1) had the most zooplankton diversity.

The most abundant zooplankton group was calanoid copepods, followed by cyclopoid copepods and rotifers.. Cyclopoid copepods and rotifers had the greatest species richness. The calanoid group was not present at S6 and S7, while rotifers and cladocerans were absent at S1 and S2, ostracods at S1, S2 and S3, and cyclopoids only at S2. Protozoa was the only group present at all sample sites. The sites with most diversity and abundance of zooplankton were S9 (Presa La Vega), followed by S8 (spring Camarena). Sites S1 and S2 had the lowest diversity and abundance (see Figure 1). The most common species across all sites was *Mastigodiaptomus patzcuarensis*. The presence of this species is related to a warm, oxygenated, slightly basic column of water that was moderately soft and productive, with moderate concentrations of nutrients derived from organic matter mineralization.

.....continued in the next issue of Tank Tales

The Tropical Fish Society of Rhode Island's
46th Annual Aquarium Show and Auction

Schedule of Events

Friday, September 9, 2016

12:00 Noon-8:00 PM - Show Setup

Saturday, September 10

9:00 AM-12 Noon - Show Setup & Viewing

Sunday, September 11

9:00 AM Doors Open, Show Viewing
10:00 AM-11:45 AM Vendor Registration & Lot Viewing
11:45 AM Show Award Presentation
12:00 Auction Starts. Ends when last lot is sold.
3:00 PM Show fish may be removed.

Triple Crown Fish Auction

TFSRI's split is $3 per bag sold, all the rest goes to the seller.

St. Joseph's Parish Center
1303 Mendon Road (Rte. 122)
Cumberland, RI

Show classes:

Class A: Betta splendens - (male)
Class B: Guppies - (male)
Class C: Killifish - (male)
Class D: Anabantoids (other than B. splendens)
Class E: Catfish - (Corys, Brochis, & Aspidoras)
Class F: Catfish - (Open, other than class E)
Class G: Cichlids (Old world)
Class H: Cichlids (New world)
Class J: Goldfish & Koi under 3"
Class K: Goldfish & Koi over 3"
Class L: Loaches & Botias
Class M: Livebearers - (other than male guppies)
Class N: Open Single Invertebrate
Class O: Native Fish
Class P: Open Single under 2"
Class Q: Open Single over 2"
Class R: Open Pairs
(Classes subject to change without notice)

Cash Prizes!

Cash Prizes: 1st Place - $20, 2nd Place - $10, 3rd Place - $5

Special awards for:

Best of Show
Reserve of Show
Walter Indell Memorial Award for Best Killifish
Best Cichlid of Show Award
New England Goldfish Championship

FOR MORE INFORMATION CONTACT:

Al Wagonblott (401) 847-3364
mr_wiggles_sr@hotmail.com

Visit: **www.tfsri.net** for complete show & auction rules.

The Tropical Fish Society of Rhode Island meets on the third Wednesday of each month (except December). Meetings are free and all are welcome
Go to **www.tfsri.net** for meeting location.

Spring Auction May 1, 2016

Fall Auction September 11, 2016

FALL AUCTION!!!! September 11, 2016
Our club's Fall auction is rapidly approaching
(412) 372-1837
Garden City Banquet Hall
https://g.co/kgs/p9jBP .

From the turnpike:
Take exit 57 (three exits east of old location).

Stay to the left after the toll plaza to get on US22 west.

Stay right on 22 and make very first right onto PA48
Mossside Blvd (old Haymaker Rd)

Left at first light onto Old William Penn.

Right at second stop sign onto Garden City Drive.

Straight thru three stop signs

Parking lot for Garden city hall will be on your right immediately after Ron's service station. **Garden city hall is** just after the parking lot on Garden City Drive. **If you get to fourth** sip sign you've gone too far.

Greater Pittsburgh Aquarium Society Inc.

Both our Spring & Fall Auctions will be held at:

Garden City Hall
600 Garden City Drive
Monroeville, Pa 15146

Doors Open at: *9:00am*
Registration: *9:30am - 1:00pm* (NO Exceptions after 1pm)
Auction Starts: *11:00am*

* NEW Location * NEW Kitchen *
*** SAME GREAT AUCTION ***

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NORTH JERSEY AQUARIUM SOCIETY

GIANT FALL

TROPICAL FISH AUCTION

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SUNDAY ... OCT. 9, 2016

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RARE AND TANK BRED FISH & PLANTS!

Find us on Facebook

AUCTION STARTS AT 12 NOON

VIEWING 11:00 AM ... REGISTRATION 9:00 AM

NJAS

GO TO: www.njas.net for pre-registration & auction rules

NJAS is a New Jersey registered non-profit all-volunteer aquarium hobby society . Established 1953.

Welcome to the Convention!

On behalf of the Potomac Valley Aquarium Society, welcome to the All-Aquarium Catfish Convention 2016! Please check our website at www.catfishcon.com for all the information you need about attending the convention.

Join the PVAS Forum and follow us on Facebook!

Read breaking news on the convention; Find a roommate; Get your questions answered quickly; Tell us what you're bringing; Talk to fellow conventioneers; etc.

Please visit the Sponsors Page to see who is supporting our great convention!

Check out the fantastic vendors and manufacturers showing at our convention.

And be sure to check out all the sites Washington DC and Northern Virginia have to offer.

Brought to you by:

Potomac Valley Aquarium Society

www.pvas.com

Hyatt Regency Dulles

2300 Dulles Corner Blvd.
Herndon, VA 20171
(703) 713-1234
www.hyatt.com

All-Aquarium Catfish Convention 2016

BREED 'EM & WEEP!

October 13-16, 2016
Herndon, Virginia

www.CatfishCon.com

Thursday, October 13 — FREE NIGHT!

****FREE Preview Mini-Convention****

7:30pm Anton Lamboj: Mouthbrooders with a Family Life - Benitochromis and Chromidotilapia
9:00pm Eric Bodrock: 35 Years of Killifish!
10:00pm Hans Evers: Malili Lakes - Sulawesi Shrimps Visited in their Natural Habitats

Friday, October 14

7:00pm Ingo Seidel: Loricariids of the Genus Pseudacanthicus
8:00pm Regina Spotti: The Forgotten and the Overlooked - My Take on Little Brown Catfishes

Saturday, October 15

9:30am Stephan Tanner: Ecological Niches and Diet in Catfishes: Assumptions and Science
11:00am Barbie Fiorentino: Breeding Ancistrus
1:00pm Brooks Burr: Natural History of North American Catfishes (Ictaluridae)
2:30pm Ingo Seidel: Woodcats – Species, Habitats and Breeding
4:00pm Hans Evers: What's New in Corydoras
5:30pm Pleco Breeding Forum: Dale Ernst, Barbie Fiorentino, Ingo Seidel, Stephan Tanner
8:00pm Banquet/Anton Lamboj: The Secret World of West African Catfish

Sunday, October 16

All Day Auction

Anton Lamboj

Brooks Burr

Ingo Seidel

Regina Spotti

Hans Evers

Eric Bodrock

Barbie Fiorentino

Stephan Tanner

- FIELD TRIPS
- HOSPITALITY SUITES
- VENDORS
- MANUFACTURER'S DISPLAYS
- "SPREE ON THREE" IN-ROOM FISH SALES FRIDAY NIGHT
- CLUBS
- RAFFLE PRIZES
- LIVE FISH RAFFLES
- ALL DAY AUCTON ON SUNDAY

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Free Parking • Free Refreshments

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Or Call BAS 24 Hr. Calendar of Events Hotline (718) 837-4455

Car Directions: Belt Parkway to Ocean Parkway South (Exit 7S). Take Ocean Parkway approx. 1/2 mile. The NY Aquarium will be on your left.
Subway Directions: Either the Q or F trains to West 8th St., NY Aquarium Station.

Reef Conservation Society

FALL 2016 FRAG SWAP

October 15, 2016
11 AM to 5 PM

That Fish Place
237 Centerville Rd.
Lancaster, PA

$10/person or
$20/family
Under 18 free

Lunch included
Raffle at 3 PM

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Sunday Oct 30, 2016
12 noon

Holiday Inn
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For more information
David & Janine 372-8716 dbanks@together.net
Ann Whitman 434-3294 awhitman@madriver.com
Brian Candib 864-0746 BCandib@comcast.net

www.tfcb.org

Project
PIABA
Buy a Fish, Save a Tree!

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Join the expedition to the Rio Negro River in Brazil and observe all aspects of the home aquarium fishery.

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- 2 weeks on a well appointed live-aboard boat
- Visit biological hotspots
- Visit Fishing communities
- Participate in the Ornamental Fish Festival of Barcelos
- Visit home aquarium fish export facilities
- Visit the world-famous Manaus Opera House

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SDowd@NEAq.org
(617) 973-5243

Project
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Cardinal Tetra (Paracheirodon axelrodi)

Project Piaba's mission is to increase the environmental, animal welfare and social sustainability of the Amazonian aquarium fish trade as well as the Amazon itself and its indigenous people.

- 40,000 people are impacted in the riverine communities in Barcelos (Amazonas state, Brazil) where the home aquarium fishery is the principal subsistence activity.
- The wild-caught fish of the Rio Negro are the first live animals to gain Geographic Indication Certification, like Champagne is to France.
- 46,000 square miles of preserved forest is in the Project Piaba study area.
- Approximately 80% of trade from the artisanal fishery is from a single species, the Cardinal Tetra (Paracheirodon axelrodi)