Tank Tales™

The Official Publication of the Aquarium Club of Lancaster County, Inc.

May 2016 Volume 45, No. 5

photo of a Blue Crab by Jessica Parker, student at North Caroll High School

THAT fish PLACE
THAT pet PLACE

Everything Pets For Less

Exclusively for Our Pet Rewards Members

Don't have a card? Sign up today
for FREE in our retail store!

237 Centerville Rd., Lancaster • 717.299.5691

Sales Valid in our Retail Store through 5/31/2016

Connect With Us Online:

That Fish Sale

Choose Your Own Day!

THAT FISH PLACE - THAT PET PLACE • IN-STORE COUPON

25% off All That Fish Place Fish, Live Plants, Live Corals, Inverts, Frags & Live Rock

Valid through 5/31/2016 with this coupon & your Pet Rewards Card at That Fish Place - That Pet Place, Lancaster, PA retail store. Not valid with any other TFP/TPP coupons, offers, price matches, out of stock items & prior purchases. Excludes quantity discounts, algae packs, feeder fish & plant packs. **PC**

SF25LS160531

THAT FISH PLACE - THAT PET PLACE • IN-STORE COUPON

TAKE AN ADDITIONAL 15% off YOUR ENTIRE PURCHASE OF AQUARIUM ITEMS

$29.99 OR MORE

VALID ON SALE ITEMS & SALT!

Valid through 5/31/2016 with this coupon and your Pet Rewards Card at That Fish Place – That Pet Place, Lancaster PA retail store. Discount applied based on pre tax total. Not valid with any other TFP/TPP coupons, offers, price matches, or on out of stock items, prior purchases & special orders. Excludes tank ensembles, pond items, aquarium livestock, CoralVue, Maxspect, Reef Octopus & EcoTech Marine products. **PC**

SF15AS160531

SAVE 20%

NEW!

Supreme®

EZ Clean External Aquarium Filter

With built-in gravel cleaner!

SAVE 20%

hydor®

Koralia SmartWave Wave Pump Timer

Recreate natural currents & promote a healthy aquarium!

MARINELAND®

SAVE 10%

Select Aquatic Plant LED Light Systems

Select Advanced & Reef LED Strip Lights

Select LED Strip Lights

SAVE 10%

AQUEON

Water Changers & Siphons

SAVE 5%

Tetra
Whisper Air Pumps

SAVE 20%

hydor®

Nano Skim & Slim Skim Internal Protein Skimmers

SAVE 15%

Tetra
Whisper EX Cartridges

SAVE 10%

Tetra
Whisper EX Power Filters

POND SEASON IS HERE!

SAVE 10%

CORALIFE®

Pond Turbo Twist UV Sterilizers

20% OFF Koi Growth & Color Pond Fish Food

PURE aquatic™

Aquarium Club of Lancaster County

Presents

Dr. Anthony Mazaroll

Fishes of Cambodia

Dr. Anthony Mazeroll has been collecting and importing fishes from all over the world. He has collected fish in Colombia, Peru, Cambodia, Thailand, and Southern California!!! In his talk, he will show you some of the fishes he has collected and the perils of collecting.

At Soka University, Dr. Mazeroll teaches fish biology, fresh water ecology, aquaculture, marine biology, aquatic conservation, and alien invaders (a course on invasive exotic organisms).

He converted his 2 car garage into a fish room that is filled with wild and domesticated discus, wild and domesticated Bettas, and African cichlids. In his family room he built a 400 gallon corner tank that is now a South American biotype tank filled with wild Brazilian discus. At the university, Dr. Mazeroll maintains three green houses and a fish room filled with over 3000 gallons of tanks and vats of fish.

He is a professor of Biology and Environmental Studies at Soka University of America who specializes in fish conservation and ecology. Dr. Mazeroll has travelled all over the world for his research from the Red Sea (Israel, Egypt, and Jordan) where he researched daily movement patterns of coral reef fishes as well as ecology of clownfish, to the Sea of Cortez where he studied the feeding behavior of the guineafowl puffer, to the Peruvian Amazon where he is studying the population genetics and dispersal patterns of discus and angelfish, as well as the impacts of invasive exotic fishes, to Cambodia where he is researching the effects of tilapia on the biodiversity of the aquatic environment.

Time & Place

Saturday

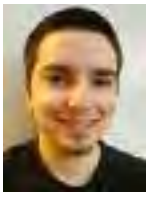
May 21st

1:00 PM

Bird-in-Hand Fire Co.
313 Enterprise Dr.
Bird-in-Hand PA 17505

2016 ACLC Board of Directors

President
Jack Lafayett
717-371-0322
president@aclcpa.org



Vice-President
Michael Buchma

vicepresident@aclcpa.org

Treasurer
Tim Brady
570-385-0573
treasurer@aclcpa.org

Secretary
Gary Haas
410-939-5993
secretary@aclcpa.org

Programs Director
Vacant
programs@aclcpa.org

Public Relations Director
Vacant
publicrelations@aclcpa.org

Past President
Kurt Johnston
717-965-7763
pastpresident@aclcpa.org

Financial Director
Vacant

Tank Tales is the official publication of the Aquarium Club of Lancaster County (ACLC). Ten issues of TankTales are published annually. Anyone using original material from any issue of Tank Tales must return two (2) copies of the publication in which the article is published to our exchange editor listed below. The views expressed in any material appearing in Tank Tales are those of the authors, and do not necessarily express those of the ACLC.

The ACLC meets on the third Saturday of each month (except July and August) at Bird-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, door prizes, 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. Membership application can be found online at http://www.aclcpa.org/about-the-aclc/join-us

Lifetime Members of the ACLC™

Joel Antkowiak, Rich Bressler, Paul Bricknell, F. Wayne Calender, Pedro Sanchez, David Stephon

2016 ACLC Committee Chairs

Editor: Karen Haas 610-573-6388 editor@aclcpa.org
Exchange Editor: Kurt Johnston 717-965-7763 exchange@aclcpa.org
Web Master: Kurt Johnston 717-965-7763 webmaster@aclcpa.org
Social Chair: Tim Brady 570-385-0573 social@aclcpa.org
Horticultural Chair: Michael Buchma HAP@aclcpa.org
BAP Chair: Gary Haas 410-939-5993 BAP@aclcpa.org
CARES Chair: Gary Haas 410-939-5993 CARES@aclcpa.org
Auction Chair: Danny Corman 717-564-6888 auction@aclcpa.org
Raffle Chair: Mike Mull 717-824-5379 raffle@aclcpa.org
Audit Chair: Vacant audit@aclcpa.org
WAAP Chair: Joel Antkowiak 717-354-2274 waap@aclcpa.org
Membership Chair: Mary Crittenden 717-856-4572 membership@aclcpa.org
Corporate Sponsor Chair: Joel Antkowiak sponsor@aclcpa.org
Speaker Coordinator: Alan Rollings 484-522-8323
Annual Auction Chair: Joel Antkowiak 717-354-2274

Tank Tales submission deadline is the first Saturday of the month.

Hunting 2

By Gary Haas

Shhh. Today we hunt annulatus. Baby *Epiplatys annulatus*, tiny pinhead-sized triangles barely opaque and barely visible just below the water surface, loitering near the duckweed and the ailing water sprite. Visible only when they stray into open water (a relative term in a tall 4-gallon tank), or when silhouetted above a water sprite leaf barely awash, or sometimes as a ghostly shadow beneath a pallid floating leaf. The adults lurk below, nervous about the hulking presence above the surface (me), but hopeful that somehow they will get a tasty treat. Use a chum of baby brine shrimp to distract the adults, and to lure babies away from cover.

No net today. My weapons are a transparent plastic spoon and a long, thin pipette, delicate tools for delicate prey. Lower the spoon into water near (not too near!) the unsuspecting baby, kiss the surface tension, sidle up closer, then tip the spoon and dip it just enough to deliver an inrush of surface water, hopefully sweeping up baby as well. Sometimes the water brings with it other babies from their hiding places under nearby leaves, more often it brings the little pinpoint-size hopping water bugs that hop right back out. Hopefully to become food for the adult annulatus, who are attracted to the activity at the surface. Better the adults eat bugs than babies. The babies that escape the spoon often dive down, away from the surface, beyond my limited ability to see them. Their faint “Dive! Dive! Ah-ooga! Ah-ooga!” is below the threshold of my hearing. Below the surface they are too small for my eyes to focus on, and they melt into the invisibility of the water. They will be back in a minute, the surface is their security. Except for me.

When I occasionally succeed in detecting a baby sub-surface, the pipette comes into play. Success with the pipette requires a steadier hand than I can usually muster; it is used only for babies who have figured out how to evade the surface-bound spoon, but are overconfident and unaware of the bumbling approach of the pipette tip. It is usually a method to not catch babies.

I used to collect eggs from a spawning mop suspended in the annulatus tank. The eggs are transparent and tiny, the tiniest of any killifish I have ever kept. The light has to hit them just right for them to be visible at all. I collected few. Then I discovered that under the right viewing conditions, babies are easier to see than eggs. Unlike eggs, babies are at least semi-opaque. Appropriate viewing conditions are, eight inches from my eyes, with the tank lit from the side. No glare on the surface and not too much duckweed. Eyes tuned to see babies. This requires scanning the surface for a couple minutes, and somehow it just happens. Or sometimes it doesn’t.

There may be more conditions as well, I have not experimented to determine other ways to NOT catch babies.

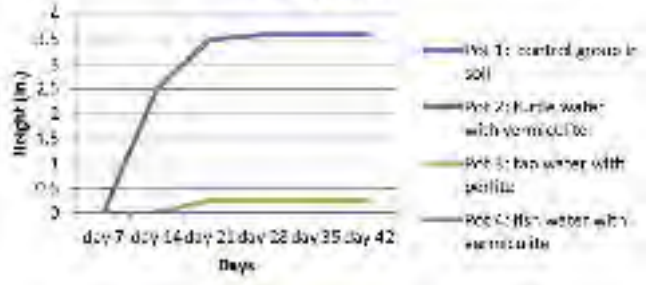
The Effects of Water Quality On Parsley Growth Rate

By Zach Uggowitzer, 16, North Carroll High School

The purpose of the study was to identify the causes of stunted plant growth in the hydroponics system and how the pH, nitrite, nitrate, and ammonia levels can affect plant growth.

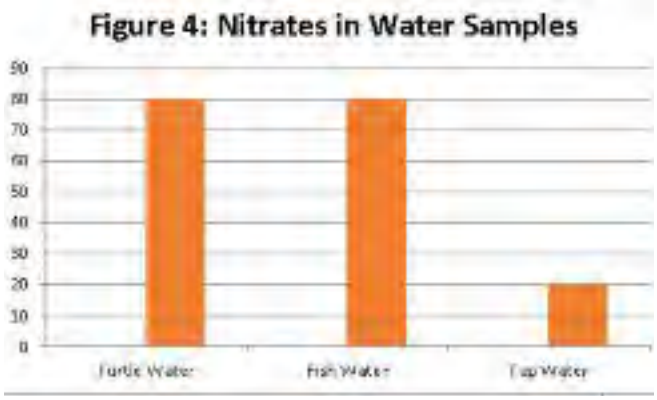
In the experiment, my group put four *Petroselinum crispum* plants in various soil types: two in vermiculite, one in perlite, and one in soil as a control group, and they were watered with various water from different tanks. Our group performed a water quality test later on to find the levels of ammonia, nitrite, nitrate, and pH. It was found that the water from tank one, which had turtles, had high amounts of nitrate and was at a pH that *P. crispum* can not tolerate. The water from tank two that had fish in it had high amounts of nitrate, it was at a high pH, and it had traces of ammonia, possibly from decomposing waste or decomposing food. The other two were watered with tap water.

Figure 1: Plant height over 42 days for *P. crispum*



The plants watered with tap water were the only plants that actually grew. I don't think they were affected by the nitrate because according to a paper by Cornell University (2005), plants use nitrate in getting energy by using bacteria to convert nitrogen gas from the atmosphere into ammonia, which they turn into nitrates that can be used for energy. (Johnson, Albrecht, Ketterings, Beckman & Stockin, 2005) The plant in the perlite only grew very small and the plant in soil grew larger, but they didn't reach adulthood and died after 6 weeks ending the experiment. It was probable that the P. crispum in the hydroponics system died from not having enough soil to grow taller or even grow at all. They may have also not survived because the plants couldn't tolerate the high pH levels in the water they were given. According to the University of Minnesota, P. crispum can only tolerate pH levels from 6.0 to 7.0, which means they died or didn't grow due to this factor. (Growing Parsley, 2013)

Figure 4: Nitrates in Water Samples



A t-test was performed between the heights of the two *P. crispum* and it turned out that the results of the t-test were very statistically significant, meaning that the difference in height was not due to randomness. How our group took care of the plants was that our group watered the plants pretty much every day and we measured their height every 7 days. It took about 2 weeks for the *P. crispum* to begin sprouting.

Figure 2: Growth Rates Over 42 days for *P. crispum*

The field of science this could benefit is the fields of agriscience and the developing practice of vertical farming, where plants are grown in a large building in towers and are watered with water that is continuously recycled, saving water that is wasted during normal farming. I would like studies in the future to perform tests on the water every week to see if there is a correlation between the results of the water quality and the heights of the plants, And, also every week to perform a t-test to see if the results are significant between the water quality and the plant heights.

My Experience With Marine and Freshwater Organisms

By Zachary Leitner,16, North Carroll High School

I am Zachary Leitner, I attend North Carroll High School and am a junior. Nine science classes have been taken so far in my high school career, most involving aquatics in some aspect. I have always had an interest with aquatics, especially marine systems.

When I was in fifth grade, the first of many aquariums was acquired, my 47 gallon. Being younger and less educated many organisms did not thrive as well as they do currently. I got the second tank in sixth grade and so on with the long endeavors along the way. Many species of freshwater and saltwater are kept and maintained at my house. I currently own six aquariums and five betta fish bowls. Three of the systems are freshwater, not including the betta fish bowls, and three of them are saltwater. I own a 60 gallon saltwater that houses a variety of fish, I also own a 75 gallon freshwater, 47 gallon freshwater, 10 gallon freshwater. I own a 29 gallon saltwater aquarium that used to house a 2 foot snowflake moray eel that was 4 years old. Unfortunately, it died due to age, now the system is a reef tank. The reef tank now houses multiple corals and invertabrates with 2 fish. My last saltwater tank I own is an 8 gallon nano tank, it used to house feather duster worms, but now the aquarium will be converted to a nano freshwater tank. I have also had past experience with angelfish, moray eels, butterflyfish, wrasse, tangs, crabs, anemones, filefish, gobies, blennies, lionfish, rabbitfish, chromis, and others. I have had most of my aquariums for many years ranging from my oldest tank being my 47 gallon freshwater.

I have spent countless hours and money on my systems to maintain them. I am the only person in my family with the interest, meaning I have paid for every system and own them all. Having most of these systems for multiple years, much has been observed in them, fish behavior, disease, reproduction, and more. When fish are sick, or a disease has been contracted, a “hospital tank” or quarantine tank is used to separate the disease and kill it off. Most of the time treatment for the fish is successful. When organisms are introduced into the systems I acclimate each organism for up to 1 hour and slowly add small portions of the water to balance out the water parameters and prevent shock to the organism. Finally with the systems I own, coral reproduction has been successful and many species of coral have grown and propagated.

I am currently in a science research II class where I study marine life and maintain most of the marine systems. Most recently I have done a study on a yellow tangs behavioral habits over the course of time. I had written a research paper with all of my data pertaining to this study. Every day for the past 2 months I had watched the yellow tang and every other day I had checked the water quality. The tang had contracted a bacterial infection and the disease, Ich, and housed in a “hospital” quarantine tank. Eventually after specific treatments and stress relief for the tang, both the infection and Ich were cured. The previous year I had done a study comparing the behaviors of an arrow crab and a horseshoe crab. My study about the yellow tang had refuted internet information explaining that yellow tangs are moderately aggressive, the yellow tang I housed was peaceful and not aggressive. On April 15, 2016 the yellow tang died due to unknown causes, but death may have been caused by stress from other organisms.

I plan to do a research project in about a month on the scopas tang and study its behavior compared to the yellow tang as they both belong to the same genus, *Zebrasoma*. More specifically, the purpose of the future study is to see if it reacts the same way with the other organisms as the yellow tang did.

BEHAVIORS OF *BETTA SMARAGDINA*

By Benjamin Gantz, 16, North Carroll High School

Figure 1: The male Emerald Betta used in the study.

The main purpose of this study was to compare the behaviors of the wild *Betta smaragdina*, or the Emerald Betta with the commonly kept *Betta splendens*, or Siamese Fighting Fish, which is a well-known and widely available species. Four juvenile *B. splendens* were used in the study while one adult male *B. smaragdina* was kept.

The *B. smaragdina* in the study was purchased online. When it was received in the mail it was highly discolored and lethargic. This was due to stress and not poor water quality because after being placed in its aquarium for the study it quickly regained its colors.

As the study progressed both *B. smaragdina* and *B. splendens* began relating to me with food and so approached the front of their aquariums and anticipated food when I approached. The main difference in this behavior was that *B. smaragdina* seemed more agile and swam quicker than *B. splendens*. When flakes were given *B. smaragdina* also fed more aggressively. Overall, the *B. splendens* in the study moved more slowly and did not seem as aggressive.

This study's findings are useful because behavioral studies can show if *B. smaragdina* is suitable for keeping in community aquariums or how pairs should be kept together if they are being bred. It can also show how they may interact with other fish and aquatic species in their natural or introduced habitats. If *B. smaragdina* is bred selectively, new colors or fin shapes, as with *B. splendens* may emerge. If these fish breed in a natural setting then natural selection would be responsible for coloration and finnage. If this species of fish becomes more popular in the aquarium hobby, then breeders would be able to make a profit from selling them to private aquarists and pet shops. If I were to do related studies in the future I would most likely keep both males and females of different betta species, possibly try to breed them, and keep them with other nonrelated fish species. I would like related studies in the future to compare behaviors of different betta species such as *B. pugnax* or *B. imbellis* to get a better understanding for how to keep them in aquariums. Further questions that need to be asked include: "Are certain betta species hardier than others?" and, "Are certain betta species more likely to be aggressive towards other species of fishes?" This study concludes that *B. smaragdina* is usually more aggressive and agile than *B. splendens*.

Work Cited:
"Betta smaragdina Emerald Betta". *Seriouslyfish.com*. n.p n.d. Web. 4/16/16.

Poecilia reticulata Mortality from *Ichthyophthirius multifiliis*

By Brittney Leister, 16, Lab Partner: Kaleigh Mateleska, 16, North Carroll High School

The purposes of this study included determining possible causes of mortality, and development of *Ichthyophthirius multifiliis*, as monitored in Fancy Guppy, *Poecilia reticulata*, from birth to adulthood. The *P. reticulata* in the study contracted one of the common fish diseases, Ich (ick), *Ichthyophthirius multifiliis*. This may be due to close contact and higher stress levels[1]. All fish will eventually be exposed to ich. There are several treatments for ich, but if they are not administered correctly or to the wrong tank, they can cause serious problems with the fish and other inhabitants[1].

The life cycle of *I. multifiliis* can be very complicated but is vital in the understanding of treatment and prevention of the disease. The first step is when *I. multifiliis*, described as a trophont, attaches to the side of the fish[1]. The protozoa will feed on the skin and tissue causing irritation. The fish tries to encapsulate the protozoa creating a cyst. This encapsulation is one of the reasons that ich is so difficult to treat during the early stages of the disease. Medications are unable to penetrate through the wall of the cyst to reach the protozoa. The protozoa will then burst through the cyst wall and then sink to the bottom of the aquarium. *I. multifiliis* begins to divide into hundreds of new ich-infecting protozoa called tomites. The tomites swim around the tank in search for a fish to attach to. Once attached to a fish, the cycle will start over again. During this stage that ich is most susceptible to treatment. Tomites will only survive for 48 hours if they do not find a fish to attach to. Tomites may also attach to plants, filter material, or any other living item. Depending on the water temperature, the whole cycle can take from 4 days to several weeks[1].

Ich is so widespread that many experts feel that it is present in the environment of most aquariums[1]. Because the disease is so widespread, most fish have developed a good immune resistance and antibodies against the disease to allow them to fight off the protozoan infection. Since all fish are exposed to *I. multifiliis* sometime in their lives, the question is when do the fish actually get sick? Captive fish that develop ich usually get the disease when their immune systems are not functioning as well as they should be, most likely because of stress. Too much stress can lower the functionality of the immune system that is when ich is most prevalent[1]. In this study, new guppies were added to an existing *P. reticulata* tank and nitrate levels

P. reticulata in fish tank Photo by: Brittney Leister

remained high; thus causing stress on the *P. reticulata*.

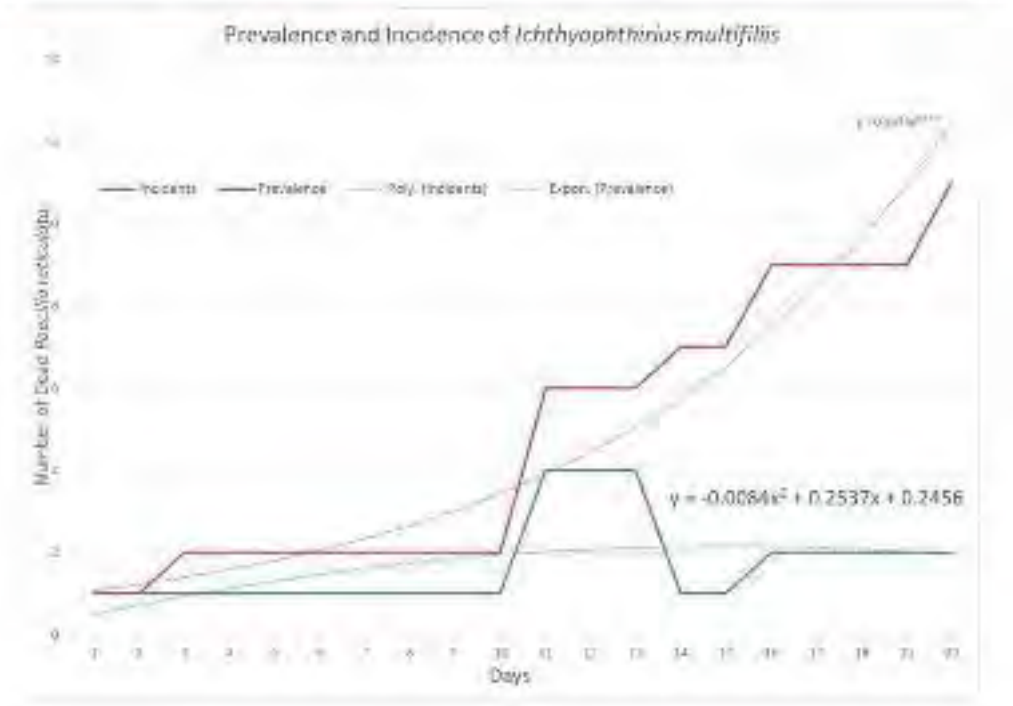
The first identified stressor was the water quality. Another stressor was when the new *P. reticulata* was introduced to the tank a week before the first death. The new *P. reticulata* can be a contributing factor to more stressors. For example, *P. reticulata* may not have been fed enough flakes in the right sizes to accommodate for all twelve fish. Another stressor was since there were more males added to the tank they would want to court and copulate with the females. The attempts to copulate can add more stress to the female, if she does not wish to copulate, and to the male since he will keep trying. When the fish reached their max stress levels they became infected with *I. multifiliis*. The fish were unable to fight off *I. multifiliis* because of the weakened immune system.

The incidence and prevalence of *I. multifiliis* was noted for each death. The incidence and prevalence help represent the deaths of the *P. reticulata*. Incidence is deaths over time and prevalence is total deaths over time. On day one, March 8, 2016, only one fish dead occurred. March 10, 2016, day 3, one fish died now totaling two deaths. On March 18, 2016, four fish died, totaling 6 deaths. Three days later on March 21, 2016, another fish died, increasing the total deaths to be 7. Two fish deaths happened on March 23, 2016, totaling at 9 deaths. The final deaths occurred on March 27, 2016. With 2 final deaths. The grand total of deaths is 11.

A graphed out representation of the incidence and prevalence was created. The curve of best fit was added and the equation for the incidence is $y = -0.0084x^2 + 0.2537x + 0.2456$. The equation for the prevalence curve of best fit is $y = 0.9474e^{0.129x}$. To find the length of the curve the

formula $\int_a^b \sqrt{(1+f'(x))}\,dx$ was used. The length of the incidence curve is approximately 20.0558 and the length of the prevalence curve is approximately 24.043. The curve of best fit shows a general trend of the data. The length of the curve suggests at what time deaths occur. The larger the number, later on there will be more deaths. A longer line may also suggest a longer incubation period for the disease causing agent. The shorter the line the less likely there is a definite cause of death. This is because there is always consistent rate of death in any given population. The length of the curve may also help determine what the disease causing agent may be. If the study were to be reproduced, the curve would help determine at what time the *P. reticulata* would begin to die. In this study day 11 is when the majority of P. reticulata died. Treatment would have needed to be given before that date to potentially save those *P. reticulata*.

Date	Incidents	Fraction	Decimal	Percentage		Prevalence	Fraction	Decimal	Prevalence
9-Mar	1	1/12	0.0833	8.33%		1	1/12	0.083	8.33%
13-Mar	1	1/12	0.0833	8.33%		2	1/6	0.167	16.67%
18-Mar	4	1/3	0.3333	33.33%		6	1/2	0.500	50.00%
20-Mar	1	1/12	0.0833	8.33%		7	7/12	0.583	58.33%
25-Mar	3	1/4	0.1667	16.67%		9	3/4	0.750	75.00%
27-Mar	2	1/6	0.1667	16.67%		11	11/12	0.917	91.67%



There are quite a few issues and concerns that need to be addressed. Once all the *P. reticulata* had died the tank needed to be cleaned, this is because *I. multifiliis* can attach to anything in the tank. The tank and all items in the tank were cleaned and scrubbed out with hot salt water. 5 tablespoons worth of salt per gallon was used in the mix. The concern is, is *I. multifiliis* still present in or on anything and how would one tell? Even now that the tank and items were cleaned, are they really clean?

Another concern is the fact that there is a protozoa present and needs to be handled. The deceased *P. reticulata* needs to be disposed of. Any part of an infected *P. reticulata* cannot touch anything that will go into another tank. If this were to occur the other tank may now easily become infected with *Ichthyophthirius multifiliis*. There needs to be a clearer guideline as to how to properly dispose of or clean any contaminated material or fish.

References
1. Dr. Fisher, n.d. retrieved from http://www.peteducation.com/article.cfm?c=162160&aid=2421

The Aquarium Club of Lancaster County is in need of a member to be the club representative to the Northeast Council of Aquarium Societies. Kurt Johnston has been the rep since we joined the NEC and is requesting that someone new take over. Your main responsibilities are to participate via conference call at the 4 general meetings each year, create a report to be included in Tank Tales and to represent the interests of the ACLC at those meetings. If you are interested, please contact Kurt at the meeting or email the President of ACLC at president@aclcpa.org.

Petroselinum crispum Germination and Growth in a Hydroponics Wick System Using Fish Tank Water

By Holly Bolander, 17, North Carroll High School

The purpose of this study was to see if parsley, *Petroselinum crispum*, can grow in a hydroponics system with different water sources, including fish tank water. A hydroponics wick system was used for this experiment. This study was conducted in the North Carroll High School Tank Room. The study was started on 24 Feb. 2016. Data was collected every 7 days for 42 days.

The control group, Group A, is a pot with soil that was watered with tap water. There were three experimental groups, all using a hydroponic wick system created with four egg carton slots, a container to hold water, and string to hold the egg carton up and to use as the wicks. Group B has vermiculite as a growth medium and is watered with fish tank water which housed red eared slider turtles, *Trachemys scripta elegans*. Group C has perlite as a growth medium and is watered with tap water. Group D has vermiculite as a growth medium and is watered with freshwater fish water. All four groups have four seeds each and was checked each day during the week to make sure the soil didn't dry out and was watered if necessary.

It was found that out of the three experimental groups, only Group C had germination, but growth rate was slow compared to the control group. Germination percentage of Group A and C are both 75 percent. Germination rate for Group B and D are both zero percent. Group A had an average height of 9cm, Group C had an average height of 0.6cm, and Groups B and D had no growth. The *P. crispum* in groups A and C wilted after not being watered during spring break which was 6 days.

P. crispum average height (cm)

Day	Height (cm) Of Pot 1 (control group)	Height (cm) of pot 2 (Experimental- turtle water with vermiculite)	Height (cm) of pot 3 (Experimental- tap water with perlite)	Height (cm) of pot 4 (Experimental- fish water with vermiculite)
7	0	0	0	0
14	6.4	0	0	0
21	8.9	0	0.6	0
28	9	0	0.6	0
35	9	0	0.6	0
42	9	0	0.6	0

If *P. crispum* and other plants can grow anywhere with hydroponics, places such as cities, that have a hard time getting fresh food will be able to. Also, what we consider as waste can be used to grow food in our own homes. All you need is a fish tank. Fish tank water provides nutrients that can help the plants grow but the nitrate level can't be too high. According to the British website, Science and Plants for Schools, high levels of nitrate can slow the plant growth and eventually stop the plant from growing or keep the plant from germinating completely (Hewitson, J. (2016). The effects of nitrate on plant growth. Retrieved April 15, 2016, from http://www.saps.org.uk/saps-associates/browse-

P. crispum Germination percentage

Pot	7	14	21	28	35	42
1	0	50	50	75	75	75
2	0	0	0	0	0	0
3	0	25	75	75	75	75
4	0	0	0	0	0	0
Mean	0	43.75	62.50	37.50	37.50	37.50
Median	0	12.5	25	37.5	37.5	37.5
Mode	0	0	0	75	75	75
Standard Deviation	0	23.9356777	37.5	43.30127019	43.30127019	43.30127019

Petroselinum crispum cont.

q-and-a/631-how-does-excess-amounts-of-nitrate-affect-the-growth-of-a-plant-and-why-is-this-so).

This study will be conducted again to see if the *P. crispum* will grow in the hydroponic wick system without letting the soil or growth medium dry out. Next time only one growth medium will be used for the experimental groups and the new testable question will be "What levels of ammonium, nitrate, nitrite, and pH will *P. crispum* grow?" The water sources will be the same but they will be tested with the API brand water quality kit to collect data of the quality of each water source during the study.

African Dwarf Frog photo by Jessica Parker

Re-Tanked

Recycling & Tips for the Fish Room

by Karen Haas

I don't like wasting food. Have you ever thought about sharing some of your left overs with your fish? Here are some ideas.

Leaf lettuce will be enjoyed by many of your fish such as tinfoil barbs, silver dollars, bushy nose plecos, rainbow cichlids, mollies, and *Chapalichthys encaustus*. A piece will also attract pest snails and make it easier to remove them. **Green beans** are relished by our baby bushy nose plecos. **Green peas** without the shell will be eaten by many fish. It is often recommended as a treatment for a constipated fish. **Zucchini, squash** and **cucumbers** will be picked at by some livebearers and devoured by algae loving plecos. Par boiling will soften firmer squashes and help zucchini sink. Pest snails are also attracted to squashes. **Fruit** like **mangos** might be eaten by pacus, silver dollars, and bushynose plecos. You can use the core from **apples** for your culture of vinegar eels. I've heard of **grapes** being eaten by pacus. **Parsley** and **celery** leaves were eaten by our tinfoil barbs. I would imagine that silver dollars will eat them too. **Carrots** have been known to be eaten by pacus. It seems that they'll eat just about anything.

Left over oatmeal or the crust of bread can be used to culture micro worms. Pureed baby food can be used to feed daphnia cultures. Charley Grimes recommends green peas and squash flavors for that. Left over flake fish food is saved to feed our grindal worm culture. Left over fruit and vegetable scraps can be fed to an earth worm culture. Some coffee grounds and egg shells can be used to.

An easy way to offer many foods to our fish, I found, is to attach it with a rubber band to the inside of a magnetic algae scraper. You can also use a rock, a fork, clip with suction cup or one of the pleco feeders made specifically for this. Make sure you wash your offerings thoroughly or use organic. I hope this encourages you to try some new foods with your fish.

Growth Study Focused on *Lepomis cyanellus*

By Dalton Stoner, 16, North Carroll High School

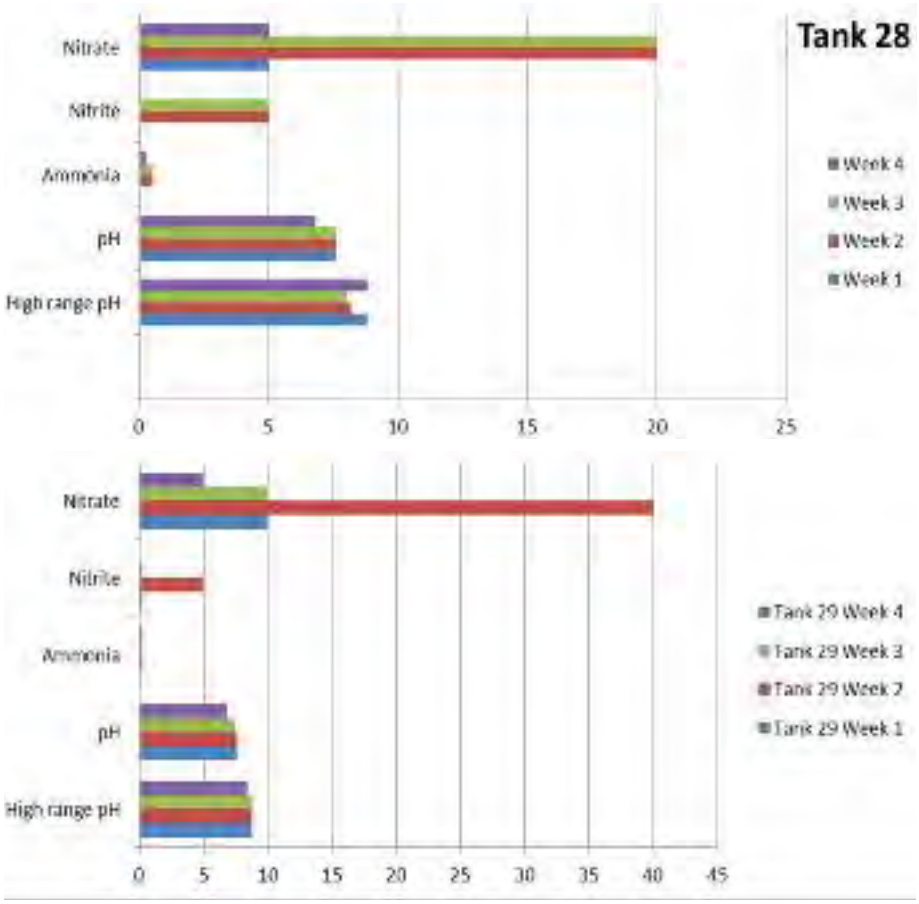
The Stoner and Stiles study of Spring 2014 was a growth study focused on *Lepomis cyanellus*. The goal of the study was to test the effect of different types of lights on the growth of *L. cyanellus*.

Two tanks were set up. They were each 10 gallon tanks. Initially 3 fish were put in each of the tanks. A lamp was placed over each tank, one with a black light or ultraviolet bulb, the other with a normal incandescent light bulb. During the study one of the fish in the incandescent light tank jumped out of the tank and died. Because of this, screens were placed over the tops of each of the tanks. To avoid any other light affecting the ultraviolet light tank's results, mirrors were placed all around the tank to block as much of the daylight that it would have been exposed to.

The fish were anesthetized and measured for weight and length each week. They were also monitored for anything unusual on their bodies. Water quality data was taken once each week and recorded. The water in the tanks was changed once a week and also once each week the tanks were topped off with water because of evaporation. During the study the water quality started to deteriorate, creating excess nitrates which is harmful to the fish. Therefore plants were added into the filters of each tank by planting them in gutter mesh and putting them in the filters. The purpose of this was to reduce the amount of nitrates because plants consume nitrates and thrive in higher nitrate levels. The hope was to reduce the amount of nitrates to safe levels for the fish to thrive and survive. After these plants were added to the filters the amount of nitrates dropped significantly.

After two weeks of the study the lights on the tanks were switched to see if the ultraviolet light affected the growth of biofilms. The mirrors were also switched to the other tank to attempt to prevent other types of light entering the tank. The study showed that the biofilms that had previously grown in the incandescent light tank, when switched with ultraviolet light soon disappeared. In the ultraviolet light tank no biofilms had grown but when the lights were switched biofilms began to grow. This led to the conclusion that ultraviolet light can lead to the death of biofilms.

The study also concluded that there was no change in the growth of *L. cyanellus* due to the different types of lights that they were exposed to. The growths of the fish in each tank were very similar and showed no significant difference. Notably however, there seemed to be strange growths near the gills of the fish that were exposed to ultraviolet light. This growth could not be proven to be caused by the exposure to ultraviolet light. The fish in this tank were also paler in color than the fish in the incandescent light tank. The growths seemed to disappear and the color returned to the fish after the lights were switched between the tanks.



Breeder Award Program Monthly Report May 5, 2016

BAP news as of May 5, 2016

In April the Bressler family jumped back into the lead in the BAP competition, registering four spawns – two killifish (one an East African annual), a tetra, and a rainbowfish. Danny Corman registered a spawn from a Southwest Asian killifish. Spring is in the air, mow that grass, plant that tomato, but check in on your fishroom once in a while, there might be some BAP points in one of those tanks

Wanted

Newsletter Editor

Our current newsletter editor, Karen Haas, has decided to resign after the June edition of Tank Tales. Her employer has taken on new accounts which has required her to work more hours.

The newsletter editor is responsible for editing articles, assembling 10 issues of Tank Tales, submitting the appropriate articles for the annual NEC article competition, and FAAS article award submission.

Approximately 5-10 hours each month is spent creating this award winning publication. It all depends on how many articles are received, changes to BAP, CARES columns, etc.

If interested in this or any other open position, please contact Jack Lafayette at president@aclcpa.org.

Specialist Breeder Awards Report

Class 1 Livebearers

Paul Bricknell, Wayne Calender, Bob Kulesa, Pedro Sanchez, David Stephon, Joel Antkowiak, Bressler Family, Gary Boyer, J/N Dickel, Haas/Rollings

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, 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

Class 12 U. S. Native Species

Wayne Calender, Paul Bricknell, Bressler Family

Class 14 All Other Freshwater Fish

Bressler Family

Breeder Award Program Monthly Report May 5, 2016

Lifetime Achievement Award Report

Active Members' Point Totals

F. Wayne Calender Breeder
- Bressler Family .....1821 pts
- Wayne Calender .....1593 pts

Grand Master Breeder
- Paul Bricknell.....2003 pts
- David Stephon.....1120 pts
- Pedro Sanchez .....1050 pts

Master Breeder
- *None currently*

Expert Breeder
- Bob Kulesa*.....812 pts

Advanced Breeder
- Joel Antkowiak*.....1258 pts

3 Star Breeder
- Gary Boyer*.....607 pts
- Haas/Rollings*.....577 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.

2016 Species Bred

- Bressler family. .....6 species
- Haas/Rollings.....4 species
- Clair Klinedinst.....3 species
- David Tancredi.....2 species
- Charles Vickery.....2 species
- Danny Corman .....2 species
- Joel Antkowiak. .....1 species
- Gary Haas.....1 species

2016 Breeder of the Year Pts.

- Bressler family.....89 points
- Haas/Rollings.....73 points
- David Tancredi .....39 points
- Joel Antkowiak.....33 points
- Danny Coreman.....26 points
- Gary Haas .....20 points
- Charles Vickery.....14 points
- Clair Klinedinst.....13 points

April 2016 Species Bred

Bressler family .....4 species
Melanotaenia ogilbyii, Chromaphyosemion, Bivattatum funge, Nothobranchius kilomberoensis, Moenkhausia pittieri

Danny Corman.....1 species
Aplocheilus lineatus

Specialist Breeder Awards Report cont.

Paul Bricknell: Master Killifish (Class 5) Breeder & Advanced Livebearer (Class 1) Breeder
Gary Boyer: Advanced Livebearer (Class 1) Breeder
Bressler Family: Master Livebearer (Class 1) Breeder
Joel Antkowiak: Master Livebearer (Class 1) Breeder

Skunk Clownfish photo by Jessica Parker

ACLC C.A.R.E.S. Registrants

Updated on May 5, 2016

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
- 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
- Paretroplus maculatus
- Enigmatochromis lucanusi

Steve Arnott
- Tanichthys micagemmae 5

Gary Boyer
- Xystochromis sp.“Kyoga Flameback” 1
- Cryptoheros nanoluteus 1
- Pundamilia nyererei 1
- Ataeniobius toweri
- Ilyodon whitei

Tim Brady
- Xenotoca eiseni 3
- Ameca splendens 1

Bressler Family
- 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) 2
- Ameca splendens 2
- Zoogoneticus tequila 1
- Ataeniobius toweri

John & Natalie Dickel
- Tanichthys micagemmae 4
- Zoogeneticus tequila 1
- Xenotoca eiseni
- Ameca splendens

Jayson Gard
- Chaplychthys encaustus
- Tanichthys micagemmae
- Ambastaia sidthimunki
- Enigmatochromis lucanusi
- Tanichthys micagemma

Gary Haas
- Fundulopanchax sjoestedti 3
- Fundulopanchax amieti 2
- Puntius titteya 2
- Tanichthys albonubes 2
- Melanotaenia boesemani 1
- Nematolebia papiliferus (Inoa) 1
- Nothobranchiaus kilomberoensis 1
- Puntius denisonii 1

Karen Haas/Alan Rollings
- 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
- 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

Julie Lovell
- Melataenia boesemani 1

Dave Tangredi
- Ameca splendens

Conservation
Awareness
Recognition
Encouragement
Support

New CARES fish added to ACLC fishrooms and registered in the cares
database are the following: Karen Haas and Alan Rollings added the stunning West African killifish, the Blue Gularis, to their fishroom. That's stunning as in "really, really good-looking", not as in Karen's electric catfish. They received the killifish from Rich Bressler, so he gets a blue seal for providing a CARES fish to Karen and Alan. Rich also earned a gold seal for welcoming an endangered goodeid, the "dark-edged splitfin", to his fishroom.

ACLC C.A.R.E.S. Registrants cont.

Paul Tangredi
Melanotaenia lacustris
● ⊙ ⊙ ⊙ ❸

Nile Tilapia photo by Jessica Parker

Symbol Key:

The Gold Seal ●, species is registered in ACLC CARES

The Green Seal ●, spawning report published in Tank Tales

The Blue Seal ●, species distributed in the home club

The Red Seal ●, species distributed and registered to a CARES group of another club

Longevity Seal ❶❷❸ etc., indicating the number of years the species has been maintained

Horticultural Awards Program (HAP) Monthly Report

April 2016 Species Propagated

Bressler Family

*Anubias barteri var. nana**	20 points
** plants donated to club. Awarded points were doubled.*	***TOTAL: 20 points***

Scott Sommer

*Anubias barteri var. nana**	20 points
*Ceratopterus thalictroides (*Watersprite)*	10 points
*Taxiphyllum barbieri (Java Moss) **	10 points
* plants donated to club. Awarded points were doubled.	***TOTAL: 40 points***

2016 Propagator of the Year Points

Alan Rollings	1 species
Clair Klinedinst	4 species
Scott Sommer	6 species
Bressler Family	10 species

2016 Gardener of the Year Points

Alan Rollings	15 points
Clair Klinedinst	50 points
Scott Sommer	70 points
Bressler Family	140 points

Lifetime Achievement Awards

Novice Gardener (50 Total Lifetime Points)

Bressler Family
Claire Klinedinst
Gary Boyer
Karen Haas
Scott Sommer

One Star Gardener (100 Total Lifetime Points)

Bressler Family
Gary Boyer

WRITER'S AND ARTIST'S AWARD PROGRAM REPORT

OVERALL STANDINGS: Through April 30, 2016

Participant	*Total Points*	*Base*	*Bonus*	*Reprints (Articles/Photos)*	*Special Awards*
Ultimate Writer Award (1000 points plus 2 Specialty Awards plus 5 Articles Reprinted or Equivalent)					
Joel Antkowiak	2,670 points	1,945	725	5/0	Fishy Photographer; The Popular Fish Head; The Writing Breeder
Pen and Quill Award (750 points plus 1 Specialty Award plus 2 Articles Reprinted) - None					
Wordsmith Award (500 points)					
Kurt Johnston*	1,545 points	1,325	220	1/0	
Bob Kulesa	690 points	500	190		
Scott McLaughlin	575 points	480	95	1/0	Fishy Photographer
Karen Haas	548 points	433	115	2/0	Fishy Photographer
Author's Award (250 points)					
Gary Haas	455 Points	400	55	2/0	Fishy Photographer
Alan Rollings	328 points	328	0		
Writer's Award (50 points)					
Richard Bressler	190 points	70	120		
Lonny Langione	170 points	100	70	2/0	
Robin Antkowiak	120 points	65	55	0/1	
Greg Steeves	65 points	55	10		
Michael Buchma	65 points	55	0		
Joseph Pacheco	50 points	30	0		
Other Participants					
Brandon Moyer	40 points	40	0		
Lindsey Moyer	40 points	40	0		
Sheila Garl	30 points	30	0		
Ashley Antkowiak	25 points	25	0		
Ellen Haas	10 points	10	0		

**-Participant has enough points for the next higher award, but needs to complete one or more other requirements to qualify.*
Those who are no longer ACLC members have been removed from the list. Their records are still maintained.

MIGHTY FIN STANDINGS 2016

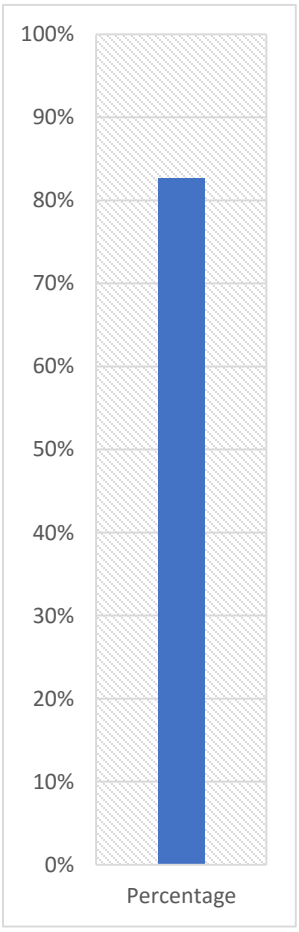
Standings through April 30, 2016

Alan Rollings	90 pts
Karen Haas	75 pts
Joel Antkowiak	45 pts
Paul Tangredi	30 pts
Gary Haas	15 pts
Michael Buchma	10 pts

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!

~May Report~

Aquatic Life Education Fund



Almost there! The members and friends of the ACLC contributed $23.49 toward the ALEF last month. That puts our total at $413.19 or 83% of our goal of $500. Remember if we reach our goal by August 31st, Joel Antkowiak & Associates, will donate an additional $200!

We will again be donating 5% of our auction proceeds to the fund and we will have the fish tank set up at the Treasurers table to collect your generous donations. There is also now a special link for you to donate online! Just go to our website at http://aclcpa.org and you will see a link for the Aquatic Life Education Fund that takes you to a page which explains what the ALEF is all about. At the bottom of that page is a place to donate money through PayPal!

Remember, we are raising 100% of this money for the Science Program at North Carroll H.S. and it is all tax deductible!

Piscatorial Pearls

"Reviewing Aquarium Society Newsletters from Around the World"

~May 2016 Edition

This month we resume our travels in the Peach State with 2 articles in the April 2016 issue of the Atlanta Area Aquarium Association's **Fish Talk**. The first article is titled, "A Visit to the Atlanta Area Aquarium Society and the Georgia Aquarium" by Richard Pierce in which Rich tells us all about his visit to speak at the AAAA, visiting the fish rooms of several members and a trip to the Georgia Aquarium. The second article is titled "So You're Going to a Fish Auction!" by Margaret Cekis that gives us a good synopsis of those things we should all know but sometimes forget when we go to an auction.

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 stop is in the Big Apple for 9 stories in the March-April 2016 edition of the Brooklyn Aquarium Society's **Aquatica**. The first story is titled "Catfish Dreams – Thailand" by Sy Angelicus that gives us a good description of a really cool Asian catfish, *Pseudomystus siamensis*. Next is a story titled "Don't Talk with your Mouth Full" by Anthony Kroeger that tells us about the keeping and spawning of a fish that has been in the hobby a long time, *Pseudocrenilabrus multicolor*. Next is a story by one of our past speakers, Joe Gargas titled "Joe's New Fish Room" that gives us all the details of Joe's new fish room build and how he did what. Next we hear from Anthony Kroeger again with a story titled "Notable Natives" in which he tells us all about keeping and breeding *Pteronotropis welaka*, one of the more stunning US Native fish. Halfway through our visit at BASNY we have a story titled "How I Got Rid of Planaria in My Shrimp Tank" by Ryan Curtis. He tells us just that and if you have ever had planaria in your tanks, you'll appreciate this information. *Barbus phutonio*, aka "The Dwarf Barb" is the topic of the next story in the issue and Anthony Kroeger gives us a good, detailed description of how to raise this great little Indian Barb. Next is another in the continuing series of articles under "The Practical Plant" series by Izzy Zwerin. This month's topic of conversation is *Marsilea quadrifolia*, a great little foreground plant. The next story is titled "Lesser Known Livebearers" by Anthony Kroeger that discusses the ways to maintain a great livebearing C.A.R.E.S. species, *Ameca splendens*. Finally, Anthony Kroeger gives us our saltwater fix with a story in his continuing series of articles titled "Meet the Stony Corals" with a story about "Frogspawn coral – *Euphyllia divisa*" that goes into detail regarding this hardy Indo-Pacific coral.

Heading west we stop in the Hoosier State for 4 articles in the April 2016 issue of the Circle City Aquarium Club's **Fancy Fins**. The first article is titled "Grindal Worms – The most bang for the buck Live Food" and is written by our Keystone Clash banquet speaker, Charley Grimes. Charley tells us not only how he cultures this great live food but why and gives us some great helpful hints. Next we have an article about "Breeding *Laetacara araguaiae* 'Buckelkopf'" by Bradley Moore that id helpful to anyone interested in raising this South American dwarf cichlid and even includes a link to a YouTube video of the parents with fry HERE. The next article is about "Breeding Pundamilia nyererei *'Ruti Island'*" by Tarri Bain that tells us about Tarri's success with this beautiful Victorian cichlid. Tarri also tells about "*Breeding Cyrtocara moorii*" in the final article in this issue.

Piscatorial Pearls

"Reviewing Aquarium Society Newsletters from Around the World"

~May 2016 Edition

Staying in the Midwest, we visit our friends in the Buckeye State for a story in the March/April 2016 edition of the Greater Akron Aquarium Society's **Tank Topics**. This story is titled "Catfish – Some Are Pets, But Are Not for Petting" by Wayne Toven. Wayne presents us with 4 Lessons that we need to understand when we are housing and caring for many different catfish species.

Heading back to the Keystone State, we make a stop in my hometown for 3 articles in the April 2016 issue of the Greater Pittsburgh Aquarium Society's **Finformation**. The first article is all about Eric Bodrock's experience with spawning "*Pseudomugil cf. paskai* 'Red Neon'" a great looking little 'blue-eye'. Next is an article titled, "CAFE Convention" by Joe Doyle. Joe gives us many reasons to make the trip to Columbus for this convention or any other similar event. Finally, in this issue is a great DIY article by Eric Bodrock that tells us how he goes about "Making a Simple Pleco Egg 'Tumbler'"

Next we travel to the Great Northwest and stop in the Evergreen State for a story in the April 2016 edition of the Greater Seattle Aquarium Society's **Northwest Aquaria**. This story is titled, "The Ed Stansbury Essentials of White Worm Culturing" by Ron Sower and is a detailed description of this method as transcribed by Ron from an interview he did with Ed Stansbury.

We need our passports for the next stop in Canada for 5 articles in the April 2016 issue of the Kitchener Waterloo Aquarium Society's **Fins & Tales**. The first article is titled "*Mesonauta*: Flag Cichlid In a Community Tank" by Jayne Glazier that goes into great detail as to how to establish a beautiful tank that includes these longtime favorite cichlids from South America. The next 3 articles are all written by Karen Murray. "How about those TDS?" explains a lot about TDS, water and softeners and how they all relate to our hobby. Next Karen tells us all about growing and maintaining "Red Aquarium Plants" in the aquarium. Finally, Karen give us her monthly "Plant Profile" which is all about "*Proserpinaca palustris* – Mermaid Weed" a stem plant from Cuba.

Coming back to the US we head to the Midwest again for a stop in the Show-Me State for 5 stories in the March/April 2016 edition of the Missouri Aquarium Society's **The Darter**. The first story is titled "Breeding the Dwarf Betta" by Mike Hellweg and is an extremely detailed account of Mike's experiences with the beautiful little bubble-nest builder, *Betta Persephone*. Next, we have a story for all you planted aquarium folks titled "Substrates for the Planted Aquarium" by Mark England. Mark does a great job telling us about several commercially available substrates as well as those DIY's. With the show season in full bloom, the MASI members have given us 3 great stories to help. "Training Your Fish to Show for the Judges" by Kathy Deutsch, "Things to Take to a Fish Show" by Gary Lange and "Conditioning and Transporting Fish for the Show" by Daniell Kinder are definite must-read stories for anyone planning to show fish anytime in the future.

Coming back east to the Garden State we stop for a quartet of articles in the April 2016 issue of the North Jersey Aquarium Society's **Reporter**. This month's "Dr. Paul Loiselle's Fish of the Month" is a magnificent little fish from Sri Lanka, "*Rasboroides vaterifloris*" that should excite any nano-fish enthusiast. Alan DeAngelo gives us the Plant of the Month description of "*Hygrophila difformis*". Chuck Davis wrote the other 2 articles this month with "Collecting in South Florida part 3 – The Big Stuff" that shows us all the big guys we

Piscatorial Pearls

"Reviewing Aquarium Society Newsletters from Around the World"

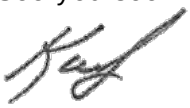
~May 2016 Edition

can collect down there and "Fish-Trekkin to Raleigh" about his voyage to the RAS Weekend Workshop.

We follow I-95 North for our next stop in the Constitution State for a couple of stories in the Winter 2016 edition of the Norwalk Aquarium Society's **Wet Pet Gazette**. The first story is titled "The Oscar Files- Part 4" by Basil Holubis and tells us the latest adventure that Basil had with a spawning pair of the magnificent creatures. The next story is by Pete Izzo and it tells us all about his experiences "Breeding *Teleocichla proselytis*" a little dwarf cichlid from the Rio Xingu.

Our final stop this month is in the Sunshine State for an article in the March 2016 issue of **The Filter** published by the Tampa Bay Aquarium Society. The story is titled "*Nothobranchius Primer*" by Mike Jacobs and is just enough to whet ant fishkeepers appetite for this beautiful family of killifish.

See you soon!



Kurt Johnston – Exchange Editor
exchange@aclcpa.org

Special Note from Exchange Editor

Due to many different circumstances, I was unable to produce a version of Piscatorial Pearls for the past few months. I will make every attempt to continue this column as a monthly feature for Tank Tales. If there was a continuing column that I reviewed in the past that you would like to receive any updates to, please let me know which ones they are and I will email copies to you as soon as I can. Thank you for your understanding.

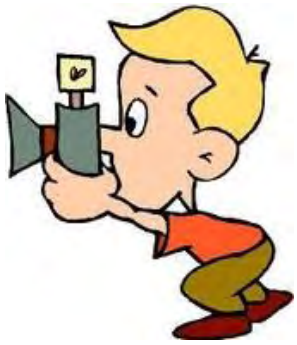
Additional Awards Presented at the NEC Convention:

Articles Competition, 2015- Artie Platt, Chair:

Editor's Note: Due to a 2014 submission, the Breeder Article "Gold Tetras Then Again, Maybe Not!" by Lisa Quilty (BASNY) was disqualified. See correction below:

Humor	***Author***	***Club***	***Place***
Cats and the Aquarium Enthusiast	Barbara Romeo	DAAS	1st
A Fish Named BO	Judy Weinberg	NECA	2nd
Oscar Files part 3	Basil Holubis	NAS	3rd
Junior			
My Aquarium	Joseph Pacheco Jr.	ACLC	1st
My Fish Tank Story	Joseph Pacheco Jr	ACLC	2nd
Angel and Betta	Lauren Ramroop	GCAS	3rd
Breeder Article			
Spawning the PrettyTetra Hemigrammus pulcher	Fred Allen	DAAS	1st
Breeding and Maintaining Nannostomus rubrocaudatus –Purple Pencilfish	Sal Silvestri	NAS	2nd
Cryptoheros nanoluteus, the Golden Convict	David L. Banks, Jr.	TFCB	3rd
Open Class			
Terrors of the Planted Aquarium	John Todaro	BASNY	1st
Easy Rider and the Foureye Butterfly Fish	Stephen Sica	GCAS	2nd
The Fish of Many Morphs	Alexander Priest	GCAS	3rd
Continuing Column			
Piscatorial Pearls Reviewing Aquarium Society Newsletters fromAround the World	Kurt Johnston	ACLC	1st
The View…from the Other Side of the Tank, My Piece of the Ocean, Mine Know Me	Margaret Peterson	LIAS	2nd
Scrumptious Meals & Live Food Treats	John Todaro	BASNY	3rd

NEC Photo Contest, 2015-Rich Pierce, Chair



Rich would like to thank Chris Leighton, whose donation doubled the prizes in the open classes: 2 & 4

Class 1 - Individual Fish / Fish Identification – Advanced Class

1st Place: Guy Van Rossum (Angelfish)
2nd Place: Paul Loiselle (Pachypanchax patriciae)
3rd Place: Paul Loiselle (Oryzias mekongensis female with eggs)

Class 2 - Individual Fish / Fish Identification – Open Class

1st Place: Basil Holubis (Lamprologus tetracanthus)
2nd Place: Frank Greco (Holacanthus ciliarus-Queen Angel)
3rd Place: Tom Soukup (Altolamprologus calvus)

Class 3- Underwater Life (Group or Tank Photos) – Advanced Class

1st Place: Guy Van Rossum (Lemon Tetras)
2nd Place: Guy Van Rossum (Congo Tetras)
3rd Place: Nick Caputo (Bedotia geayi)

Class 4- Underwater Life (Group or Tank Photos) – Open Class

1st Place: Frank Greco (Pterophyllum leopoldi)
2nd Place: Joe Gurrado (Maron clown in anemone)
3rd Place: Frank Greco (Caquetia spectabilis)


Class 4: 1st Place: Frank Greco


Class 5: 1st Place: Evelyn Eagan (Model: Tracy Markus)

Class 5-NEC Activities People Pictures

1st Place: Evelin Eagan (LIAS member Tracy Marcus trying on Koi Society fish hat)
2nd Place: Richard Pierce (Dead Soldiers)
3rd Place: Evelin Eagan (LIAS member Jim Peterson at the pirate themed NEC convention)

BAP Awards, 2015-Rich Pierce, Chair:

First Place: Master Breeder Bill Cole, DAAS (111 points)
Second Place: Master Breeders David & Janine Banks, TFCB (61 points)
Third Place: Artie Platt, NAS (57 points)

Club with the Most Points: Danbury Area Aquarium Society (DAAS)

Club with the Highest Number of Participants: Tie: The Tropical Fish Club of Burlington (TFCB) and Tropical Fish Society of Rhode Island (TFSRI)

Achieved Master Breeder II: David and Janine Banks, TFCB

NEC/NECA Cichlid Show Results (Reported by Y. Michael Liu)

Class 1-Central America
First: Judith Weinberg - Maskaheros regani
Second: Scott McLaughlin - Amphilophus citrinellus
Third: Judith Weinberg - Paratheraps melanurus

Class 2-South America
First: Kathy Muraca - Apistogramma borelli
Second: Scott McLaughlin - Crenicichla lenticulata
Third: David Banks - Apistogramma agassizii

Class 3-Africa Rift Lakes
First: Lisa Hoeber - Labeotropheus fuelleborni
Second: Lisa Hoeber - Placidochromis phenochilus
Third: Peter George - Metriaclima hajomaylandi

Class 4-Africa-All Other
First: Scott McLaughlin - Paratilapia bleekeri
Second: Judith Weinberg - Paratilapia sp. East Coast Small Spot
Third: Peter George - Pundamilia sp. Fire Uganda

Best of Show: Kathy Muraca - Apistogramma Borelli

Reserve of Show: Scott McLaughlin - Paratilapia bleekeri

Exhibition Competition, 2015-Bill Gill, Chair:

1st Place – Joel Antkowiack - ACLC
2nd Place – Ted Coletti - NJAS
3rd Place – Greg Jones - BGC
Junior – no submissions
Most Club Entries – NJAS

Boston Aquarium Society (BAS) celebrated its 100th year at the NEC Convention history table. See Donna McAndrews and Penny Faul in the picture below. BAS will also be hosting an Anniversary Fish Show and Auction on November 6th.

THANK YOU TO THESE COMPANIES FOR THEIR SUPPORT!
LET'S SUPPORT THEM IN RETURN!

Click the logo to go to their website.

San Francisco Bay Brand, Inc.
SALLY'S

Tetra

OCEAN NUTRITION™
Preserving Life and Beauty through Nutrition

TROPICAL FISH HOBBYIST MAGAZINE

THAT fish PLACE
THAT pet PLACE

Aquarium Technology, Inc.

Boston Aqua Farms
Equipment & Supplies for Coral Propagation

FRESHWATER AQUARIUMS & TROPICAL DISCOVERY
AMAZONAS

THANK YOU TO THESE COMPANIES FOR THEIR SUPPORT!
LET'S SUPPORT THEM IN RETURN!

Click the logo to go to their website.

THANK YOU TO THESE COMPANIES FOR THEIR SUPPORT!
LET'S SUPPORT THEM IN RETURN!

Click the logo to go to their website.

Instant Ocean

Florida AQUATIC NURSERIES

MARINELAND

COBALT AQUATICS

THE PLECO FEEDER
A SMARTER WAY TO FEED YOUR PLECOS

FLUVAL

Ecological Laboratories INC.

BRINE SHRIMP DIRECT
TANK TESTED PRODUCTS

GREENPLECO™

2016 Events:

May 13: Brooklyn Aquarium Society Auction

May 14: Bucks County Aquarium Society Auction

May 14-15: South Jersey Guppy Group IFGA Show

May 20-22: Canadian Association of Aquarium Clubs Convention

May 21: Delaware Reef Club Frag Swap

May 27-29: Cichlid Classic

May 27-29: American Killifish Association Convention

June 4: "CLASH OF KINGS" 2016 East Coast Flowerhorn Show

June 9-12: North American Native Fish Assoc. Convention

June 23-26: International Betta Congress Convention

July 7-10: American Cichlid Association Convention

July 7-10: North American Discus Assoc. Show

July 16-17: New England Fancy Guppy Assoc. IFGA Show

August 13: American Reef & Reptile Expo in NJ

September 11: Greater Pittsburgh Aquarium Society Auction

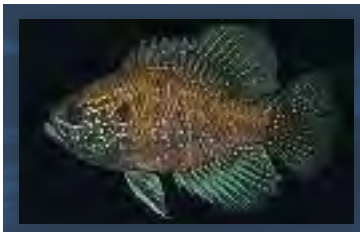
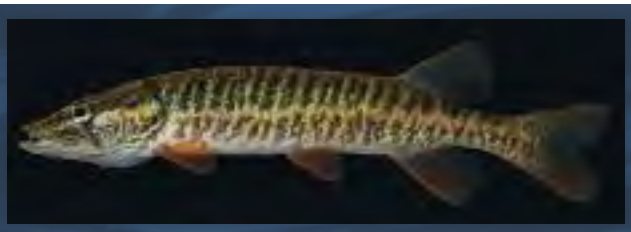
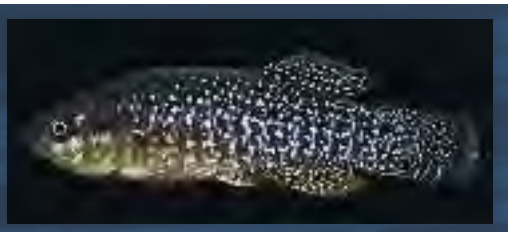
Sept 9-11: Marine Aquarium Conference of North America (MACNA)

September 16-18: Keystone Klash

October 13-16: All Aquarium Catfish Convention

GET OUT THERE AND SUPPORT OTHER CLUBS!

If you know of any events that you would like included in this list, please email them to editor@aclcpa.org

The 2016 NANFA Convention

June 9–12, Portsmouth, New Hampshire

- Freshwater *and* saltwater collecting
- Fish photography
- Lectures by native fish experts
- Annual NANFA auction
- New England Lobster Bake & Muddy River Barbecue Buffet

- Cruise on the Gulf Challenger, a 50-foot fisheries research vessel
- Fellowship with other fish fans
- Tide pooling and creek seining at Odiorne Point State Park
- Much more!

REGISTER NOW! www.nanfa.org/convention.shtml




Born to be Wild

CINCINNATI 2016

The 2016 ACA Convention "Born to Be Wild"

July 7-10, 2016

at the Marriot Cincinnati at River Center

10 W Rivercenter Blvd, Covington, KY 41011

http://www.acaconvention2016.com


UNITED FLOWERHORN ASSOCIATION
UFA
UNITED FLOWERHORN ASSOCIATION
EAST COAST
CLASH OF KINGS
Flowerhorn Competition
JUNE 4, 2016
504 HUDSON ST. HACKENSACK, NEW JERSEY 07601 • 1 201-229-0555 • REEF ENCOUNTER


MACNA®
San Diego
2016
September 9–11, 2016

CELEBRATING 50 YEARS

1966-2016

OBBA PRESENTS

IBC CONVENTION

JUNE 23-26, 2016

Holiday Inn Express
150 Aquarium Drive
Jenks, OK
918-296-7300

Room Rates 99.00 plus tax
Suits 109.00 plus tax
2 Room Suits 129.00 plus tax

Full Package $175
(Includes Aquarium Admission, Funny Money Auction and All new Betta Games plus IBC Convention T-Shirt and President's Reception and all IBC Member Meetings)

Meals only $130
Breakfast included with hotel room.
Dinner Thursday, Friday and Saturday Included.

Banquet only $75
Workshops only $50
Hospitality only $25
Class Sponsorships $20/Class
All Prices increase $10 after May 1st 2016
Payments can be sent to Kayla Griffin
Paypal at KaylaGriffin63@yahoo.com
Checks can be mailed to
Kayla Griffin
4849 S Darlington 7G
Tulsa, OK 74135

BUCKS COUNTY AQUARIUM SOCIETY
ANNUAL SPRING AUCTION
SATURDAY – MAY 14, 2016

Registration 9:30-11 am ***Auction at Noon***

Come join in the chance to buy and sell any and everything aquarium related! Live fish, live plants, tanks & stands, dry goods, equipment....you name it!

Take advantage of our **BUCK A BAG** program! For all bags of livestock or plants that sell, the club gets $1 and you get the rest! Don't miss out on this great opportunity! All other items split-60% seller/40% BCAS

Churchville Nature Center

501 Churchville Ln

Churchville, PA 18966

Donations

Are

Appreciated

VISIT OUR WEBSITE WWW.BCASONLINE.COM FOR COMPLETE DETAILS & RULES AND ALSO TO **PRE-REGISTER** AND PRINT YOUR FORMS EARLY

Nassau County Aquarium Society

Dollar A Lot Auction Night!!

(NCAS collects $1.00 from every lot sold. Seller gets the balance!!)

ALL FISH NUTS WELCOME !!!

Tuesday, June 14, 2016

Doors Open @ 7:15 P.M.—Auction begins @ 8:00 P.M.

Molloy College—Public Square Building

1000 Hempstead Ave.

Rockville Centre, NY 11571

Visit www.ncasweb.org for information

DIRECTIONS: Take the Southern State Parkway (either east or west bound) to EXIT #20 SOUTH-GRAND AVE. Make a right at the SECOND light onto GEORGIA STREET. Take Georgia Street to the end. This turns into BEECH STREET. Make a right onto HEMPSTEAD AVE. Entrance to the college is at the traffic light (make a left).

Multi-purpose Room # 290A on the second floor of the Public Square Building, which is directly behind the main building, Kellenberg Hall. To get there follow the double yellow line around the side of the main parking lot to the rear, make a quick left and then right at the Yellow concrete barrier and DEAD END sign. Continue on the parking lot roadway to the end, make the required left turn, continue until the four story red and white stone building is on your left. Park as close to the entrance as possible (Huge parking lot, few students at 8 PM) Enter the bldg and make a left in the lobby and take the elevator up to second floor, once out of elevator make a right, walk past rest rooms on right, make a left into first double doors on left, marked Room 290A.

AUCTION RULES:

1) All lots must be recognizable. Only fish-related items will be accepted for auction (fish, aquatic invertebrates, aquatic plants and aquarium related material only!). Dry goods must be in new or like-new condition. No used aquarium gravel. No used light bulbs in any condition.

2) Nothing deemed illegal by the state of New York or the Federal Government will be accepted for auction.

3) All fish lots must be properly doubled bagged. - A fee of $2.00 will be charged for lots not double bagged. Sellers should clearly mark the each bag entered for species, pairs, male/female etc.

4) The auction committee and auctioneer have the right to refuse any lot due to size, defects, sickness, inadequate bagging, or any other disqualifying reason. All lots will be sold as is. The Nassau County Aquarium Society excepts no responsibility for the condition of fish sold. The Nassau County Aquarium Society nor the auction site will be held responsible for damage or injury occurring before, during or after the auction.

5) One dollar ($1.00 USD) of proceeds of auction lot will go directly to the Nassau County Aquarium Society. Remaining proceeds of items will go to the seller. All lots will have a minimum opening bid of two dollars ($2.00 USD).

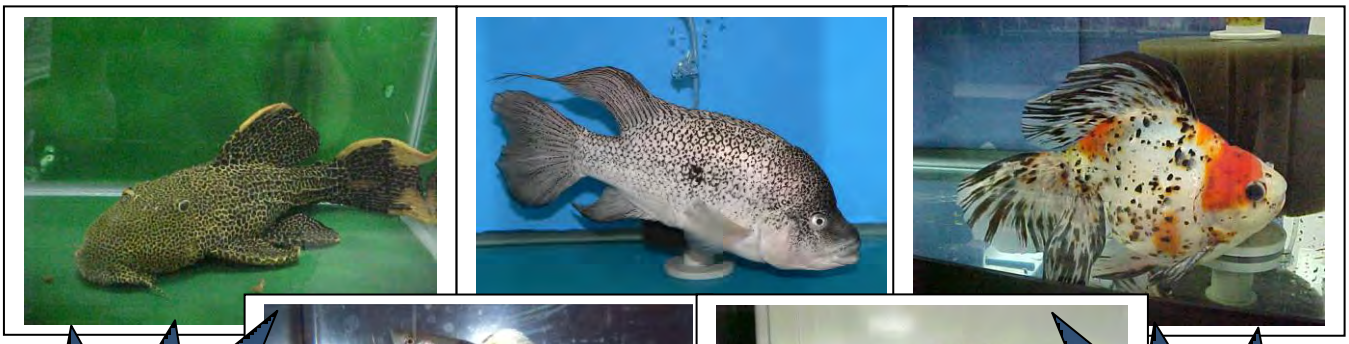
6) At the end of the auction the seller must pick up any lots which do not sell. Any items left will become property of the Nassau County Aquarium Society.

7) The auctioneer and/or auction chairpersons have final word on all bids.

8) This is a cash only auction. No checks or credit cards will be accepted.

The Greater Akron Aquarium Society

Ultra-Aqua 2016



Saturday Afternoon Swap Meet!

Saturday Party Speaker!

60 Class All Species Tropical Fish Show

ALL CASH PRIZES

June 11 & 12, 2016

Tallmadge Community Center

80 Community Dr., Tallmadge, OH

For more information or to reserve a table for the Swap Meet:

Bud White
(330) 848-3856
bwhite@neo.rr.com

Rich Serva
(330) 650-4613
rjserva@gmail.com

Wayne Toven
(330) 256-7836
wtoven@hotmail.com

TENTATIVE SCHEDULE OF EVENTS:

Saturday:

Show Registration	10 a.m. to 5 p.m.
Swap Meet	noon to 5 p.m.
Show area closes	7 p.m.
Dinner/Party	7 p.m.

Sunday:

Exhibit Hall Opens	10 a.m.
Auction Registration	10 a.m.
Auction Begins	11 a.m.
Awards Presentation	5 p.m.
Tear-Down	4 p.m.

Welcome to ULTRA-AQUA 2016

The Greater Akron Aquarium Society (GAAS) is proud to present its 45th annual all-species show, ULTRA-AQUA 2016 to be held at the Tallmadge Community Center. This year we will be offering 60 classes and awarding cash prizes for first, second and third place. Winners of the individual classes then compete for Best of Division and Best of Show awards which will consist of a plaque and a cash prize. We will also be awarding the Great Lakes Catfish and Loach Championship as well as the North American Goldfish Championship (The Kobayashi Award). Both of these are high-point trophies awarded to the exhibitor who accumulates the most points in the respective categories.

We will again be offering a Saturday swap meet from noon until 5 pm during show set-up. Please contact our show committee or our website for table availability.

To provide plenty of time to swap "fish tales," we will be having a Saturday night party with a program from expert. There will also be plenty of time to talk fish. The party will be free of charge for show entrants or $5.00 for those who just want to join us for the party.

We have made every effort to make this show as easy as possible for the entrant. No pre-registration is required; just come and bring in your entries. The set-up and registration hours are as lenient as possible for a weekend show. You will notice some changes in this year's show classes due to declining numbers of entries in certain types of fish. We will no longer be offering a koi class due to their large adult size and the fact that they are properly judged in pools from above and we have no facilities to allow for that. All other dropped classes are either combined with a similar group or they fall into the "All Other Egglayer" classification.

ULTRA-AQUA 2016 Show Rules

Note: Throughout these rules the word **EXHIBITOR** is used to designate the person(s) entering the show. The word **EXHIBIT** is used to designate an entry in class.

EXHIBITORS' AND ENTRIES' QUALIFICATIONS

1. Exhibitors in the Junior Classes must not have reached their 16th birthday by June 11, 2016. All other classes are open to any aquarist.
2. No limit to the number of entries per exhibitor, but the $1.50 per entry fee will not be charged after the first 20 entries.
3. No entry will be entered in more than one class.
4. Only ONE entry permitted in each tank unless using a divider, providing the entries are in the same class. NO EXCEPTIONS.
5. The Decorated Aquarium class will include decorated tanks and bowls of any size or shape, providing they have at least one flat side and are decorated either with artificial or natural items and house at least one living fish/animal.
6. Space will be provided for those Dealers who wish to set up a tank for display and advertisement. You must make arrangements with the Show Committee before the week of the show. Exhibitors in the Commercial Area must be Dealers and/or wholesalers of fishes or aquarium products.

ENTRY INFORMATION - Entry Fee $1.50 Per entry.

1. Registration: Saturday June 11th - 10 a.m. to 5 p.m. Entry forms and fees are to be brought to the registration desk upon entry to the building. All forms or changes must be received by 5 p.m. The Show Area closes at 7 p.m.
2. Tampering with any exhibit other than your own is strictly forbidden. If an entry needs to be moved for any reason, someone from the Show Committee will do so.
3. No extensions or early teardowns without prior permission of the Show Committee.
4. All exhibits will be under the full control of the Show Committee while in the show. They must remain there for the duration of the show.
5. All exhibits can be removed from the show between 4 p.m. and 7 p.m. Sunday, June 12 or at the end of the auction, whichever comes first.
6. Items not claimed by 7 p.m. June 12 will become the property of GAAS.
7. Neither the Tallmadge Community Center nor the Greater Akron Aquarium Society will be held responsible for any loss or damage incurred during the show. Exhibitors do have a responsibility to be careful with water. Parents are responsible for the actions of their children. Please supervise your children closely.

EQUIPMENT

1. Containers: All species entries will be displayed in clean flat-sided containers. All entries except where noted should be bare and have a solid background (plants or decorations are not recommended) Exhibit must be clearly visible to the judge or risk disqualification. GAAS will have a limited supply of background material available.
2. Electricity: GAAS will supply electrical outlets where necessary to within four feet of Tank Class.
3. Air: GAAS will provide air to within four feet of all exhibits.
4. Exhibitors are to supply their own valves, tubing and air stones, sponge and box filters are optional. Tank Classes may use filtration of the exhibitor's choice. There will be no open air lines, valves should be used.
5. Stands: Racks will be provided for all exhibits where tank size of 20 gallons and under are used. Exhibitors must provide their own stand for any tank over 20 gallons. Discretion of the Show Committee will be used in cases of specially designed or shaped tanks.
6. Lighting: No lights or reflectors are required, except for the Tank and Bowl Classes.
7. Covers: All exhibits are to have a full cover of the exhibitor's choice for the protection of the specimen(s) being displayed. These covers are NOT provided by GAAS.

8. Heaters: The show area is normally maintained at a minimum of 70 degrees. Heaters are not permitted.
9. Water: A limited amount of de-chlorinated Tallmadge City water will be available at room temperature. For best results, we suggest that you bring as much of your own water as possible.

PHOTOGRAPHY CLASS RULES

1. All entries must have been taken by the exhibitor.
2. Judging will be based on art, technical skill, and the judge's ability to identify the subject(s)
3. No single exposure may be entered in more than one class.
4. No pictures of pictures.
5. All photographs must have been taken of a living aquatic animal or plant.

AWARDS

1. Cash prizes will be awarded $10.00 for first, $7.00 for second and $3.00 for third place in each class.
2. Winners of classes will compete for the following "Best of Division Awards": Best of Division Livebearer, Best of Division Cichlid, Best of Division Catfish & Loach, Best of Division Goldfish, Best of Division Egglayer, Best of Division Display (includes any class not covered elsewhere, excluding photography). Division winners also receive $25.00.
3. All "Best of Division" winners will compete for a "Best of Show Fish" award and $25.00.
4. High Point Awards: President's Award - awarded to the exhibitor(s) who receive the most points in the show. Points are awarded on the basis of 3 points for each first place, 2 points for each 2nd place and one point for each 3rd place.
5. North American Goldfish Championship (Kobayashi Award) - The Kobayashi is awarded to the exhibitor(s) who receive the most points in the Goldfish Classes. The Kobayashi Award winner also will have their name inscribed on the permanent trophy kept by GAAS.
6. Catfish and Loach Championship - awarded to the exhibitor(s) who receive the most points in the Catfish and Loach Classes. The Catfish and Loach Championship winner also will have their name inscribed on the permanent trophy kept by GAAS.
7. Challenge Cup - awarded to the aquarium club whose members receive the most points in the show (excluding GAAS) and will have the club's name inscribed on the permanent trophy kept by GAAS.

AUCTION

1. This will be a Limited Auction (fish, aquarium and pond plants, aquatic animals, live food cultures and show entries). The only exceptions are manufacturer's donations. Exhibitors may choose to auction their entries. These entries must be bagged and entered in the auction by the exhibitor after judging is completed.
2. Proceeds of the auction may be donated entirely to GAAS or will be split on a 70/30 basis, with GAAS remitting 70% to the exhibitor within two weeks from the closing date of the show. A breakdown sales list will be included.
3. Once registered for the auction, items cannot be withdrawn.
4. All items should be clearly marked with the seller's code letters, item ID number, seller's name, phone number, common and Latin names (if known), quantity, and sex (if known). Items without proper identification will be considered donations.
5. GAAS may refuse to sell animals that are diseased, deformed, too young to survive, or regulated in the State of Ohio.
6. A color dot system will be used to assure a fair mix of different seller's items. Any items registered after a color is being auctioned, none of that color will be received.
7. GAAS reserves the right to sell multiple items from the same seller as lots or to group items and any items that do not sell for at least $1 will be considered donations to GAAS
8. Please inspect all items as all sales are final, buyer beware. GAAS does not guarantee any item and is not responsible for any loss.
9. Buyers may pay by cash or choose to run a tab and pay by cash or check. There will be, however, a charge for any check returned for NSF.

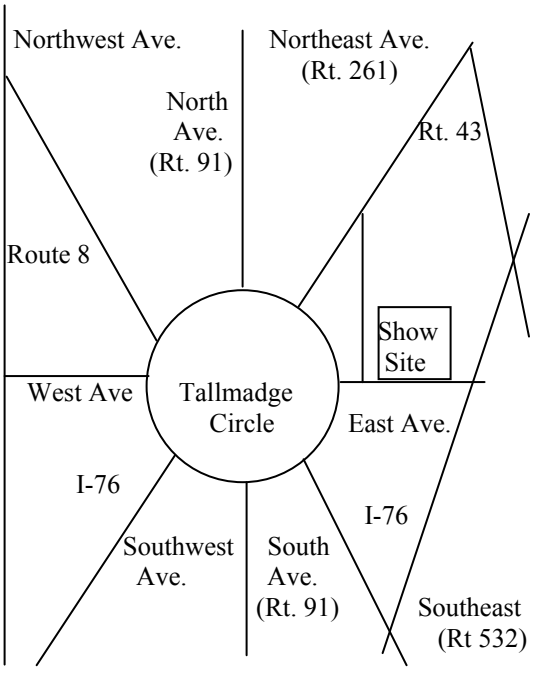
Easy Directions to the Tallmadge Community Center

From North: Take Route 8 South, exit at Tallmadge Ave. Turn left. Road will change names to West Ave. when you cross into the city of Tallmadge. At traffic circle go around half way to East Ave. Community Drive will be just past the shopping plaza. Community Center is straight ahead.

From South: Take Rt. 77 into Akron, follow signs for Rt. 8 to Cuyahoga Falls. Tallmadge Ave.Turn right. Road will change names to West Ave. when you cross into the city of Tallmadge. At traffic circle go around half way to East Ave. Community Drive will be just past the shopping plaza. Community Center is straight ahead.

From East: Take Rt. 76 toward Akron, and exit at County Rd. 18 (becomes East Ave. when you cross into the city of Tallmadge) and turn right. Continue going West on East Ave. for a couple of miles and Community Drive will be just before the shopping plaza on the right hand side just before you get to Tallmadge Circle. Community Center is straight ahead.

From West: Take Rt. 76 through Akron (make sure you follow 76 where it splits from Rt. 224) and exit at County Rd. 18 (becomes East Ave. in the City of Tallmadge) and turn left. Continue going West on East Ave. for a couple of miles and the Community Drive will be just before the shopping plaza on the right hand side just before you get to Tallmadge Circle. Community Center is straight ahead.



ULTRA-AQUA 2016 CLASSES

Special Note: all sizes listed are for mature animals not on the size at time of showing. The Show Committee will make final decision on classification in case of scientific name changes and/or size discrepancies.

1. Decorated Aquariums – Natural or artificial decorations, includes bowls and novelty decorated tanks.
2. *Betta splendens* – Males
3. *Betta splendens* – Females
4. Killifish
5. Guppies – Males, Solid Color Tail
6. Guppies – Males, Variegated Color Tail
7. Guppies – Females
8. Swordtails - Common Finnage
9. Swordtails - Fancy Finnage
10. Platies & Variatus - Common Finnage
11. Platies & Variatus - Fancy Finnage
12. Mollies
13. Goodeids
14. All Other Livebearers
15. Gouramis (*Trichogaster* and *Colisa* species)
16. All Other Labyrinth Fish (Paradise fish, wild Bettas, *Trichopsis* species etc.)
17. Angelfish & Discus
18. New World Cichlids 5" & Under
19. New World Cichlids over 5" to 9"
20. New World Cichlids over 9"
21. Mbuna *(Pseudotropheus., Melanochromis., Labeotropheus, Labidochromis, Cynotilapia,* etc)
22. *Haplochromis* (species formerly included such as *Cyrtocara, Copadichromis*, *Tyrannochromis, Dimidochromis*, etc.)
23. *Aulonocara* species (includes *Trematocranus*)
24. *Julidochromis, Chalinochromis & Telmatochromis* species
25. *Lamprologus, Neolamprologus & Altolamprologus* species
26. All Other Old World Cichlids
27. Loaches - *Botia* species
28. Loaches - All Other Varieties (kuhlis, weather loaches, hill stream lo
29. *Synodontis* Catfish
30. *Corydoras* Catfish
31. *Aspidoras & Brochis* Catfish Species
32. Suckermouth Catfish – Plecostomus Types (*Hypostomuss,Ancistrus, Panaque, Peckoltia* etc.)
33. Suckermouth Catfish - All Other Types (*Otocinclus, Farlowella, Loricaria* etc.)
34. All Other Catfish 6" & under
35. All Other Catfish over 6"
36. Characidae (Tetras & their relatives)
37. Barbs
38. Minnows & Rasboras
39. Danios
40. Rainbowfish
41. Native Fish - Naturally occurring in the continental United States
42. All Other Species
43. Amphibians
44. Invertebrates - Freshwater or Marine
45. Aquarium Plants
46. Junior Class
47. Group of Six - Adult fish, judged on how closely they are matched.
48. Pairs - Male and Female, must be visually sexable by judge.
49. Family Class - Parents and minimum of 6 fry under 3 months of age.
50. Lionhead and Ranchu Goldfish
51. Oranda Goldfish
52. Pearlscale Goldfish
53. Ryukin, Ribbontail & Veiltail Goldfish
54. Bubble Eye & Celestial Goldfish
55. All Other Eyetype Goldfish (Moors, Telescopes, Demekin etc.)
56. Single Caudal Goldfish
57. All Other Goldfish Varieties
58. Arts & Crafts - Fine Art or Hand Crafts
59. Photography – Digital Media (CD or flash drive)
60. Photography – Prints

LARGEST ALL-SPECIES TROPICAL FISH AUCTION IN NEW JERSEY

NORTH JERSEY AQUARIUM SOCIETY

GIANT FALL

TROPICAL FISH AUCTION

DAYS HOTEL & CONFERENCE CENTER

195 ROUTE 18, TURNPIKE EXIT 9...EAST BRUNSWICK, NJ 732-828-6900

SUNDAY ... OCT. 9, 2016

KEEP UP WITH REGISTERED AUCTION ITEMS ON OUR WEBSITE

RARE AND TANK BRED FISH & PLANTS!

Find us on Facebook

AUCTION STARTS AT 12 NOON

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

NJAS North Jersey Aquarium Society

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.

All-Aquarium Catfish Convention 2016

Sponsored by Aqueon | Presented by the Potomac Valley Aquarium Society

October 13-16, 2016 | Herndon, Virginia

Register Now

CatfishCon.com
PVAS.com/Forum
Facebook: CatfishCon

2016

AQUEON

Potomac Valley Aquarium Society

DO YOU WANT AN EXTRA $50 TO SPEND AT THE KEYSTONE CLASH AUCTION?

What is being given away?

Two $50 Keystone Cash notes for use at the September 18th Keystone Clash Auction will be given away.

How do you get one?

Easy, just win it at the special drawings.

When are the drawings?

The first drawing will be done at the June 18th Aquarium Club of Lancaster County regular meeting during the regular door prize and raffle drawings.

The second drawing will be done at the June 25th Cichlid Club of York regular meeting during the regular door prize and raffle drawings.

Who is eligible?

To be eligible for the June 18th drawing, you must be registered (either "Full Early Bird Registration" or Speakers only) by 1:30 PM on Saturday, June 18, 2016. If you are registering on-line, you must register by midnight on June 17th in order to ensure that your registration will be received.

To be eligible for the June 25th drawing, you must be registered (either "Full Early Bird Registration" or Speakers only) by 2:30 PM on Saturday, June 25, 2016. If you are registering on-line, you must register by midnight on June 24th in order to ensure that your registration will be received.

The fine print:

The winners will receive the $50 Keystone Cash notes in their registration packet good for use at the event auction only. Notes are non-transferable. Winners must be registered for the Keystone Clash in order to use the notes and must be present at the event.

KEYSTONE CLASH REGISTRATION FORM

Attendee #1 Name:					
Address:					
City:		State:		Zip Code:	
Phone:		E-mail:			
Attendee #2 Name:					
Attendee #3 Name:					
Attendee #4 Name:					

Item	Price	Quantity	Total
EARLY BIRD: Full Registration Package Includes: Speakers, T-shirt & Awards Banquet – BEFORE August 15, 2016	$85		
Full Registration Package Includes: Speakers, T-shirt & Awards Banquet – After August 15, 2016	$105		
EARLY BIRD Speakers Only Registration BEFORE August 15, 2016	$40		
Speakers Only Registration After August 15, 2016	$60		
Banquet	$40		
T-shirt (S – M – L – XL) Must order by August 15, 2016	$15		
T-shirt (larger than XL)	Add $2/"X"		
Show Entries-registered attendee, pre-registered by Sept. 9, 2016	$2 each		
Show Entries-registered attendee, at door, OR non-registered attendee pre-registered by Sept. 9, 2016	$3 each		
Show Entries-Non-registered attendee-door	$5 each		
Total – add last column			

Make check payable to Aquarium Club of Lancaster County and mail to:	Aquarium Club of Lancaster County 590 Centerville Road #318 Lancaster, PA 17602

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

TBD

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

Keystone Clash Show 2016 Classes

The Keystone Clash will feature a 43 class All Species Show, including 16 classes for the CCY's famous show "Clash of the Cichlids." See the event website, www.KeystoneKlash.com for details on the classes.

The Keystone Challenge

The Aquarium Club of Lancaster County and the Cichlid Club of York post this challenge – YOU CAN'T BEAT US! We feel so strongly about this that we are putting our money where our mouths are. The ACLC and CCY will give away all funds received as entry fees for this show – 25% will go to the Individual Show Champion, and 75% will go to the Club Challenge Champion. This could be a great way for your club to earn some recognition and some operating funds.

Here is the point system:

1st Place – 10 points each
2nd Place – 5 points each
3rd Place – 3 points each
Honorable Mention – 2 points each
Non-placing Show entries – 1 point each
Best of Division – Additional 10 points each
Best Cichlid – Additional 5 points
People's Choice – Additional 5 points
Best CARES Species – Additional 5 points
Reserve of Show - Additional 10 points
Best of Show - Additional 20 points

For the Club Challenge Championship, the totals of all club members who have declared that club as their home club will be totaled.

Special Awards

7 Best of Division Awards	Best Cichlid	People's Choice
Best CARES species	Reserve of Show	Best of Show

Show Champion – Individual (most points)

Show Champion – Club (most points by its members)

REGIONAL AND SPECIALTY CLUBS

Delaware County Aquarium Society

Meets the 1st Friday of each month from Sept. through June at Holy Myrrh Bearers Church 900 Fairview Rd. Swarthmore, PA 19081

www.dcas.us

Diamond State Aquarium Society

Meets the 2nd Monday of each month from Sept. through June, at William Penn High School in New Castle, DE.

http://dsas.topcities.com/

Bucks County Aquarium Society

Meets the 1st Thursday of each month, from Sept. through July, at the Churchville Nature Center, Churchville, PA.

http://www.bcasonline.com/

Potomac Valley Aquarium Society

Meets the 1st Saturday of each month from Sept. through June at the Green Acres School in Fairfax, VA

http://www.pvas.com/

Keystone Killy Group

Meets the 2nd Saturday of each month from Sept. through June (except Dec.), at members' homes.

http://www.keystonekilly.org/

Capital Cichlid Association

Meets the 2nd Saturday of each month, from Sept. through June in Silver Spring, MD.

http://www.capitalcichlids.org/

Greater Washington Aquatic Plant Association

Generally meets the 4th Saturday of each month

http://www.gwapa.org/

Cichlid Club of York

Meets the 4th Saturday of each month in Spring Grove, PA. **http://www.cichlidclubofyork.com/**

Please visit the website for the host club for more information on any listed event.

If you know of an event that is not listed, please send the info or flyer to editor@aclcpa.org.

ACLC™ SPEAKER SCHEDULE

MAY 21ST

ANTHONY INDER MAZEROLL

FISHES OF CAMBODIA

JUNE 18TH

CHARLES CLAPSADDLE

GOLIAD FARMS & LIVEBEARERS

SEPTEMBER 17TH

KEYSTONE KLASH SHOW

AQUARIUM CLUB OF LANCASTER COUNTY – MEMBERSHIP APPLICATION

DATE: / / *visit us at*: **www.aclcpa.org**

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:X_____

How did you hear of the Aquarium Club of Lancaster County? _____ Find us on Facebook

AQUARIUM CLUB OF LANCASTER COUNTY – MEMBERSHIP APPLICATION

DATE: / / *visit us at*: **www.aclcpa.org**

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:X_____

How did you hear of the Aquarium Club of Lancaster County? _____ Find us on Facebook