

# \* DELTA TALE \*

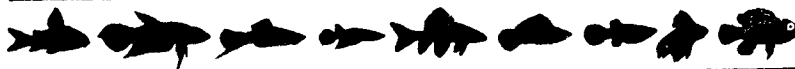
Oct. 1986  
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50¢

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potomac valley aquarium society



# POTOMAC VALLEY AQUARIUM SOCIETY



POST OFFICE BOX 6219 SHIRLINGTON STATION ARLINGTON, VIRGINIA 22206

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## 1986 PVAS OFFICERS

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Vice President: Bob Pallansch  
Treasurer: Gerry Hoffman  
Corresponding Sec.: Pete Thrift  
Recording Sec.: Pat Gore

## 1986 PVAS BOARD OF GOVERNORS

Kenny Warren, Alex Cummins, John Jessup, Ray Hughes  
ex-officio: Gerry Hoffman

## 1986 COMMITTEE HEADS

Auctions:	Fall Workshop: Gerry Hoffman
BAP: John Jessup	Bowl Shows: David Sun
HAP: Alex Cummins	Programs:
Library: Pete Thrift	Ways & Means: Pete Thrift
Membership: Pat Core	FAAS: Gerry Hoffman
Spring Show: Bob Pallansch	Delta Tale: John Mangan

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THE PREZ SAYS.....

The September meeting was a little less formal than usual. We had a good discussion of moving aquariums and their contents safely which I hope was of some use to the members. Thanks again to Rick Bell for coming through in a pinch.

The nominating board has been duly selected. It is being chaired this year by Gene Aldrich and consists of John Mangan, George White, Lea Spickler, and John Stieringer. They will present their recommended candidates to the membership at the October meeting and the slate will be presented in the November Delta Tale. Elections will be in November and additional nominations may be made from the floor. Installation of the new officers will be at the Christmas Party.

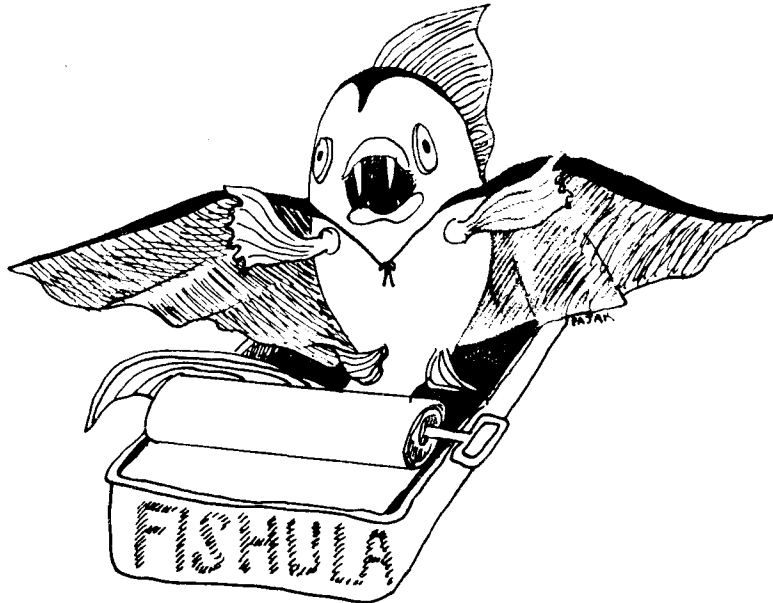
I want to remind everyone to mark down Nov 1-2 on their calendars for our first Fish Seminar and the Fall Auction. Jerry Hoffman has put a lot of effort into putting the seminar together and I'm sure it will be well worth the effort to come out to Falls Church. I hope you can all attend the seminars as well as the dinner Saturday night.

As there is always that ten percent of people who do not get the word, once again let me remind everyone of the schedule change for October. We will meet on the third Monday, October 20 instead of the 13th.

Garry Jackson of Fish, Ltd will be presenting the October program. Garry has built a wet/dry marine living rock system and will tell us all how he did it. Any one who has read the series of articles in FAMA by George Smit will want to attend this meeting. Jerry tells me he has another speaker lined up for the Fall Seminar who will speak on the same topic so it will be interesting to compare the two.

Until October,

Bob



FRUM THE EDITORZ DESK

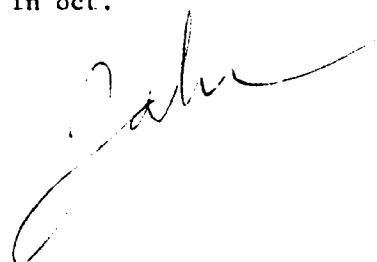
Plans for the fall workshop and auction are just about completed. You can find details in the flyer in the center of this issue, along with registration forms. We have an excellent selection of speakers lined up, there should be something to interest just about everybody. Plan to attend.

The nominating committee has met and come up with a slate of officers for next year. This will be announced at the oct. meeting. It is NOT too late to run for something though. Nominations will be accepted from the floor at the Nov. meeting. If you wish to run for something please contact Gene Aldridge, me, or any of the current officers. We will see to it that you are nominated.

I have several questions that were sent in for the Q&A column. Due to a lack of time I won't be able to answer them this month. The Q & A column will be back next month. I will answer all of the questions then.

I recently received a letter from a PVAS member which I would like all of you to read part of: "...I also have a question (suggestion) about the bowl shows held at the monthly meetings. ... It's not always obvious what the fish are that are being entered. Would it be possible to have the entrants identify the fish on the bowl for the observers who are not familiar with that species?" One of the reasons for having a bowl show is to let people get a chance to see different types or fishes that they may not get a chance to see anywhere else. Everyone would get more out of this if they knew what they were looking at. It doesn't take all that much effort to label the bowl. I always label mine. So, how about it? Let's see some labels on those bowls this month.

One final thing- don't forget the meeting date for Oct. has been changed to Oct. 20, the 3rd Monday in oct.



OCTOBER HAPPENINGS (OCTOBER 20TH)

- PROGRAM: Garry Jackson of Fish, Ltd with a demonstration of how to build your own wet/dry marine living rock system.
- BOWL SHOW: Cichlids: New World Mouthbrooder, Pseudotropheus, Open. Egglayer/Live-bearer: Goldfish and Koi, Characins and Tetras, Open.
- MINI AUCTION: Bring in your unused aquarium items and fish (raised for the BAP of course) and plants.
- RAFFLES: Never know what Pete will surprise us with next.

### A.C.A. ANNOUNCES \$900 IN GRANTS

The awarding of the first 3 grant-in-aids was announced by the Guy D. Jordan Endowment Fund, established and administered by The American Cichlid Association (ACA), at their annual convention in Milwaukee.

Marcie Friedman, recipient of a \$500 award, is currently pursuing a doctoral degree at the University of California in Berkeley. She is studying the reproductive ecology of *Heros minckleyi*, the mojarra de Cuatro Ciénegas. Friedman is the first person to attempt to understand the adaptive significance of *H. minckleyi*'s exclusively maternal brood care. This will entail studying the fish in the field as well as laboratory experimentation to test specific hypotheses generated by the field data. Friedman is currently at Cuatro Ciénegas. The support received from the Jordan Endowment will help cover the cost of this summer's work.

Axel Meyers, recipient of one of two \$200 awards, is a West German graduate student also pursuing his doctorate at Berkeley. Meyers is interested in the relationship between environmental factors, such as the availability of different types of prey and the development of food gathering structures in cichlid fishes. He plans on conducting detailed surveys of the potential prey base in the various Nicaraguan lakes inhabited by *Heros cintrinellus* and *H. managuensis* and testing these data against the observed variation in buccal and pharyngeal jaw morphology of the two species. Jordan support will enable Meyers to carry out field studies in Nicaragua this summer.

The second \$200 awardee is Peter Wimberger who is enrolled in a doctoral program at Cornell University. Wimberger is also interested in the way in which environment and genetic factors interact to produce the distinctive jaw structure of cichlids. Using *Geophagus brasiliensis* and *G. steindachneri* as subjects, he plans to compare developmental patterns, environmentally constrained, in substratum-spawning vs. mouthbrooding cichlids. He hypothesizes that exposing young cichlids to various diets will result in a greater range of morphological change in jaw development among mouthbrooders than in substratum-spawners. Wimberger will use the Jordan aid to purchase apparatus.

The Endowment Fund was set up at the 1984 ACA convention in Dayton, Ohio following the late 1983 death of Guy D. Jordan, one of founders and guiding lights of the association. It was partially funded by donations from Jordan's family with additional contributions from ACA membership and allied businesses and hobby groups.

Awards can be made in two categories: (1) Prospective awards based on submitted proposals of research on the family *cichlidae* and (2) Meritorious awards in recognition of accomplishment in the maintenance, breeding and care of cichlids (i.e. work already completed) to be selected from nominated candidates. All three awards made this year were in the first category - proposals submitted by researchers or students.

There were no nominations in the second category, hence no awards. This category was meant primarily for hobbyists and will require more widely spread dissemination of the fact of its existence before nominations will be forthcoming. The ACA encourages local hobby groups to consider nomination of members who have done serious, documented studies of the family *cichlidae*. Although all three awardees this year are members of ACA, membership is not a condition of eligibility for an award.

Contributions or enquiries regarding the Guy D. Jordan Endowment Fund should be sent to the current administrator, Ross Socolof, 590 Lakeside Dr., Bradenton, Florida 33507.

Category 1 aspirants apply to Paul V. Loiselle  
134 Bentley Ave  
Jersey City, New Jersey 07304

Category 2 nominations to be sent to Randy Crout  
419-A Hidden Brooke Dr.  
Glen Burnie, Maryland 21061

ACROSS

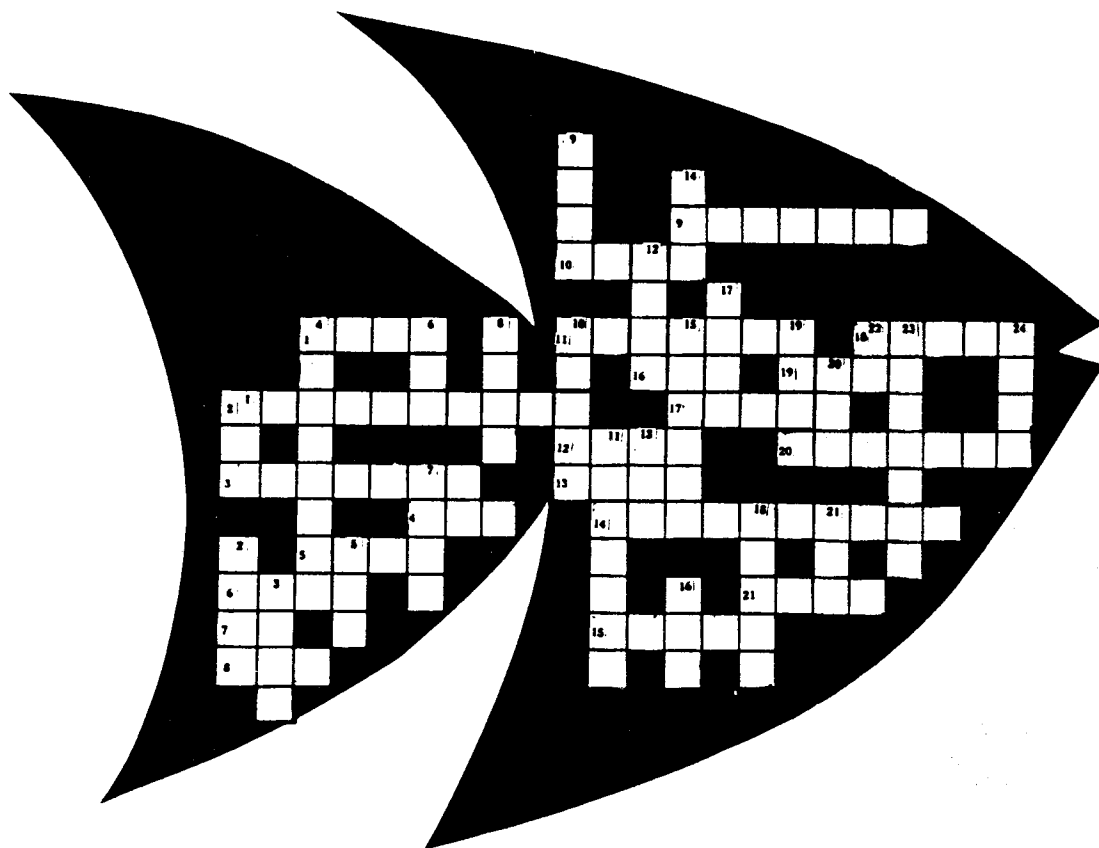
1. a member of the "goldfish" family. Spilling gunk on the carpet while changing water will cause your spouse to \_\_\_\_\_
2. A long "catfish" that does not fare well with most cichlids
3. undesirable chemical in a salt water aquarium
4. Killiefish fan club
5. bright light fish
6. a woody plant mudskippers climb in unfishlike fashion
7. scientific term denoting "at the age of"
8. color of a jewel
9. the best kind of fish \*
10. a type of limestone kept in cichlid aquaria
11. feeding these fish to red devils will not color them up. Not a "bad" fish sometimes kept by killiefish nuts
12. a brackish water fish
13. fish more likely to be eaten by humans than kept in aquaria
14. small sea snail with a cone shaped shell
15. the most intelligent aquarium fish?
16. long nosed native fish
17. not a fun activity at a fish auction
18. latin prefix for winged
19. Biblical unit of measure
20. French royal title derived from a majestic sea creature
21. suffix denoting similarity as in \_\_\_\_\_ tilapia

DOWN

1. fish propulsion appendage
2. a well pointed marine fish
3. something many corals will build
4. fish color enhancer
5. a worm of a fish
6. despite its name, a dogfish has nary a \_\_\_\_\_
7. piscine container
8. sediment carried by water that clogs things up
9. deepest kind of lake
10. most aquaria consist of \_\_\_\_\_
11. a small crustacean
12. amphibian known to devour fish
13. some people drink this beverage like fish do water. (hint: the \_\_\_\_\_ wife does not keep Lake Michigan beaches clean).
14. U.S. cichlid fanatics group
15. a dashing native fish
16. German cichlid society
17. found at the bottom of unclean aquaria
18. a peer of a dock
19. likely status of fish when the nitrogen cycle runs amuck
20. professional association that considers waterholes a curse instead of a likely source of native fish
21. fish catching device
22. water chemistry term
23. immature frog
24. flighty fish should not be kept in tanks that are \_\_\_\_\_

\* ed. note- I'll give you a clue to this one. This puzzle was created by George White. J.M.

PISCATORIAL PUZZLE CONTEST



To win this easy contest, you must be the first to mail a correctly completed puzzle (a photocopy will be acceptable) to PVAS. First will be determined by postmark. First prize will be three fine cichlids. Consolation prize will be a black and white picture of a Goodied in breeding color.

ed. note- this is a real contest, not a joke. The answers will be in next months Delta Tale. J.M.

Yes Virginia - A Beginner's Apisto

By: Bob and Rosie Clarke

Having tried to maintain specimens of the Apistogramma species whenever we were able to find them, we had drawn the conclusion that these fish were definitely not for the beginner. However, over the past two years, we have come to know a little character which we feel does fall into this category. This is the Apistogramma catei.

Over the past couple of years this species has been regularly available within the hobby. This availability in itself is unusual for Apistos. Although it has very little colour it is certainly worth attaining if you wish to try what we believe to be the easiest Apisto to maintain and breed.

The only colour to speak of is a little blue on the gill plate of the males. Their fins do get a little elongated and present a fairly nice lace pattern. The females are usually a touch smaller than the males and quite drab in their normal dress.

Although Apistogramma catei is not the first of the family that we have spawned it is certainly the easiest. We obtained four fry at an auction in March and it was one of those not so rare times when we the hobbyists had nothing at all to do with the spawning activity.

We had placed the young catei in a ten gallon tank with some Rasbora heteromorpha to grow up. As it was summer, the busiest time for us with shows and conventions we paid little attention to the tank other than feeding and water changes. They were fed the normal fish room fare of beef heart mixture, frozen brine shrimp and flakes with baby brine given to boost their growth whenever there was some available.

So you can imagine my surprise when siphoning the tank next door to see what appeared to be a female in brood care dress. She was absolutely striking with her bright yellow body with jet black markings. After searching the tank we found about fourteen fry gathered together in the top of a flower pot which is also home to an Amazon Sword plant. The female was madly protecting her brood from everyone in the tank.

As it was our first spawn of catei we siphoned most of the fry out to rear in a separate tank. We left some in for the female to continue guarding. The fry were easy to raise on micro worms and baby brine shrimp. The only problem we came across with the fry is the usual fry intolerance to poor water quality. They fry were raised in the same water as the parents which is medium hard with Ph of 7.2-7.4.

Since that first spawn we have had several successful spawns so that we now have a good quantity of young. As a matter of fact, we had so many fry around that we have left the last spawn with the female for the past three weeks. They are growing nicely and the female has been able to protect them from the rasboras with very few casualties. The only difficulty was that she decided to take after the male. This is common practice with Apisto females however so we simply separated him from the rest of the tank. If you are one of those hobbyists like us who have looked for Apistos for a while and even failed at keeping some of the other species give this one a try. They are available and will give your ego a boost when they spawn.

(Reprinted from Tank Talk, Sault and Area Aquarium Club)



# **The Potomac Valley Aquarium Society**

ANNOUNCES ITS FALL 1986

## **WORKSHOP - BANQUET - AUCTION**

**SATURDAY, NOV. 1 & SUNDAY, NOV. 2**

**BEST WESTERN FALLS CHURCH INN, 6633 ARLINGTON BLVD. (RT. 50), FALLS CHURCH, VIRGINIA**

### **FEATURED SPEAKERS**

- David Herlong: "News and Views From Lake Malawi"
- Mike Trzonkowski: "Aquatic Plants by the Hobbyist"
- Ed Taylor: "Fish Farming in Florida Today"
- Rick King: "The Wet-Dry Filtration System"
- Danyelle Dove: "Outdoor Aquatic Gardening; Waterlilies"
- Paul Loiselle: "Dwarf Cichlids"  
"Costa Rica: Fish Collector's Paradise"

### **SCHEDULE OF EVENTS**

**Saturday, November 1 - 8:30 am Workshop Registration**

**9:15 am - 4:30 pm Speakers**

**(Lunch break at about 12:15)**

**6:30 pm Social Hour (Cash Bar)**

**7:30 pm Banquet & Dinner Speaker**

**Sunday, November 2 - PVAS Annual Fall Auction**

**9:00 am Registration of Auction Items**

**11:30 am Auction Begins**

### **TWO GIANT RAFFLES**

**MISCELLANEOUS ITEMS DURING THE AUCTION: Tickets 3 for \$1**  
**GRAND FINALE: 55 GALLON TANK, STAND, SET UP: Tickets \$1 each**

**EVERYONE WELCOME**

**AQUARISTS OR THOSE INTERESTED IN BECOMING AQUARISTS!**

**Over Please for Registration Information**



**P.V.A.S. AUCTION - SUNDAY. NOV. 2**

**RULES FOR THE SELLER:**

1. You do not have to be a member of PVAS to buy or sell hobby-related items, including fish, plants, equipment etc.
2. Registration of items for the auction will begin at 9 am and will end promptly at 12:00 noon on Sunday,
3. Auction will start at 11 am while registration is still in progress.
4. All items **MUST** be labeled with identity of contents, number in bag, sex (if possible) and other pertinent data Use a permanent ink marker or adhesive label. Labeling equipment will be available at the auction, but labeling must be accomplished before the items will be registered.
  - a. Fish: "Pair" means one of each sex. "Mated Pair" means a pair that have spawned WITH EACH OTHER. "Trio" means one male and two females. "Reverse Trio" means two males and one female. "Mixed sexes" means at least one specimen of each sex. If uncertain, the bag should be marked "Unsexed".
  - b. Supplies: All aquarium equipment **MUST** be labeled as to working condition. (i.e. it must be stated if a tank leaks or is broken).
5. Proper fish bags **MUST** be used. Live items must be bagged with ample air and water. Fish packed in "Baggies" or similar bags will **NOT** be registered. If a fish is registered in a tank or bowl, the container will be considered part of the item and it will be auctioned as a unit. After registration, the Auction Committee reserve the right to re-bag any live item as is necessary.
6. Registration is limited to fifteen (15) items per person. There will be no exceptions.
7. A limit of five (5) bags per species or color form/variety is allowed unless prior approval is given by the Auction Chairman.
8. For every five (5) items placed in the auction, one (1) colored sticker will be given to the seller to attach to the item of his choice. These items will be sold first at the auction.
9. Bags will be offered "as is" and will be sold as an item. Once registered, the contents of the bag may not be split.
10. Each item carries a \$1.00 minimum, unless the seller assigns a higher minimum. The seller may lower the minimum on an item that does not move during the auction.
11. No payment will be made to seller on the day of the auction. Payment will be forwarded by mail within ten (10) days after the auction date. It is the responsibility of the SELLER to be sure P.V.A.S. has their proper name and address to receive payment. Envelopes for this purpose will be filled out at the registration desk.
12. The seller receive 2/3 of the selling price, PVAS retains 1/3.
13. All items not sold must be claimed at the end of the auction or they will be disposed of at the Auction Chairman's discretion.
14. Auctioneer retains the right to set aside improperly bagged or marked item, or any sick fish or otherwise unsaleable item.
15. Fish species that are restricted by either Federal or State statute will not be accepted. These include, but are not limited to: Piranhas, Texas Cichlids and Walking Catfish.

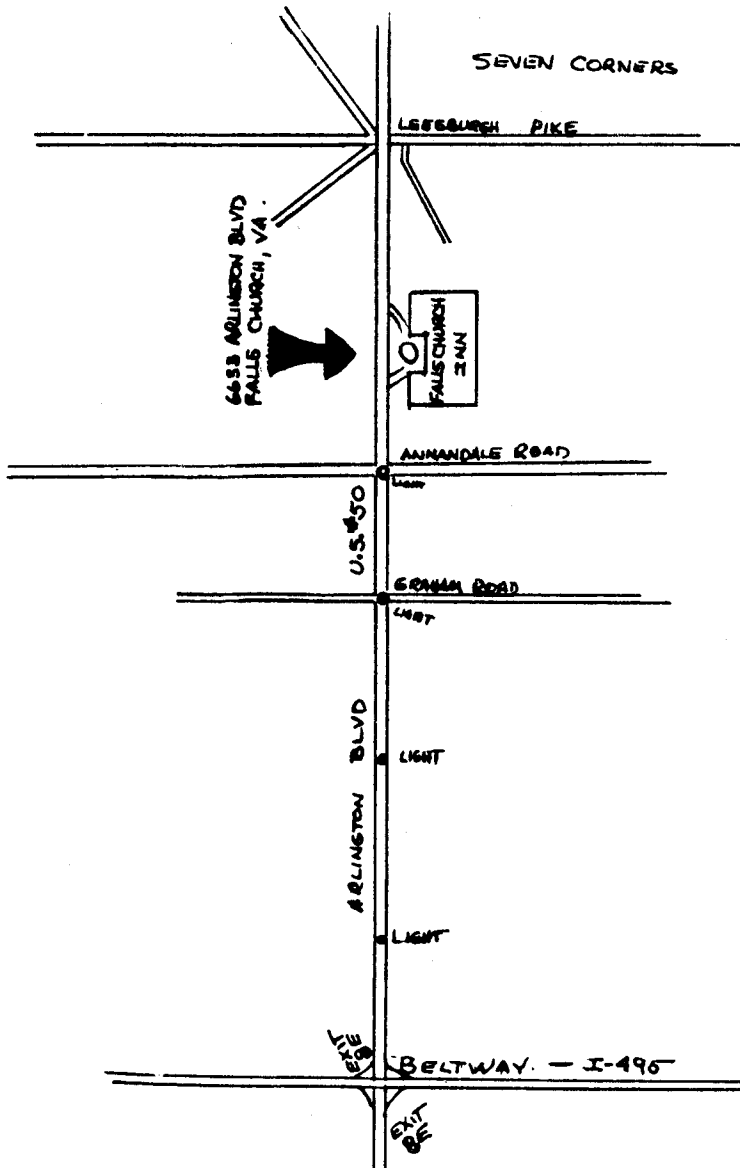
**RULES FOR THE BIDDER:**

1. All persons wishing to participate will be required to sign in with their full name and address. Bidding numbers will be assigned to all buyers.
2. Items may be inspected before the auction begins and during intermissions only.
3. All bidding raises will be in fifty (50) cent increments up to \$5.00. At that point, \$1.00 bidding raises will be used. The Auctioneer has the right to alter this procedure at his discretion.
4. Successful bidders will have their items brought to them, at which time payment is expected. If a bidder wishes to "run a tab" and pay by cash or check at the end of the auction, please see the Treasurer before the auction. Proper identification will be required for payment by check.
5. In all instances the decision of the auctioneer is final.

**SEE MAP ON BACK**

## LOCATION BOTH EVENTS

Falls Church Inn, 6633 Arlington Blvd. (Rt. 50), Falls Church, Virginia 22042



SPONGE FILTERS: JUNGLE GOLDFISH vs TETRA BRILLANT  
A Personal Evaluation  
by Pete Thrift, PVAS

Shortly after my entrance into the hobby, and after killing more fish than I care to admit to, I became aware of the necessity of biological filtration and regular partial water changes. My first serious interest was in the raising of fancy goldfish, which I was told are more tolerant of poor water management. This is true, but only to a point. Once that point is reached, goldfish are not "more tolerant", they just take longer to die. And with goldfish, that point is reached more quickly than most hobbyists realize. Goldfish produce considerably more waste products per inch of body length than almost any other aquarium fish, including most larger cichlids. They are proof of what FAMA columnist Paul Speice has been preaching for years - the capacity of an aquarium is determined by "pounds of fish, not inches of fish".

My first attempts at biological filtration used undergravel filters. These filters performed well at first, but rather quickly became overwhelmed by tank waste load, even with weekly gravel vacuumings and partial water changes. I found myself tearing down my tanks several times a year to clean under the filter plates. So I replaced my undergravel filters with internal sponge filters, which could be easily removed for cleaning.

There are three major manufacturers offering air-driven sponge filters to American hobbyists - Aquarium Products, Jungle, and Tetra. Only Jungle and Tetra are widely available in the PVAS area. The Jungle filters are round, triangular, square, or cloverleaf-shaped foam around a weighted plastic center with a small, short clear lift tube. The Tetra filters are cylinders of foam around an L-shaped green lift tube, with a return elbow which can be extended to the water surface, and suction cups to attach the filter to the tank wall. I chose Jungle because they were cheaper and could be concealed in the tank gravel, but I kept wondering whether they offered the best filtering performance.

Some months ago, I decided to perform a comparison test between the Jungle and Tetra filters. To keep the test simple and the results easily measured, I would equate biological filtration performance with mechanical filtration performance - the more waste collected in the sponge, the better the filter performed both mechanically and biologically. This isn't necessarily true for power filters with high flow rates, but I believe it is valid for these air-driven filters with their low flow rates.

I set up a fifteen gallon tank with both a Jungle Goldfish model filter and a Tetra Brilliant (yes, that is the correct spelling) model. Both filters were newly purchased for this test. Each filter was driven from its own outlet on a Whisper 800 air pump so that equal volumes of air were going to each filter. The tank was deliberately overstocked with seven adolescent fantail goldfish fed twice daily. Once per week, each filter was rinsed in its own one gallon bucket filled with tap water, and the tank floor was vacuumed as part of a 30% water change. The water in each bucket was allowed to settle for several hours, and then the amount of sediment at the bottom of each white bucket was compared. I ran this test for eight weeks, varying equally each week the amount of air going to each filter. After four weeks the filter and outlet combinations were reversed to further insure equal air flow rates.

In every case, the Tetra filter outperformed the Jungle filter, despite a much lower manufacturer capacity rating (20 gallons for the Tetra, up to 100 gallons for the Jungle). Each time, there appeared to be almost twice the waste and sediment in the Tetra bucket as in the Jungle bucket. I am the first to admit that this was not a very scientific test, but I believe its conclusion to be true: the Tetra filter design is considerably more effective than the Jungle design.

I believe there are two reasons for the above conclusion. First, I think the Jungle design permits water to either bypass the foam filter block around the weighted center, or be drawn into the lift tube around the air supply tube and bypassing the filter body altogether. Secondly, the Tetra's much longer lift tube and directional return elbow makes it much less likely that filtered water will be immediately redrawn into the filter.

By the way, I learned during this test that it is very easy to overdrive the small diameter lift tubes of these filters. More air is not always desirable. Raise the lift tube about half an inch above the water surface for observation, and vary the air input to obtain the greatest water flow. If your air pump is large enough, you will find an air level beyond which the water flow will decrease because air is beginning to completely fill the lift tube and less water suction is occurring.

All of this is not to say that the Jungle filter is a bad product, because it isn't. There must be tens of thousands of hobbyists successfully filtering their tanks with Jungle filters. But in my opinion, the Tetra filter is a much more efficient filter, and this efficiency is well worth the additional cost of this filter and its visibility when viewing the tank.

### ZIGGY



# Trading Post

Ads for the trading post should be sent to Delta Tale c/o John Mangan, 9770 Oleander Ave., Vienna, VA 22180 by the 20th of the month prior to publication. Ads will be run in one issue only, unless the advertiser requests a longer run.

Want: *Julidochromis ornatus*; *Epiplatys annulatus*; *Synodontis decorus* (small), *angelicus* (small), *multipunctatus* (small). Call or write to Scott Rapiet, PO Box 340, Ivy VA 22945. (804) 973-FINS (W), (804) 295-0980 (H).

Want: several young *Festivum*. ask for Diane Spencer at (301) 251-8600 (Rockville) between 9am-4pm weekdays, (301) 622-1076 weeknights.

For Sale: Supreme Aquaking power filter, excellent cond. \$16.00.  
Hagen Aquaclear Jr. power filter, very good cond. \$6.00.  
aprox. 15 lbs. washed dark blue gravel \$4.00.  
TFH book Goldfish Guide, 2nd edition, new condition \$5.00.  
TFH book All About Discus, revised edition, new cond. \$5.00.  
Pete Thrift 971 0594.

Want: *Allotoca* spp.; *Zoogoneticus* spp; *Allodontichthys* spp.; female *Ataeniobius toweri*; female *Iriatherina wernerii* (red-tail strain); old aquarium books and magazines.  
For Sale: *Xenotoca eiseni*, young adults, \$3.00 pr.; *Aneca splendens*, fry \$1.00 ea., young adults \$3.00 pr.; *Xiphophorus helleri helleri*, F<sub>2</sub> from wild stock, fry \$1.00 ea.; backissue aquarium magazines, send SASE for catalogue.  
John Mangan, 9770 Oleander Ave, Vienna, VA 22180.

For sale: fry or subadults of the following rift-lake cichlid species: *Pseudotropheus Macrothalmus* (Chilumba), *Labeotropheus Trewavasae*, \$3 each or \$10 for four. Or will trade for other cichlids. German Language books: *Eierlegenden Zahnkarpfen* (Killies) by Reinhold Bech, an Esat German book not yet available in the West. \$12. *Mbuna-cichliden* by Soren Neergaard \$10. English language book: *Zoophysiology, Diversity and Adaptation in Fish Behaviour* by Miles Keenleyde \$20. George White 524-3785.

For Sale: Perfecto 55 gal. tank, stand, hood, filter, heater, gravel, \$200 (negotiable).  
Perfecto 40 gal. tank, hood, filter, heater, gravel, \$150 (negotiable).  
20 gal. tank, hood, heater, stand, \$50.  
10 gal. tank, hood, heater, \$20.  
contact John Bratton 960- 7780.

BOWL SHOW REPORT FOR

~~June~~ Sept.

**CICHLIDS**

Angelfish/Discus

1st marble angel, J. Bennet  
2nd marble angel, J. Bennet  
3rd

Non-Riftlake African

1st kribensis, D. Sun  
2nd kribensis, J. Lamberth  
3rd

Open

1st D. Mann  
2nd Ps. zebra, J. Bennet  
3rd Keyhole, D. Sun

Judge- Kennv Warren

	MONTH	QUARTER	ANNUAL
D. Sun	12	19	116
J. Bennet	12	18	56
D. Mann	5	21	28
J. Long	0	0	22
C. Edler	0	0	17
J. Lamberth	4	5	10
R. Hughes	0	4	4
I. Kooken	0	0	4

**EGGLAYERS/LIVEBEARERS**

Livebearers, Non-Guppy

1st J. Mangan  
2nd sailfin molly, J. Bennet  
3rd halfbeak, J. Stieringer

Sharks & Loaches.

1st Rotia striata, J. Stieringer  
2nd flyino tox, J. Stieringer  
3rd tricolor shark, J. Stieringer

Open

1st T-barb, J. Bennet  
2nd Chor. gourami, D. Mann  
3rd rasbora, D. Mann

Judges Choice- Botia striata

	MONTH	QUARTER	ANNUAL
I. Bennet	12	24	102
B. Pallansch	1	4	48
J. Lamberth	2	17	41
J. Stieringer	14	26	33
D. Mann	9	22	22
C. Edler	0	0	21
J. Mangan.	8	15	17
D. Sun	0	7	11
J. Long	0	0	6
S. Ptasek	0	0	5
J. Kooken	0	0	4
R. Hughes	0	2	2
B. Roser	0	0	2
J. Carter	0	1	1

October catagories

Cichlids

New world mouthbrooder  
Pseudotropheus  
Open

Egglayer/Livebearer

Goldfish & Koi  
Characins  
Open

ed. note- all bowl show participants please read this months  
"Frum the Editorz Desk" column. Thank you. J.M.



# POTOMAC VALLEY AQUARIUM SOCIETY



POST OFFICE BOX 6219 SHIRLINGTON STATION ARLINGTON, VIRGINIA 22206

## APPLICATION FOR MEMBERSHIP

DATE \_\_\_\_\_ 19 \_\_\_\_

NAME \_\_\_\_\_

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

TELEPHONE H \_\_\_\_\_ W \_\_\_\_\_

OCCUPATION \_\_\_\_\_

Where did you hear about PVAS/get this application? \_\_\_\_\_

Number of tanks \_\_\_\_\_ Time in hobby \_\_\_\_\_

What can this club do for you? \_\_\_\_\_

What do you want to do for the club? \_\_\_\_\_

Membership dues for the Potomac Valley Aquarium Society are:

Family: \$12.00

Corresponding: \$7.00

Individual: \$10.00

Junior (under 18) : \$5.00

Please send application and check for dues to address above.



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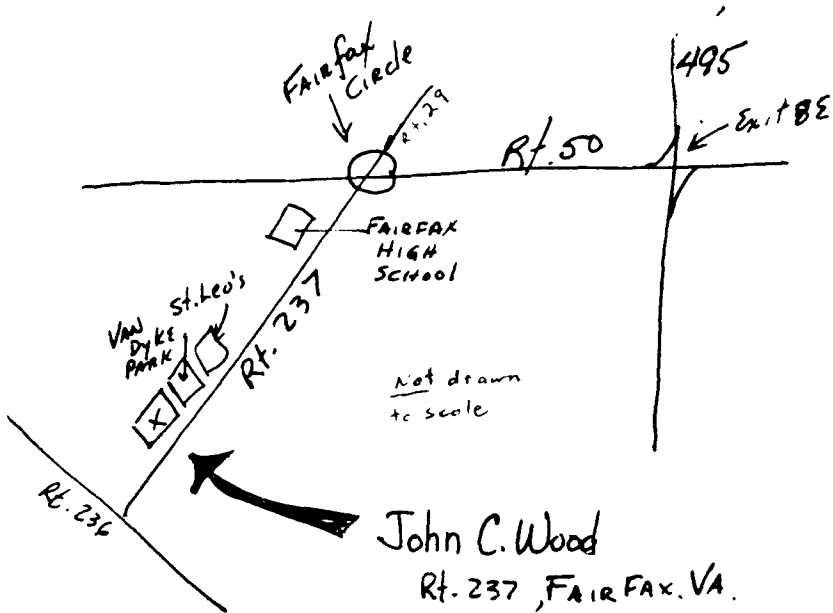
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POTOMAC VALLEY AQUARIUM SOCIETY  
PO BOX 6219, SHIRLINGTON STATION  
ARLINGTON, VIRGINIA 22206



01780  
PENN. FISH CULTURISTS ASSOC  
1823 DODLEY STREET  
PHILADELPHIA, PA 19145

John C. Wood  
Rt. 237, FAIRFAX, VA.

The Potomac Valley Aquarium Society will meet on the following dates in 1986:

- |         |                                                     |
|---------|-----------------------------------------------------|
| Aug. 11 | Nov. 10                                             |
| Sept. 8 | Dec. 8                                              |
| Oct. 20 | please notice this is a change from the normal date |

Meetings are held at the John C. Wood Facility, Rt. 237 (Old Lee Hgwy)  
Fairfax City, VA. Doors open at 7:30 PM, meetings start at 8:00 PM.  
Everyone is welcome.