

* DELTA TALE *

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potomac valley aquarium society



SPRING SHOW RESULTS INSIDE

POTOMAC VALLEY AQUARIUM SOCIETY



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Membership: Kurt Schnepf	Delta Tale: John Mangan
Spring Show: Darrell Holman	

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From The President

The big weekend is over; the awards are all handed out, and the many bags of fish are all sold. Now the fun begins at home. Many of those new purchases will soon be spawning and bringing hours of enjoyment to each of us.

Many thanks to everyone who entered fish in the show. The total number of entries was up from last year, and the competition was very good in many of the categories. Consider the African catfish; only 1/3 of a point (out of 100 points) separated the 1st, 2nd, and 3rd place winners. What a tough decision for the judges! A lot of new faces entered fish and they should be congratulated. A good number of awards went to fish that traveled all the way from Canton, Michigan (near Detroit). Now that's the type of person PVAS could use more of - a true fish nut. Other fish came from North Carolina and Pennsylvania. Even Jim Long got into the spirit and entered a few things. His large Water Sprite got extra points on size but had points taken away for department-it just lay there.

All five judges should be commended for a job well done. Despite all the car troubles (Ed Taylor's car breaking down 30 minutes from here; the Eckstein's never making it from New York) our five judges (Ed and Cathy Taylor, Gene Aldridge, Dave Herlong, and Gerald Pottern) were consistent in their scoring and deserve special thanks. All in attendance at Mr. T's got to hear a terrific talk by Ed Taylor on the new fishes from Australia and New Guinea. Wonderful slides, lots of information (sterilized fish from Germany?) and a surprise notice of Ed leaving T.F.H. were the highlights of the evening.

Our auction might have been the best ever! Over 6 hours of fish selling went on, and killifish commanded the high prices this year. Remember when all you saw were African cichlids? Times are changing once again. Lots of nice fish were available, and I hope you took some home.

For everyone who helped out, I extend my deepest appreciation. A club exists only with a little bit of help from everyone. The names are too numerous to list here, but you know who you are. A lot of PVASers contributed time and effort---THANK YOU.

Remember next month (June) the meeting will be held in a new location. See the map included in this issue. We have been very fortunate to have had the use of the Jefferson Fire House for some time, but now the building is undergoing renovations once again and we must relocate elsewhere for a good while. It took some special doing to be able to use the hall now for our Show, but it all worked out.

Like other previous years, new members have joined PVAS at this time of our big extravaganza. Some may be beginners in the hobby (we all were once) and others may have kept fish for some time but had not found out about our club until now. Let's all try to give them a warm welcome at our next meetings so our club can grow in numbers and in friendship. Remember the following line, and our organization will never be wanting: There are no strangers, only friends we have yet to meet.



Editorial

Whew! The show and auction are now history and everyone involved in working on them is giving a big sigh of relief. There's a lot of work done behind the scenes that most people are never aware of. I had a chance to see much of it this year since I let my car be used to "rescue" Ed Taylor and party (see what I mean, how many of you knew that Eds' car died and several people had to be sent out to rescue him, his wife, friend, and fish?). Due to this I ended up hanging around all day doing odd jobs for the people doing all of the tedious, thankless jobs involved in determining the show winners. These people, and everyone else that helped out from long before the setup until well after cleanup, deserve a big thank you from the entire club. Without them the whole thing would not have been possible. I'd like to mention them all by name but I'd surely miss some since there are so many jobs that are essential but not visible.

Next topic- did you disagree with any of the judges decisions? I usually find at least one thing that I disagree with every year and I know many of you probably do too. This year I had a chance to find out why this is so. The judges often differ rather widely in their opinions of a fish. There were some cases where they differed by 40 points or more (out of 100 possible) on one fish. If the judges can't agree with each other it's no wonder we often don't agree with the judges.


Congratulations to all of the show winners. There is a complete list elsewhere. To those of you that didn't win this year- don't get discouraged, try again next year.

Hot news scoop- for those of you that missed Ed Taylors very interesting talk on rainbows- Ed is no longer editor of Tropical Fish Hobbyist magazine.

The American Livebearer Association will be holding their first(?) convention July 20-22 in Kalamazoo, Michigan in conjunction with the Southwestern Michigan Aquarium Society show, workshop, and auction. Anyone wishing more information please contact me. I will have more details in the July issue.

Special bowl show category this month-- last month you got a chance to show off your best fish at the spring show, this month we will give you a chance to show off your worst. I am proud (?) to announce the first, and maybe the last, annual oddities and deformities competition. Here's your chance to do something with all of those deformed fishes you didn't have the heart to destroy. There will be a special prize for the winner. Diseases do not qualify. This is NOT an april fools joke (it isn't even april).

Last topic for this month- deadlines. The deadlines for the trading post and question & answer columns is the 15th of the month prior to publication, deadlines for all other items is the 20th. Things have been getting to me later and later each month. Starting next month these deadlines will be strictly enforced. Anything not in my hands by deadline will not get in to Delta Tale unless you call beforehand with a very good excuse.



TO: EVERYONE THAT HELPED WITH THE SPRING SHOW AND AUCTION

THANK

YOU

FROM: ALL OF THE MEMBERS OF P.V.A.S.

1984 SPRING SHOW RESULTS

Best in Show- Gerry Hoffman, Crenuchus spilurus

Reserve in Show- Manny Prieto, Apisto. cacatuoides

Class

I. Livebearers Best of Class- Tom Heflin

- a. Delta Tail Guppy, Male
1st William Brett Schneider
2nd Darrell Holman
- b. Delta Tail Guppy, Female
1st William Brett Schneider
- c. Guppies, all others
1st John Mangan
- d. Mollies
1st Jim & Sue Altland
- e. Swordtails & Platies
1st Tom Heflin
2nd Darrell Holman
3rd Jim & Sue Altland
- f. Goodeids
1st John Mangan
2nd John Mangan
- g. Other Livebearers
1st Pat Mahoney
2nd Jim & Sue Altland



II. Egglayers, non-cichlid Best of Class- Gerry Hoffman

- a. Catfish, Corydoras
1st Jim Long
2nd William Brett Schneider
3rd Laurie Jean Conger
- b. Catfish, African
1st Darrell Holman
2nd David Herlong
3rd Adam Hain Jr.
- c. Catfish, all other
1st Amy Stirman
2nd John Mangan
3rd Adam Hain Jr.
- d. Betta splendens
1st Heather Altland
2nd Susan Kuhns
3rd Heather Altland
- e. Other Anabantoids
1st Pat Mahoney
2nd Adam Hain Jr.
3rd Doreen Brensike
- f. Sharks and Loaches
1st Ken Eide
2nd Ken Eide
3rd Stephen J. Ptasler

Class

II. cont.

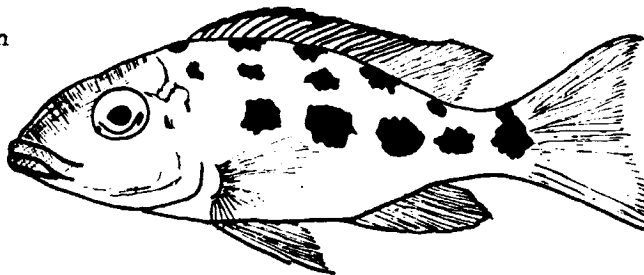
- g. Tetras
 - 1st Gerry Hoffman
 - 2nd Jim Long
 - 3rd Linda Lopez
- h. Barbs
 - 1st Linda Lopez
 - 2nd John Mangan
 - 3rd Jim & Sue Altland
- i. Goldfish and Koi
 - 1st Pete Thrift
 - 2nd Pete Thrift
 - 3rd Susan Linta
- j. Danios, Brachydanios, Rasboras
 - 1st Darrell Holman
 - 2nd Darrell Holman
 - 3rd Jim & Sue Altland
- k. Killifish
 - 1st Gerry Hoffman
 - 2nd Manny Prieto
 - 3rd Jim Long
- l. North American Natives

No entries

- m. Other Non-Cichlid Egglayers
 - 1st Jim Long
 - 2nd John Mangan
 - 3rd Kurt Schnepf

III. Cichlids Best of Class- Manny Prieto

- a. New World Large
 - 1st Linda Lopez
 - 2nd Susan Linta
 - 3rd Susan Linta
- b. New World Medium
 - 1st Darrell Holman
 - 2nd Daniel Cohen
 - 3rd Pat Mahoney
- c. New world Dwarf
 - 1st Manny Prieto
 - 2nd Ken Eide
 - 3rd Ken Eide
- d. Angelfish
 - 1st Adam Hain Jr.
 - 2nd Adam Hain Jr.
 - 3rd Pat Mahoney
- e. Rift Lake, Malawi
 - 1st John Mangan
 - 2nd Alan & Laurie Coltri
 - 3rd John Mangan



Class

III. cont.

- f. Rift Lake, Tanganyika
 - 1st Pat Mahoney
 - 2nd Daniel Cohen
 - 3rd Darrell Holman
- g. Discus
 - 1st Linda Brensike
- h. Non-Rift Lake African
 - 1st Nathan Manwaring
 - 2nd Amy Stirman
 - 3rd Alex Cummins
- i. Cichlid Pairs
 - 1st Laurie Jean Conger
 - 2nd Amy Stirman
 - 3rd Daniel Cohen
- j. Other Cichlids

No entries

IV. Marine Best of Class- Jason Kooken

- a. Fishes
 - 1st Jason Kooken
 - 2nd Darrell Holman
 - 3rd Darrell Holman
- b. Invertebrates
 - 1st Jim & Sue Altland
 - 2nd Jim & Sue Altland
 - 3rd Jim & Sue Altland

V. Family of Fishes

- 1st Linda Brensike
- 2nd Stephen Ptaszek
- 3rd Nathan Manwaring

VI. Plants

- 1st Jim Long
- 2nd John Mangan

VII. Set Tanks

- 1st Laurie Jean Conger

VIII. Dealer Tanks

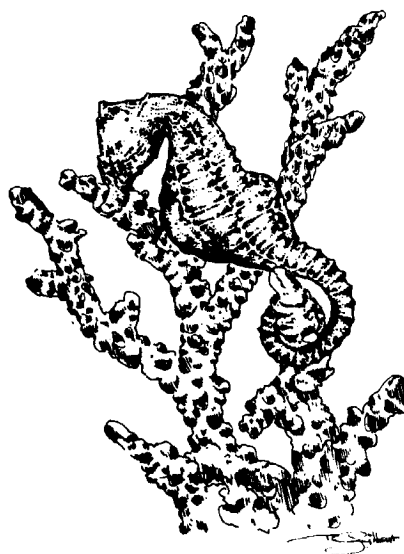
- 1st Fish Ltd.

IX. Photography Best of Class Ruth Brewer

- a. Slides
 - 1st Gene Aldridge
 - 2nd David Herlong
 - 3rd Gene Aldridge
- b. Prints
 - 1st Ruth Brewer
 - 2nd Ruth Brewer
 - 3rd Ruth Brewer

X. Art

- 1st Ted Gilbert
- 2nd Connie Rizzulo
- 3rd Ted Gilbert



MURPHY'S LAW

Pat Mahoney, PVAS

Murphy's Law is loosely defined as "if something bad can happen, it will!" This unfortunate maxim came to the fore during this year's Spring Show but went mostly unnoticed except for a few attendees.

Ginny Eckstein of Long Island, Wayne Liebel of Easton, PA, Gene Aldridge of Harrisburg, PA and Ed and Cathy Taylor of Virginia Beach had all agreed to be judges for this year's show.

Gene Aldridge, accompanied by the ever-present NIKON, arrived Friday afternoon with the remaining judges expected to arrive Saturday morning. The judging was scheduled to commence at 1:00 PM.

About 11:00 AM on Saturday, our President received a call from Ginny E from "somewhere in the wilds of New Jersey." Due to a natural calamity (and a few unnatural ones), the Ecksteins and rider Wayne Liebel could not reach the DC area anywhere near the scheduled judging time. They did the only thing they could do - they turned around and went home. Duly apologetic, they were also put out since the car was loaded with fish for our auction.

It seems a burst waterpipe flooded Casa Eckstein and had Charlie playing plumber moist of the night. Long enough to delay their early morning departure. They might still have made it if they hadn't gotten stuck in traffic backed up from a wreck on the George Washington Bridge. The latter saw them sitting on the bridge well over an hour before the police could get the traffic sorted out. This made the trip to the Garden State take two and a half hours when normal driving time is about an hour. In the meantime, Wayne Liebel is waiting in Fort Lee wondering where in the pluperfect hell was his ride.

The end result is that PVAS lost the services of two outstanding judges. Fortunately for us, David Herlong, past Chairman of the ACA and Gerry Potter, arrived before noon from Raleigh, NC, and stepped into the breach. Thanks to both of them - they saved the day.

Another ill-fated phone call announced that Ed and Cathy Taylor, along with their friend Linda Darwent of Saskatoon, Saskatchewan, were sightseeing on Shirley Highway. Their car, along with many boxes of fish for our auction, had broken down. A Search and Rescue Party composed of Jim Long and Pat Mahoney picked up the refugees and got them to the show in time for judging.

All's well that ends well. Cheer up, Gerry, ulcers can be cured nowadays.

#

PHILODINA, THE PERFECT FIRST FOOD

Remember with astonishment the first time you beheld the tiny fry of a Tetra, honey gourami, barb or rasbora? How small they appeared when they began a free swimming existence in your breeding tanks. Often a great majority of the fry would succumb in the first few days to starvation before they would be able to accept newly hatched brine shrimp or microworms. Textbooks all agree the most natural way for the smallest fry to begin life is with infusoria, but who feels like boiling lettuce, rice or wheat grains, adding snails and waiting for the culture to get "moldy" and teem with microscopic organisms. More often than not one cultures an aromatic bacterial bloom that can't wait to be discarded and may be too polluted to feed to newborn fry. Well fear not, because there is an ideal first food that is small enough for the tiniest fry, easily cultured, self-propagating and inexpensive.

The perfect first food for almost any newborn fish, whether it be from a spawn of a large South American cichlid or a tiny Tetra, is the rotifer Philodina. It is large enough to be seen with the naked eye yet small enough to fit into the smallest mouth. Being alive, its constant spiral-like motion attracts fry and yet moves slow enough to be easily caught. Inhabiting fresh water naturally, it will live for a long time in an aquarium without dying and fouling the water like brine shrimp often does. Sounds terrific doesn't it, but there must be some drawback, right? The only negative is that a culture must be maintained to keep them in constant supply and readily available. But that is so easily done that anyone who wants to should be capable of keeping them alive. Before culturing is discussed, a brief description of the animal is in order.

Philodina is one of many rotifers (Phylum Rotatoria) that are commonly found in fresh or salt waters. The name rotifer is applied to these animals because in some species the head region with its numerous cilia beating in rotation appears like a rotating wheel (see diagram). It is these coronal cilia that serve as a means of locomotion and create local currents that guide food to the mouth. Movement also occurs by twisting, spiral actions of the body and use of the spurs on the foot end for creeping and browsing.

The body of these Bdelloid rotifers (Phylum Rotatoria, Class Digononta, Order Bdelloidea for taxonomic identification) is usually elongated and cylindrical with three main body regions: head, trunk, and foot. The head has the mouth and beating cilia. The trunk is highly contractile and contains the digestive and reproductive systems. The foot with spurs allows the animal to creep about on substrates. A structure peculiar to the rotifers is the mastax, which is an arrangement of muscles that activate a set of "jaws" to tear and grind the food. Males are unknown in the species, with reproduction by parthogenesis.

Philodina have a lifespan of approximately 8 days. The females, without the presence of males, produce several batches of thin-shelled eggs that hatch into more females within a few hours. These develop into adults in 1-2 days. Eggs can survive drying and freezing and upon rewetting hatch into rotifers capable of starting the cycle over once again. They are omnivorous feeders, eating minute algae, detritus and smaller protozoans.

Culturing these rotifers is extremely easy. If you can hatch brine shrimp or keep microworms alive you can keep a healthy population of Philodina thriving. Even if you don't want to be bothered with either of the above alternative foods, Philodina can be almost ignored for a length of time and you can still have them available in quantity within a few days. The easiest way to produce them is in gallon jars, kept illuminated but not too brightly, and maintained at 65-75°F. Slightly alkaline water (7-7.4) is best but little attention is paid to pH in my cultures. To the gallon of water is added 5-6 dry split peas and everything is allowed to sit for a few days.

Even though Philodina reproduce parthogenetically, they still don't know about spontaneous generation. In other words, you must get a starter culture of rotifers from someone else to inoculate the medium. Once established, a pinch of Gerber's Mixed Baby Food added daily or every other day will insure a proper bacterial bloom and plentiful food for the multiplying rotifers. It takes a little practice feeding the cultures; overfeeding the baby food will pollute the water and kill the rotifers. The correct amount of food will keep a swarm of tiny twisting creatures suspended in the water from top to bottom. I don't use aeration in my containers; it isn't necessary and disrupts the nice cloud of Philodina that forms and is indicative of the health of the whole culture.

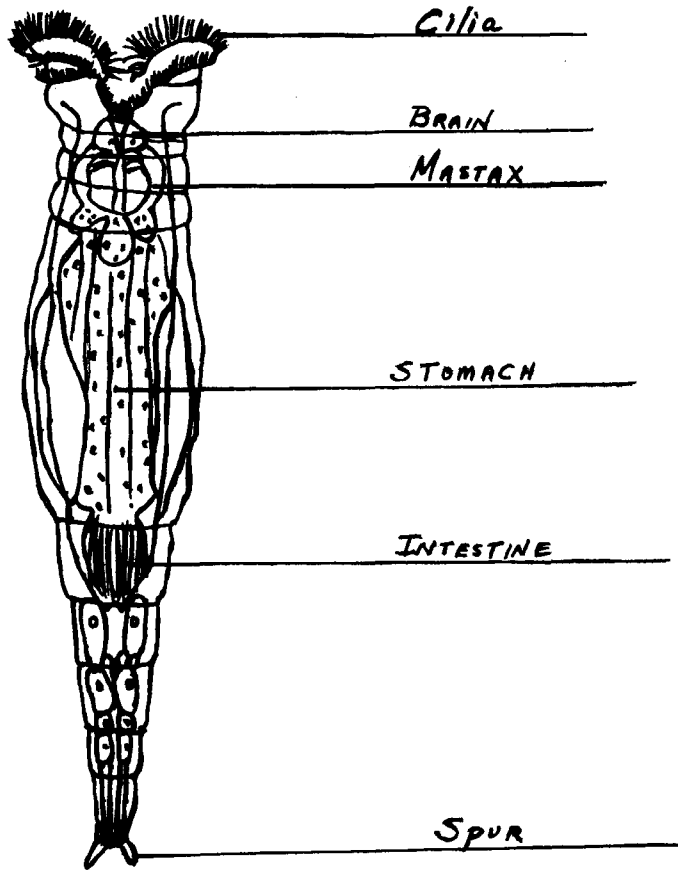
Water changes are essential to any self-contained aquatic system and are accomplished as water is taken out for feeding. Simply add new water (aged, dechlorinated tap water is fine) to keep the level constant. Since Philodina are so small, they are not able to be filtered from the water, nor should they be. A large baster inserted into the thickest part of the infusorial cloud will suck up the rotifers and water simultaneously. This can be added directly into the tank containing your newly hatched fry. And why not? These rotifers will live in the freshwater of the fry rearing tank until they are consumed or their own food supply is exhausted. A word of caution--if your Philodina culture is fairly polluted you are adding polluted water to the fry tank too. A good nose is required to help sense how well you are feeding baby food to the gallon jars. If your culture water is clearish and healthy smelling, enough rotifers can be added to the fry tank so that the fry appear totally surrounded by them and no harm will come to them.

Be careful not to contaminate the gallon jars with larger creatures such as cyclops or daphnia. These copepods love to eat Philodina and soon there will be a terrific bloom of cyclops or daphnia and no more rotifers. It is always nice to have several jugs going at the same time. In the event of a catastrophe in one, another will still provide plenty of feedable rotifers. Covering the jars is not essential unless you want to be certain of pure cultures. As long as larger animals are not introduced with water additions, any other smaller aquatic life living simultaneously with the Philodina is relatively unimportant.

Maintaining a good supply of Philodina can open up new possibilities in raising fry that beforehand might have been considered as difficult. Your success in breeding and fry rearing will certainly improve, and the rewards that these accomplishments bring will certainly win you over to the use of this perfect first food. No one needs to say "I can't keep the fry alive" any more. Rather, all that should be overheard is "it's so easy to feed these fry if you have Philodina."

ed. note- this really is great stuff. I've been using it for several years and haven't used baby brine at all during this time. Use a glass baster if possible so you can see what you have in it. Split peas also are a good food in addition to the baby food.

J.M.



PHILODINA

PAT MAHONEY

REPRINTS

COLISA CHUNA, Bob Roser, TANK TALES, Aquarium Club of Lancaster County, PA, May 1984.

COMMUNITY KILLIES, Susan Oglebay, KITSAP AQUARIAN, Kitsap Aquarium Society, Silverdale, WA, May 1984. Reprinted from the CAROLINA AQUARIST, Raleigh, NC.

REVIEWS

NEW GUINEA PEACOCK GUDGEON, Gerry Hoffman, WET PET GAZETTE, Norwalk Aquarium Society, Norwalk, CT, April 1984.

ANCISTRUS LINEOLATUS, Pat Mahoney, SWAM, South-Western Michigan Aquarium Society, Kalamazoo, MI, May-June 1984.

CRENICARA FILAMENTOSA, Darrell Holman, SWAM, South-western Michigan Aquarium Society, Kalamazoo, MI, May-June 1984.

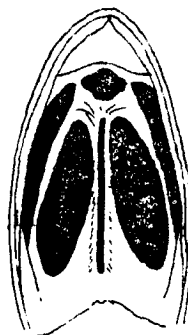
GEOPHAGUS BRASILIENSIS, Frank Angilletta, WET PET GAZETTE, Norwalk Aquarium Society, Norwalk, CT, April 1984.

A TIGER IN MY TANK, Pat Mahoney, SWAM, South-Western Michigan Aquarium Society, Kalamazoo, MI, May-June 1984.

MECHANISMS OF SPECIALIZATION (part 1)
by Tony Benages, IAS

Toxotes jaculator, the Archer fish, has been known to western aquarists since publication of the Philosophical Transactions of the Royal Society of London in 1765. Along with Toxotes jaculator, there are five other recognized species in the genus Toxotes: T. blythi, T. chatareus, T. lorentzi, T. microlepis, and T. oligolepis. There is a fossil form which has been given the scientific name of T. beauforti.

Only in very recent history has the mechanism by which the Archer fish shoots its water droplets been figured out. Hugh M. Smith, the Fisheries Advisor to the Kingdom of Siam, in 1936 accurately described and illustrated the mechanism used by Toxotes for shooting. There is a peculiar adaptation and apparatus in Toxotes to account for its extraordinary shooting capabilities. By carefully watching the fish at close range, he hypothesized on the probable propelling mechanism and later confirmed that opinion by holding the fish underwater in the position regularly assumed when shooting and by quick, forceful compression of the gill covers with his fingers.



This compression of the gill covers would in itself not be adequate to account for the escape from the mouth of water in the form of individual drops of uniform size; and it is to the peculiar shape and structure of the mouth parts that we find the additional factors necessary for the complete performance.

The mouth cavity of T. jaculator is long, but its diameter is much restricted by the projecting sides of the roof and by the large tongue which when raised may completely close the passage from the outer air to the pharynx. The anterior part of the tongue is free from the floor of the mouth and its rounded tip is of paper-like thinness and fits snugly against the palate; posteriorly the tongue is thick, bears minute teeth, and has a conspicuous fleshy prominence. Extending along the median line of the roof of the mouth, from a point just behind a band of vomerine teeth to the pharynx, are two low ridges, close together and parallel for most of their length, but slightly diverging at their posterior ends.

Between the ridges is a deep groove which, when the tongue is applied to the roof of the mouth, becomes converted into a tube. This groove-tube (no pun intended), which in a fish seven inches long, is less than one sixteenth of an inch in

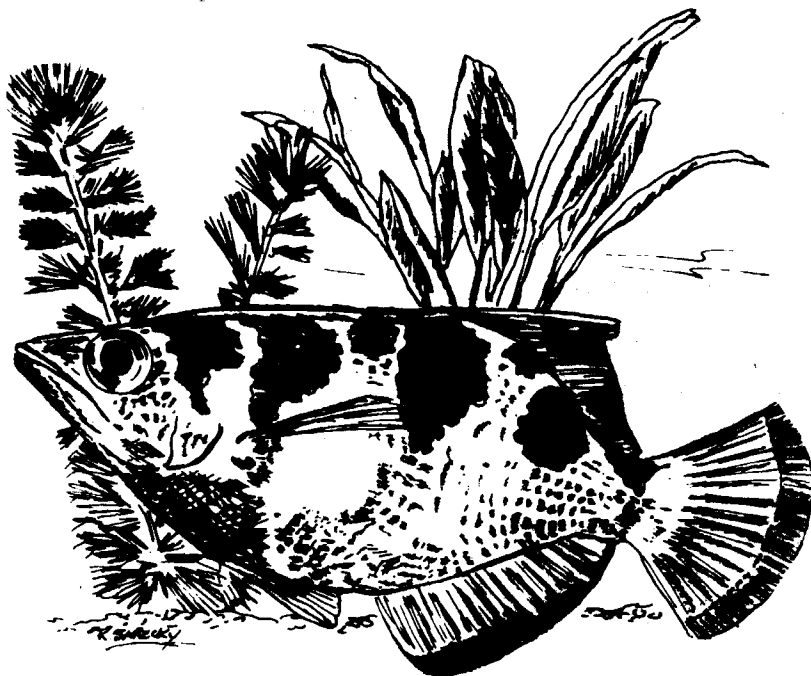
Archer fish cont.

in diameter, had not been previously described or referred to in ichthyological writings, but is readily seen when the tongue is depressed.

With the tongue closely pressed against the palate, the sudden compression of the gill covers will force water from the pharynx into the palatine canal; and with the tip of the tongue acting as a valve, the flow of water under pressure from the anterior end of the tube is regulated. The fish coordinates the compression of the gill covers with the momentary lifting of the tongue from the anterior end of the tube, permitting the escape of a single drop of water. With the jaws partly separated and the mouth reaching or projecting slightly out of the water, the drop of water is ejected with a force and for a distance that depends on the pressure. It is easy to understand how, with the pharyngeal cavity serving as both a reservoir for water ammunition and a compression chamber, it is possible for the fish to shoot drops of water in quick succession, as has been frequently observed, or the water may be expelled in the form of a jet when the valve is kept open longer.

Incidentally, since the mechanism has evolved to the state of perfection which it has, and the fish shoots instinctively, it can not "forget" how to shoot if not provided with a target. It is strictly instinct and is not "learned" by the fry. The preparation of an aquarium set up for target practice is more for the edification of the owner rather than for the fish, which, by the way, is not a bad idea.

Reprinted from Tropical Topics, Indianapolis Aquarium Society.



Trading Post

Items for the trading post should be sent to Delta Tale c/o John Mangan, 9770 Oleander Ave, Vienna VA 22180 by the 15th of the month prior to publication or handed to me at the monthly meeting.

For Sale: 125 gal. and 110 gal. tanks on heavy metal stand; two 50 gal. tanks (one with slate bottom); two 20 H tanks with slate bottoms; two 29 gal. tanks; include filters, heaters, gravel, etc. Also- 4 turquoise Discus and several breeding pairs of Angels. Call Norma Newsome (703) 451-0215.

Want: round dirt magnet filters, new or used at a fair price; 2½ gal. tanks at a good price. Mike Rininger 860-1734.

Want: articles and artwork related to fish, fishkeeping etc. send to Delta Tale, 9770 Oleander Ave. Vienna, VA 22180

Q and A

Any questions on fish, plants, live foods, or anything else having to do with aquariums can be sent to Delta Tale c/o John Mangan, 9770 Oleander Ave. Vienna, VA 22180.

Q. Why is this the only question this month?
A. Nobody sent any in.

Notice- The article "Showing Large Catfish" by Chuck Davis, which appeared in the May 1984 Delta Tale was reprinted from Catalyst, the bulletin of the American Catfish and Loach Association. This information was accidentally left out of the may issue. Apologies to ACALA.

What's Happening in June

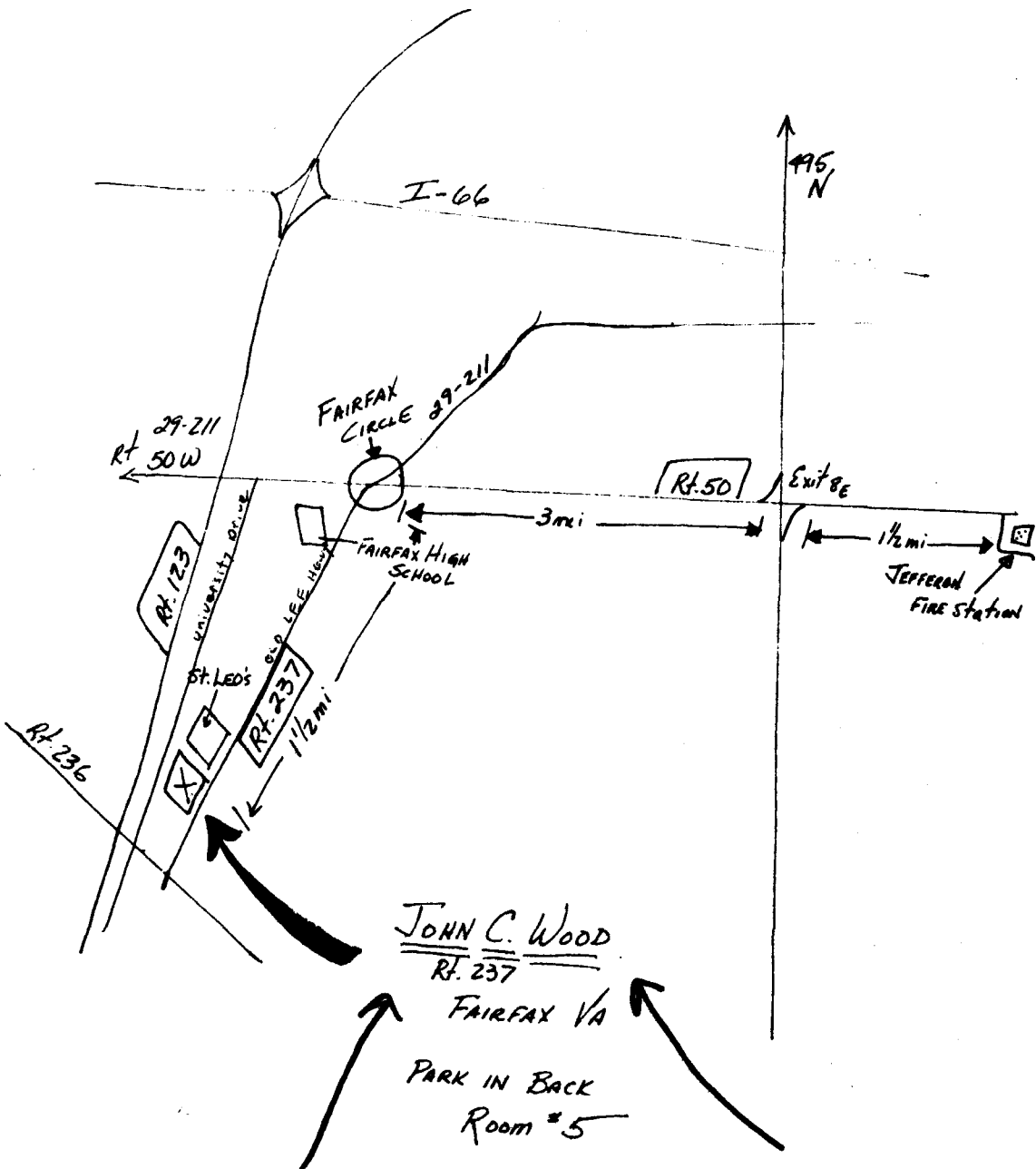
The Program: Marine Fishes

The Bowl Show: 8 oz. of Tetramin to the fish of the night plus a special category - see bowl show report and editorial for details.

Mini- auction: members may bring up to 3 items to be auctioned off. same basic rules as for the big auctions.

The Raffle: lots of good stuff to be raffled off plus the door prize.

Open Fish Room: Due to the show there was not enough time to set up an open fish room for this month. Hopefully it will be back next month.



New Meeting Place

Bowl Show Report

May Results

Cichlids
New World Mouthbrooders
 1st Alex Cummins
Pseudotropheus
 no entries
Open
 no entries

Judges

Pat Mahoney, Kenny Warren

Egglayers/Livebearers
Goldfish & Koi
 1st Pete Thrift
 2nd Pete Thrift
 3rd Nathan Manwaring
Characins
 1st Jim Long
 2nd Gerry Hoffman
 3rd Gerry Hoffman
Open
 1st Gerry Hoffman
 2nd Gerry Hoffman
 3rd Nathan Manwaring

Standings

<u>Cichlids</u>	month	quarter	year
Frank Angilletta	0	0	39
Mark Steele	0	0	16
Ray Krause	0	6	7
Jim Long	0	6	6
Nathan Manwaring	0	0	6
Robert Roser & Son	0	0	5
Alex Cummins	6	6	6

<u>Egglayer/Livebearer</u>	month	quarter	year
Nathan Manwaring	7	25	74
Frank Angilletta	0	0	41
Gerry Hoffman	17	17	47
Mike Rininger	0	0	8
Pete Thrift	10	10	18
Jim Long	6	6	13
Robert Pallansch	0	6	6
John Mangan	0	0	5
Robert Roser & Son	0	0	3
Alex Cummins	1	1	3
Jason Kookan	0	0	1

June Bowl Show Categories

<u>Cichlids</u>	<u>Egglayer/Livebearer</u>
<u>New World Large</u>	<u>Anabantoids</u>
Riftlake Mbuna, excl. Pseudotropheus	Corydoras catfish
Open	Open

Special Category

Oddities & Deformities
 to be judged seperatly from the above
 see editorial for details

POTOMAC VALLEY AQUARIUM SOCIETY



POST OFFICE BOX 6219 SHIRLINGTON STATION ARLINGTON, VIRGINIA 22206

APPLICATION FOR MEMBERSHIP

DATE _____ 19__

NAME _____

STREET _____

CITY _____ STATE _____ ZIP _____

TELEPHONE CONTACTS H _____ B _____

Number of tanks _____ Time in hobby _____

Fish you have spawned _____

What can this club do for you _____

What do you want to do for the club _____

Which sub-groups of fish interest you _____

How long do you plan to be in this area? _____

Occupation _____

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.

Potomac valley Aquarium Society
P.O. Box 6219 Shirlington Station
Arlington, Virginia 22206

Potomac Valley Aquarium Society Meets on the Following Dates in 1984:

June 11	July 9	October 8
	August 13	November 12
	September 10	December 10

All meetings open to the public and potential new members.

**** New meeting place- details inside ****