

* DELTA TALE *

JUNE 1982

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potomac valley aquarium society



MAY FISH SHOW WINNERS!!!

A NOTE FROM THE PRESIDENT

Well, the Spring Show is over. I feel it was a great success, and all the more so because of the inordinately difficult circumstances under which it had to be planned and put on. I am sure you all know that we almost did not have a place to hold the show this year and it was only through the good offices of Woody Griffin that we were able to get the use of the Coke plant this one last time.

Wayne Hilburn called me to ask for a list of those who helped so that he could publish them in the DELTA TALE. I said that I did not have a list and had always been afraid of them anyway, as you always leave someone who really worked off. I must thank Darrell Holman directly and personally for all he did -- it was his show, and he can be proud of it. As for the rest who worked so hard for so long, I offer each of you my gratitude. You know who you are and I hope you know I mean it when I say THANK YOU.

As for those of you who couldn't help this time there will be opportunities in the future when you can prove your interest in the club. For those of you that wouldn't help, I feel sorry for you, you missed out on the opportunity to participate in something you really did not have to do but did anyway. Maybe someday you will learn that that's what it's all about.

I had the great pleasure of having been asked to judge the White Rose Aquarium Society's Annual Show last weekend. Three of the four judges were PVAS members! I guess we have a right to be proud of our club! It was a tough job, however, as they had some really fine entries. All of the judges agreed that the livebearer class had some of the best fish we had ever seen.

Don't forget the June meeting. See you there.


John E. Jessup PhD
President

The May 3rd meeting of the PVAS Board of Governors was held at John Jessup's house. Present were John, Darrell Holman, Woody and Nancy Griffin, Ruth Brewer, Kenny Warren, Wayne Hilburn, Jerry Stirman, and Chryss Guiler.

John Jessup opened the meeting at 8:00 p.m.

Ruth Brewer presented the first order of business, which was a request by the First Virginia Bank for a Social Security number to be identified on the club's bank account. The question of the club's tax status was also raised. The Board elected to look into the details of both the Social Security number and the tax question over the next month. The Board will make a final decision at the June Board meeting.

Ruth then presented the Treasurer's Report which was accepted by the Board.

There followed a discussion of the report that some members of the Society are not receiving the Delta Tale. Our Delta Tale Editor, Wayne Hilburn, is mailing them in time, so the problem seems to be with the Postal Service. This is being looked into.

The club's summer picnic was then discussed; possible sites suggested were Kenny Warren's and the Bon Air Park.

Darrell Holman presented the Show Committee report:

- . eight judges will be coming to the Show
- . the club is at present receiving no donations from shops we have solicited for door prizes
- . Darrell will pick up the Show materials from Beltway Movers
- . Kenny Warren will order soft drinks from the Coke plant

Woody Griffin presented a motion for expenditure of \$150 for door prizes; Ruth Brewer seconded the motion. After discussion the Board voted to accept the motion.

Special thanks were accorded to Pat and Maggi Mahoney for volunteering to house several Show judges.

The meeting was adjourned at 10:00 p.m.



Chryss Guiler

POTOMAC VALLEY AQUARIUM SOCIETY

Treasurer's Report - 4/30/82

3/31/82	BANK BALANCE		\$2,568.10
	Plus Revenues:		
	Memberships	\$ 24.00	
	April Raffle	<u>29.00</u>	
			+ 53.00
	Less Expenses:		
	Dues - FAAS	15.00	
	Postage April Delta Tale	66.00	
	Show Expenses:		
	Deposit on pump	240.00	
	Postage	4.20	
	Phones	18.76	
	Raffle tickets	85.28	
	Supplies	<u>58.47</u>	406.71
	Trophies - Bowl Show		32.45
	Printing April Delta Tale		33.00
	Program - April meeting	<u>60.00</u>	
			- <u>613.16</u>
4/30/82	BANK BALANCE		\$2,007.94

And the winners are;

I. Livebearers

a. Delta Tail Guppies, Male

1st: D. Holman

2nd: D. Holman

3rd: W. Griffin

b. Delta Tail Guppies, Female

1st: W. Griffin

2nd: N/E

3rd: N/E

c. Guppies, all other

1st: J. Mangan

2nd: N/E

3rd: N/E

d. Mollies

1st: K. Carr

2nd: R. Slodysko

3rd: C. Davis

e. Swardtails & Platies

1st: J. Altland

2nd: J. Altland

3rd: M. Mangan

f. Goodies

1st: E. Taylor

2nd: J. Mangan

3rd: W. Griffin

g. Other Livebearing Fishes



1st: J. Mangan

2nd: J. Jessup

3rd: J. Mangan

Best In Class

II. Egglayers (Non-Cichlid)

a. Corydoras

1st: G. Eckstein

2nd: S. Catlett

3rd: D. Holman

b. Catfish-African

1st: W. Griffin

2nd: E. Taylor

3rd: J. Altland

c. Catfish-all other

1st: Kelly

2nd: E. Taylor

3rd: G. Eckstein

d. Betta Splendens

1st: J. Hajdics

2nd: J. Hajdics

3rd: M. Mangan

e. All Other Bettas and Anabantoids



1st: D. Holman Best In Class - Reserve In Show

2nd: J. Mangan

3rd: J. Altland

f. Sharks and Loaches

1st: L. Brensike

2nd: P. Mahoney

3rd: M. Mangan

g. Tetras

1st: E. Taylor

2nd: G. Hoffman

3rd: A. Stirman

h. Barbs

1st: M Mangan

2nd: A. Stirman

3rd: D. Holman

i. Goldfish and Koi

1st: W. Hilburn

2nd: W. Hilburn

3rd: N/E

j. Danios, Brachydanios and Rasboras

1st: E. Taylor

2nd: J. Jessup

3rd: E. Taylor

k. Killifish

1st: G. & K. Wagner

2nd: E. Taylor

3rd: E. Taylor

l. North American Native Fishes

1st: M. Mangan

2nd: W. Hilburn

3rd: E. Taylor

m. Other Non-Cichlid Egglayers

1st: W. Griffin

2nd: W. Griffin

3rd: M. Mangan

III. Cichlids

a. New World Large

1st: V. Edmundson

2nd: C. Davis

3rd: K. Carr

b. New World Medium

1st: G. Aldridge

2nd: L. Brensike

3rd: W. Griffin

c. New World Dwarf

1st: F. Mahoney

2nd: G. Eckstein

3rd: J. Jessup

d. Angelfish

1st: N. Newsome

2nd: N. Newsome

3rd: N. Newsome

e. Rift Lake Mbuna

1st: P. Mahoney

2nd: J. Hajdics

3rd: J. Hajdics

f. Rift Lake Non-Mbuna



1st: P. Mahoney Best In Class, Best In Show

2nd: Harkoff

3rd: Harkoff

g. Haplochromis

1st: D. Cohen

2nd: Harkoff

3rd: P. Mahoney

h. Non-Rift Lake African

1st: Mancusi

2nd: D. Holman

3rd: D. Holman

i. Cichlid Pairs

1st: V. Edmundson

2nd: D. Cohen

3rd: N/E

j. Other Cichlids

1st: P. Mahoney

2nd: N/E

3rd: N/E

IV. Marine

a. Fishes

1st: V. Edmundson

2nd: J. Hajdics

3rd: D. Cohen

b. Invertebrates



1st: D. Cohen Best In Class

2nd: J. Altland

3rd: H. Altland

V. Family of Fish

1st: L. Brensike

2nd: Kelly

3rd: G. & K. Wagner

- VI. Plants
 - 1st: G. Hoffman
 - 2nd: G. Hoffman
 - 3rd: R. Slodysko
- VII. Set Tanks
 - 1st: H. Altland
 - 2nd: G. Hoffman
 - 3rd: J. Long
- VIII. Dealer Tanks
 - 1st: Oakton Pet Center
- IX. Photography
 - a. Color Slides
 - 1st: R. Brewer
 - 2nd: R. Brewer
 - 3rd: R. Brewer
 - b. Color Prints
 - 1st: R. Brewer
 - 2nd: A. Lembke
 - 3rd: R. Brewer
 - c. Black & White Prints
 - N/E
- X. Art
 - a. Frameable Art
 - 1st: C. Schnepf
 - 2nd: C. Davis
 - 3rd: S. Tietjen
 - b. Crafts
 - 1st: S. Aldridge
 - 2nd: S. Tietjen
 - 3rd: S. Aldridge

Apprechiatus ad-pretium

THE JUDGES

Chuck Davis, N.J., Ed & Cathy Taylor, Virginia Beach, Va.,
Dave Shaw, Annandale, Va., Dave Herlong, Cary, N.C.,
Lonnie Langione, York, Pa., Gene Aldridge, Harrisburg, Pa.,
Ron Thompson, Vienna, Va., and Stu Wheeler, Columbus, Oh.

JUNIOR HELPERS

John Wagner, Heather Altland, Amy Stirman, Leslie Stirman,
Rob Slodysko and Jimmy Hajdics.

SHOW CHAIRMAN

Darrell Holman

Registration: Ruth Brewer, Nancy Griffin, Jeanette Holman,
Maggi Mahoney, Gerry and Karen Wagner

AUCTION COMMITTEE

Woody Griffin, Chairman

Chuck Davis, Chris Guiler, Pete Tietjen, Pat Mahoney, Gerry
Hoffman, Jim Hajdics-Concessions, Kenny Warren-Raffles,
Craig Tingen, Kurt Schnepf-Security, Jerry & Joanne Stirman-
Memberships.

TO THE COCA-COLA BOTTLING PLANT for use of the community
room for the show & auction.

PAT Mahoney for housing judges Stu Wheeler and David Herlong.
Gerry HOFFMAN, Captain, Clean-up detail.

OUT-OF-STATE Visitors, exhibitors and auction buffs.

RAFFLE DONATIONS

Chuck Davis-Mollies, Kurt Schnepf-Tetra DoroMin, Ed Taylor-
pair Heterandria formosa.

OTHER GOOD NEWS

PVAS purchased \$159 worth of raffle prizes

Club needs Librarian to organize & house magazine collection.

Woody Griffin, John Jessup and Gene Aldridge were judges at
the White Rose Aquarium Society show in York, PA., May 22nd.

June Board Meeting will be held at Kenny Warren's June 3rd.

JOHN JESSUP won the 55 gal. tank set up RAFFLE.

BACK ISSUES of Delta Tale available, '75, '76, '77, '78

MANUFACTURERS DONATIONS

Penn-plax Plastics
Jungle Laboratories
Aquarium Systems
Blue Ribbon Pet Products
Aquarium Products
Sanders Brine Shrimp Company
Eugene J. Danner Manufacturing Inc.
Aquarium Pharmaceuticals Incorporated
Perfecto Manufacturing Company
Lustar Plastics
San Francisco Bay Brand
Rolf C. Hagen Corporation
Mardel Laboratories
Rila Products
Tetra Sales
Wardley's
Hartz Mountain Corporation
Metalframe
Silco Pet Products

F.A.A.S. BOARD OF DIRECTORS ELECTION

The General membership voted May 17th for new board members of the Federation of American Aquarium Societies; Maggi Mahoney, Pat Austin, John Benn and Dave Knelson.



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**SPECIALIZING IN AFRICAN &
SOUTH AMERICAN CICHLIDS,
AQUATIC PLANTS AND
JAPANESE GOLDFISH**

THE PEARL CICHLID

By Pat Mahoney

They say all good things come to him who waits. And in some cases, this is true. Never known for an overabundance of patience, I decided to try my hand in breeding Geophagus brasiliensis. I knew they were beautiful fish but my urge to breed them came after seeing an adult pair at the 1980 ACA Convention in Cleveland. Later, when Woody Griffin and Vince Edmondson had both had successful spawns, I acquired a pair of young adults and temporarily housed them in a fifty-five gallon South American community tank.

Sharing the tank with six Geophagus jurupari, a pair of Cichlasoma festivum and an adult trio of Aequidens maroni, the brasiliensis wasted little in starting a family. In fact, they took me by surprise. The male was barely four inches and the female was no more than three when I noticed that they were at one end of the tank and all the other fish were at the other end. Sure enough, about eighty to one hundred eggs were in the bottom of a small depression with mama near at hand. The male was mid-tank about a foot away, stationed like a sentry between his tank mates and the eggs.

The pH of the water registered 7.8 and the temperature read 77 degrees. My elation was short-lived however, for on returning from work the next evening I discovered all fish swimming over the length of the tank and not one egg to be seen. Further, they weren't very hungry that evening.

So I patiently set up this beautiful pair of Pearls in a

twenty gallon long to try again. They spawned again each of the next two months and in both cases the fry were free swimming before being eaten. When the first spawn in the twenty was discovered, I removed the large male since he was my prime suspect in the loss of the previous spawn. True to Irish luck, the female ate them. With the second spawn I removed the female - and the male ate them. At this point I nearly gave up on G. brasiliensis.

I knocked down the tank for a long overdue cleaning. The Pearls went back into the community tank. With clean gravel, new water and a clean Dynaflo 150 filter, I let the water age for a week before the Pearls were returned for one more attempt.

About ten days later I discovered a clutch of eggs in a depression under a piece of slate that was leaning against the side of the tank. This time, BOTH parents were removed. Five days later I found wrigglers and a few of them were swimming an inch or so above the gravel. I would guess there were about a hundred of them, plus or minus twenty.

Armed with my old standby, Kordon Fry Diet supplemented with baby brine shrimp and finely ground Aquarian flake food, the fry began to grow. Although needing that twenty gallon tank, I was too darn lazy to transfer the fry. Besides, I might lose them.

They were all over an inch in length at sixty days. To insure they would make it to sixty days, I had removed the filter siphon (they were then about a week old) and wrapped fine netting around the base before restarting the filter. I also increased aeration with the addition of a

NATIONAL AQUARIUM OPEN HOUSE

President Reagan has announced that June will be declared National Zoo and Aquarium Month. We feel that this is a wonderful opportunity for Washington area residents to discover their Aquarium.

Special tours and events will be carried out by staff members and volunteers. Don't miss this great opportunity to enjoy the aquarium and learn about the wonders of aquatic life as well.

Won't you join us.

Calendar of Events

- June 5-6 Saturday and Sunday
- 1) Special behind the scenes tours
10:00 am and 2:00 pm
 - 2) Feeding Show
1:00 pm
 - 3) work-Shop "Setting Up The Home Aquarium"
3:00 pm
 - 4) Special Exhibits -- all day
- June 12-13 Saturday and Sunday
- 1) Special behind the scenes tours
10:00 am and 2:00 pm
 - 2) Feeding Show
1:00 pm
 - 3) work-Shop "Setting Up The Home Aquarium"
3:00 pm
 - 4) Special Exhibits -- all day
- June 19-20 Saturday and Sunday
- 1) Special Behind the scenes tours
10:00 and 2:00 pm
 - 2) Feeding Show 1:00 pm
 - 3) Work-Shop "Backyard Fish Ponds"
 - 4) Special Exhibits -- all day
- June 26-27 Saturday and Sunday
- 1) Special behind the scenes tours
10:00 and 2:00 pm

June 26-27 Con't

- 2) Feeding Show 1:00 pm
- 3) Work-Shop "Fish Printing (Gyotaku)"
3:00 pm
- 4) Special Exhibits -- all day

Briefs

- 1) Behind the scenes tours

A rare opportunity to see how a public aquarium operates from behind the scenes. Tours will be conducted by staff members twice daily. Approx. time $\frac{1}{2}$ hour.

- 2) Feeding Shows

Perhaps one of the most fascinating times to visit the Aquarium. Watch the numerous methods of feeding among the different species of fish.

- 3) Work-Shops

Provide the visitor with actual demonstrations on popular topics related to fish care, biological sciences and other related activities.

- 4) Special Exhibits

Special topics concerning aquatic biology will be covered by these exhibits.

- 5) Fish Photography Contest

Have your photos displayed at the National Aquarium! Learn about this most rewarding and challenging form of photography. Call 377-2826 for details.

THE FAMILY PIMELODIDAE
by William R. Kenney

The family Pimelodidae is a moderately large (ca. 300 species) family of South American catfishes of some importance to the aquarium trade. In most cases, species of this family have not been bred in captivity. This proves to be both an advantage and a disadvantage. Because we depend upon imported specimens, we frequently see species which are new to us, and this, I feel, is to our benefit. The disconcerting aspect of the situation in most cases is that the popular literature has not kept up with the newer importations, resulting in a serious information gap. The problem is unlikely to be corrected in the near future; there is little incentive to correctly identify a species which we are unlikely to breed and consequently will not be distributing. The tendency is to attach "reference book names" wherever they are plausible to species for which they were never intended. The purpose of this article is, therefore, not to demonstrate my knowledge of this family, but, rather our collective ignorance concerning the correct identification of even the most familiar species.

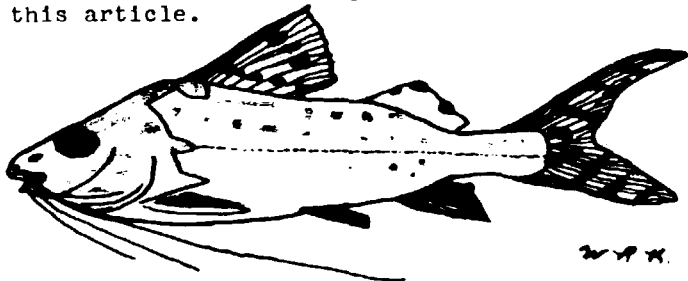
Familiar examples of this family include the "four-line" cats; the sundry shovelnose cats; several, but not all, of the "bumblebee" cats; the "gracilis-type" cats; and an assortment of larger, spectacular display fishes. These represent only a fraction of the family, and the aquaristic potential of this group has not even been tapped.

Nowhere is our ignorance of Pimelodid catfishes more apparent than with its most familiar member, the so-called "four-lined Pimelodella". The fish is patently not a Pimelodella, but rather, in all its characters and general appearance as well, a Pimelodus. Nevertheless, many aquarists and dealers assume it to be conspecific with either of the Asian Bagrids, Mystus vittatus or Mystus tengara. Whereas these species do occasionally enter the pet trade, the observant customer will note that the fish under discussion lacks the nasal barbels of the Asian Bagrids, and is far more frequently imported. It appears, then, that the reference books of aquarists have taken the easy way out of the problem, by addressing the issue of the identification of a fish which, though readily identified, is by no means common in the aquarium trade.

So, what is its correct name? I don't know. It appears we are importing a number of color forms of a species-complex loosely referred to as the Pimelodus maculatus complex, several forms of which have been described as species or subspecies. Undoubtedly undescribed forms exist as well. I have encountered no description which precisely fits the majority of specimens being imported. A few fit quite closely Pimelodus albofasciatus Mees 1974, whereas others correspond well to Pimelodus clarias coprophagus Schultz 1944. The remainder can at this time only be properly termed Pimelodus cf. maculatus or Pimelodus maculatus sensu lato. Clearly the group is in need of more study to determine the precise relationship between the various color forms.

Another problem fish is the so-called "angelicus Pimelodella". The pet trade had deliberately obscured the identity of this fish to make the customer think that he is getting a \$1500 catfish (Synodontis angelicus) for \$1.98. Not wishing to try our patience indefinitely, the reference books eventually gave us an identification on this one,

referring to it either as Pimelodella pictus or Pimelodus pictus. Once again, Pimelodus is clearly correct. The validity of the specific pictus is in doubt; I have found no reference to it in my search of the literature (see Tech. Ed. note). In any event at least two, and possibly three or more, species are imported under this name. One such bears a row of minute bony "scutelets" along the lateral line, a feature quite uncharacteristic of the family. An illustration of this species accompanies this article.



If none of the above are proper members of Pimelodella, the aquarist is nevertheless familiar with several representatives of this genus. These are the "gracilis-type" catfishes. They are typically long and slender, and commonly possess a single dark stripe down the side, which exhibits varying degrees of development. To consider all these to be P. gracilis would be an oversimplification. Dozens of members of this genus reside in the various parts of South America. The group is as confusing as it is speciose. Identification is difficult even when locality data is available. Characters upon which descriptions are based show considerable intraspecific variation. Once again, several (at least four), species are imported under the one name.

An assortment of catfishes are imported under the name "bumblebee cats". A few are Bagrid catfishes of the genus Leiocassis, once again distinguishable by the presence of the nasal barbules. Those lacking nasal barbules are Pimelodids. Two genera are involved here: Microglanis and Pseudopimelodus. Microglanis species have an incomplete lateral line, have no backward extensions on the tooth patches in the upper jaw, and never exceed 78mm. total length. Every year four or five inch specimens of Pseudopimelodus raninus are entered in fish shows as Microglanis parahybae, where they never fail to take top honors because they are "so large for their species". Show judges are well advised to note the distinctions between these two genera. Mees (1974) has probably indicated the source of this problem when he pointed out the misidentification of P. raninus as M. parahybae in Emmens and Axelrod (1968).

A pleasant relief to the confusion is found in the assorted shovelnose catfishes. By and large these are correctly identified in the popular literature. The same can be said about many of the larger genera of spectacular display cats: Perrunichthys, Sciades, and Phractocephalus. The genus Rhamdia is another story, however. These generally nondescript brown catfishes, South American counterparts of our bullheads, are numerous and poorly differentiated. As with Pimelodella, definite identification is unlikely without locality data.

(Tech. Ed. Note: Eigenmann and Eigenmann: A REVISION OF THE SOUTH AMERICAN NEMATOGNATHI OR CATFISHES, Cal. Acad. of Sci., 1890.

Pimelodus pictus Steindachner, 1876. P. 170 BW)

Reprinted from Catalyst, The Bulletin of the American Catfish and Loach Association, Vol. VI-No. 3, Lois S. Scanlan, Ed.

Observations of Cleaning Behavior
Among Freshwater Fish

Wayne Hilburn

Much has been written about cleaning Wrasses in reef fish communities. I suspect that this is a specialization of a more common fish behavior, however.

Among my freshwater aquarium fish, I have observed this cleaning behavior among related and unrelated species.

My group of eight Koi in a large tank are constantly "grooming" each other. This activity seems to be both a socializing behavior and a cleaning activity as they enjoy body contact and schooling. One or two subservient fish will do the cleaning ritual while the host fish will maintain a stationary pose.

The most interesting cleaning relationship existed between a large Red-Tailed Black Shark, Labeo bicolor as host, and a Chinese Algae Eater, Gyrinocheilus aymonieri as the cleaner. The Shark

would position itself alongside or in front of the Algae Eater and maintain "station" while the Algae Eater went over the head and body of the Shark. The sucker mouth and small rasping teeth of the Algae Eater seemed to be ideal tools for cleaning. The Shark, normally aggressive and dominant, would somehow communicate it's wishes to be cleaned by the passive stance near the Algae Eater.

Cleaning behavior was also observed by a small Red-Bellied Sunfish, Lepomis auritus, servicing a larger Green Sunfish, Lepomis cynellus.

Shortly after capture, I noticed a small, white knot of flesh on top of the Green Sunfish, at the base of the dorsal fin. Swabbing with Methiolate and Methylene Blue did not affect or remove the knob. My guess is that it was a net injury and not an infection. The Green Sunfish was kept in a tank containing two other small fish, a Red-Bellied Sunfish and a Bluegill. Usually these fish are predaceous and maintain great distance from each other, defending a territory in the tank. However, the larger Green Sunfish carefully moved into the next territory and took up a passive "station" near the small Red-Bellied Sunfish. Never facing the small fish directly, the Green Sunfish remained stationary and passive.

Apparently the small fish got the message, for it came over and removed the blemish from the dorsal base of the larger fish. This service done, the fish returned to their normal territorial behavior.

Some cleaning behavior may be observed in Corydoras and other pairs I have, but it is difficult to establish whether this is cleaning, grooming, socialization, courting or dominant/submissive behavior. The Corys "clean" everything in their path, so it's difficult to say this is a true cleaning behavior.

In all examples of cleaning behavior observed, it was among fish of the same species, genera or geographical area, so this could be learned behavior. In all cases, the fishes desiring the "cleaning" exhibited similar behavior, communicating their needs through "body language".

Reference: TFH, July, 1980, pp. 58-62, Hail the Cleanerfish!

TFH, April, 1981, p. 21, Sunfish Cleaners.

BAP -- BREEDERS AWARD PROGRAM REPORT

<u>NAME</u>	<u>POINTS</u> (through May 20,1982)
Gerry Hoffman	625****
Woody Griffin	525****
Garland Neese	680***
Pat&Maggi Mahoney	595***
Darrell Holman	480***
John Jessup	445***
Vince Edmondson	330***
Ruth Brewer	305***
Jim Hajdics	190**
Art Lembke	165**
Wagner Family	165**
Kenny Warren	90*
Gene Aldridge	80*
Thompson Family	80*
Amy Stirman	40
Ken Fisher	30
Leslie Stirman	10

Recent Points Awarded:

Darrell Holman	Brachyrhaphis rhabdophora	10
	Ilyodon xantusi	10
Gerry Hoffman	Cynolebias constanciae	25
	Apistogramma wickleri	15

In cooperation with FAAS(Federation of American Aquarium Societies) PWAS has instituted a plant breeder's program for those who are cultivating aquarium plants for anyone who wishes to get started. All information can be obtained from Gerry Hoffman if you haven't already done so.

BOWL SHOW

MAY 1982

I. Cichlids

A. New World Mouthbrooder

N/E

B. Pseudotropheus

1st: Zebra -- Amy Stirman

2nd: Cobalt Zebra -- Amy Stirman

C. Open

1st: Labidochromis ceuridas -- Amy Stirman

2nd: Melanochromis auratus -- Amy Stirman

3rs: Haplochromis kirkii -- Amy Stirman

II. Egglayer/Livebearers

A. Goldfish and Koi

1st: Doitsu Shiro-muji -- Wayne Hilburn

2nd: Tancho Kohaku -- Wayne Hilburn

3rd: Red cap Oranda -- Wayne Hilburn

B. Characins and Tetras

N/E

C. Open

N/E

STANDINGS	M	Q	YR
Cichlids			
Amy Stirman	17	31	53
Egglayer/Livebearers			
Darrell Holman	0	0	36
Wagner Family	0	0	14
Gerry Hoffman	0	10	10
Wayne Hilburn	9	9	9

JUNE SHOW CATEGORIES

New World Large

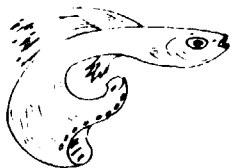
Anabantoids

Riftlake Mbuna/ex Ps

Catfish, Corydoras

Open

Open



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

Date _____ 19 _____

APPLICATION FOR MEMBERSHIP

NAME _____

STREET _____

CITY _____ STATE _____

PHONE _____ ZIP CODE _____

Number of tanks _____

Type of fish _____

Time in hobby _____

Fish you have spawned _____

What you would like
to do in this Club? _____

Which sub-group interests
you? (guppy, cichlid, other) _____

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

Occupation _____

Membership dues for the Potomac Valley Aquarium Society are:

Family	\$10.00	Corresponding	\$5.00
Individual	\$ 7.00	Junior	\$3.00
		(under 18)	

Completed applications accompanied by your check or money order should be mailed to P.V.A.S., P.O. Box 6219, Arlington, Virginia 22206.

Please attend our meetings at the Cocoa-Cola Bottling Plant, 5401 Seminary Road, Alexandria, Virginia at 8:00 P.M.

Potomac Valley Aquarium Society
P.O. Box 6219
Shirlington Station
Arlington, VA 22206

FIRST CLASS MAIL

1982 MEETING DATES:

JAN. 11	APRIL 12	JULY 12	OCT. 11
FEB. 8	MAY 17	AUG. 9	NOV. 15
MAR. 8	JUNE 14 ★	SEPT. 13	DEC. 13

The JUNE 14, 1982 meeting will be held at the Westover Baptist Church, intersection of North Washington Boulevard and Patrick Henry Drive, in Arlington, VA.

Meetings start at 8 p.m. Doors open 7:30 p.m. Bow1 Show registration, 7:45 p.m. to 8 p.m.