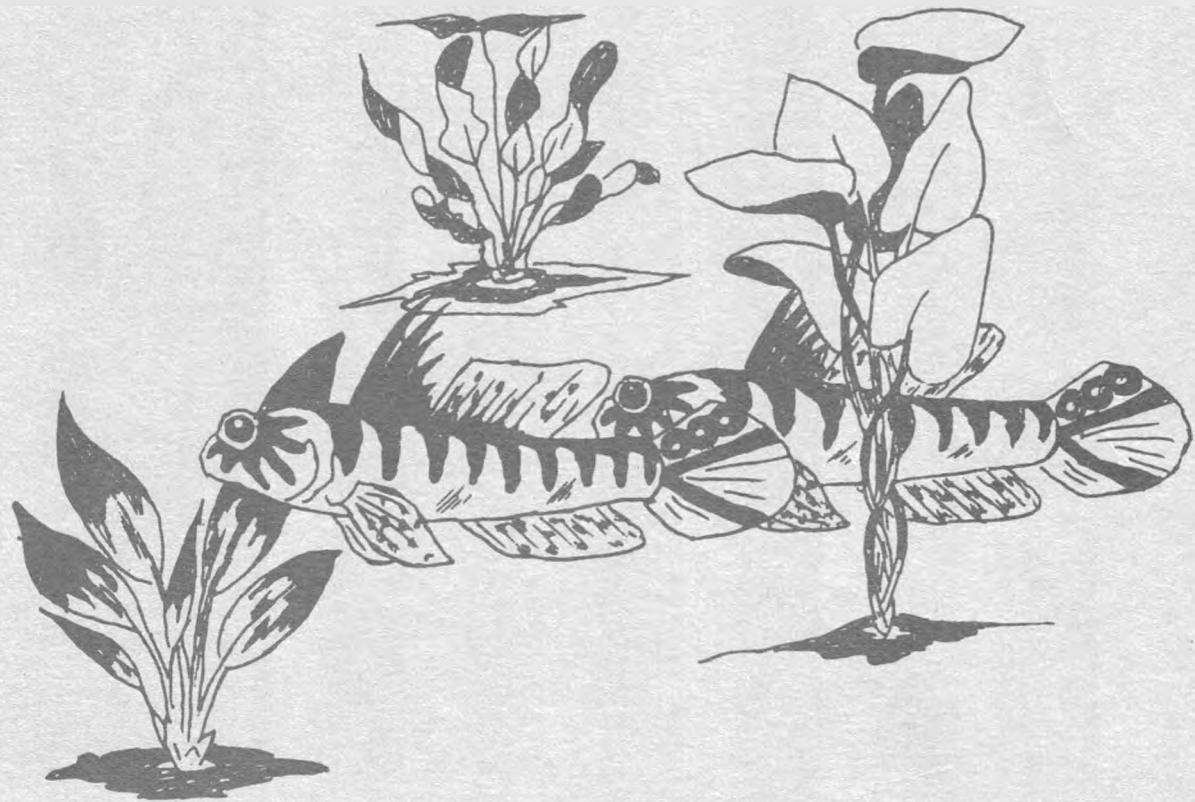


APRIL 1977

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THE

DARFER



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Simmons and Ralph Wilhelm

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EXCHANGE PUBLICATIONS: The Darter will exchange with other club's publications. Please send exchange publications to:

THE DARTER - M.A.S.I.
9407 Tilles Drive
Brentwood, Missouri 63144

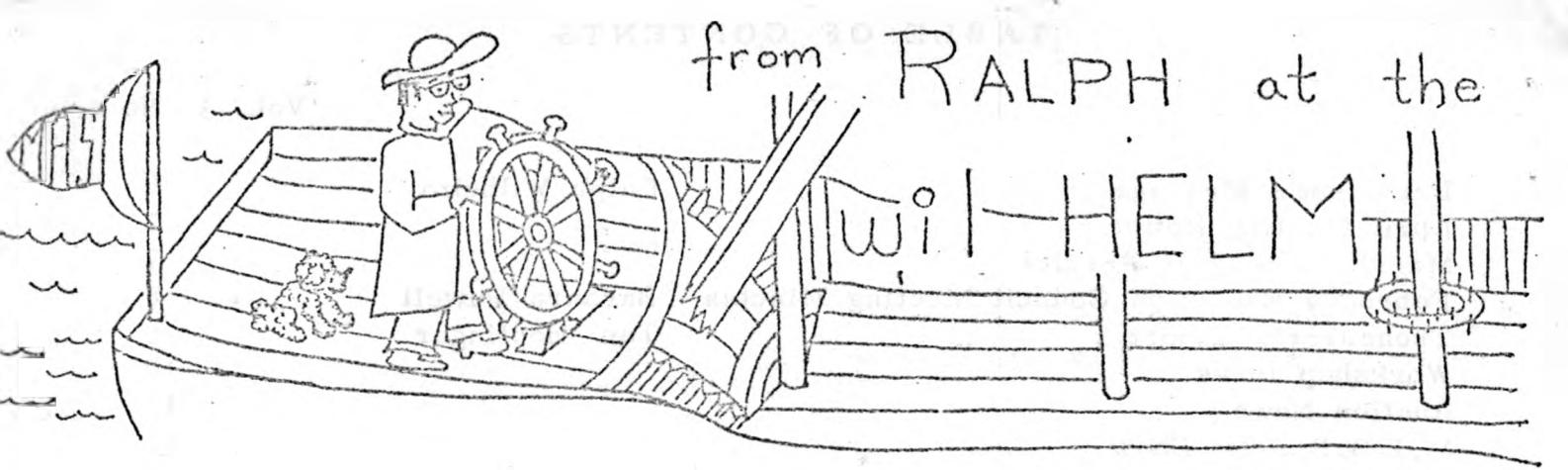
Failure to receive three consecutive issues of a club's publication will be considered as a termination of our exchange with that club, unless advised to the contrary.

Permission is granted to reprint any article appearing herein. Please send two copies of any publication in which a reprint appears, one of which is to be provided to the author of the reprinted article.

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Opinions expressed by the contributors are their own and do not necessarily reflect the opinions of the Missouri Aquarium Society, Inc.



In just two weeks M.A.S.I. will go before the public, as our 17th annual show and workshop takes place. A tremenderous amount of time and effort has gone into the advance planning and preparation. I believe we have an excellent list of speakers, headed by Dr. Axelrod, probably the most widely known name in the aquarium hobby today, and Dr. Gene Lucas, whose personality, sketching talents, and knowledge of bettas made him such a big hit two years ago. We will have a fine menu at the Dinner-Dance, and the listenable and danceable music of the Velvetones.

But from here on in, success or lack of it is up to you, the members. The Show Committee has done about all it can. Remember, not only your fish will be judged for their merits, but the whole society. The quantity and quality of the show entries along with the friendliness and hospitality shown to our guests, whether they be workshop registrants from a far city, or just a couple of youngsters who come to look at the fish, will have an effect on the society and the hobby in general. We can create interest in the hobby and perhaps add to our membership by the public relations job we do, or we can easily turn off a potential hobbyist by indifference. .

In only 3 short years, I feel we have established a reputation for assembling a fine workshop program and providing a great fun weekend. I expect to see many out-of-town visitors for the 3rd straight year, and they would not be back if we didn't have something great going for us. So, enter your fish in the show, and enter yourself in the activities. Make yourself known as a M.A.S.I. member; meet and greet our guests, young and old, novice or expert, from near and far.

I have maintained for a long time that tropical fish hobbyists are among the finest people in the world; friendly, considerate, unselfish with their time and knowledge, and dedicated to their hobby. I am equally certain that M.A.S.I. members are as good as the best. Prove me right by representing our society to the fullest of your ability.

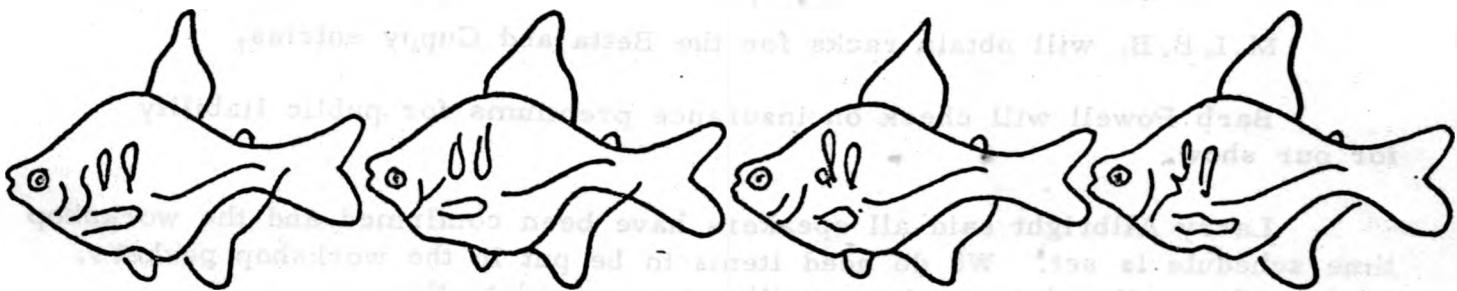
APRIL MEETING NOTICE

Time and Date: 8:15 P.M. Wednesday April 13th

Place Prudential Savings and Loan
Community Room 6th floor
8020 Forsythe, Clayton, Missouri
Park in garage - lower level

Bowl Show Bowl Beautiful, no restrictions
do your own thing

Saltwater - no adaptations, Mollies,
Swords, Guppies, etc.



MARCH BOWL SHOW RESULTS

Female Guppies	<u>Hobbyist</u> (3 entries)	<u>Novice</u> (No entries)
	1. Everett Gold 2. Jim Truesdale 3. Mike Heinemeier	
Swordtails	(2 entries)	(No entries)
	1. Ken Sommerhauser 2. Mike Heinemeier	
Open	(6 entries)	
	1. Mike Heinemeier 2. Dave Koran 3. Ken Sommerhauser	

Judges: Carl Berry
Klaus Bertich

April: Bowl Beautiful, no restrictions, do your own thing
Saltwater, no adaptations, Mollies, Swords, Guppies etc
Open

EXECUTIVE COUNCIL MINUTES

The Executive Council of the Missouri Aquarium Society, Inc. was held on February 26, 1977 at the home of Paul and Barb Powell. President Ralph Wilhelm called the meeting to order at 8:20 P.M. Council members present were Ralph Wilhelm, Carl Berry, Tom Hopfinger, Rich Crabtree, Paul Powell, Larry Allbright, Kenny Cope and Frank Simmons. Visitors present were Thelma Cope, Louise Crabtree and Barb Powell.

Tom Hopfinger gave a treasurer's report - new balance \$2325.21.

Future Council meetings were set as follows:

Frank Simmons - Saturday, March 26, 1977

Ralph Wilhelm - Saturday, April 16, 1977

Rich Crabtree - Saturday, June 18, 1977

Kenny Cope will look into the cost, design, etc of making our own racks for this years show.

M.I.B.B. will obtain racks for the Betta and Guppy entries.

Barb Powell will check on insurance premiums for public liability for our show.

Larry Allbright said all speakers have been confirmed and the workshop time schedule is set. We do need items to be put in the workshop packets. Thelma Cope offered to do some calling in regard to this.

Carl Berry gave a raffle report - tickets have been printed and distributed. He also passed out the new proposed program for the breeders award. This will be looked over by the council members and will be discussed at the next meeting at Frank Simmons' home.

Frank Simmons announced the subscription for The Aquarium Digest is coming up for renewal. The Council voted to renew for an additional 2 years.

Paul Powell gave the fish raising report. The fish being considered is black Hi-fin lyre tail sword with red tip. Twenty (20) pairs approximately three (3) months of age. No price has been set.

The monthly meetings will start promptly at 8:15 P.M. Please be there on time.

The meeting adjourned at 10:10 P.M.

Respectfully submitted,

Barb Powell

TREASURER'S REPORT

Balance as of February 14, 1977		\$2491.36
Income		\$ 508.00
Expense		\$ 963.57
Balance as of March 25, 1977		<u>\$2035.79</u>

Income:

Membership	\$ 156.00
Advertising in Darter	\$ 322.00
Breeders Award	\$ 3.00
Workshop registrations	\$ 20.00
Refreshments	<u>\$ 7.00</u>
Total Income	\$ 508.00

Expense:

Ace - Darter supplies	\$ 9.50
Ace - New Member booklets	\$ 92.48
Workshop postage - Courion	\$ 63.12
Library book - Hopfinger	\$ 3.66
Refreshments - Bogacki	\$ 1.77
Postage - March Darter	\$ 10.90
Workshop phone calls	\$ 16.69
Plaques & Awards	\$ 83.45
Workshop printing - Ace	\$ 59.56
Ace - Darter ads printing	\$ 332.31
Travel Expense - Axelrod	\$ 239.00
Ace - March Darter	\$ 43.63
Aq Digest subscription	<u>\$ 7.50</u>
Total Expense	\$ 963.57

Cash on Hand	\$ 6.25
Deposit - Hampton Bank Checking Account	\$ 493.97
Deposit - Prudential Savings and Loan Savings Account	\$1515.57
Deposit - United States Postal Service Future Postage	<u>\$ 20.00</u>

\$2035.79

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The Missouri Aquarium Society, Inc. greatly appreciates the generosity of the following members and manufacturing firms for their donations in support of our society and it's activities:

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Missouri Aquarium Society, Inc.

WORKSHOP, SHOW, and AUCTION

APRIL 22, 23, 24, 1977

HOLIDAY INN - NORTH I-70 AND LINDBERGH

FEATURING - DR. HERBERT R. AXELROD

AND

Dr James Thomerson

Pat Austin

Dr. Gene Lucas

Ed Gralewicz

Larry Arnold

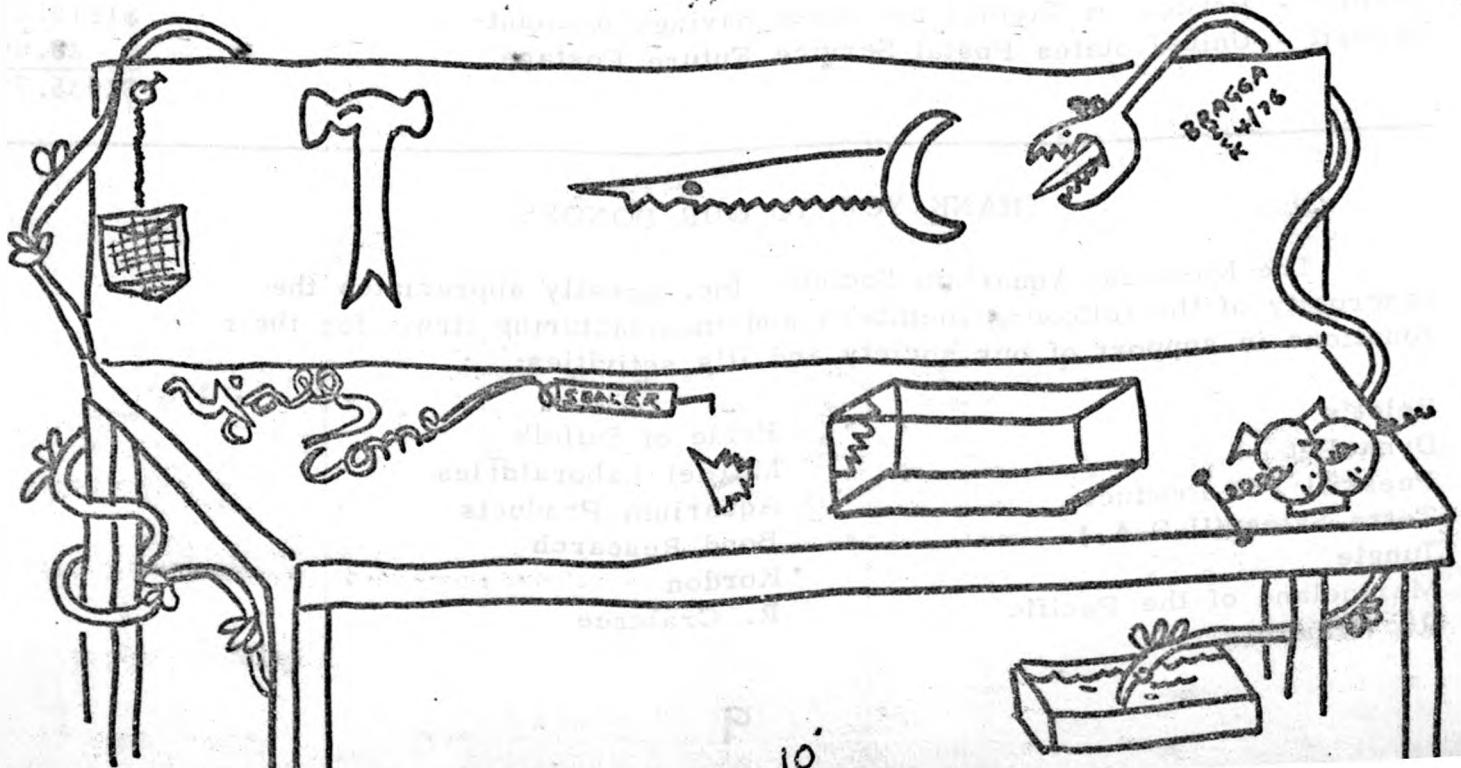
Homer Arment

Ron O'Brien

Dr. Dave Koran

Jack Connery

Jim Thale



DINNER / DANCE

BRING
ON
THE
PEOPLE!

SAT
APRIL 23, 1977

6:30
P.M.

UP NEXT...
"THREE
LITTLE
FISHES"

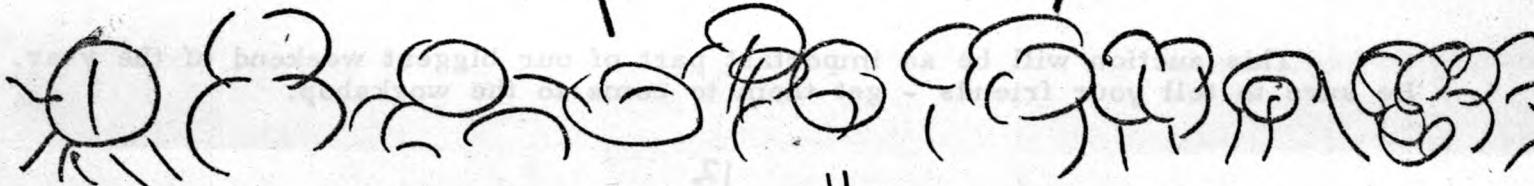
LET'S
DO THE
SWIM!

BRASS
KIDS

AUCTION

GOOD
BREEDER
STOCK!

SUNDAY
APRIL 24, 1977
12:30



AUCTION AUCTION AUCTION AUCTION AUCTION AUCTION AUCTION

Don't forget the big M.A.S.I. Auction we will have on Sunday, April 24th, 1977 at Holiday Inn North, I-70 and Lindbergh. This will be a really big auction. This is our show and workshop weekend. Many hobbyists who come from out of town to the workshop will be bringing fish. Jack Wattley's discus will be available as well as show quality bettas from the show and many other rare and unusual fish. There will even be some books available. Fish should be in for display between 11:30 and 12:00. Some of you latecomers with fish - please make a special effort to have your fish and other items for auction at Holiday Inn by noon. We want to get started on time so that the auction will not run so late. If for any reason you know that you can't make it by that time please call Ray Kuster and he will try to get your fish to the auction.

At the April meeting we will have tags available for the bags. We also will have selling numbers and forms for listing selling items available so that you can start marking your items. We hope that the use of the tags will expedite the record keeping for the auction. If you can't be at the April meeting and want to auction fish or other items, give Ray Kuster, Auction Chairman, a call for your number.

Just to recap some of the important rules governing fish and other items presented for auction:

1. All items must be clearly marked with the selling number, the seller's name and the type, quantity and sex of fish.
2. Each seller is subject to a maximum of fifteen bags of fish for auction, unless he previously has the clearance of the auction chairman. There is a strict limit of five bags of any one species for each seller.
3. All items for sale should be checked in by 12:00.
4. All items auctioned will have the proceeds divided 50% to the seller and 50% as a donation to M.A.S.I. Of course full donation items are certainly welcome.
5. All equipment brought for auction must be in working order.
6. The Auction Chairman will call a break or breaks in the auction for the purpose of viewing new fish and other comfort reasons.

We cannot mention too often that our auctions are the primary fund raising projects of the club. Your support, both as a seller and a buyer, are vital to M.A.S.I.'s success. Anyone desiring to help work at the auction please contact:

Ray Kuster - Auction Chairman - 644-6147

This auction will be an important part of our biggest weekend of the year. Be sure to tell your friends - get them to come to the workshop.

MISSOURI - ILLINOIS BETTA BREEDERS
WILL HOST A DISTRICT POINT SHOW

in conjunction with the

MISSOURI AQUARIUM SOCIETY, INC.
SHOW AND WORKSHOP

APRIL 22 - 23 - 24, 1977

Featuring the outstanding expert and nationally known researcher and breeder

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I.B.C. Judge and Betta Workshop Leader

To be held at the Holiday Inn North - I-70 and Lindbergh, Bridgeton, Mo.

11 GENERAL CLASSES - 13 PLAQUES

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DR. HERBERT R. AXELROD

Dr. Axelrod is undoubtedly the best known tropical fish expert in the United States
Be sure to be present to hear him speak

COLOR CLASSES FOR 1977

Division A: Dark Bodied, Solid Color, Single Tailed Males

Division B: Light Bodied, Solid Color, Single Tailed Males

Division C: Dark or Light Bodied, Bicolor, Single Tailed Males

Division D: Dark or Light Bodied, Patterned, Single Tailed Males

Division E: Double Tailed Males

Division F: Dark Bodied, Single Tailed Females

Division G: Light Bodied, Single Tailed Females

Division H: Dark or Light Bodied, Bicolor and Patterned, Single Tailed Females

Division I: Double Tailed Females

Division J: Breeder Classes

Division K: Trial Classes

M I B B DISTRICT SHOW RULES

1. All entries must be registered by Saturday, April 23, 1977, 9:00 A.M. C.S.T.
2. Judging will begin at 9:00 A.M. Saturday, April 23, 1977 by an IBC certified judge in accordance with the official IBC standards.
3. All mail in entries are to be received by Friday, April 22, 1977. Entries can be shipped earlier in the week. Mail in entries must be mailed AIR MAIL SPECIAL DELIVERY to: Ken Cope, 2640 Midland Ridge Drive, St. Louis, Missouri 63114. Telephone number 1-314-429-0364.
4. Entry fees: Single entries \$1.00 per entry, Breeder \$3.00 per entry.
5. The exhibitor must determine the class of competition in which the entry is to be exhibited. However assistance in classification will be available at the time of registration. All entries improperly entered will be disqualified, and will not be judged. Decision of the judge will be final.
6. Every precaution will be taken against loss of fish, but MIBB cannot assume responsibility for loss or hazards in shipping or delays in route.
7. Entries to be returned must have sufficient postage included. All bettas without return postage will be auctioned.
8. Single entries will be shown in 1/2 gallon drum bowls. Breeder entries will be shown in separate single 1/2 gallon drum bowls. No gravel, greens, coverings, mirrors or decorations may be used. Bowls to be provided by MIBB at no charge.
9. Awards: 1st place plaques, rosettes for 2nd and 3rd. Plaques for Best of Show Male and Best of Show Female.
10. An auction will be held Sunday with MIBB retaining 25% of the auction price. Entry forms must indicate if fish are to be auctioned. Minimum bids are to be shown on the entry form. All items will have a minimum of \$1.00.

Name: _____ Phone No. _____
 Address: _____ City: _____ State: _____ Zip: _____
 Date: _____ Club Affiliation: _____

Entry#	Class	Auction	Yes/No	Minimum Bid	Sale Price	MIBB	Owner

I the undersigned do hereby agree to all conditions set forth in the rules by MIBB

Signature: _____

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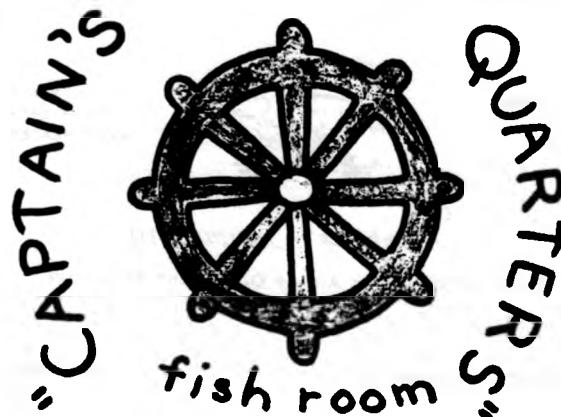
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603 ROUTE 48 WEST
624-9325 (217)



12676 DORSETT ROAD MARYLAND HEIGHTS, MISSOURI 63043 434-2022

An aquatic article of the month of the
activities you have had and what you
have seen and done. A column of tips
and hints for the month. A column of
what you have written to the editor.

EDITOR'S MESSAGE



Busy - busy - in a tizzy - time goes fleeting in a whizzy! Bad, Bad, - I know but that has been the way it's been this past month with me going back into the classroom once again and working all day. I hate to admit it, but the fish have suffered. I'm afraid that I am going to have to part with many of my fine finny friends because I can't give them the TLC that they deserve and must have.

We would like to fill in another ad page for the next issue. A full page ad would be ideal or two half page ads would be sensational. If you can help, please let me or our ad chairperson, Joy Bogacki, know as soon as possible. We need to use the other side of the ad page that we already have.

I'm sure that most of our fishy plans for the near future are filled with the activities coming up on April 22, 23, 24 at the Holiday Inn North. I will say no more about it now because more details can be found elsewhere in the magazine. I do hope to see every one there. We will strike up the band on Saturday evening and try to play all of your new and old favorites.

Another workshop will happen the week following ours. On April 30 our friends in Peoria in the Tri-County Aquarium Club will host a one day workshop which should be of interest to many of us. Perhaps we can get a car pool of people together and drive up for the day. Members from this neighboring club do visit us, and it is good to return the visit and participate in their hobby related events also. See Tom Hopfinger for more details or check the "Coming Events" column in this issue of The Darter for added info.

I believe we will have a new column feature for our magazine each month. Ken Sommerhauser has offered to write "Hints from Horatio" for us, and it appears to be a good added attraction. Thank you, Ken, we'll look forward to your timely tips.

It also appears that we have another artistic person in our midst. Carol Willemin has prepared a beautiful puzzle for our enjoyment. We hope that everyone has fun working out the answers to the discus crossword. Thank you, Carol.

See you at the meeting,

Charlotte

METRIC AND HOW IT AFFECTS US

by Joy Bogacki

As time goes on we will be forced to use the Metric system, so here are a few helpful hints. I'm putting this together with my calculator and a book "Metric Made Easy" by Mary Ann McAllister. I hope this will help you understand the metric system and how easy it is.

One pound equils 454 grams. One ounce equils 28 grams (it's really a little bit more, but I'm trying to make this easy).

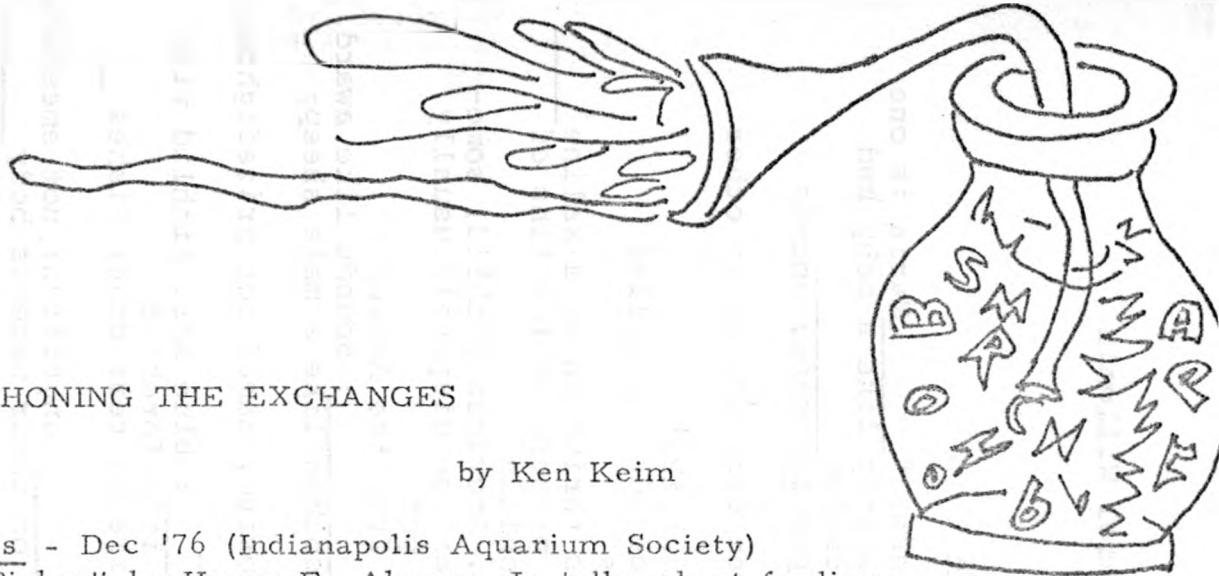
And now for the meters. A Meter is 39.371 inches, but to make it easier I'll break it down to millimeters and centimeters. The prefix Milli means 1,000 so there are 1000 millimeters (MM) in a meter. The prefix Centi means 100 so there are 100 centimeters (CM) in a meter. Now you're probably asking, "What does this mean to me?" Well, if a book says that a fish should be 10 CM you'll know the fish should be about 4 inches. "How?" you say. Well, there are about 2.5 CM in a inch. It'll take a little getting used to soon it will be easy. To convert inches to CM you multiply by 2.5. For instance, if a fish is 6 inches you would say 6×2.5 CM equils 15 CM. See how easy it is?

Now for a little bit harder stuff, Volume. A Liter (L) is the basic unit here. There are about 4 L in a U.S. gallon. So if you have a 15 gallon tank your tank has 60 L in it. If a package of medicine says to use so many CC's per L, what do you need to know? You know what a L is, but what is a CC? CC's are cubic centimeters. A Liter contains about 1,000 CC's, and an ounce contains about 30 CC's. The average teaspoon contains about 5 CC's. So if the dosage calls for 1 CC per L you could figure out that your 60 L tank would need 2 ounces of medicine.

Temperature - In discussing temperature we hear the words Fahrenheit (F) and Centigrade (C). One way to change Fahrenheit to Centigrade is to subtract 32 from the number of Fahrenheit degrees and multiply by 5/9ths. Let me give you an example of this conversion by using 80° Fahrenheit. $80^{\circ} - 32$ equils 48. 48×5 equils 240. 240 divided by 9 equils 26.6666 or 26.7. Now that's easy. I'll also give you a chart with the most common temperature settings in the aquarium.

F	C	F	C	F	C
.65	18.3	72	22.2	79	26.1
66	18.9	73	22.8	80	26.7
67	19.4	74	23.3	81	27.2
68	20.0	75	23.9	82	27.8
69	20.6	76	24.4	83	28.3
70	21.1	77	25.0	84	28.9
71	21.7	78	25.6	85	29.4

I hope I've helped, if only just a little. I've learned a lot by writing this article. More of you should try to write, besides, it helps our publication grow.



SIPHONING THE EXCHANGES

by Ken Keim

Tropical Topics - Dec '76 (Indianapolis Aquarium Society)

"Nutrition in Fishes" by Harry E. Abrams Jr talks about feeding your fish in the right way. With fish "eats" costing 10 times more than steak, maybe we should all understand a little more about what we buy and feed.

Wet Pet Gazette - Jan '77 (Davis Aquarium Society) "Culturing Wingless Fruit Flies" by Jim Hirsch is an ideal article for those keeping surface feeding fish. At least this can be your revenge against those nasty pests that fly around in the summer. These flies can't fly, and you feed them to your fish.

L.C. Fish and Tips - Nov '76 (Lewis and Clark Aquarium Society, Inc.) The title "A super Simple Method for Writing Articles on Breeding Fish" (reprint Wet Pet, June '74) says it all. If you want or need a great guide when you write your next article, try this one.

Tropical Breeze - Jan '77 (San Diego Tropical Fish Society) Ken Marten raps a little about "The Long-finned African Tetra". If Tetras are what your into, and you don't have any Africans yet, go ahead and give this species a try. Take it from an African Cichlid nut, Africa has given us a lot more than lions and monkeys.

The Filter - Feb '77 (Rochester Aquarium Society) "Killie Korner" by Jack Carr covers the American Killifish Association. If information on this organization is what your looking for, look at this article. If you love to tinker, try "Electronic Heater Control" by Gene Reuter - you might just find yourself electronically setting your heaters.

Hi Fin - Feb '77 (Arkansas Aquarium Society) "Triggers Anyone" by Gerry Churchwell is a nice little bit about a beautiful fish. If you keep salt in your tank you might want a trigger in there too.

ACROSS

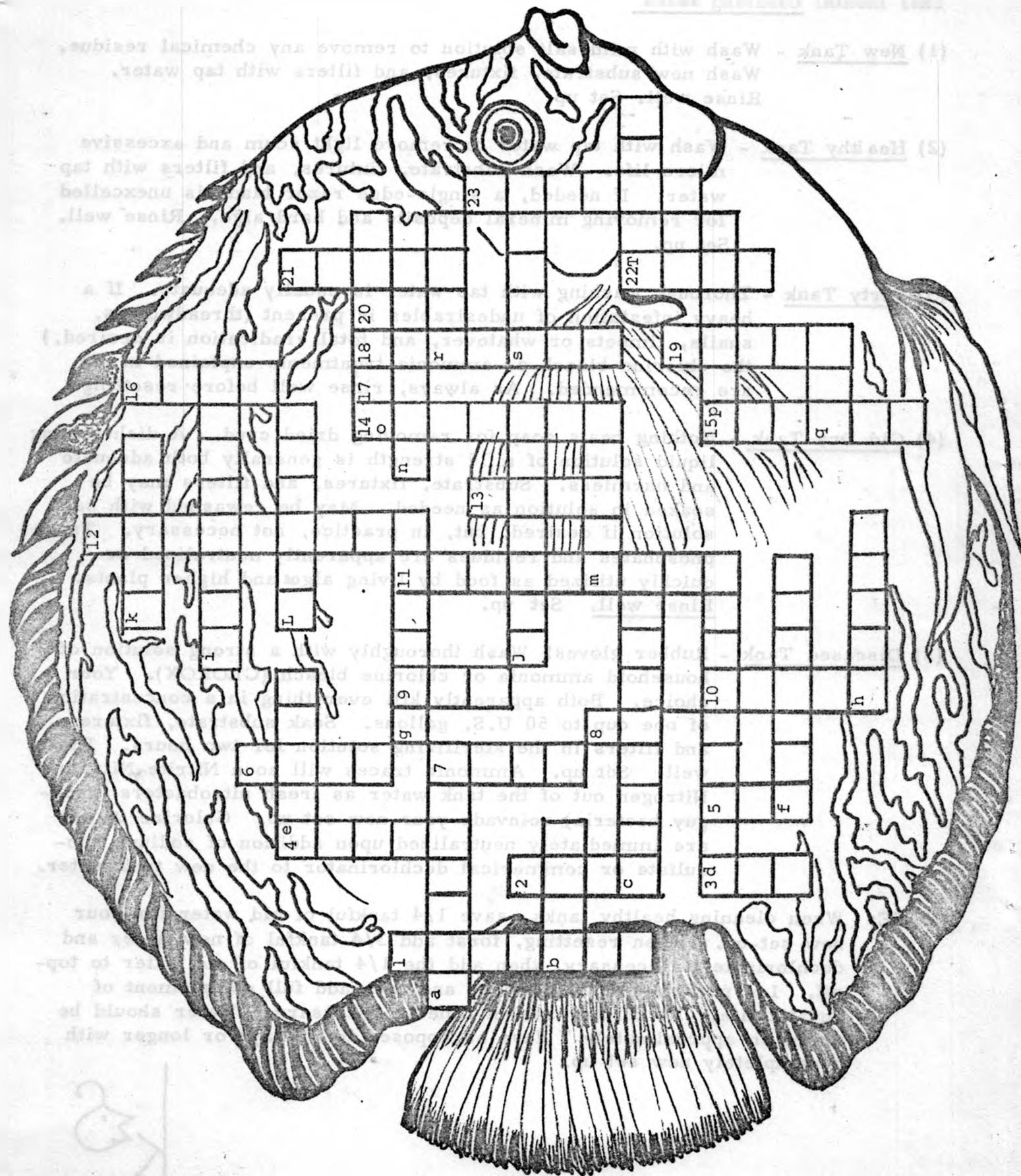
- a. Type of fish in this Crossword
- b. Old favorite So. Am. cichlid; sounds like a red wine
- c. "Lamprologus _____" Afr. cichlid with beautiful fin extensions
- d. Cichlasoma meeki; popular name
- e. " _____ cichlids are small; not over 4" in length
- f. Bright blue African cichlid; former NBC Symbol
- g. "Ps. _____"; many colors, including Cobalt blue; Plural
- h. Mbuna cichlids dwell among _____
- i. " _____ mouthbrooder"; Cleopatra's nationality
- j. "Ps. _____" sounds sophisticated; (last years contest fish)
- k. Name for various color varieties within a species
- l. " _____ tropheus"; means false
- m. "Little _____ in the brook; Papa caught him on a hook"
- n. Popular Amazon cichlid; also a church minister
- o. Beautiful So. Am. cichlid; also item thrown in the Olympics
- p. "Lake _____" home of many African cichlids
- q. Another name for fish eggs
- r. Egg spots are found on the _____ fin of many African cichlids
- s. Dietary mainstay of many Mbuna cichlids; vegetable
- t. Popular name for genus of African cichlids; also singer _____ Andrews

CROSSWORD

By Carol Willemin

DOWN

1. Afr. cichlid genus; " _____ Maria is one
2. Dwarf cichlid; sounds like a baby bed
3. Young fish are called _____
4. "Red _____"; popular name; sounds like satan
5. What some African cichlids do to other fishes' fins
6. " _____ Tanganyika"
7. Some African cichlids are called " _____ -eaters"
8. African cichlids thrive in an alkaline _____
9. _____ spots are present on the fins of many African cichlids
10. Old favorite So. American cichlid; sometimes called "garbage disposal; usually a very friendly pet
11. "Heavenly" fish from the Amazon
12. Pseudotropheus _____; sounds like award
13. Dwarf cichlid; sounds like a male sheep; Plural
14. Another old favorite, named for prizefighter, Jack
15. Haplochromis _____; blue Afr. cichlid with a large bump on it's forehead
16. Some cichlids like to tear other fishes' _____
17. "Tilapia mar--"
18. "Pterophyllum _____" angelfish; not emeekieii
19. Discus fry feed on their parents body _____
20. You might expect to find this cichlid in jail; Abbreviation
21. Pop. name for rock-dwelling Afr. cichlids
22. Many Afr. cichlids have large _____. So do sharks!
23. Popular cichlid; also another name for gemstones; Plural



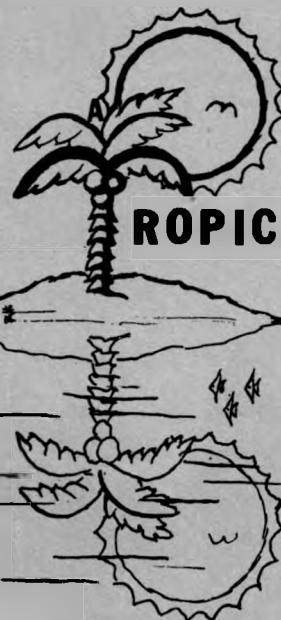
HINTS FROM HORATIO

This month: Cleaning tanks

- (1) New Tank - Wash with mild salt solution to remove any chemical residue. Wash new substrate, fixtures, and filters with tap water. Rinse well. Set up.
- (2) Healthy Tank - Wash with tap water to remove light scum and excessive micro-life. Wash substrate, fixtures, and filters with tap water. If needed, a single-edge razor blade is unexcelled for removing mineral deposits and hard algae. Rinse well. Set up.
- (3) Dirty Tank - Thorough washing with tap water is usually adequate. If a heavy infestation of undesirables is present (threadworms, snails, limpets or whatever, and total eradication is desired,) the chlorine bleach or ammonia treatments explained in (5) are recommended. As always, rinse well before resetting.
- (4) Old Dry Tank - Nothing beats soap for removing dried crud. A dishwashing liquid solution of mild strength is generally both adequate and harmless. Substrate, fixtures, and filters may be soaked in solution as needed. May be rewashed with salt solution if desired, but, in practice, not necessary. Trace phosphates and residues are apparently neutralized or quickly utilized as food by living algae and higher plants. Rinse well. Set up.
- (5) Diseased Tank - Rubber gloves! Wash thoroughly with a strong solution of household ammonia or chlorine bleach (CLOROX). Your choice. Both apparently kill everything in a concentration of one cup to 50 U.S. gallons. Soak substrate, fixtures, and filters in the sterilizing solution for two hours. Rinse well. Set up. Ammonia traces will soon Nitrite-Nitrate-Nitrogen out of the tank water as fresh nitrobacters (good-guy bacteria) reinvade your new set-up. Chlorine traces are immediately neutralized upon addition of sodium thiosulfate or commercial dechlorinator to the new tank water.

NOTE: When cleaning healthy tanks, save 1/4 tankful of old water for your new set-up. When resetting, first add 3/4 tankful of new water and dechlorinate if necessary, then add the 1/4 tankful of old water to top-off. Let percolate for 24 hours, and then add full complement of aquatic life. No further run-in time is necessary. Water should be prime in approximately 7 days as opposed to 21 days or longer with a completely new set up.





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A MESSAGE ABOUT AWARDS

By Carol Willemin

Annual Show time is just about upon us, and there are probably quite a few members who haven't yet planned on entering this year's Show, but there is still time to do so.

As Points Tabulator, I'd like to remind all members, and especially you Novices, that in order to be eligible for the Hobbyist or Novice of the Year awards, you must enter both the Annual Show and the Super Bowl Show. If you Novices are like I was at this time last year, you may not have even considered that you could win such an award, but you never know how things will progress during the year. It would be a shame if you found later in the year that you could be in the running, if only you had entered the Annual Show. You needn't win a show award to be eligible....just enter!

Besides the recognition and the beautiful trophies that are received by each years Hobbyist and Novice of the Year, there's an extra added attraction that you may not have taken notice of... dinner for two at the Jefferson Avenue Boardinghouse. If that sounds to you a bit like a night with Ma and Pa Kettle on the Farm, you're in for a big suprise! Beneath that drab sounding name and plain brick exterior, there lies a truly elegant little restaurant, unique enough to have received an excellent review in the February issue of Fortune Magazine. The food, the service, and the atmosphere are all outstanding, and you can choose from a different menu each night of the month! I'm not sure whose idea it was to make this a part of the awards, but Whomever,...we thank you; we certainly did enjoy it!

So, enter the Annual Show, and keep yourself in the running for this fine award. If you are a Novice, and you need advice about your show entry, don't hesitate to ask one of the more experienced members for help. Most of us would be more than happy to assist you in any way we can.

Read the show rules carefully, and go through the classes to see which of your fish has the best chance of winning. Even though you may not win a show award the first time out, you will have a lot more pride in our Annual Show and you'll enjoy the whole affair a lot more if one of the entries is your very own. And who knows; maybe next year it will be you dining at the Jefferson Avenue Boardinghouse as Novice of the Year!

YOU CAN'T BEAT THE HEAT

By Bob DuBois, HAC

Reprinted from the Dec. 1976 issue
THE HUB BUBBLE published by
Hub Aquatic Club, Crown Point, Ind.

A little over a year ago we put a gas space heater in our fish room, and ever since life has been a little less complicated. I'd like to share some of the benefits with you now.

No heaters -- this means less expense in buying equipment and it also cuts down on the electric bill. A side benefit is no more static on radio and tv caused by several heaters going on and off all the time. Another benefit related to heaters is eliminating the danger of a heater sticking and "cooking" all the tank inhabitants.

Fire hazards cut down -- before the new heater we had cords for heaters and triple plugs everywhere. This space heater has cut out the problem. Of course, be careful with curtains or other objects near the heater.

No power failures -- can shut down our tanks. Gas rarely goes out like electricity. Our space heater has a self generating thermostat and no fan, so it works completely independently of electricity.

Varying heat levels at first seem to present a problem. The nigher tanks were naturally warmer and lower tanks were cooler. But with a little planning and adjustment, we put the fish in tanks with the right temperature for their well being. Also leaving the top tanks open will keep them cooler and covering the bottom tanks kept them warmer. Even with a central heating system, we are still able to vary the water temperatures.

Water levels not as critical as they were before. With a heater the level must remain high. Now when we take out lots of water to go to a bowl show, we don't have to worry about filling up the tanks late at night. Evaporation won't ruin your heaters when the level gets too low. And if you want tanks with a low level for spawning (maybe anabantids) the tank water and the air above it both stay nice and warm.

Use any container to keep your fish in without worrying about having a heater for it. We can keep bettas warm in jars and put very tiny fry in drum bowls and they don't need heaters.

GENERAL MEETING MINUTES

The regular monthly meeting of the Missouri Aquarium Society, Inc. was called to order by the President, Ralph Wilhelm, at 8:15 p.m. on March 9, 1977.

Mr. Wilhelm announced that in the future, meetings will begin promptly at 8:15.

Other announcements included; MIBB auction, March 20 at 1 p.m. at the Holiday Inn North, Paul Hogan has tanks for sale, and our library has three new books.

The March Executive Council meeting will be held on March 26 at the home of Frank and Dorothy Simmons.

The minutes of the Feb. meeting were approved with the correction of the raffle ticket price of \$5 a book instead of \$4.

The Treasurer's report was received and filed subject to audit.

Mr. Wilhelm replied in answer to a question that the stands will probably not be ready for this year's show.

The schedule and speakers are confirmed for the show/workshop. There will be a Show meeting at Ralph's Sunday at 1 p.m.

Ken Sommerhauser reported that the new Breeder's Award Program is being considered by the Executive Council.

Carl Berry asked that all members sell, sell, sell raffle tickets.

A suggestion was made that the Breeder's Award results be published quarterly for recognition.

Bowl Show winners were announced and the Breeder's Award fish were auctioned.

Door prizes were awarded.

Meeting adjourned.

Respectfully submitted,

Barbara Pozaric, Secretary

EXECUTIVE COUNCIL MINUTES

The Executive Council was called to order on March 26, 1977 at the home of Frank and Dorothy Simmons by Ralph Wilhelm, President.

All members of the Council were present; a Frank and Dorothy Simmons, Ralph Wilhelm, Tom Hopfinger, Steve and Barbara Pozaric, Paul and Barbara Powell, Dave and Sharon Masters, Rich and Louise Carbtree, Carol Willemin, Larry Allbright, Jim and Joy Bogacki, Ken and Ola Sommerhauser, Carl and Jan Berry and Sue and Ray Kuster.

Executive Council - con't.

Future Council meetings - April 16 - Ralph Wilhelm,
May 21 - Pozarics, June 18 - Crabtrees.

Committee Reports:

Show Committee - Larry Allbright - Registrations are coming in.
Volunteers to handle details would be appreciated.

Treasurer - Tom Hopfinger - our cash flow situation is good.
Trophy donations are now be accepted for the Show.

Fish Raising Contest - the fish will be available soon.

The club received a thank you note from the Griffitts for the flowers sent to John in the hospital. He is getting along well and we all hope to see him soon.

Thelma Cope reported that the telephoning for donation for the Workshop packets is going well. We will have key chains, rain bonnets, matches and fish food samples, etc.

It was decided to buy 12 powder blue and 12 royal blue discus for the auction.

The Council approved the purchase of the TFH loose leaf and fillers for the library. Also two books, Show Guppies and All About Bettas.

Stands for the show were again discussed. Ken Cope reported on the cost of building risers. Other suggestions included, whole tables, blocks and leg extensions. Rich Crabtree and Ken Cope will investigate the prices of concrete blocks to be put under the present table legs. Black plastic will be used to cover the tables.

Frank Simmons and Sharon Masters will take care of arrangements for the hospitality room including snacks and liquor.

Carl Berry reported that more raffle tickets are out than last year but be has no figure (\$) to report.

Collating this month will be the 1st Wed. at Bertich's.

Breeder's Award Program was discussed. Many points were approved, some revised, some returned to committee for rework and clarification and resubmission. The reporting form was approved and will be duplicate. Approval was given to awarding MASI points, 25% of total, on a yearly basis. The steps were approved along with awards to be given with a silver piece for Master Breeder.

The program will be reworked and submitted to the Council at the April meeting.

Meeting adjourned.

Respectfully submitted,

Barbara Pozaric, Secretary



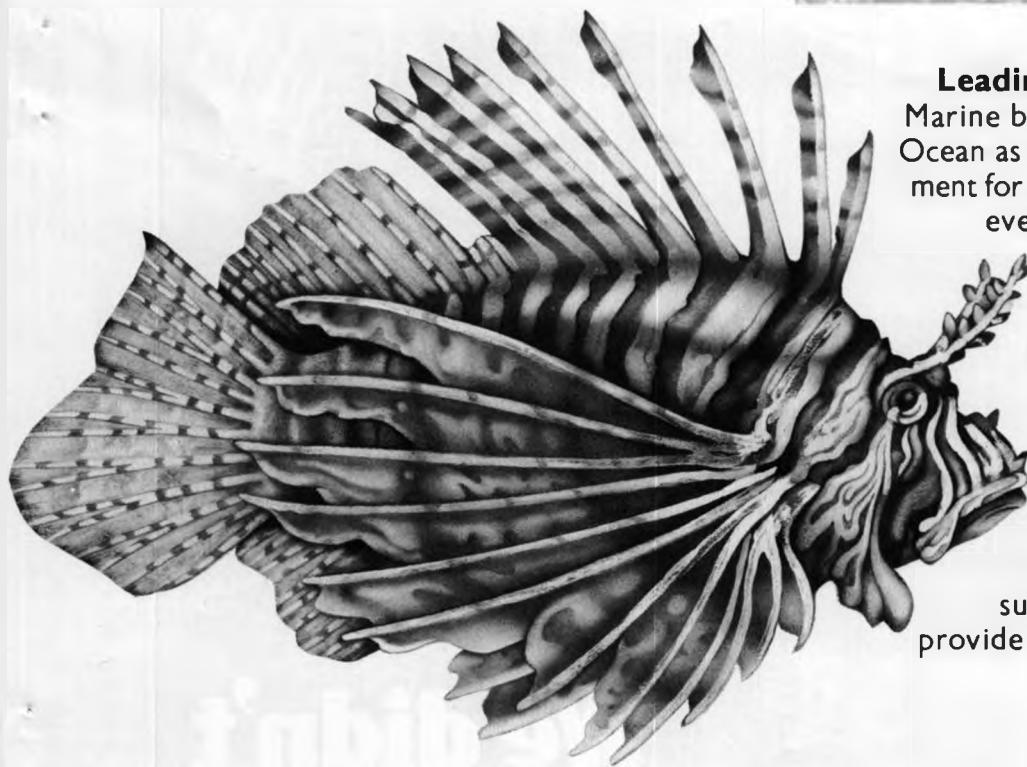
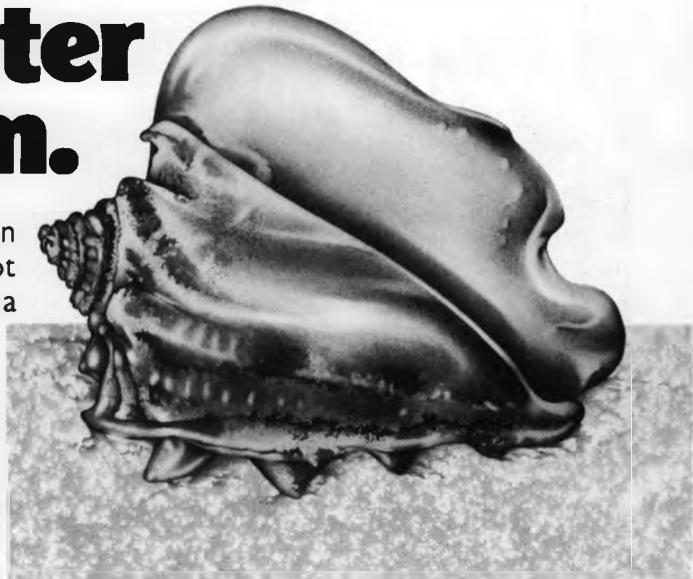
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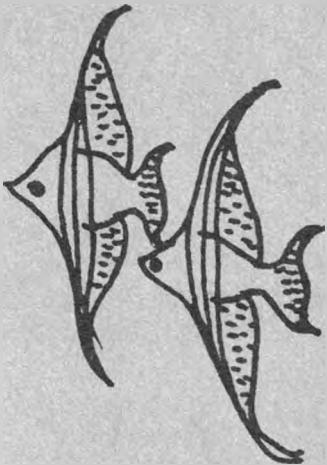
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