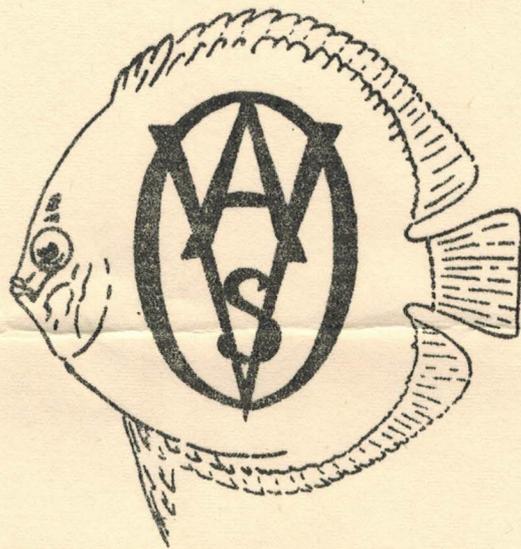


OVAS NEWS



OFFICIAL PUBLICATION
OF THE
OTTAWA VALLEY
AQUARIUM SOCIETY

OVAS NEWS

FEBRUARY 1962

OTTAWA, CANADA

VOLUME 7, NUMBER 6

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The Ottawa Valley Aquarium Society is a member of The International Federation Of Aquarium Societies and the Canadian Association Of Aquarium Clubs.

Meetings are held in the Chemistry Building, Room 37, University Of Ottawa, on the third Thursday of the month at 7:00 PM for the Junior Society and on the fourth Thursday at 8:00PM for the Senior Society.

The OVAS NEWS is the official publication of the Ottawa Valley Aquarium Society. Subscription rate is \$2.00 per year to non-members.

Editor: Gary Zumar

SOCIETY NEWS

By I. Whoknowsall

THE HOME SHOW will be held in the near future. This has been an annual event in our Society and this year it should be the best ever. Mr. Griffiths will have all the information on the competition at a later date in the OVAS NEWS...

Mrs. Dickson came back from her well-deserved holiday in time to receive an honorary membership from the Society. The framed certificate was presented to her for her contributions to the hobby and to the Society while in the aquarium and pet supply business...

Anyone who knows the whereabouts of two books on marine fish which were borrowed from Mr. Bud Peart when he visited our Society is asked to contact Weldon Hodges...

This item appeared in the EVENING TELEGRAM, St. John's, Nfld. and mentions a prominent member of our Society (Guess who)...

The Newfoundland Aquarium Society will soon consider plans for the establishment here of a provincial aquarium.

A spokesman for the society told The Telegram today that regular meetings of the organization are now being held and plans will soon be formulated for the provincial aquarium.

Since the society was formed early last year small aquariums have been placed in a number of city hospitals and other institutions.

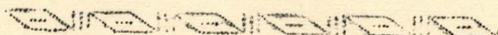
The President of The International Federation of Aquarium Societies is residing in St. John's. He is Mr. Harvey J. Wittenberg of the Canadian Army who is stationed at Buckmaster's Field. He attends the Society's meetings and has helped the local group along with its various programs.

A provincial aquarium is the ultimate aim of the local group. Said a society spokesman: "We have to keep before the minds of all Newfoundlanders the urgent necessity for a provincial aquarium. Such an establishment would be a constant attraction to visitors to our Province".

Mary Kavanagh is President of the local society. Other Officers: Evan Johnson, Vice-President; Lottie Cooze, Secretary; Jim Howell, Treasurer; Mrs. W. Collins, Chairman of the Program Committee and Miss Jean Simms, Librarian.

Why couldn't our Society stir up interest in establishing a National Aquarium in Ottawa?....

The Society at last has an editor for the OVAS NEWS. Miss Kay Welch has agreed to take on the job. YOU can help her by offering your assistance and by writing articles on your experiences with the hobby.



JUNIOR SOCIETY PRESIDENT'S LETTER

Dear fellow members:

Our January meeting was quite successful. Some of the highlights were a talk on aquarium water by Gary Zumar, and a talk on the White Cloud by Mr. Parisien, President of the Senior Society. A raffle was held for two pairs of fancy guppys; the winner was Bobby Cooper. We would like to thank Mr. J. McManus for donating the prizes.

I saw many new faces among the members. I hope that these people enjoyed the program well enough to want to join our Society. Let's keep trying for our goal of 150 members. Our programs in the future promise to be the best ever thanks to the untiring efforts of your Program Director, John Pinder-Moss.

See you at the meetings!

Jerry McMullin

Jerry McMullin

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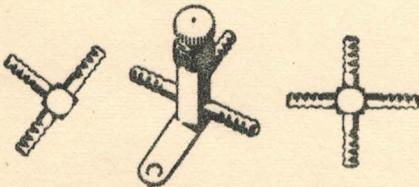
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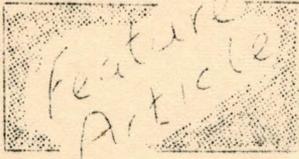


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LIGHTING FOR THE HOME AQUARIUM

by Arthur F. Sereque, Tropical Fish Magazine

The amount of light a home aquarium needs is most important for a healthy tank. In this connection, I am referring to planted tanks; bare tanks do not need light, as witness the Blind Cave Tetra, which has lived for generations in the blackness of streams deep within caves in New Mexico. Also, large wholesalers and hatcheries do not have much light over their tanks. However, they clean them daily, and of course have no plants or gravel in them.

For the average home tank however, light is a necessary part, far more important than filters or aerators. At one extreme, with very little light, plants will fade and decay, roots will rot, the water gets acid, bad smelling and cloudy, and in a comparatively short time no fish will be alive. With a medium amount of light, plants will be weak, brown algae will form, and although your tank can go on for months, it will not be in a healthy condition. Most complaints about poorly growing plants are due to insufficient light, especially when using fluorescent light, which does not give as much total light as it appears to. For example, a 15 watt fluorescent light used in **the evening only is totally insufficient for the average tank.** Although it gives as much brightness as a 60 watt incandescent lamp, the quantity of light is much less.

In a sufficiently lighted tank, the plants are a rich green, are healthy and are continually reproducing. At the other extreme, with too much light, plants grow over the top, green algae form, eventually choking the plants and killing them. This ends up with the same set of conditions as too little light, with decayed plants and dead fish. However, it is a slower process and can be stopped whenever you first notice it by merely cutting down on the light.

From this we can see that light (1) controls the form, colour and reproduction of plants, (2) enables fish to find their food, (3) it also affects the colour and behavior of fish. Fish are shocked by sudden changes of light. These colour changes are controlled in a complicated manner by the eyes. We have all noticed the paleness an Angel fish takes on when the lights are turned on in a dark room. Also, fish grown in a white container need a week or more in darker surroundings to develop their colour. And (4), light may destroy the life in the tank.

Now to get to the measurement of light. Intensity, or brightness is measured in foot candles. (We often think of watts, as a 60 watt bulb.) Sunlight, on a clear day, may have as high as 10,000 foot candles. Since 100 foot candles are enough for plants to grow satisfactorily, you can see why direct sunlight is too strong for tanks. Too much brightness results in pale and slender leaves. Duration is merely the time, and Quantity is the intensity multiplied the duration. Thus 4 hours of 100 watts

...continued page 5.....

LIGHTING...

is roughly equivalent to 8 hours of 50 watts. Unfortunately, this is not exactly true, as light below a certain intensity won't do any good, regardless of the duration. Ordinary room lights, for example, are no good at all; a light within a few inches of the water is necessary. Quality of light is dependent on the wave length such as infra-red, ultra violet, etc. Sunlight, incandescent light and fluorescent light differ in quality as they are composed of different wave lengths of light.

Ordinary sunlight is a mixture of red, orange, yellow, green, blue and violet light. Finally, there is a Direction of light, and in this connection, it has been shown that fish prefer the light to come from above and are disturbed by light coming from the side or below.

Now for some practical notes on aquarium lighting:

A north window is the best place for a tank, second is east and south is last, as direct sunlight is too strong. An old aquarium can stand more light than a new one, as in the tank recently set up plants are scattered and not so thick, gravel is cleaner and reflects more light. Too many floating plants will cut off the light from the bottom plants.

Now finally for some recommendations for correct lighting:

Remember that these are general and do not allow for the fact that one tank may be in front of a bright, sunny window and another may be against a wall.

...Continued page 6.....

<p>FRASER'S PET SHOP</p> <p>"OTTAWA'S LARGEST"</p> <p>"Everything in Pet Supplies"</p> <p>Jack Fraser, Prop. CE2-7586 190 Bank Street Ottawa</p>	<p>ALADDIN Pet Shop</p> <p>"A COMPLETE LINE OF PET SUPPLIES"</p> <p>Otto Flegel, Prop, CE6-5033 819 Bank Street Ottawa</p>
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LIGHTING...

INCANDESCENT LIGHTS

5 Gal tank needs	1	25 watt lamp for	8	hours
10 " " "	2	25 " " "	8	"
	or	75 " " "	4	"
15 " " "	2	40 " " "	8	"
20 " " "	2	75 " " "	5	"
25 " " "	2	40 " " "	10	"
50 " " "	2	60 " " "	12	"

In my own tanks, I give about 50% more light than suggested in the above table. On the other hand, I have a lot of floating plants which cut the light that gets through to the gravel.

FLUORESCENT LIGHTS

Fluorescent lights are rich in blue and violet, lower in red, orange and yellow. They give a flat, shadowless, uniform light which is best for Mollies, Zebras, Catfish, Angels and other black and white fish. Bulbs last much longer and give less heat than incandescent lamps.

10 Gal tank needs	15 watts for	10 hours
15 " " "	20 " " "	10 " "
25 " " "	20 " " "	16 " "
35 " " "	25 " " "	16 " "
50 " " "	30 " " "	16 " "

As you can see, you need to keep fluorescent lights on practically all day to keep your tank in good condition. For those who want the best, two reflectors for each tank would be an

ideal combination, where you could vary your lighting to suit the conditions and get the best colouration for all fish.

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The magazine was late this month because I was waiting for your ARTICLE!!!

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