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October 1958

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NEW ISSUE FISHKEEPING

_ and Water Life

IN THE SWIM

Marine Aquarium · Soothing Influence Twin Hobbies · Advice to Clubs · Goldfish

Container · Americans Spawn a Puffer Fish · Oriental Namings

A blotre marine. The Plymouth Aquarium of darine Biological Association of the little Kingdom is to be reconstructed during ming winter. The present Aquarium for the dark of the state of the control of the dark of the control of the control of the and part from the addition of electrical and some other minor modifications, is all undarmetally as it was in Victorian days

the new Aquarium, based on 70 years
reference and research, will be of advanced
and in many respects unlike anything in
the country. It is anticipated that this new
Aquarium will be ready for visitors by nex

The state of

he twain shall need." When the Mahsian Maharani of Baroda flew to India only its reported they took with them as said the Maharaja, "when I have said the Maharaja, "when I have was to do I stop for a few moments and at the fish." Such is the universality of many them in the many that it is the said of the people of every land are appreciating them to the said of the said of the said of the temporary of the said of the sa



Club life. Commonsense advice on the importance of club atmosphere was given by

Published monthly by Fishkeeping and Water Life, Doriet House, Stamford Street, London, S.E.I. Telephone: Waterloo 3333. Telegrams Poullanbir, Sedist, London. Annual Subscription Home, £1.8.0. Overseas, £1.7.0. U.S.A. and Canada, 44.00.



Forging ahead. Inside the forge at Plaxtol, Kent, is a stone trough. In this trough flourish three small Goldfish, apparently quite uncon-cerned by a wood fire which smoulders nearby. Derek W. S. Edwards took the photograph of this unusual scene which we reproduce here.



Puffers spawn. Gode Wolfsheimer, from California, U.S.A., sends news that he and Dick. Hans have independently spawned the Gene gave Dick a pair of the fish and it was the recipient who had the first success but Gene followed just 48 hours later, using an obvious sexed pair kept by themselves in an eight-gallon quarium containing artificially softened water which was slightly alkaline and at a temperature of W.G.E. these aquarists actually observed the spawnings but the eggs were scattered about haphyzardly and a few adhered to flower-pots which were placed in the tanks to provide refuge for the parent fishes. The eggs were extremely small.

Mr. P. S. Boyes, an Association of South London Aquarist Societies and Croydon A.S. official, in the sixth A.S.L.A.S. nosaletter, He feels strongly on maintaining a happy, sociable atmosphere in a club. No matter have a characteristic of the sociable atmosphere in a club. No matter he stociable atmosphere in a club. No matter he are quietly until their yolk sacs were absorbed under the possible of the stocial three possible and he stocia

The middle level of the water seemed full of tiny animated semi-transparent Christmas-tree ornaments." Feeding the youngsters seems to be the major problem and Dick Haas's fry slowly disappeared. Despite every effort, Gene's own spawning diminished in numbers too, until only half-a-dezon survived Jong enough to swim in the normal horizontal manner. The numbers then reduced still further and finally all fish from this spawning had perished.

The problem seems to be to find the right food for the fry—certainly, in the Americans' experience, it has to be very tiny and even then the fry appear indifferent to it.



Nice naming. When it comes to thinking up lyrical names for fishes you cannot beat the Far Eastern countries. Looking through a booklet on Goldfish issued by the Shanghai branch of the China Native Produce Export and the First Pricords, "Broaded Bail", "Heaps of Snow", "Red Cap", "Scaled Bail", "Scaled Bail"



Fishkeeping, October 1958



PANCHAX AND RIVULUS TOOTH-CARPS

Technique to adopt with this maligned group of fishes

by D. B. McINERNY

BAD news circulates quickly, and is very butten exaggerated on its way; a warning at the exaggerated of these who have on the hand experience and no desire to invite the exaggerated of these species, which consequently the exaggerate of the exaggerated of these species, which consequently the new part of the exaggerate of the e

Fishkeeping, October 1958

little over 7.0 and where the hardness is not too considerable.

Being surface fishes they behave similarly and breed alake, depositing their eggs among floating plants such as Recia, Lesser Bladderwort, and the hanging roots of floating ferring the surface and the hanging roots of floating ferring particularly when these grow long and lish horizontally just beneath the water surface.

Breeding in a community tank does take place but the chances of rearing any young under these conditions are almost nil, However, quite a number of young can be obtained when a special breeding tank is set up.

Our standard 24 × 8 × 8 in, breeding the surface was the conditions are almost nil, However, quite a number of young can be obtained when a special breeding tank is set up.

Our standard 24 × 8 × 8 in, breeding the surface was the conditions are almost nil, However, quite a number of young can be obtained when a special breeding tank is set up.

Our standard 24 × 8 × 8 in, breeding the surface was the conditions of the surface area with any of the floating plants previously mentioned. Set the temperature to 180 deg. F. and put in an adult put are fight as these fishes are ontone with a sheet of glass as these fishes are ontone with a sheet of surface area with any of the floating plants previously mentioned. Set the temperature to 180 deg. F. and put in an adult put for fishes are the surface area with any of the floating plants are the surface area with any of the floating plants are the surface area with any of the floating plants and then taken and the surface area with any of the floating plants and then taken and the surface area with any of the floating plants and then taken and the surface area with any of the floating plants and the floating the put and the procedure is repeated time and a hand of face above the tank can cause a fright, followed by a quick leap.

A day or so after the adult fish have defended to the procedure is repeated time and a land of face above the tank can cause a fright, followed by a quick Relatively Large reggs

Though the eggs are quite large they are difficult to see among the plants; the parent fish. If kept well fed, will not usually eat them but they seem unable to resist the nearly hatched fry. It is therefore better to take the purent fish away on the 18th or 14th day, when the first eggs will be hatching.

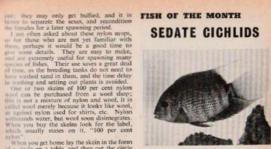
If you are experienced you can search the floating plants and either see or feel the eggs, which can then be removed to a spearal for quite a long time, do not feave the females container holding some of the same water,

which usually states on it. "100 per cent when "
When you get home lay the skein in the form of a circle on a table, and then cut the circle into quarters, so that you now have four ares. Take one strand from each are, and fee that agreed tightly in the middle. Next, fold it in the state of strelle on a table, and then cut the circle in important phonograph on the constraint from each are, and tie that went tightly in the middle. Next, fold it in half so that the tie is at the top, and the time and hand down one way. Now pinch the time at hand down one way. Now pinch and to form a neck, and your mop is made, it has a knob for a head and the rest looks of the strength of the constraint of the

been becomes disentangled.

Other new mops are so full of air bubbles that they will not sink. When this happens agrees them out under water and eventually you sill expect all the air, the mop becoming waterleged and staying down permanently, and the staying down permanently and the staying and the staying down permanently and the staying are the staying down permanently and the staying are the staying down permanently and the staying are the staying the staying and the staying the

SEDATE CICHLIDS





ook Tropicals' photograph showing a head-on view of a Bubble-eye Goldfish.

ALEVINS begin feeding when the assim bladder has been inflated and the fish swim horizontally. Some natural feeding when the assimple of motivation of the same of

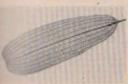
RAISING GOLDFISH FRY

by R. J. AFFLECK, M.Sc.

Aristocrat among Aquarium Plants

The Madagascar Lace-leaf Plant is worth the extra attention it requires

by DIANE SCHOFIELD



Flahlauping, October 1958



Tropical Reflections

TACKLING WHITE SPOT DISEASE

by DR. F. N. GHADIALLY

the treatment is to move all the or one of the two tanks and all the or one of the two tanks and all the the other.

The the other.

The temperature of the tank should be maintained between 80 and 85 deg.P. Acration and the treatment tanks are rather crowded. You may are the total the treatment in the total the treatment in the treatment starts.

The temperature of the tank should be maintained between 80 and 85 deg.P. Acration in the treatment in the treatment

will keep on appearing on the fishes. Do not be alarmed by this, it is what one would expect from a study of the life cycle of the parasite. It takes about three or four days for a visible white spot to develop after the parasite has entered the skin of the fish. Hence, for the first few days, fresh spots will keep on appearing from the parasite still in the skin of the fish but, after this period you will see no new spots spot will have disappeared. Continue the treatment for another three or four days after which the fishes may be considered cured.

When we started treatment you will remember we moved all the plants into one tank and all the fishes into one town with the take companies are "planted" or at least well submerged into the water. Place a thermometre in the tank and leave it there.

Next, raise the temperature to 85 deg, F., put the cover glass on and forget the tank except for checking every now and again that the temperature is a maniferable between 83 and the temperature is a maniferable between 83 and the temperature to 85 deg, F., put the cover glass on and forget the tank second fires of White Spot infectation.

This method is completely fool-proof and I can wouch that it works, as I have used it scores of times both in my tanks and in the tanks of other aquarists. I know it is hard to believe that letting the tank stand without the tanks of other aquarists. I know it is hard to believe that letting the tank stand without the tanks of other aquarists. I know it is hard to believe that letting the tank stand without the tank and the temperature is an apasaule. i.e., It is at least as effective, and in my opinion far more efficient, than hapbazard attempts at cleaning the tank, boiling the gravel, etc.

It is highly undesirable to scatter infected water and gravel about, contaminating buckets, nets and siphons. All these things can so the tank necessary and quite simple. The White Spot parasite is a passaule. i.e., It may derive its nutrition for the parasite falls to fire a passaule. I.e., It

AQUARIUM FISHES FROM CEYLON



No. 5. Species from the tropical rain-forests

The most of the west south-west portion of the core cocluding the coastal areas and months regions, the indigenous fishes can taked as typically "irrin-forcst" species, in previous articles of this series I have also and the series of a region of the series of a more half-based and lowland-swamp fishes which are also more within the general are referred to as the auth-sesters west zone.

Although the main part of the virgin tropical distinctions, some of it has been spared the in these true forest reserves the original fishes has been replaced by interesting the control of the original fishes has been replaced by interesting the streams more vulnerable to distinct the control of the original fishes has been replaced by interesting the streams more vulnerable to distinct the streams more vulnerable to the streams more vulnerab

Fishkeeping, October 1958



COLOURFUL APHYOSEMIONS NOW AVAILABLE



Male Blue Gularis, a brilliant tropical Tooth-carp. Photograph, L. E. Perkins

by P. MILLET

This seen in the Midlands include exceptionally good Aphyosemion spiratedri, known over a Red Pleasants and, in America, as including the Pleasants and, in America, as the Aphyosemion spiratedri, known of the fish that can be brod, is bred, but within the Aphyosemion as his own favourite, but the standard its unique in its ecologing for I must be red as a possible. The bottom that the production of the fish that can be brod, is bred, but within the standard is supported to take it up.

The breeding tank, which need not be large, the standard is supported to take it up.

The breeding tank, which need not be large, the standard is supported to the standard transfer of the standard transfer

Till recent weeks have not been especially mattanding ones from the point of view of new introductions, though from now out the New Year we can hope to see several second of the point of the body to the anal and dorsal fins are edged with blue, also there are blue patches on the sides of the about the New Year we cannot clumber are good supplies of most of the mountaints of Gupples, quality livebearers are in particularly plentiful.

A new Cachell has been offered by a remove the complete of the properties of t



An Archer Fish (Toxotos) in typical pose in an aquarium. Photograph by Walter S. Pitt.

Gularis are "tame" fish but owing to their size and their large mouths they cannot be kept with other tishes much smaller than themselves.

They are difficult to breed and, like those of the Red Pheasant, the eggs take a long tine some control of the control of the control tishes the control of the control of the solite this fish, and livefood is appreciated. Like all members of its Genus it is a good jumper, so the tank must be well covered, otherwise, sooner or later, a dehydrated fish will be found on the floor!

are placed in the tank in a subdoed light at about 78 deg.F. they will probably spawn daily for a few days. After they have spawed they must be removed and the tank should be covered to evelude all light.

Egsa attacked by fungus should be taken out with a dip tube, and the water can be timed a very pale blue with methylene blue which will help to prevent fungus forming.

The old standby of the aquarist—paliencomow comes into play for the eggs take from row comes into play for the eggs take from one comes into play for the eggs take from the first of the fry are seen half the water can be tracted to the first of the fry are seen half the water can be replaced with fresh which will stimulate the hatching of further eggs. It is not necessary to feed the fry with Infusoria since they are large enough to take Micro-worms and screened Daphala at once.

Blue Gularis

There are a few Blue Gularis (Aphyosemion ceruleum) on the market at present. This is another handsome member of the same Genus and it can reach a length of nearly six, including the second of the expension of the same and it can reach a length of nearly six, including the sources of it is impossing as well, which is a point to be considered by the aquarist who enters at shows. While, as the English name indicates, but is the predominating colour, the male has brownish red patch under the caudal pedunde. The peneral appearance and habits of the different species are the same under the patch under the caudal pedunde. The peneral appearance and habits of the different species are the same under the caudal pedunde. The peneral appearance and habits of the different species are the same but the number and position of the darks but the moment and position of the darks but the moment and position of the darks the predominating colour, the male has been predomined to offer appears appearance and habits of the different species are the same but the number and position of the darks but the predominating colour, the male has the predominating colour the male and t

How the Shooting Is Done

The method of shooting was not discovered till as late as 1936 when Dr. G. S. Myers and H. M. Smith of the U.S. National Muneam dissected specimens. The water is shot out by compression of the gill covers and the tongue is used as a valve. The fish often swime with its nose out of the water. Archers can when taking aim.

Livefood must be offered, though it need not consist of land insects. The fish has news been bred in aquaria and its spawning habits are unknown. The young fish begin shooting when about one inch long and, to begin with can shoot only for two or three inches. They soon improve their range and aim and aquarium-kept adult fish never tire of this sport as long as somebody is willing to an approximation.

Fishkeeping, October 1958

LARGER AUSTRALIAN SKINKS



Cunningham's Spiny-tailed Skink (Egernia cunninghami). Photograph by the author

Raylly accommodated in vivaria of reasonable size

by ROBERT BUSTARD

Fishkeeping, October 1958

Further details are mentioned when the actual species are discussed.

Cunningham's Spiny-tailed Skink

This lizard, belonging to the Genus Egernia, differs, basically in temperament from the placid Blue-fongued and Stump-tailed Skinks. It is not found in sandy areas but tends to where rocks abound. Egernia comminghamile, before the shound. Egernia comminghamile specimens between the shound in since a several of its sub-species, some of which are much more decile and less spinose, in my observe rocks abound. Egernia comminghamile specimens between the Skinks as a group that spin and the Skinks as a group that the species to be described in detail, can be taken a typical of its Genus and is the only species commonly available in Britain.

Thave found these lizards to be of a nervous and suspicious nature, although this does not skinks which have kept from time to time. This teonsider is due to their habit of living in the rocks whenever a potential enemy approaches.

They are well becaused making attractive facilities and plunging into crevkes in the rocks whenever a potential enemy approaches.

They are well becaused making attractive facilities. A large adult has a girth of about six inches and a total length of 12-14 in. They have very strong jaw muscles and a will individual cain be handled from the start.

A large adult has a girth of about six inches and a total length of 12-14 in. They have very strong jaw muscles and a will individual cain be handled from the start.

A large adult has a girth of about six inches and a total length of 12-14 in. They have very strong jaw muscles and a will individual cain be handled from the start.

The colour is a dark glossy brown and the scale are all strongly keeded, the soliny rivise is the largest of the carnivorous univaless.

strong jaw muscles and a wind the inflict a rather painful (but not at all serious) bite.

The colour is a dark glossy brown and the scales are all strongly keeled, the spiny ridge projecting backwards. The spiny nature of the scales is much more noticeable on the fall and, rocks, it fills list lungs with air and the spines tend to hold it in position so that it is very difficult to dislodge. This trait is easily demonstrated in the vivarium.

The floor of the vivarium can be covered with sand on top of which dry moss can be placed here and there, if desired. Rocks and rocky hiding places should be arranged. A water dish is essential.

Fruit and Meat Diet

inflicit a rather painful (but not at all serious) bite.

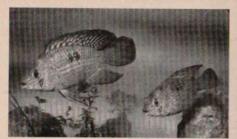
The colour is a dark glossy brown and the scales are all strongly keeled, the spiny ridge projecting backwards. The spiny nature of the scales is much more noticeable on the fail and, when the lizard runs into a crevice between two rocks, it fills its lungs with air and the spines tend to hold it in position so that it is very difficult to dislotge. This trait is easily demonstrated with sand on top of which dry moss can be placed here and three, if desired. Rocks and rocky hiding places should be arranged. A water dish is essential.

Fruit and Meat Diet

As regards food. I give my speciments chopped banana and raw near trainly. They will also take gentles and mendatorins. They will also take gentles and me



FAMILY LIFE IN THE AEQUIDENS CICHLIDS



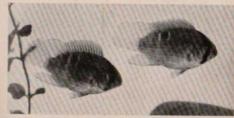
by C. A. & E. A. ALLIN

THERE is no doubt that almost all aquarists, and many other people, are fascinated by fishes of the Family Chélidar. What practising aquarist, specializing now perhaps in its Barts. However, or Characins, does not remember the wonder with which he gazed on the first Angel Fish he saw. There are few owners of community aquaria who feel their tanks are complete without one or two of these

utiful creatures. Among the Cichild Family there are many ser lively, and sometimes brilliant, fishes it could compete with the Angel in the uarist's affections, given half a chance. Yet



We are not suggesting that the Blue Acars is a micompanion for your cherished Characins, has fabre up to half its size it will ignore with magnanimity. Keep it with any of the large registers, or livebrarers, Angels, etc., and it will obtain the mentioning at this stage that my less than the perfect of the seven days and, as soon as they are two his worth mentioning at this stage that it is worth mentioning at this stage that it is a worth mentioning at this stage that it is a worth mentioning at this stage that it is a worth mentioning at the stage that the stage that



The impression of being easy going, as a state of the dorsal first. The breeding habits of Browns and Blue here so similar that we can deal with them together. They go through the normal stable routine of kissing and wrestling when the state of the sta

Fishkeeping, October 1958

Doubtful Temperament

It is during the hatching period that the Flag Cichild becomes rather unpredictable. If upset, the parents are far more liable to eat their eggs than are either A. Iniffrom the tank, with brown paper while eggs and the tank, with brown paper while eggs.

We have not yet had a pair sufficiently blast to bring their eggs to the first space who have not yet had a pair sufficiently blast to bring their eggs to the first space while almost impossible to sex A. euriceps by sight. Mature males of this species do not cannot be sufficiently blast to bring their eggs to the first space when the beauty with a become pair off and sort themselves out.

Lastly, the eggs may be taken out and raised, using aeration, in another tank, treating because with a 1 per cent methylene blue solution to prevent fungus growth. Such good results are, however, not usually achieved by this process, as by allowing the fish to raise the water. The Brine Shrimp eggs are put in through this process, as by allowing the fish to raise their young, if, they can be so persuaded.

Another Representative

We now come to the last of these fishes of
which we have haid experience, Anguidens
maronii, and this is the one we have found to
be the shy member of the Genus. In generalmarchical control of the Genus. In generalMain coloration is a chocolate brown, but this
dades or intensifies according to the mood of
the fish to creamish or a much darker hue.
When in cream regala the fish earries dark
vertical lines on its sides. It is also blessed,
more obviously on some occasions than others,
with a large keyhole-shapped blotch on each
flank; because of this it has been given the
name of Keyhole Cichild.
A. maronii grow to about 4 in, in length, at

a shady spot in which to breed, bright lighting perhaps not being beneficial to egg fertility.

They will produce a remarkable number of eggs for such small fish, spread over a considerable area on a state or stone or any other smooth surface that takes their fancy. The product of the produ

SEPARATING BRINE SURIMPS
or separating young Brine Shrimps from their eggs, all that is needed is a small town a not similar container and a flower-pot with a hole about \(\frac{3}{2} \) in diameter drilled about halfway down it.

This pot is positioned upside down in the tank with the bottom hole above the surface of the water.

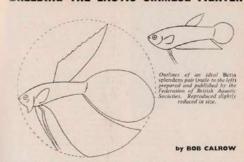
The Brine Shrimp eggs are put in through this hole which is then overed by a small with the strength of the surface of the water.

The Brine Shrimp eggs are put in through this hole which is then overed by a small contained the surface of the water of the w



FLOWER POT

BREEDING THE EXOTIC SIAMESE FIGHTER



In the first place, a pair of fish in good condition is essential. No one can predict the character of any individual Fighter, so it may mean that to get a pair into excelling the second of the condition of the





male Fighting Fish cares for the eggs in its rface bubble-nest, Photograph by W. Hoppe.

will be observed that the underside of the male immediately behind the jaw is rotund as emis-globular in shape. The breeding tank should be clein, and ith or without shingle, but with a small treat of plants for the protection of the male from an over-boisterous male. In this spect a clump of ficeria will do well, but care used be taken that it is free from sanish, or ease will play how of any reasonable hardness and should, for preference, be not more than as inches deep. The Fighter can stand onlitions of extreme heat, and consequently after of low oxygen content. It can also ithstand impure water, with its labyrinth reathing system, designed by Nature so that he species chooses such conditions for its reeding area where interference from proying hemies, less well equipped, is remote.

However, it is not it condition of breeding by reproduce these conditions, and your spending the processing the sense of the proposition of the oges, and clean the place use the conditions of the conditi



602

Fishkeeping, October 1918

Polythene Pond for Rearing Goldfish

Tilli use of polythene as a container for humporting fish is now an everyal contrainers is now an everyal polythene containers is now an everyal consists of a misture of both. However, and have forther development of polythene containers is becoming of gradual mistures to the aquarist.

Many Goldith fanciers, having spawned a fewarite pair of fish, are hard put to it to find the state of the

Fishkeeping, October 1958

FISH ENEMIES

Larger Predators

by JOHN CLEGG, F.R.M.S.

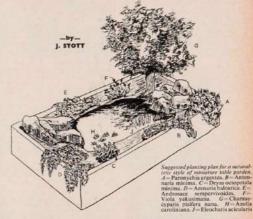


N this series I have dealt so far with the smaller pests that come from within the water itself. In this concluding article I shall concentrate on the larger creatures that live out of the water. Admittedly these will trouble mainly those readers who live either in the country itself or in suburbs within easy access the country itself or in suburbs within easy access. Perhaps, first of all, a frequent but unexpected creature may be mentioned; it is the Grass or Ringed Snake, a non-poisonous species but one which, because of its love of water and damp places, often spends long periods in or near garden pools and finds there plenty of food in the form of frogs, newts and thus an unsuspected pest.

The Heron is also an unsuspected cause of



WATER GARDENS IN MINIATURE



is, they are often prized for their artistry semanental value.

miniature garden is no exception and, a properly constructed, it invariably laces an exclamation of delight from all bases an exclamation of delight from all bases an exclamation of delight from all bases and exclamation of delight from all bases and point in a full-sized garden by becomes a focal point of popular appeal one a pond in a miniature string and, by inclusion, the tiny garden arouses even the admiration. Here I would emphasise a sound job should be made of it for our dowe get the pseudo-pond, usually the producing anywhere near the same of on people as when water in a properly sould basis its employed.

All producing anywhere near the same on people as when water in a properly sould basis its employed.

When afteninging the construction of a miniature garden it is important to remember

Something that is in miniature always account to attract and fascinate. There is, if course, a great appreciation of the skill and ingenuity which so frequently goes into making of time replicas and, although so many things in miniature are of no practical radios, they are often prized for their artistical state, they are liable to be used in its make-up may be grown to the part of the prized state of t

that it should be laid out with care so that it really appears as a garden in miniature and not merely a trough or other suitable container in which a few small growing subjects have brighted in the provide better facilities for provide better facilities for provide better facilities for ylewing.

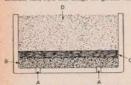
The miniature and salture to suit the surroundings.

The miniature are frequently raised in the surroundings.

The miniature following some accepted style scaled down to fit the particular container or space.

It should contain those tiny, rooted plants, accepted as suitable either as naturally occurring species or dwarfed into miniatures by selective breeding or controlled growth development, such as the art of "borssal" originated by the container of the miniature garden should be given over to water. The maximum area for water should be no more than one-quarter.

The control of the miniature garden should be given over to water. The maximum area for water should be no more than one-quarter.



which are valiable either as naturally occur which are valiable either as not one of the miniature garden should be given over to water. The maximum area for water should be no more than one-quarter.

One often sees cacit used in the same miniature with these plants. I do not think is to be encouraged. When cacit are the plants is consideration when making a miniature garden with the plants.

Containers are, of course, the first consideration when making a miniature garden. The choice depends, to some extent, on the ultimate size, style and design the garden will will be considered if the right effect is to be obtained and that calls for al teast two inches of water, but a greater depth is necessary if planting in the pond is intended when the minimal articles for the pond basin, much better results are to be obtained if concrete is water to be obtained if concrete is a similar articles for the pond basin, much better results are to be obtained if concrete is a similar articles for the pond basin, much better results are to be obtained if concrete is a similar articles for the pond basin, much better results are to be obtained if concrete is a similar articles for the pond basin, much better results are to be obtained if concrete is a similar parden is to function property. First of all the drainage holes should be protected by a similar parden is to function property. First of all the drainage holes should be protected by a similar parden is to function property. First of all the drainage holes should be protected by a similar parden is to function property. First of all the drainage holes should be protected by a similar parden is to function property. First of all the drainage holes should be protected by a similar parden is to functi

Fishkeeping, October 1958



We like to have your views but please keep letters to a reasonable length. The Editor does not accessful agree with the opinions expressed.

Continental Contacts

bis. During Hendon Aquatic Society's recent
that to Belgium they established good relations
such many Continental aquarists, as was reported
in the last issue.

In the second of the second continents of the second contact
in the last issue.

In the last issue, and the second continent in the second continent with a trip with assured success, for the
links between aquarists ensures that everyone is
shorted to have a good time.

Already Hendon have established regular crosschannel sides shows and the pictures taken by
the folland at an early date.

Arrangements are almost completed for the
title of the society to Amsterdam early next year.

Arrangements are almost completed for the
title of the society to Amsterdam early next year.

Allegaers, Middx.

(Hendon A.S.)

Opinions on Pike

We —You have a wonderful magazine which I
how forward to reading every month. However,
in the August issue, John Wakefield in his column
rule Phalety' made a few errors in describing
the Great Northern Pike' (Esse largus) and the
terrest spelling) "Maskelunge" (Esse mus-

the "Great Northern Pike" (Knox Junius) and the tearners perliming "Mankelings" (Eco: massive state), "So voracious is the Pike, in fact, that it is unusual to find more than one adult in an one stretch of water".

Last July, at Georgian Bay, Ontario, a party of Last July, at Georgian Bay, Ontario, a party of Last July, at Georgian Bay, Ontario, a party of Last July, and Control Bay, Ontario, a party of Last July and Leven one morning and later in the attention that yand I returned to catch is more streamy and later in the attention of the Pike. This cove never failed to produce Pike of adult size whenever it was a produce Pike of adult size whenever it was a produce Pike of adult size whenever it was a produce Pike of adult size whenever it was a produce that the conference of the pike of the pike

bits Wakefield replies: "The spelling of the popular

Albino Guppies

Sira,—I should like to mention a mistake in an article on Breeding Albino Guppies published in "The Guppy" and quoted in Fishkerinso, September 1958, under the heading "Producing Albino Guppies".

The author states that these are double recessives but in reality albinism in Guppies is due to a Drx. Haakins in 1948.

London, S.W. 16.

R. J. APHECK, M.SC.

Blue-green Alpae

Sit.—In view of the frequent enquiries that are made view of the very frevalent course, may a uthern the following that the view of the world, we provided a tank of the part of the world, we provided the course of the world with the frequent end of the very frevalent course, may be used to the world end of the course of the world with the frequent end of the world with the view of the world with the view of the world with the view of view o

Fishkeeping, October 1958

above it: the fins are yellowish, with the first rays of the dorsal in black. Both do very well in the aquarism.

Other commen Raths are Raths innovation and the same and silver Raths with refins and silver Raths with refins and 10 to 12 miles and silver Raths with refin and 10 to 12 miles back vertical bars and yet another of similar size and shape which is silver with an irdevent red strips turning laterally and terminating in a size and shape which is silver with an irdevent red strips turning laterally and terminating in a size and shape which is silver with an irdevent red strips turning laterally and terminating in a seven also glow with the continuation of the rod laterial line.

Aplachelichins macrophishams are particularly common and the younger specimes of malaria by breeding or catching mosquito larvie, the average temperatures in these parts being the average lemperatures in these parts being laterally every trip to collect fishes results in the which this out towards the bead but runt through the eyes and mouth; it also has bright black-rever. Hand yees.

A Characin which has proved hardy and is

Oueries are answered free of charge by experts. They should be sent to "Fishkeeping", Durset House, Stamford Street, London, S.E.1, with a stamped addressed envelope for the reply. All queries are answered direct but a selection in published here.



Marbled Cichled Growth

I bought an Astronous ocellatus at Easter when it was 13 in. long. It is now 53 in. and growth rate seems to have slowed. Is this normal and is the fish a reasonable size for its uge 2— (B.W., London, N.15).

(f. 4%, Lumbon, N.15).
Your Marbied Cichied (Astronotas occilutas) has grown very, well and 3½ inches is certainly at reasonable size for its age. Even in the wild the growth rate would slacken off from now on, but or aquarist the fish will probably not grow much longer unless it is ken in a targe task, say 4 ft., 2 ft., 3 ft., 3 ft., 4 ft., 3 ft., 5 ft., 6 ft., 6

608

the fish shows red patches on the anal, caudal and dorsal fins. At the age of about 15 months the rays of the dorsal fin of the mule begin to project in the state of the stat

Cloudy Water

I have a 30 × 15 × 18 in, teopical apparium and
I cannot seem to prevent the water getting vercloudy with Green alga. The tank does not receive
direct sandight but has plenty of daylight. Elevin
light is switched on for three to four hours each dote the planty, although numerous, have lettly better
strated. This tank was compiled, choused and
identify changing. Are more plants required or to
the lighting responsible 7—(S.D., Hornchuch,
ESSEY).

New Barb

Could you give me nome information on a new
Barbs, Rarbus arulius, that I recently purchased?

R.G.C. London, N.143.

Barbus (Pantisa) arulius, whose bome is Travarcore, has been known to science for over a century
but is a fairly recent newcomer to the aquarts.

It can reach a length of 6 in. though aquartum
specimens are usually smaller. In good conditions in your tank, water going green
would seem to be too much light entering the
stank, The best way to combat this would provide shadsuch as Patilineria, growing along the side nearest
the window. Floating plants would also help
to cut down the light. With the approach of
shorter and possibly dull days, you will find
conditions in your tank, water going green
would seem to be too much light entering to
stank Patilineria, growing along the side nearest
the window. Floating plants would also help
to cut down the light, With the approach of
shorter and possibly dull days, you will light
entering the combat this would provide shadsuch as Patilineria, growing along the side nearest
to cut down the light, with the approach of
shorter and possibly dull days, you will light
to cut down the light, with the approach of
shorter and possibly dull days, you will light
to cut down the light. With the approach of
shorter and possibly dull days, you will light
to cut down the light.

News from the North-West by "Aquaticus"

shows they would like to. Glass tanks are not easy to store without charges, and to recover the end of the end

one has absence, and he lost a large quantity of the hard of the h

the level of Chester Weir for the migrating fish as over!

Taking recently to a show secretary over the unexports of planning a large-scale competitive under exhibit in the North-West, we both agreed that the major difficulty was the provision of afficient tanks to stage the exhibit. It would not be used to the major of the level of the second takes and, even if it got sufficient tanks, the problem would still be storing them between the second to the second takes and even if it got sufficient tanks, the problem would still be storing them between the second takes and members bring their exhibits as best seen as the second to be the show and the second to be storing their tanks to be seen and afford to take several tanks, and small section have not the storage facilities for keeping stage numbers of tanks between shows. When one realizes the voluntary work put into second the story of tanks between shows. When one realizes the voluntary work put into second the story of tanks between shows. When one realizes the voluntary work put into second the second takes and the second takes the second takes and the second takes and the second takes the second takes and the second takes the second takes

Water Analysis

Shall Fis Should be sent (NOT delivered by
Should in a clean pint bottle, well packed, to
Fishkeeping "Analyst, 12 Featherbed Lane,
Addington, Surrey, together with a fee of 5s, per
anaple. Name and address of the sender and details
of persalling conditions should accompany each
of persalling conditions should accompany each
or be undertaken under this service and corpuse
anni to the sender than under this service and corpuse
anni to the sent to our Analyst with samples of
mater.

Novel Aquarium Idea

All who have enjoyed a seaside holiday at New Brighton have noticed the Perch Rock Battery, prominent on the waterfront, to prominent that many visitors have mistaken the great boath of the property of

South-West Viewpoint by H. C. B. Thomas

O'N Tuesday, September 9, I paid a long deferred vesix to Stroud A.S. The programme for that evictor Jones.

One of the ideas of this young and active society is a cup awarded to the best "all-round member," to the society of the paid of the first success, etc.

Earlier in the year the society purchased some young 'Celtilos' and shared them among the members; the September 9 table show was to since it was in the care of its new owner. The points gained also control towards those given for the cup award, on the first Tuesday of the month at the Rodberough Secondary Modern School and particulars of future meetings can be obtained from the secretary, Miss A. Hanford, I. Hander, the Chalman, sold me that the club has about 30 members and that the average attendance was 25. An excellent record, 1 thought, and a very friendly crowd.

Midlands Miscellany by W. L. Mandeville

THOSE occasions when a word, a phrase, or a subject seem to be repeated from several sources must have been experienced by many of us. No sooner had the headline "Devil Weed Menaces Nile" caught my eye leading me to read a black-choking waterways, hindering ships and blocking irrigation channels, to the detriment of Egypt's economy, than along comes the Notting-ham bulletin in which Mr. V. J. Christian deals crastipes—alias Devil's Lilac, Florida Devil, Water Hyacinth, etc.

As Egypt has an expensive removal programme by selective hormones on its handle and the properties outlet, but I doubt if Mr. Christian's authoritative account of cultivation would be received with any exhibition in Egypt 1.

Post Bag

610

Post Bag

Correspondence consequent upon the address becomes a construction of the foot of this feature becomes being structured to the foot of this feature becomes being structured to the foot of this feature becomes being structured to the feature becomes being structured to the feature becomes being structured to the feature being can draw on a fund of knowledge of false-being can demotize, and the feature being controlled to the feature being featured to the feature being structured to the feature being featured to the feature being feature being controlled to the feature being feature being controlled to the feature being feature being controlled to the feature being featured to the feature being feature being controlled to the feature being controlled to the feature being feature being controlled to the feature being controlled to

or a pestal, do pieuse give the fullest possible information. Information with the fullest possible information with the fullest possible information with the fullest possible in the full possible in the

Treasures

In most societies there exists at least ownersher on whom the chairman can rely to fill an unexpected gap in the programme. Such a cone is Mr. Eric Wallwork, reasurer of the inge, can draw on a fund of knowledge of fishershology, and chemistry, and put it over in a quite assured manner that leaves the listener wishing removes. The production of Mr. W. H. Bristoll. Treasurer of Midland A. & P.S., that society has been able to enjoy a film dealing with the Birmingharm water supply, from the gathering grounds in

Fishkeeping, October 1958

Wales, to the domestic taps in Birmingham, birneducing the film, Mr. Bristell stressed the foresight and pertiancity which—despite public impossibility and pertiancity of Fish—the year's entry. "A Worm's Key View", was typified by a fabricated outsize appearance with mechanical moving fishes to catch for the method of the period of t

Scottish Commentary by K. A. M. Robertson

His in Interest

It is pleasing to note from various areas of
breatend that an increased interest in the hobby

I may apparent. For some time the memberthan of societies have been failing but they are

more range. It is therefore essential that

me more range, It is therefore essential that

the pleasant state of affairs.

Hamburgh Aquarist Society is holding an

solution from October 18-25 in which there are

solven as a solution of the three-chols furnished

unserned class for the Edinburgh Aquarist

Aquarist Society. A further award of £5 will

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Aquarism Society. A further award of £5 will

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Flahkeeping, October 1958

Bedford Open Show

Bedford A.S. in constantion with the Holfordshire form by Bedford A.S. in constantion with the Holfordshire form of the best form of the best form of the best form of the best of the seat of

Midlands Competition

Floral Addition

THE annual members' show of Mersesyide A.S. was again staged in the great floral margases of the Liverpool and M.A. Chuppile.

Second Study Conference

Adjustation of the Second Study Conference

Adjustation of the Second Study Society for its second annual content of the Second

Extension for Exeter Event

A TABLE those completion of the State Midlands A Table I those completion of the State A A P State Cooking to the Cooking to the Cooking Cooki



A general view of the Southampton Society's annual open show held in July and which was reported in the Augustinae. Estrict were received from a wide area, including Hendon, Bournewouth, Basingstoke and Bonnal



I 5th Annual Midland Exhibition

O LI-STABLISHED Midland A. & P.S. once again believe to the content of the property of the content of the co



Show Dates

Festival Plans

THE British Aquarities Festival at Belle Vis. Manchester. It is all be an open club show, incorporating competitions for members of the entrants societies. The aim is that be infledient aquaritie, who is a mirror. The aim is that being the infledient aquaritie, who is a mirror of the entrants of the infledient aquarities, who is a mirror of the present a consideration of the infledient aquarities. It is all the infledient aquarities for the infledient approach the day for setting up. This will note be Thornday. A compectedness schedule has been driven yet and many special awards will be up for competition. Schoolands of the property of the proper Spring Grove, Field Mill, Butley, Yorks, Organic Country, Spring Grove, Field Mill, Butley, Yorks, Spring Grove, Field Mill, Butley, Yorks, Spring Grove, Field Mill, Butley, Yorks, Organic Country, Spring Grove, Field Mill, Butley, Yorks, Spring Grove, Field Mill, Butley, Mill, Mill, Mill, Butley, Mill, M

First N.E. Federation's Show
THE North-Eastern Federation of Aquaries' Societies
This month held its first annual show in Sundecland.
Six clubs were participating, and a Fitureterror Diploma
went to the best society's Enrighted aquariers.

All Furnished Aquaria

O'N August 8-9 the Taunton A.S. held its annual show
for inver Show. Mr. R. Saunders use the first principles
from the first principles of the first principles
tha troubly for best fish in show.
Mr. Parish, of the
Easter pociety, was the judge.

Dwarf Cichlid Wins Oldham Show

Nine-Day Show on Pier
THIS year Southend, Leigh A.S. staged its eabthition as
coldwater fish was Mr. S. Halvey's Veillaul Mone, and
Mr. J. Wylie's Aptitingumous resolutes to be the heat trapical fish entry. Judges were
Messes, C. W. G. Creed and B. G. Mealand.

Moor Goldfish Wins at Romford
WALTHAMSTOW AS, theweth the bad date founded
Augustian at the Romford Society's exhibition had a
Augustian at the Romford Society's exhibition had a
Augustian at the Romford Society's exhibition had a
Romford Society of the Romford Society's Romford Society
Barry's Famali Moore.

Best fish in show out of 210 entries was Mr. F. G.

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Best fish in show out of 210 entries was Mr. F. G.

Best fish in show out of 210 entries was Mr. F. G. Best F. Santanio and R. S. Barnes (plants).

G. was Mr. H. Admerst N. Neldomondoing passakely the took the seare for love temporal fish.



- Mostions of Brockler & District Breeders' Circle to the process and, although fishkeeping is the main of construction, one enthusiant but an adult among his collection of pets and another keeps to construct, whilst herpetuding is also represented.
- New secsetary of the Chelies A.C. is Mrs. A. in Harcourt Terrace, London, S.W.10.
- Two new members were welcomed at the September one of Liantwit Major A.S. when the Member-of-sea Cup was won by Mr. Cleserley and the Points was Mr. R. S. Wigg. First priressingers at the table one Meson. K. Witgues and J. Worte.
- the were Messix, K. Wayman and J. Wenze.

 § A new committee was rejected at the last meeting of formendes A.S. It consists of Mr. D. Willson, President II. A. Thansware, wisespresident I. Mr. D. Warmon, Mr. A. Thansware, wisespresident II. M. D. Warmon, Mr. A. Martin, September for an inner channel full could be A. S. during September for an inner channel full could be a separate to the september of the present of the president wave the winters with 12 powers. The final sent table town of the payer and the beld in Generation.
- Arthur A.G.M. of Tyneside A. & B.S. on September 2 th 1 Miller, 122 Condercum Road, Newcastle-on-
- Doe to the popularity of its meetings, Biskenhead h h H.S. has decided to arrange them at fortinghtly in insmal of most a mouth. The last gathering and of a questions and answers session when the popularity of the clab is Mr. L. Fulal, 5 Bustermere A Nectronian Birkanbad, Cheshag.

9 For the monthly meeting of Bland A, & P.S. on homeonic filters was an interclob quit with the Rossian and J. In a well-supported table show Mr. W. Entirey judging the members' crashitum with Livrey.

Assumit show of Edinburgh & E. of Scotland A.S.

all is lated in the Clubrooms, Infirmary Street, Edinburgh Company, Company

- weigh, size-provident; Mr. I. Cerbosse, which is the providence of the control of California at the Breated A.S. meeting on September 8. The collaboration that show for the Is D. Days's Tropic of Boltzenia at the Breated A.S. meeting on September 8. The collaboration that show for the Is D. Days's Tropic of Boltzenia at the Breated A.S. meeting on September 8. The collaboration that show for the Is D. Days's Tropic of Boltzenia and committee of Boltzenia and September 1. The standard and standa



Flidkpeping, October 1958

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Count Davic
Class Caffah
Glass Forb
Gloss Totz
Glosvight Tetra
Guppr ore filos stragramora Agassizi stragramora Resirvigi stragramora Overation gol Fish stralian Reinbow

Angel Sanday

Batha Tigge
Batha Tigge
Batha Tigge
Batha Nigger
Batha Nigger
Batha Sanday
Batha Sanday
Batha Sanday
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Batha Sanday
Batha Angel
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Batha Angel
Batha Angel

Glass Terra
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- ORANDAS
- · MOORS

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 - SIZE
 - · COLOUR
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 - GOOD FINNAGE

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