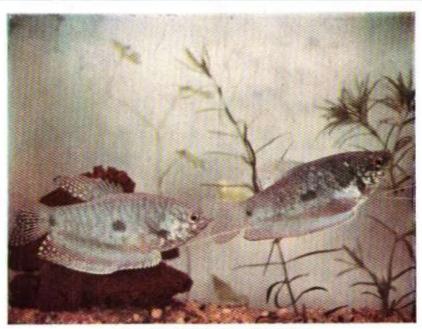
December 1958

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FISHKEEPING

and Water Life



MALE AND FEMALE BLUE GOURAMIES

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Seasonal Greetings to all our Customers and Friends FROM THE PROPRIETORS AND STAFF

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Fishkeeping, December 1958

VOL. 13 NO. 14 DECEMBER 1958

FISHKEEPING

and Water Life

Fishkeeping Stalwart - News from

Founder · Olympia Show · Nottingham's Celebrations · Christmas Gifts

♠ Enthusiasm transferred. W. P. Bradley will be remembered by many E. London fanciers for his loyal service to the aquarium hobby in Britain dating back to 1927.
Mr. Bradley Left the Old Country last Autumn to settle in Western Australia and is now foreign correspondent for the Aquarium Society of Western Australia. He would be delighted to bear from former associates in Britain; his address is 5 Park Lane, Claremont, Western Australia.
At the recent A.G.M. of the W. Australia Society, Bruce Shipway, President for the last two years, during which time the club he made very satisfactory progress, retired.



American Wedding. Gene Wolfsheiner of Sherman Oaks, California, the distinguished American aquarist whose excellent photod of the California, the distinguished American aquarist whose excellent photod of the California, the distinguished and the California of the

Gene is the co-author of a camprehensive Ts-cent book entitled "The New Tropical Fish Book" published recently in America and very freely illustrated, mainly with Wolfsheimer America Goldfish Society's Olympia Show Nottingham's Celebrations Christmas Gifts Celebrations Christmas Gifts Celebrations Christmas Gifts Sawning experienced of Commentation of the Commenta



issie.

Unappily neither aquarist has been able to spawn the fish for a second time and Gene has now lost his breeding female Terroodon.



• How it began. Whilst serving in the Middle East during the last war Capt. L. C. Betts, M.B. E., got the germ of the ided to a society which was eventually to come into being in 1948, under the title of the Goldfish Society of Gl. Britista.

SPECIAL ANNOUNCEMENT

SPECIAL ANNOUNCEMENT

Fishkeeping and Water Life" is to cease as a separate publication as from this issue. The decision, arrived at with much regret, is because of ever-increasing production costs.

The hobby will, however, be catered for weekly in "Cage Birds", commencing December 11, as was the case before "Fishkeeping and Water Life" was established in 1946.

Fishkeeping, December 1958

every known mutation in the Goldfish. 2. To encourage members to breed Goldfish on specified lines to that the maximum knowledge could be obtained from their efforts and (3) to bring home to all the feeling that the society was bigger than the individual and so induce an atmosphere of goodwill among members.

The first of the G.S.G.B. basic varieties were introduced in 1949 and slowly the society has gained a retrustion for solid

induce an atmosphere of goodwill amonu-members.

The first of the G.S.G.B. basic varieties were introduced in 1949 and slowly the society has gained a reputation for solid achievement based on scientific facts.

Today this specialist group is held in high esteem and its present position is due, in no small measure, to Capt. Betts' good hamoured leadership in its first 10 years. In the Autumn of this year he gave up the chairmarship but his knowledge and experience will still be available to the society.



◆ Show goes on. Although FISIGNEPPING will have ceased to be a separate publication in January the Aquaria Section at the National Exhibition of Cage Birds and Aquaria, will be staged as announced in the November issue. Finites are coming in well at the time of going to press and we look forward to an



a frair section senses steps are constructions of facts section? 2 for enterpolars celebration.

◆ Coming-of-age. Gracing the top table at the 21st Annaestry Dimer of Nottingstam A.S. on October 31 were Hugh Walker, Bill Stripes, Len Kriethin and Arthur Adock who were associated and Arthur Adock who were associated as a special edition in October to mark the milestone in this club's history. In it founder members recall some of the highlights of earlier days, some hamorous, cheer marking solid achievement. Len Kirchin tells of a prevar club dinner whom a power failure resulted in the festivities when a power failure resulted in the festivities than the control of the cont

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FISHKEEPING AND WATER LIFE وعامر عامرونان والدر بالبروان عامر بالمراهات والمراهات والمراعات

By the end of 1947 membership stood at 100. At the 1948 show members bought back programmes from visitors who were leaving, so that they could be sold again—such was the chemand. Show attendances reached their peak in 1950 with 20,000 visitors recorded, peak in 1950 with 20,000 visitors recorded. Proud record on which to look back, We wish it a flourishing future.



• An ideal gift. The Christmas gift problem is with its again and it is timely to mention Brynner's "Guide to Tropical Fishleoping", a comprehensive work on its subject and freely illustrated throughout in colour and with black-anti-white photographs. It is the ideal present for the serious against. It is the ideal present for the serious against. It is the ideal present for the serious against. It is the ideal present for the serious against. With the internet preferred in a volume which will be frequently referred to by the recipient and invaluable to him or her in pursuing the fasheeping hobby.

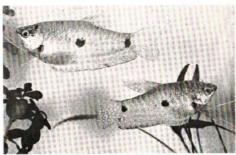


Past and future. In this last issue of "FISHERPING AND WATRE LIB!" we should like to thank our many thousands of readers who have given this journal their support over the last 13 years.

We believe the hobby to be worthy of a high-class production and have attempted to provide this but costs have cutstripped evenue.

We feel this paper has placed a significant point in ordering the hobby and we have been continued to the significant point in our excitation. Toggit he hobb coping features which will appear weekly in Case Black*, commencing with the December II issue.—L.W.A.

FISH OF THE MONTH



Male is the lover fish. G. J. M. Ti.

BEAUTIFUL BLUE GOURAMIES

WHILE sorting out a newly-arrived can of fish, I found that two Blue Gouranies (Trichogaster trichogarus are summarius) had been added to make up the order.

My immediate problem was where to find accommodation for the two fish of just over the properties of the two fish of just over the properties of the two fish of just over the properties of the properties of the properties of the two fish of just over the properties of the properties of

For the remainder of that day and the few following days I saw the male blowing bubbles in many different places, but it certainly appeared that his lackadaiscal performance was without any true instinctive breeding use and the female only seemed to be anied the planted area because he recompanion was there. In fact both fish eventually returned to normal activity.

there, in the Bout into eventually returbed as normal activity.

About two weeks later, however, I noticed that the female was looking extra well rounded that the female was looking extra well rounded stimulate to receive the stimulate the stimulate that the stimulate the stimulate that t

Result of the Water Changes

Result of the Water Changes

It was immediately after the third exchange of water, that the pair once again took to the cover of the plants and late that day the male was seen to be busy blowing bubbles.

On the morning of the following day the whole atmosphere of the tark had changed, both fish displaying a much heightened colour short of the control of the control of the colour state of the colour sta

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Spawning Method

The actual spawning of these fish took place during the early afternoon. It followed the typical Gourani procedure of the male wrapping the female beneath the bubble nest, up to which the expelled eggs flexued. On completion of the spawning the female was not removed as she had reliefed to the opposite of keeping and and showed every inclination of the experimental control of the experimental through the experimental control of the experimental cont

doubt as so his parental instinct lasting any longer, both he and the female were taken from the tank.

First Food for the Fry

First Food for the Fry

The first nourishment given to the fry was a proprietary liquid fry food plus a little dost fine dried food. After the first week this diet was varied by feeds of egg infusion, the latter being given by placing a small piece of hardware properties of the properties of the properties of the properties for which having been cut from an old nylon scocking. When the bag was gently specesed or gg particles was reduce a fine cloud of egg particles was reduced a fine cloud of egg particles was reduced a fine cloud of egg particles was reduced a fine cloud by the egg particles was reduced to the egg particles was reduced to the egg particle w

READERS' HINTS AND TIPS

ANCHORING THE FISH FEEDER

N this arrangement the socker is fixed to the lower part of the thermometer and the feeding ring is fitted over the thermometer as shown in the sketch. The feeding ring can then follow variations in surface level.



Perforated feeding rings may be fitted to the thermometer by means of a small mylon loop.

—W. Strox, Annecy, France,

Fishkeeping, December 1958

The Goldfish veriety known as "Lion Playing Brocaded Ball", a highly developed form.

MODERN CHINESE GOLDFISH

by R. J. AFFLECK, M.Sc.

Twas natural that, in the past, some tales about life in China and the things found there should be figments of the imagination rather than accurate reports. China is a long way off and stories could not be readily checked.

Main Variations

The main variations in external features are follows. Brown long and this or about a feelings.

The should be figments of the imagination rather than accurate reports. China is a long vary off and stories could not be read to the result of the country of the stories could not be read to the read to the country of the stories could not be read to the country of the stories could not be read to the country of the stories of this, there were the most fabulous Goldine. The main variations in external features are fable of the stories o



Fishkeeping, December 1958



LIKELY DEVELOPMENTS IN THE HOBBY

n both the film and booklet are the same and there is no doubt that they represent the best Goldfish found in China today.

All the variations in structure described by Dr. Chen are to be seen today but there are no new ones. There are, however, me combinations—e.g. a fish with both globe-eyes and pen-pon Type

binations—e.g. a fish with both globe-eyes and pom-ponts.

One of the great achievements of the modern breeder is concerned with the colours of Metallic fish. Breeds now exist in which offinite colour patterns are produced in crange and silver, purple and orange, or black and the colour patterns are produced in the photographs reproduced here show the photographs reproduced here show the great first. The photographs reproduced here show the good of the varieties in the bocklet. While with Red Cap appears to be a type of silver-metallic

Tropical Reflections

may prove uscless in practice because the fish on of like the taste of the new misture. Nevertheless, the problem is not beyond industries.

Another thing that I would like to see would be a more extensive use of filtration in decerative aquatar manifolding the decorative apparature and the state of the control of the c

Aid of a Filter

Errors in feeding and tank management occur in the best of hands and, instead of walting patiently for the not too bright water to clear, why not let a filter help you? By removing large amounts of particulate organic matter you also remove stiff that altimately breaks down to encourage alge on the plants and glass.

breaks down to encourage algo on the plants and glass.

The development of black or foul gravel is once more much less likely in a tank where filtration is employed and the number of times that the front glass needs scraping is also considerably reduced.

The next thing I would like to see in the near future would be a return of larger-sized fishes

on the part of fishes to eat what is good for them. In common with some children and most adulate they do not appreciate what is done for their own good!

The addition of some particular item to improve the diet, though sound scientifically, may prove useless in practice because the first do not like the taste of the new mixture. Nevertheless, the problem is not beyond to be a more extensive use of filtration in decorative aquaris maintained by aquarists. Many such tanks are anything but decorative in over 75 per cont of the cases when I visit aquarists they do not have a perfect tank which seems the fishes are them. The continuous demand for cheaper shadows the problem of the properties of the problem of them. The continuous demand for cheaper shadows the problem of the prob

Importance of Quarantining

Finally, I would like to see greater attention paid to quarantine and disease prevention instead of continuous doing of tanks with all sorts of concocious for treating sometimes read but, quite offer, imaginary indicators to the continuous doing the continuous doing the continuous doing to the

the like of which I have neither seen nor read about.

At society meetings you can be sure that somebody will describe some peculiar condition with which his fishes are afflicted and the person then expects the poor becurer, not only to give the correct diagnosis, but also to give a sure-fire treatment.

How can one diagnose these mysterious conditions from a distance without even seen the fishes? In the majority of cases I find it



quite impossible to offer much help or advice under such circumstances. The only advice, based on personal experi-ence, that I can give is this. If your acquarium technique and feeding is adequate and if you really follow the principles of quarantining fish and plants and all other wer objects, then it is highly unlikely just any versus calamity will belail your piecine community.

This is the final article in the series entitled "Tropical Reflections". For three years I have commented upon and discussed various points of interest to the aquarist the interesting plots that I can think of.

I have now covered more or less all the interesting plots that I can think of.

I have now covered more or less all the interesting plots that I can think of.

This is not such a fantastic suggestion as It may appear at first sight. After all, rats and mice used in laboratories have been kept allve and in perfect health for many generations on a dehydrated pelte diet. If I i can be done for fishes, it is can be done for fishes, in each of order died food to dried food with exercision of dried food or dried food with exercision of dried food or dried food with exercision of the day when catching Daphnia or culturing to develop the ideal dried food is the reluctance

by DR. F. N. GHADIALLY

POINTS TO LOOK FOR IN GROWING GOLDFISH

THE bramble-like growth on Bramblehead Goldfish is not present when the fish hatch but should be noticeable within six

hatch but should be noticed by whether the hatching no mail spill are present on any variety of Goldfish but by about six weeks they have developed. In Pom-ports the septa enlarge considerably and, at three months, are perceptibly larger than the normal



Techbrook Tropicals photograph giving a head-on view of a handsome Pearl Scale Goldfish,

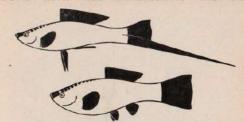
should be eliminated, no matter how good they may otherwise be.

The first sign of a cob back of the fish. This darkening may be continued until the whole upper part of the fish is black but often, especially in those fish which change colour quickly, the initial darkening is followed quickly by a decrease in the black pigment. As the black decreases, the orange or yellow pigment increases in interestity. In the ideal this orange or yellow pigments do not develop in some regions, so that, after the climination of the black, the regions are silver. The tilver colour of a good specimen should be seen as soon as the black disappears and must not be confused with the silver of an old this when the orange colour facts.

Reflecting Hasue

No reflecting tissue is visible in Goldfish when they hatch but afterwards it is deposited progressively and, by about two months, and be clearly seen in Metallic fish. The development of this tissue is early inhibited in Ascrange and the clearly seen in Metallic fish. The development of this tissue is early inhibited in Ascrange and situation of the common of

SCOPE WITH THE LIVEBEARING TROPICALS



They give a wide choice to the aspiring aquarist

by "OSTREA"

Female Mosquito Fish (Heterandria formosa), which groves to 1 in. Males are even smaller,



To many experienced aquarists the live—

bearers are a group of fish to be distrilised with a wave of the hand. They are so conversally found in the aquarium workl, in general are ac easy to breed and, therefore, usually so reasonably priced, that many fail fully to appreciate their true worth.

They provide an extraordinary range of the five male Mosquito Fish, a line—from the ting male Mosquito Fish, a line—from the fish and the miscential with the saturities more fish and their own, with their beautiful secondly anticorn red bodies and fine line in the six-inch and larger male Swordfall (including his sword), and the miscend Molliteneria weitfera, one of the largest species.

With revery few exceptions all the aquarium—from the first many first

pure black fins and tails. But I think that the Cuppies and Platies also set off, in many cases, the more formal and less colourful patterns of other fait, such as Tiggr Barts (B. ietrazono) and Gotranies. With very fee exceptions all the actuation-tep the control of the pattern species and there is a range number of hybrids and varieties in individual species that are officially, or semi-officially, recognised. The diversity of types available can well be imagined.

Classification of the Fishes

The full classification of the Poelitide is as follows:—Kingdom: Animalia, Sub-Kingdom: Meizzoa, Phylam: Chedrafa, Sub-Phylam: Crantina. Class: Pitees, Sub-Class: Neopiurgii. Order: Microcyprini. Family: Paelitide.
Personally, I have kept relatively few species, the ubiquitous Guppy or Rainbow Fish

Fishkeeping, December 1958

(Lebistes reticulature), perhaps the most colourful and kaleidoscopic of all aquarium fishes;
the Mosquito Fish (Hereardwise formosa),
nothing to do with the island of that name
so much in the news just now, as the fish
actually coming from the eastern perise of the
analysis of the control of the control of the
theory of the control of the control of the
and the word "formosa" mening "comely" or
"handsome", various Mollicnesias. Swordails (Xiphophorae heller), and several Pluties
and hybrids of them.

My experiences with all these fish are no
doubt those common to other aquarius.
They all make good community fish and are
swell as to each other.

The sole exceptions, among those species
that I have kept, are male Swordnaits. If a
number of these are kept in a tank one always
seems to become the "boss"—hounding the
other makes into a corner of the aquarium,
depriving them of food, and reducing them to
very poor specimens in a short space of time.
Any of the control of the control of the
converge fish, dorting "hither and thither"
callweining the aquarium secre a lot and, to
my cost. I know what magnificent jumpers
Swordnaia see.

Mollies and Platies, on the other hand, are
much more slowly moving fish, and a 24 × 12
× 12 in, tank of these provides a truly restful
pricure. I find that they do very well with
Angel Tisk (Premophilan concke), which are
also gracult, also-moving fish,
For several years I have kept my livebearers, as indeed most of my fishes, at a
temperature of 68-70 deg.F. and they do very
well; colour and size being equal to a reI blave seen maintained at higher temperatures,
and the colour of the provides a truly restful
I have seen maintained at higher temperature.

I think, however, that they breed less often,
and that each broad my the femperatures,
well: colour and size being counters.

Water Conditions

Water Conditions

The fish are not fussy as to hardness or rII value of the water, but Mollies do much before with a teaspoonful of common fall iscollars with a teaspoonful of common fall iscollars. When the substitution was to be substituted by the teaspoonful of the added when topping up but only when replacing water drawn off, otherwise the salt concentration will become too strong and, although the Mollies may not mind this so much—alf first, the plants most certainly will, with fatal results.

Feeding presents no problems at all. These fish are omniverous. It is important, revertheless, use of the properties of the particular fish. I always grind up the prepared fooding the property of th

pass them through a sieve to obtain the appropriate size of particle. Old tea and coffice strainers are ideal for this parpose.

For some line I have mixed papitis appear with the dried food, about one part pepper with the dried food, about one food in an all certainly think that the colours of the fish are enhanced by it. Dr. F. N. Ghadially suggested using this addition to the food in Warms Liri for June 1956.

Crished water snails are a favourite food. I merely crush those of a suitable size within reach in the tark, with a pair of long-handled, flat-ended twe-creat and, as the soft mass falls the creature prosessed, catching the snail food as it falls.

Mollies and, to a less extent Platies, require a little boiled (not too softly) spirach or some algae, every day. Wheat-germ dried food makes a very suitable and easily prepared asbetinte.

Breeding is just too easy with the more popular types of inchesives, with the exception of the strain of the special part of the capression; if one desires to maintain a good strain, or to experiment with deliberate hybridization then great care is necessary. The majority nature in six to 12 weeks and a female may become fertilised before one has decided its sex and segregated it.

I have observed that the larger and, therefore within limits, the older, the female is a substrained on the substrained of the substrained

DECORATIVE PLANTS AND TROPICAL FISH



D. J. Robinson's layout described by LAURENCE E. PERKINS

ANY aquarists keep fish efficiently and are successful in their attempts at breeding various species but not all are able to combine efficiency with beauty or artisty in their fishroons or fishhouse. South East 1. Godonson or fishhouse. South East 1. Godonson or fishhouse. South East 1. Godonson or fishhouse arbour by combining the eitheration of indoor plants with his fishroom into a floral arbour by combining the eitheration of indoor plants with his fishkoeping hobby. The room measures only about 10 feet by 10 feet and, apart from the practical limitations this impress upon the use of a comera in any attempt to capture the effect disaplayed, it and perfuse the composition of the atmosphere and perfuse the proposition to composite the atmosphere with the conforms the visitor.

and pleasing spectacle which confronts the visitor. The accompanying drawing may give some idea of the general effect of the main feature which comprises a framework consisting of a top-section for plants, a 58 in. × 16 in. × 16 in. Iuraished aquaritum immediately below, and an 18 in. × 10 in. × 10 in, fornished aquarium an 18 in. × 10 in. × 10 in, fornished aquarium (Sampgadie or African Violets, Chiorophysian (Sampgadie or African Violets, Chiorophysian

species and ferns) stand on sheets of expanded aluminium which, in turn, rest upon trays of water, each plan-toot being watered by means of a rylon wick protruding from the pot bottom down and into the trays.

The aquarium is most attractively furnished

Mr. Robinson standing beside some at the decora-tive foliage which flowrishes around his tanks,



with four species of Cryptocoryne, two species of Hygrophila and Indian Ferns and supports a small community of Opaline Gouramies, Panchar homomolous, Razbora doritocollaia, a small Sucking Catilish' and a Corydoras

myeri.

The lower and smaller aquarium contains a pair of Checolate Gourannes at the moment and serves to finish off the foot of the feature. Two Grape By plants (Casus rhombodia), one on each side, climb up the front purght; the contained of the financower's from pots spaced on the floor and complete the effect of natural informality.

floor and compared informality.

On a shell in the window Polargoniums and fibrous Begonias flourish while, on another wall at a height of about six feet, more Begonias and Airican Violets form a colourful array under their own fluorescent lighting unit.

Another Set-up

The fishroom contains another framework rack which houses three large aquariums of the contain many contains the contain mixed commanities. Two of these contain mixed commanities of Dwarf Gouramies, Harlequins, young Angels, etc., whilst the third provides separated quarters for two large Cichids—a Brown Azara and a splendid specimen of Herichilay-expreguents (Texa Cichids).

Mr. Robinson started to keep fish about secon years ago with one aquarium. As his secon years ago with one aquarium. As his secon years ago with one aquarium. As his execution of the plants commenced a little later with a single specimen of Sainpaulia from which he has propagated, by taking cuttings, his present large collection. The numerous fibrous Begonias have all been grown from seed.

Well Planned

The excellent condition of aquariums and plants is due entirely to a well-planned combination of the requisite factors. Each ton's has its own heart and sub-graved filter and officially and the control of the factor of the fac

Fish Philately ******



Two-spot Wrasse

THE name Wrasse is applied to a group of brilliantly coloured marine fishes with thick, proruding lips and prominent test. Specially adapted to deal with the shell-fish which form a considerable part of their disc, they have in the throat an upper and lower set of crushing testh.

they have in the throat an upper and lower set of crushing teeth.

Wrasses inhabit coastal waters, preferring places where the scale-det is rocky or thickly overgrown. For breeding purposes they pair up and construct a nest of seaweed in which their eggs are laid.

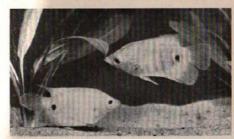
The species, Lobrus himaculatus, is one of the meast richly coloured of all Adriatic fishes. This To-dinar stamp issued by Vigoslavia shows the fish in natural colour against a background of dark grey-green. For all its gergeous colours, this Wrasse is sarely seen to advantage in the clear waters of the Adriatic, for it spends the greater part of its time larking umd the natural colour and the same continuation of the Adriatic for its spends the greater part of its time larking umd the natural colour for the Adriatic for its spends the greater part of its time larking umd the natural colour part of the Chens, the Checko Wrasse (L. exallegue), which has been the subject of considerable scientific investigation, has been found to have two colour plasses—one rad, the other very dark green or black.

JOHN WAKEFIELD

JOHN WAKEFIELD

Fishkeeping, December 1958

AQUARIUM FISHES FROM CEYLON



No. 7. Fishes of the dry zone

THE dry zone of Ceylon covers a vast area of the land in the north, north control, east and south-eastern portions control, east and south-eastern portions restricted to a single season, called the North-east monsoon, which lasts from the end of october till about February and, after that, there is a prolonged period of drought. The fish population, apart from the legoon fauma and those in the higher bills, lives in rivers for from distant monatian streams and rivers for from distant monatian streams and rivers for from distant monatian streams and acceptance of the stream of the stream and the stream of the stream

Adaptation of the Fauna

Adaptation of the reason

The fish life of this region has, accordingly, adapted itself with man's works. In very acceptance of the record from now, but there is no way of proving this point.

Generally speaking, the fishes of the dry cone are exceptionally hardy, fast-growing, prelific and adaptable to varying conditions of temperature, pH and oxygen content. They can stand crowding to a considerable

by RODNEY JONKLAAS (Ceylon)

by RODNEY JONKLAAS (Ceylon)

degree and survive in very foul water. A few can hiberrate in the mod during a severe an hiberrate in the mod during a severe to the property of the property of

Fishkeeping, December 1958

mean-made lakes, they are now common in the chy zone.

Resherd duricomiae, of course, is the most abliquitous fish in the fresh waters of Ceylon and it is felt that its meet satiable hisbitatis the chy zone. With the exception of this fish, most of the apecies in the first list are found only in the dry zone, rarely elsewhere unless transported apecially by human agency list. The propose of the apecies in the first list are found only in the dry zone, rarely elsewhere unless transported apecially by human agency list. His maximum size is three targets of the proposed of the region. Laubeau laubeau is a recently exported backer, ponds, etc. outside the region. Laubeau laubeau is a recently exported backer, ponds, etc. outside the region. Laubeau laubeau is a recently exported backer, ponds, etc. outside the region. Laubeau laubeau is a recently exported backer, ponds, etc. outside the region. Laubeau laubeau is a recently exported backer, ponds, etc. outside the region. Laubeau laubeau is a recently exported backer, ponds, etc. outside the region. Laubeau laubeau is a recently exported backer, ponds, etc. outside the region. Laubeau laubeau is a recently exported backer, ponds, etc. outside the region. Laubeau laubeau is a recently exported backer, ponds, etc. outside the region is the laubeau laubeau is a recently exported backer, ponds, etc. outside the region is the laubeau laubeau is a recently exported backer, ponds, etc. outside the region is the laubeau laubeau is a recently exported backer, ponds, and ponds and po

The Blue-tongued Skink is one of the best-natured lizards I know. I always have several in the collection—they live for many years and become very friendly. Young sportners are sometimes rather 'wild'—they puff themselves up, opening their routins and lissing—but they very some become tame. They are intelligant lizards, or the properties of the parameter of the parameter of the properties of the properties of the properties of the parameter of the properties of the propertie





Lett: Stump-tailed Skink (Trachysaurus rugosus), enother lizard that is tecommended for bogin-ners to lizard keeping.

Blue-tongued and Stump-tailed Skinks

THE Blue-tengued Skink is one of the largest of its group, adults measuring between 18 and 24 in, in total length. The tental accounts for only about a quarter of this length or a third at the most. Its body is clongated and the head large. As can be seen from the phetograph this lizard, like the Stump-tailed Skink, has very sentil timbs in relation to the largest control of the second of the second of the largest control of the photograph this most of the second of the sec

The general appearance is clearly shown in the photograph.

I strongly recommend this species also, and both it and the Blue-tongue make ideal introductions for the beginner to the keeping of batteriolical topples.

Substituting the properties of feeding and housing apply equally to the Blue-tongued Sciele, which lies well in company with the Stamp-tail. Young specimens will accept the usual animal feed—gentles, Earthworms, mealworms, etc., but adults are generally too

evidence when the lizard is feeding or drinking.

This species is strongly recommended for its lardiness and docility and it is a firm favourite ranning collectors.

The sturtly Stump-tailed Skink reaches a total length of 12 to 13 in. Its tail is very short and lat, and the creature is covered by thick seales so that it resembles a long from the state of the photograph.

The vivarium should have a good depth is about 1 in lines as they drink cannot be present at all times as they drink cannot be present a present a present and pieces of bark hick seales so that it resembles a long from the state of exercising the photograph.

The vivarium should have a good depth is about 1 in lines as they drink and to list a small on the bottom. A water dish must be present at all times as they drink and to list a small on the bottom. A water dish must be present at all times as they drink and the shall should have a good depth about 1 in lines as they drink and the bottom. A water dish must be present at all times as they drink and the bottom. A water dish must be present at all times as they drink and the bottom. A water dish must be present at all times as they drink cannot be present at all times as they drink and the bottom. A water dish must be present at all times as they drink and the bottom. A water dish must be present at all times as they drink and the bottom. A water dish must be present at all times as they drink and the bottom. A water dish must be present at all times as they drink and they drink and the bottom. A water dish must be present at all times as they drink and they drink and they drink and the bottom. A water dish must be present at all times as they drink and they drink and

be made very attractive indeed.

Easy to Kerp

These large. Skinks are costly to purchase initially, but I have found that, in the long run, they are much cheaper than smaller izards. This is because, if kept in the simple surroundings described and provided with adequate handless described and proving and \$200 dug. F. at hight—they are provided with incomparisons. They quickly get to know their owner and become very foundly.



Ctors-sections of the skin and scale from a non-parental Pompodeur Fish. Left — centre of scale and right shows the scale lip.

BREEDING POMPADOUR FISH

What the microscope reveals

by ROY & GWEN SKIPPER

Nour last article on breeding Pompudour Fish (Sympkysodon dircies), which appeared in the April 1957 issue, we told of the help given by Dr., Gwynge Yevers, M.B.L. and Dr. W. H. Hildemann in furthering our research work

with the described the anazing difference some others the scales of the brood parent file. We then the scales of the brood parent file. The scale of the brood parent file that the scales of the brood parent file that the scale of the brood parent were compared under a high-power microscope. Scales were sectionalised by Dr. Hikkemann and several dozen sides were made. These were photographed; the results were highly

successful and comparative photomicrographs are here shown with Dr. Hildemann's com-



Cross-sections of the skin and scale from a parental Pompadour Fish. Left - centre of scale and right shows the ilp of the scale.

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The Scirsoctail (Rusborn trilineata), a media

VARIATION AMONG THE RASBORAS

Distinctive tropical fishes of widely differing size and appearance

By D. B. McINERNY

PISHES in the Rathers Genus difference or a second could be a beginner can hardly believe that hardequin Fish is closely related to Renderal disease as their size, coloration and habits and so that hardequin Fish is closely related to Renderal disease as their size, coloration and habits are so that the size of the s

Myriophyllum or Cubomba.

Usually the following morning the male will

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drive the female near these pions of app and when sufficiently exclicted, the pair press against each other and the fertilized ergs are suggested. On some occasions I have witnessed both fish close to the sand in a front corner of the tank, here they press close to each other and, with the pair trembling alphity, the eggs are laid and fertilized. The current in the water has been according to the control of the control of

Large Spawnings

Spannings can be enormous and, though quite a few eggs may fungus, ample will hatch out in a forther two days. The parents having been removed after spawning, the great number of fey will require plenty of Infusoria if all are to receive adequate rations. They are

L. E. Perkins photograph of Rash



701

700

not difficult to raise, and will be \(\) in. long in three wocks.

Before going on to the more interesting medium group. I must mention the Scisson will grow to the lange. I have been interesting the lange of the lange. The lange of the l



Rasbora borapetensis, a species relatively new to aquarisis. R. Skipper photograph

Ranbora borapetenss, a species relatively new to aquorists. R. Skipper photograph.

Georgical September 1, 1982 of the species of the larger species.

Arieng the institutionated Rasboras, I aloue the species as R. heteromorpha, R. nacadeta, leaded R. horapetensis (which, incidental Rasboras, I aloue the horapetensis (which, incidental Rasboras, I aloue), R. Ieptasoma, R. pauriperforate, and R. deristicular. These four species are more difficult to induce to spawn; they require soft water, of approximately 20 p. p.m., and a plan fish in shape, being almost as deep as they are long. Thus many more can be kept if a small tensis and, not being such speed-ind, are more restful to watch.

To be to desproy the part of fish, but do not be too disapported if they strength of the part of the part

sandwich box, or divided tank can be quite bare. Fill to a depth of 4 in, with extremely soft, brown, pearly water at a low pH, so that it so on the acid side of the sedle.

I have bred these fishes in water of a pH of 6.8 and in many lower stages right down to 4.0, so 1 am convinced that, so long as the water is not alkaline, the actual pH is immaterial.

Now drop into the water a freshly boiled rylen mop (explained in my October article) and allow this to lie sideways on the bettom. Fix the temperature at 80 deg.F. and place in the condition of the fixed representation of the round in the pond are so that the place of the condition of the fish and how soon they settle down.

With R. moraling there is a curious matter place with the median of the pond are settle down.

With R. moraling there is a curious matter place.

to the condition of the fish and how soon they settle down.

With R. maculate there is a curious mating that I have never seen with any other fish. The male will close to the side of the famake that I have never seen with any other fish. The male will close to the side of the famake of the fine of the famake that the fine of the

R. arophthamas spawns above the mop, and the male does not wrap its body round the female as just described but merely makes very close contact with the lower flanks and sides of the belly.

consider as Just described bit merely makes very close contact with the lower flanks and sides of the control o

WATER GARDEN

Ensuring colour all the year round in the pond area

by J. STOTT

WATER garden can look drob and colourless in the Winter season unless they are taken to overcome this by including in the planting scheme subjects which are provided to the planting scheme subjects which are provided to the planting scheme subjects which become they seen. The Autumn colour should be stretched out as long as possible by using these plants which bloom in the very late Autumn, which bloom in the very late Autumn, which have coloured hereis are in the half of which have coloured hereis are in the half of which have coloured hereis are in the half of which have coloured hereis are in the half which which have coloured hereis are in the half which which was the subject to the half which will be the provided of the surround.

There are a few plants that are late Winter-flowering and some of these may be introduced into the near vicinity of the waterside if the right conditions are made for them. The lay Spring bulbs should also never be overlooked.

Useful Evergreens

Useful Evergreens

Evergreens perform a useful service for they really come into their own during the Whiter months when the competition from colourful flowers and other foliage effects is no longer there. This is one of the reasons included into the planting scheme of every water garden.

Even quite a small set-up will benefit from the inclusion of one or two suitably-sized evergreens such as one of the miniature confliers, Jumperus communis compressa or the small Cupressay, Channey pairs obtain miniature confliers, Jumperus communis compressa or the small Cupressay, Channey pairs obtain miniature of the small cupressay, Channey pairs obtain miniature with the winter but, of course, blooms in May, Some of the smaller, variegated Conifers with their gold or yellow leaves look well as a contrast to the green and grey-green varieties, especially if they form background planting to the water garden. Channey-parts pinigen tilliers areas is a field above for souch a position and will eventually achieve a maximum height of

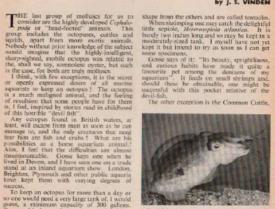


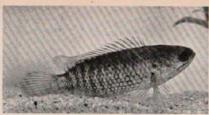


Fishkeeping, December 1958

OCTOPUSES AND CUTTLEFISH

by J. S. VINDEN





Climbing Perch-

the Fish with a Wanderlust

by DIANE SCHOFIELD

OST of the common aquarium fish are only too happy to stay in whatever tank the Clinthing Perch (Anabas serialment), the Clinthing Perch (Anabas serialment), the Anabastiske Family, the Anabastiske Family, and the Anabastiske

Protective Colouring

During these sojourns between ponds they are vulnerable to attack by all mariner of land animals, so Nature has equipped them with a dirty-shaded prosective colouring. This colour is only a little lighter toward the belly and the fins are drash to liyaline.

Since Climbing Perch are found in the turbid

Used as Food

Not the least of the Climbing Perch's predatory land arimals is man. In Ceylon, India,
Malaya, Siam, Southern China, the Philippines
and the Inde-Australian Architectage where the
Climbing Perch abounds, they are caught and
sold as a staple food fish. So that the fishpedidler's customers may buy their fish really
fresh, the Climbing Perch is carried from
customer to customer. If the fish is lucky, in
may receive an occasional spirituding of water.
If Dusiness is slow it may be kept out of water
If Dusiness is slow it may be kept out of water
If business is slow it may be kept out of water
If business is slow it may be kept out of water
If business is slow it may be kept noted the
With its surroundings being kept moist the
Climbing Perch can survive for several days.
This is possible since it is dependent on its glid
point to a very slight degree. The auxiliary
treatting mechanism is more highly-developat
than other arembers of the Family, Anabastike,
The mechanism is used both when the fish is in
the air breathing atmospheric oxygen and as
an sid to respiration when the fish is in
the air breathing atmospheric oxygen and as
an sid to respiration when the fish is submerged,
the Climbing Perch will drown if a covering is
put on the top of the water so that it cannot
reach the surface for a breath of air, it cannot
reach the surface for a breath of air, it cannot
reach the surface for a breath of air, it cannot

Naturally, with such a large mouth, the Climbing Perch should not be put in with fish that could conceivably fit into such a mouth since the Climbing Perch is largely carnivorous. Any of the meaty foods such as Earthworms. Write Worms, mealworms, or small pieces of bed or liver will suit its appetite very well intend.

Tolerant Species

Anabas testudineas seem to be an amazingly hardy and healthy fish. I have had a trio to make and two females for the past five year, the trion of the past five year. I have that a trion this time. Although their tank mates have occasionally been plagued by White Spot, the small parasites were apparently unable to gain a footbold in the tough leathery Rides of the Climbing Perch. The formales have reached a length of eight inches but the male is two inches shorter. Whether this is a characteristic of the male or an abnormality of this particular fish I ceuld not say.

Strington of the strington of the particular fish I ceuld not say.

Strington of the particular the product of the male or an abnormality of this particular fish I ceuld not say.

Strington of the particular the particular the product of the administration of the particular them are the product of the particular them are the particular than the product of the particular than the particular t

through its gills alone, but with the two breathing arrangements working together, it can live in unbelievably lifting water and thrive in temperatures up to \$8 deg.F. when most of the available oxygen for other fish is driven out. On the other hand *trabust restaultness will do well down to \$6 \$6 deg.F.

Although the colouring of the Climbing Peers have not been counted with the colouring of the Climbing Peers have not sound very attractive fish. Theirs is of the streamlined shape of as the body and rounded to a blunt end. There is a kep on the terror in a very unlishlike smile at the front of the head.

There is a very unlishlike smile at the front of the head. There is a large mouth to the head. There is a large mouth of the head is a very unlishlike smile at the front of the head. There is a large mouth of the head is a very unlishlike smile at the front of the head is not a very unlishlike smile at the front of the head is not a very unlishlike smile at the front of the head is not a very unlishlike smile at the front of the head is not a very unlishlike smile at the front of the head is not a very unlishlike smile at the front of the head is not a very unlishlike smile at the front of the head is not a very unlishlike smile at the front of the head is not a very unlishlike smile at the front of the head is not a very unlishlike smile at the front of the head is not a very unlishlike smile at the front of the head is not a very unlishlike smile at the front of the head is not a very unlishlike smile at the front of the head is not a very unlishlike smile at the front of the head is not a very unlishlike smile at the front of the head is not a very unlishlike smile at the front of the head is not a very unlishlike smile at the front of the head is not a very u

Rarely Bred in Aquaria
Linfortunately there seems to be a recessary
element missing in their tank life when it conse
to spawing. Rarely have the Climbing Perch
been spawned. Those who have seen them
spawn say that there is no bubble next as most
other Labyrinths build; instead the eggs float
free until they hatch in about 24 hour. The
parents take no part in blowing the eggs or
acting for the bubbles in any way. The fry hang
at the surface until their egg size is absorbed
and then assure the toosal gas ce is absorbed
and then assure the product of the first
first, do not fail to do so. No other aquarium
species can provide you with so much entertainment over such a long period of time.



The Climbing Perch (Anabas iostudineus) emerges from the water for a breath of atmospheric air.

Long-lived Paradise Fish

Long-inved Paradise FISH

V. E. CLAPINSON of Lendon, S.W.17.

Whas a Paradise Fish (Macropodia operators), now in its cighteenth year, 1 still retains full colouring and, despite being kept in a colourate rank in a greenbouse, even in 1958 it built a bubble-nest.

The fish was exhibited at a National Aquarists' Society's show some six years ago.

BUSY SEASON FOR FISH IMPORTERS



P. MILLET gives a selection from the tropical species among recent arrivals

Varying Development

The development of these organs varies with the species. It is simplest in the Indian Paradise Fish (Manyopodus capanus dayi) and most highly developed in the Climbing Perch (Manyopodus capanus dayi) and most The pressession of the labyrinth organs leads to one special requirement of these species that to ene special requirement of these species that is sometimes forgotten by even experienced equarists. This is that the air above the water should be huntil, and as warm as the water should be huntil, and is warm as the vater itself. These conditions are easily provided so

THE last few weeks have been busy ones from the point of view of our importers, for not only has the seasonal rush in the cummoner torquical fishes begun, but conditions have been favourable for the bulk import of the seasonal rush in the cummoner torquical fishes have, arrived and unrettee of Labyrianh fishes have arrived and unrettee of Labyrianh fishes have arrived and month! Managerical fishes have arrived month. Managerical fishes have arrived month fishes a fishes a fishes a result. This applies particularly to the Checolate Gourant (Opharichtery) copies of this simple precuation. Analysis of the percentage of the sample precuation. There fishes have a result of this simple precuation.

There fishes have, in addition to ordinary gills, accessory breathing organs that resemble primitive luings, and all the species of the simple precuation. There is another point about these fishes that the precision of the probability of the control of the simple precuation.

There fishes have, in addition to ordinary gills, accessory breathing organs that resemble primitive luings, and all the species will be a fished to the control of the simple precuation.

There fishes have a result of the simple of the simple precuation of the simple precuation.

There fishes have a result of the simple precuation of the simple precuation.

There fishes have a result of the simple precuation of the simple precuation.

There fishes have a result of the simple precuation of the simple precuation.

There fishes have a result of the simple precuation of the Provide Best Conditions

There is another point about these fishes that it worth stressing. Many people seem to think that, because they have accessory breathing organs, they can be keep in focil water, and grossly overcroweded. While this is true to a certain estain, it is not a practice to be recommended, and nearly all the species will do better in the stress of the stress of the property of species. The water and provided with plenty of spece. The water and provided with plenty of spece. They are a provided with plenty of spece. They are them successfully and grow them on fast.

The nest-building habits of these species are too well known to describe here, thought one or two of the fish are mouthbreeders.

Tresent imports include the well-known Present imports include the well-known to the strength of the strength

Fishkeeping, December 1958

distinction of being the first tropical fish ever to have been imported to Europe alive.

Also on the market are true Albiano Paradise Fish. This variety, which was first introduced about 25 years ago, is cream coloured with babout 25 years ago, is cream coloured with about 25 years ago, is cream coloured with about 25 years ago, is cream coloured with being the point of the aggressive behaviour of the ordinary Paradise, and can be kept with other gentle fishes and can be kept with other gentle fishes. The former of the ordinary Paradise, and can be kept with other gentle fishes and the moment: the Black Paradise of the proposed of the proposed of the first the moment. The Black Paradise of the proposed of th

Variety of Gouranies

Variety of Gouranics
Gouramies of various sorts are in good supply, and 1 have seen some exceptionally good dwarfs. Coller Ialia. While a cermion sheer beauty and colour, a male in good condition is hard to beat. Opaline or Cosby Gouranies some to temore plentifiel, and are rather more attractive than their ancestor, Trichiquater intellepairs.

Also included in recent imports are some more Checolate Gouranies. While this fash ones of the condition of the condit

specimers will cut dried food.

Sexing Difficult

The fish usually seen is a pinkish variety of the book of the second of the se



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and, owing to their present searcity, should be well worth breeding.

Doarf Cichilds

Last mouth 1 mentioned, that some new Dwarf Cichilds were expected. At the time of writing one of these has arrived and is, at present, offered as Pelmatochronic species. It has not yet developed its colour but, even this stage, one can see that it is "different".

Some mentions ago I described a new un-some mentions and the present of the community tank.

CRYPTOCORYNE LONGICAUDA



A plant which dislikes direct sunlight but needs ample growing space

by Dr. H. C. D. de WIT

THE great island of Borneo is the natural haunt of many attractive species of Cryptocoryne. Some of them are sub-found in the Malay Peninsula or on Sumatra but the majority are confined to Borneo. Quite a number are insufficiently known and lew, I may add, are still undescovered. One a lew, I may add, are still undescovered. One of Colorado Boccari was an excellent experience and plant-collector. He was an Italian who

to Beccari's piants, among them the Cryptocorynes.

In 1879 Engler published, in an Italian horticultural periodical, the description of Cryptocoryne Inogicanda, which he had copied from Beccari's notes or, rather, he made the description from a drawing of the inflorescence found in Beccari's papers, and from some citings concerning the leavet made by Beccari when he found the part of the first he had been unable to preserve a specimen. That was all.

No Rediscovery

Later on Beccari's drawing was published
(1883) but nobody was able to add any more
data to the seart information given and there
seemed to be no collector who succeeded in
rediscovering the plant.

In 1982 the Botanie Gardens at Begor
formerly Buthenorup, Jassa, Indonesia, sent
me for trial in acquaria, all the living
Cryptocorpor available. Among them were
time specimens of an unknown species grown
for many years in the Gardens. The plants
had been gathered by a Dutch expolition into
Borneo.



Cryptocoryne longisauds. a - flowering plant, b - flower just before opening, c - the opened kettle of the flower, and d - a stigma.

These plants were successfully introduced to Holland. They are now becoming increasingly propular on the Continent, and I have seen fine specimers grown by Eraglish aquarists as well. I tried to name this species but the leaves of Cryptocoryne are so variable that, unless one is throughly familiar with the species beforehand, it is often hardly possible to identify a plant with certainty until flowers are produced.

Very fortunately, a Dutch aquarist Mr. W. Velklutzen, succeeded in obtaining several flowers and then I was able to establish the identity of our plant:—Cryptocory ne longicuada Sec. et Engler.

It was a fine earnple of the valuable hapted the neural mobby can give to solve puzzles in plant systematics. A full description could then be made and a beautiful plant was added to the aquaties autinable for aquarium purposes.

Rules to Follow

Cultivation is easy but some rules have to be cloudy observed. First of all, never expose your Cryptocerystic states of all, never expose your Cryptocerystic states of a support of the control of the

rapidly.

A good number of well-developed cryptocoryne longicanda specimens in the middle of the aquarium, either along the sides or in the centre of the tank, makes a fine display.

For Your Bookshelf

DR. HOBART M. SMITH ets the tone of this excellent little book with these words, "Snakes are the world's most excellent side to be a sound on the sound of the so

* By Hobart M. Smith. 80 pages, 24 illustrations. All-Pets Books Inc. 11 25.



The Editor does not necessarily share the riest of correspondents.

Breeding Daphnia

Siz.—By our flath issue was printed an article by Dr. F. N. Gabadally or the keeping of Daphnia the by Dr. F. N. Gabadally or the keeping of Daphnia the by Dr. F. N. Gabadally or the keeping of Daphnia the method I adopt.

Two years ago I started with a small causalty of Daphnia which was put in a small tark (18% 8) 5.32. There is no aertistic in the totals and common the properties which was put in a small tark (18% 8) 5.32. There is no aertistic in the totals and common the properties with a window show the state.

I feet the Daphnia on a dried lettice leaf during the Winter. On this diet they common grade the month the tark is often covered with its end conce a week for my 14 fabre. I believe that what can be inclined by the conce a week for my 14 fabre. I believe that what can be inclined in the printer of the printer of the correct of the printer o

"Key to Game and Commercial Fishes of the Province of Quebec".

There is tho a theory that "mudeilunge" in its many apollings (trashellunge; and some old ones many apollings (trashellunge; and some old ones mancalones, music turney) of certified from old mancalones, music mapped of certified from old mancalones, the theory of the these are marely further corruptions of "maskinongs" may be borne out by the lack of definite promunication or spelling and by my observation that "musicalongs" was demanded to the contrast of t

Fishkeeping, December 1958

the specimens agent by Mr. Dobbs were forestried to Mrs. Frances Petry, F.L.S., and she "It is not a very common occurrence for the Madagescer Lace Leaf Plant to flower in this country but I know so me in boom in Germany and we once had flowers at our numery before "Mr. Dobb) flotter reises everal interrupt points and I nete that he questioned how the plant could have become pollutated bereath points and I nete that he questioned how the plant outled have become pollutated bereath points and I nete that he questioned how the plant outled have become pollutated bereath points and I nete that he questioned how the plant outled have become pollutated bereath when the plant is self-fertified when the plant is self-fertified while the plant is self-fertified while till in a bod stage and gradually seedlings while till in a bod stage and gradually seedlings while till in a bod stage and gradually seedlings while till in a bod stage and gradually seedlings while till in a bod stage and gradually seedlings become and the plant is self-fertified to the correct of the flower which have done the same thing. These germanated and produced small tubers right in the centre of the flower which still had pottals.

The colour of the stern and trumpet is white the transport of the stern and trumpet is white the transport of the stern and trumpet is white the transport of the stern and trumpet is white the transport of the stern and trumpet is white the transport of the stern and trumpet is white the transport of the stern and trumpet is white the produced of the stern and trumpet is white the transport of the stern and trumpet is white the produced of the stern and trumpet is white the produced of the stern and trumpet is white the stern and trumpet is white the produced of the stern and trumpet is white the produced of the stern and trumpet is white the stern and trumpet is white the produced of the stern and trumpet is white the stern and trumpet is white the produced of the stern and trumpet is white the stern and trumpet is w

Sin,—May I give my fell support to the view expressed by Mr. Dornald Sprigal of Vancouver in the August session on the subject of so-cilled support to the view expressed by Mr. Dornald Sprigal of Vancouver in the August session on the subject of so-cilled support of the leaves of the subject of so-cilled support of the subject of the subject of so-cilled support of the subject o

Fishkeeping, December 1958

In aquaria we provide such conditions that it is possible to maintain and grow opposite plant in a possible to maintain and grow opposite plant in a possible to maintain and grow opposite plant in a possible to maintain and grow opposite plant in a possible to maintain and grow opposite plant in a possible to maintain and grow opposite plant in a possible to maintain and grow opposite plant in a possible to maintain and grow opposite plant in a possible to maintain and grow opposite plant in a possible to maintain and grow opposite plant in a whole constitution of its possible to maintain and grow opposite plant was a possible to maintain and grow opposite plant was a possible to maintain and grow opposite plant was a possible to maintain and grow opposite plant was a possible to maintain and grow opposite plant was a possible to maintain and grow opposite plant was a possible to maintain and grow opposite plant was a possible to maintain and grow opposite plant in a whole consequent plant in a whole consequent plant in a whole capped to the proposition and the plant in the possible to maintain and grow opposite plant in a whole capped to the proposition and the plant in the possible to maintain and grow opposite plant in a whole capped to the possible to maintain and grow opposite plant in a whole capped to the possible to maintain and grow opposite plant in a whole capped to the possible to maintain and grow opposite plant in a whole capped to the possible to maintain and grow opposite plant in a whole capped to the possible to maintain and grow opposite plant in a whole capped to the possible to maintain and grow opposite plant in a whole capped to the possible to maintain and grow opposite plant in a whole capped to the possible to maintain and grow opposite plant in a whole capped to the possible to maintain and grow opposite plant in a whole capped to the possible to maintain and grow opposite plant in a whole capped to the possible to maintain and grow opposite plant in a whole capped to the possible to



Problems Answered

Hamentous Alga

Have a longer tropical agnerium (48 × 18 × 15 in.) set up in my school. It is illuminated by two downs that poon he are, to a poor. The plants are three months a translation of the most are three months a three-like days has manipuled appearance in the months a three-like days has manipuled appearance of the months a three-like days has manipuled by grateful for you could suggest a ways of gesting 4. The months are the months are the months and the months are the months are the months and the months are the mo

Common Tood

I have a young Common Tood (2) in, long) which
I have a young Common Tood (2) in, long) which
I have kept store April. It has been very contented
but may it is shoung found under the sim of the
but should be to the content of the content
but should be prove bearingle to keep the creation
and, would it prove bearingle to keep the creation
indoors. I (Miss M.L., Presson).

It would appear that the loud is attempting to
liberants, in Nature this would be the time when
holes in the ground, in holden dogs, basenasts of
houses, etc., to get away from the frost.

If you feet that your specimen is in good
condition, and has fed well, we would advise you
place (4s for a tottose) such as a greenhouse,
garage, collar, or aled.

Give it something to burrow into, and it should
remain there until next Speing. Alternatively,
forsted list, in a bed of dampsh leave or most.

If this tood is brought indoors throughout the
divine it, is should be keep warm and active, and
must be fed throughout. Havever, we do not
devise this, as it is contany to the creature's nature.

Judges for the Olympia Show

and thoroughly claning the rank.

We suggest you fry to control the growth. This can be done by using a thin stick, one ead being placed in the aige. The other twinted between the size in the clans of the control of the size in the clans of the control of the size in the clans of the control of the size in the clans of the control of the size in the clans of the control of the size in the clans of the control of the size in the clans of the size in the clans of the clans of the clans of the clans of the size in the clans of the clans of the clans of the clans of the size in the clans of the clans of the clans of the clans of the size in the clans of the clans of the clans of the clans of the size in the clans of the clans of the class condition with the existing leading.

Outdoor Breeding of Goddha!

I have a lake (an oil grown) pin of about 4 even in extent, well sielered by surrounding treat, blood in the savand reportation to introduce of the class o

Scottish Commentary by K. A. M. Robertson

THE last two months have been the busilest on the Society against called for many years. Elithburth Aquarist Society and the S

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



Midlands Miscellany by W. L. Mandeville

TO avoid accusations of "ponching", many societies add the words "and Distruct" to their tide, the "distruct" was provided to the provided and the words and better tide, the "distruct" was provided to the p

News from the North-West by "Aquaticus"

One of the most active and successful societies for the North, the Blackpool & Fylde Aquatic Society, had the honour of seing invoked to slight special and coldwater fish at the local 'Home and Beauty' Exhibition to the blackpool society's stand covered 400 square feet on the balcony and was laid out in who sections, one being a reptice of a lounge, complete with a furnished aquariant on a wrought involved in the work flow weldom does the public victor with a furnished aquariant on a wrought involved in the work flow weldom does the public victor at the work flow weldom does the public victor and the work flow weldom does

Fishkeeping, December 1958

Mr. Sidebotham at 26 Wensleydaje Avenue, Boockpool.

Across the River Ribble the hobby is kept to the fore in Lancashret's other grant seaside resort to the fore in Lancashret's other grant seaside resort the control of the Control

well-known Landschire apparits aid that, rather than give a talk, he would peefer to another than give a talk, he would peefer to make the peefer



by H. O. MUNRO

Fishkeeping, December 1958

Club Notes & News

- on the subsect of "Chitekine".

 Markows of Linstein Major A.S. viriuel Welch
 National A.S. for the fatter society? Neverable meeting,
 where an intervenity table show was arranged with
 Linstein Major won. The judge was Nr. 1: E. Citcord,
 Dutting judgin is be two localities deemed wars by the
 Dutting judgin is be two localities deemed wars by which
 arrawered quantities on critical tables.
- The Aquarian Circle (Furest Hill), a newly-formed out, has Mr. E. A. Shaai, 34 Valentine Court, Perry de, Forest Hill, London, S.E.23, as secretary.
- The New Forest A.S. arranged a small exhibition at the Lymington Community Centre on Newtonber 29. Secretary of society is Capt. E. Howarth, Meadow End, Sway, Hame.
- See, Hills.
 Since the Walthamstew A.S. uncounful 1918 show the nockey has been eary active. A filts show was given the nockey has been expended on the present and the normal save been sense of the normal save been sense of the normal save been consistent as a result of this affort. A purp of Walthamstew members travalled to Marchester to visit. Belieth Aquation's Festiled in November. Penner of the Belieth Aquation of
- The annual disner and social evening of Aylesbury
 A.A. is arranged for December 13.
- AA, is arranged for Discontine 13.

 M. S. W. Aktim, E. BA. S. Chairman, and ciche numbers of the Federation Cruzyil attended the Nesson 123 metring of Federat AS. (Kennington) for an informal censing during which Mr. Adams presented the 13 metring of Federat AS. (Kennington) for an informal censing during which Mr. Adams presented the appear posted for the other presents of the Association of the Association
- Mr. B. GB spoke at the November meeting of Bracherd AS, when there was also a beganner wision and table those for Childla. The clarks answell disser was half on November 21 and the A.G.M. is scheduled for January 2.

 New sourciery of Thurreck, A.C., is Mr. F. G. Efford, in Durry Avone, South Ockardon, Essen.

- Belowen 20 and 60 interbers attended the 21st arriversary distance of Nottinchan A.S. on October 11 when speeches some made by Mr. H. F. Lynns, (Predictor, N. Kirchen.

 S. Christian and Mr. C. Action and merchany and transcription-training of the A.D. M. of Yeard A.S. were rejected to the A.D. M. of Yeard A.S. were rejected to the A.D. M. of Yeard A.S. were rejected to the A.D. M. of Yeard A.S. were rejected to the A.D. M. of Yeard A.S. were rejected to the A.D. M. of Yeard A.S. were rejected to the A.D. M. of Yeard A.S. were rejected to the A.D. M. of Yeard A.S. were rejected to the A.D. M. of Yeard A.S. were rejected to the A.D. M. of Yeard A.S. were rejected to the A.D. M. of Yeard A.S. were rejected to the A.D. M. of Yeard A.S. were rejected to the A.D. W. Of Yeard A.S. were rejected
 - Freight control of the Control of the Control of the November moting for Lindwid Mader A.S. The clarby charmas, and M. W. J. Weers has taken over the position with and M. W. J. Weers has taken over the position.

 - The current show season was documed at the November meeting of Bristol Cubboars: Fish Breeders Green. The society's system where adult lishes as leased to other insurbers of the Gricop will again be in operation for the 1998 fishingading season.

 - There were classes for both james and serior members at the November 4 table show of Dusstable A.S. when breaders' trooked extres were asked for and also Whete Cloud Mountain Mannow.

 - J. Mover, with accord finite of the British Assuration Precision in November 6-4 and records a special Diploms.

 6. The Dandon A.S., avanaged an intervible meeting with the Company of th

Netherlands Exhibitor Singes Best
Güppy

BiSI ish in those it not amount enhibition of the deciration of Copy at the amount enhibition of the deciration of Copy at the amount enhibition of the deciration of Copy at the amount enhibition of the deciration of Copy at the amount enhibition of the deciration of Copy at the amount enhibition at the deciration of Copy at the amount enhibition of the deciration of Copy at the Copy and th



At the B.A.F. (Manchester) Mr. C. Hill (left) of Northephans A.S. names beside his winning agains upon a history and Mr. M. Weich (right), who of Northephan, is presented by his winning embedder against the Philippagh, A. Santon.

Bristol Society's

Annual Exhibition

THERE was an increased anendarce for the Bilitol A.S. show held from Ociober 31 to November 1, with many visitors applying for membership of the

with many visitors, are living for membership of the Thre stabilities are traces (83 seasible) and best fish in show was a Bubble-eye Guddels, shown by Mr. B. J. Lychards who was a warded to Multi-David Traces (1998). The show was a warded to Multi-David Traces (1998). The show was expected by Mr. W. Hilliest and the stable of the Bubble of the stable of the stable of the stable of the Bubble of the Bubbl

Judges' Panel



har or it, were, successful established at Bristol, solution the cup which he was for the best trapical egglavers and also the traphy for the best Characters in the exhibition.

continuity P. J. Stranger (City) Services in the criticities.

Laint P. J. Stranger (City) Services (Stranger) Services (St. Stranger) Services (St. S

W. J. Burns

Readers will regret to learn that Mr. W. J. Burns

Not filled rich a well-known begeler of Face' Goldfield, diad on November? M. How first, an irransimation of the service of the service

should connect the secretary, Mr. H. N. Allies, at Poiguton.

A Social remming for members, their whose and fisterlyvan held recently by Barkenhoud A. & H. N. A Bille ince"Maren Life and Aquatical." Members of the Barkenhoud
dalst journed with Memoryhole A.S. for a viole to the
"Maren Life and Aquatical." Members of the Barkenhoud
dalst journed with Memoryhole A.S. for a viole to the
The A.C.A. Or Sough, Window A. S. way hadd in
Ordobre when Mr. H. G. Randle was calcule President;
The A.C.A. G. C. B. K. angla, those secretary, Mr. J.
Label, Barusan and Mrs. D. Kriedling, Address, Cloved,
Lory, Souke Pouge, Storgel, secretary. Meetings of the
Lory, Souke Pouge, Storgel, secretary.

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