November 1957

Two shillings

# FISHKEEPING

and Water Life



LEMON TETRAS (Hyphexiobrycon pulcheipinnis)

# PRINCIPAL CONTENTS

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A Beautiful Recessed Aquarium
Lemon Tetras

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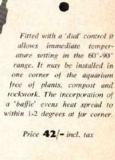
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VOL. 13 NO. 1 NEW ISSUE

# FISHKEEPING

and Water Life

New Cappy Colour. Among over 150 annual secretary for the Continent for the paper following the Continent for the paper following the Continent for the continent following the Colour following the C





in effect, D. Nichols of Southeea, Hants, hin decorative aquarium to look as the as possible, and with photographs an article on page 13 shows how readers undare his ideo. We should like to hear eithers who have cabinet aquaria of which we proud.



• Ancient Advance. Four Giant Toricites at Whipsnade Zoo recently decided to have a look at England, 1957. One—less intelligent than the others, we would surmise—lock up to the Twenty-one Years. New World Zoo · Tropical Lucebs Bred Furnished Aquarlum Trophy Erich to their sedouse and mended the wire fence through which they made their escape.



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Fishkeeping

stip of Belle Vue had been restricted to 150 and, as a result, other societies had been formed which were represented at the Dimer. This successful process of decentralization in Manchester was due almost entirely to the Belle Vue society's decision. It is doubtful whether any other cleb has had only two secretaries in 21 years, but such is the case with Belle Vue, and Dr. Wilkinson described them as "pearls of great price".



The Caada. There came a moving moment as Gerald T. Hes (scortary since 1941) received a gold watch on sacating his position in the society. In early October Mr. Hes left (for Canada to become the Director of the Montreal Zeological Part, the building of which he was not leaving Britain because he was fed up with. There is nothing wrong with this country, he said, and he hoped to extra periodically. The said was the hoped to extra periodically, which is a position of the said and he hoped to extra periodically, which is the said of the hoped to extra periodically, which is the said of the hoped to extra periodically, which is the said and he hoped to extra periodically, which is the said of the hoped to extra periodically, which is the said of the hoped to extra periodically, which is the said of th





G. J. M. Tinanerman picture of the tropical loach, Acanthophthalmus semicinctus.

to an aquarism in the shop some six weeks after they had been imported. The tank they seem to be a superior of the standard many seems to be superior of the standard with Caylocation for the standard with Caylocation feeridate. Water was from the tap, at a temperature of 76-78 deg.F. and the aquarism received meraing sanlight.

Some time later 12 youngsters, one inch long, were noticed. It was then recalled that after the Kukhis were put in they had stayed in a colony for about a week at the back of a tank

near a Cryptocoryne. Pairs of the adult fishes now (mid-October) shimmy and roll over, and maybe this is the spawning action for, although no eigh have been seen, the Schuberti Barbs nose down into the gravel immediately, possibly in pursuit of a fish eeg delicacy.

The Schuberti Barbs and Kribennis are to be removed so that the Leaches have a chance of breeding further. The pH is 7.1, and the hardness degree, 1°. Present information suggests that the lake they build a bubbble past for the eggs in unicable. No bubble nest was seen and it seems extremely likely that, had the eggs been ladd in such a pessition, the Schuberti Barbs would have made their work of them.



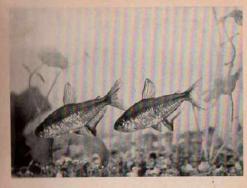


• Gerami affliction. No adverse reperishave been heard in this country about the Opaline (Cotay). Goarami referred to on page 15. In fact, by and large, it has been accepted as a rather more attractive fish than the Blue Goarami. Gene Wolfsheimer, of California, however, has found that the fish is susceptible to an unusual complaint, apparently not contagious, in which it appears that chanks of fish's body have been removed. There is no evidence of Fungus, and healthy fished get over an attack, regrowing the affected areas.



■ The year through. Twelve thoughful retainders to a friend or relative will be your reward for taking out a year's subscription to Financiarysis. And Warna Line. Begin with the Docomber issue and your gift will commence in time for Christmas. The cost is £1.50, which should be sont with the recipient's name and address. —L.W.A.

Fishkeeping



FISH OF THE MONTH

# LEMON TETRAS

decorative possibilities

A species with

RATHIR less estentiations in its colouring than some other Characies, the Lencon trans (shown on the front cover) is mortibless one of the best of the small state of the small state of the small should be small should be small should be small should be with very nearly a transport and in the small should be small sho

Fishkeeping





Magnificent Epiphyllum cactus flower photographed by L. E. Perkins.

# CACTI FOR THE FISHHOUSE

Jungle types suit humid conditions

by ERIC R. JONES

For some time row I have been asked the same question over and over again about of my aquarist friends. The question it, "Why after very careful attention not to overwate the state of the strategy of the trouble is due to disease and the severage of this trouble is due to disease and the severage of this trouble is due to the state. The other 90 per cert of the trouble adult is due to the wong type being grown in the field the start. The other 90 per cert of the trouble adult is due to the wong type being grown in the field the start. The other 90 per cert of the trouble adult is due to the wong type being grown in the field the start. The other 90 per cert of the trouble adult is due to the wong type being grown in the field the start. The other 90 per cert of the trouble adult is due to the wong type being grown in the field to the wong type being grown in the field to the wong type being grown in the field to the trouble of the start. The other 90 per cert of the trouble adult to their environment. All of an other 10 per cert is a distributed in a south-worst facing window still in the house or in a greenhouse, perferably heated.

The desert kind are usually the more than 10 per the per state of the per the state to overcome long periods of drought and, to do this, they cut evaporation down to a minimum. You will notice that the total surface area of desert eact compared with that of the other plant; this evolution is very small compared with that of the other plant to this evolution is very small compared with that of the other plant to this evolution is very small compared with that of the other plant to this evolution is very small compared with their volume, can be very large. The plant to the plant to the plant to the compared with their volume, can be very large. The plant to the plant to the plant to the compared with their volume, can be very large. The plant to the plant

12





by BONALD NICHOLS

Pir (CCIRAPHED) here is a recessed anorthm which was made to fit in the contract which was made to fit in the contract was a recess of our large living room. The contract was a room. In our case we found a room of fire, plus an electric heater at a large was a room. In our case we found a room of fire, plus an electric heater at a large was a room. In our case we found the room of fire plus and electric heater at a large was a room of the room of

Frankerping

For the fascia parel around the tank corrugated hardboard was used. On the right-hand corner a small square 6 in, x4 in, was cut out and put back again on hinges. This gave just sufficient room through which to feed the fishes. When servicing the tank there are four serves, one in each is gained. For extra effect around the tank and one of these gives excellent cover for the lattle feeding door. Cacit, also on wire fitnents, are placed on the period beneath the aquarium.

With the fascia board removed there is ample room for tervicing the aquarium.



# IMPORTATIONS OF MERIT

Star rating for a number of tropicals new to Britain

SEVERAL interesting consignments of Shikes have reached this country in record weeks, and though mony of the special ear known by repair to aquarists, most of they have been seen only in the tanks of the favoured few, or in public aquaria. Reviewers of new films, and compliers of road-books have a tradition of using from one to five action of the seen only in the tanks of the qualities of films or hotels, and one feels that some similar indications of a file! sworth sea an aquarium instante would be at valuable to a reviewer of new films, of one may bornow this convention five stars should be awarded to Ranberr stemer, pictured and mentioned by R. Skipper on page 18. It appears similar in appearance to the film described as R. Downers, pictured and mentioned by R. Skipper on page 18. It appears similar in appearance to the film descreted as R. Downers, pictured and mentioned by R. Skipper on page 18. It appears similar in appearance to the film descreted as R. Downers of the continuous films of the street of time of the continuous films of the street of time of the street of time of the street of time. Four stars should be awarded to Corydorau barbara. Although this Catfish is illustrated in a time of the street of the street of the street of time.

For a new fish it is cheap (under 10). It is active and will stand a wide temperature rain the street of the

Another country that sends us few aquarium fishes is Persia, so a new importation of the rarely seen fish Aphanias sophia is welcome. This fish is often read about, but rarely seen in traclers' tanks.

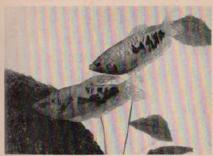
The male is an extraordinarily perty fish when in breeding condition, and an American authority classifies it as one of the most beautiful spotted aquarum fishes there are, it can be breet, but must have up to 20 per cent sen-water, or its equivalent, to ensure success. Though the prove to be a galaxy of stars if our creament or its equivalent, to ensure success. Though the transfer are on their mettle, but might equally it does not exceed two inches in length its temperament is bad, so being a poor mixture or regrefully has to award it a meagre two stars. Another two-star fish offered as a new five for a short time and then fade out altogether. This "scarfet" is one of our oldest more regrefully has to award it a meagre two stars. Another two-star fish offered as a new five for whiting much remains to be learned, for the property of the provided of

larger tank.

It is very handsome and, while reminding one of C. pelectes, it is much more boldy marked with element patients of gold and how. C. pelectes, it is much more boldy marked with element patiens of gold and how. C. pelectes has more pointed snown than most of the Catifines, and is also "moster" for its most outstanding quality is its most offer of its most outstanding quality is its most of its time in mid-water, and is more active, perhaps, than its small courin, C. hastans, in this respect.

# Fishkeeping

# Success with the new Opaline Gourami



This colour variation has proved rewarding in the breeding tank

## by MICHAEL WATSON, B.Sc.

by MICHAEL WATSON, 8.5c.

April, and of their having been on their journal in the been my almost exclusive fishkeeping an areas since I took up the aquarum historial to the process of the more used to the more used to the same took of the more of the first important in the more of the first important in the more of the first important of the more of the

Fishkseping



A closely related variety to the Opaline Gonrami is the Blue Gourant shown here. The male is the lower fish of this mature pair of fishes.

is the blue Gourant shown here. The male is the lower fish of this mature pair of fishes, shapes of the dorsal fin. The two females I removed to a separate tank, leaving the four males together. I still continued the same feeding schedule.

After another web letter coloured than the looked larger and better coloured than the looked larger and better coloured than the shade of the males to the still a superior of the males looked larger and still coloured than the looked larger and there can be superior to the still a superior of the still superior

ice. and that the filter did indeed cure these

never believed to be good, as it insurbed the fry. The remaining make now had a semewhat scattered nest above the formace into the scattered nest above the formace into the make late, one evening and almost immediately turned out the lights. Next morning the pair were fed at 7,0 a.m. on livefood and, when next I was able to visit them, about midday, the spawning had taken place and the fernale was fulfing in the thickets of Cabourba whilst the male was builty adding to the next. I removed the female and examined the nest more closely; if was a scattered affair, only one butble thick all over and with clear patches in it.

However, there seemed to be a good number

one nucere titick all over and with clear patches in it.

However, there seemed to be a good number of eggs, so I bette the mate to list stask, turning out the large light and leaving only the 25-wait toll burning during the day, but no light at all at night. By the next day the next was recommons, still only one builbel thick, but covering fully half of the 24 in. x 15 in. waier surface. If 1 approached the tank the mile would dash threateningly up to the glass and wait there, fine spread and following each movement, until 1 retired.

# Free-swimming Fry

Free-witning Fry

In three days the young were free swimming, and I removed the male and added a jar of grant and the second of the property o

distribution of the sub-gravel of the sub-gravel

When I in, long the young fishes are even motion than the adults, the space between the sub-shake marklinm being almost cream it in main length of the body whilst the head and all a ris a silver-blue. A shoel of these motions are all the motion of the sub-shake motion of the body whilst the head in all a ris a silver-blue. A shoel of these motions in the same than the shade of the same than the shade of the same than the correla Blue team, being smaller and more peaceful and the shade of the shade of the same than the same than the same on fight in the spawning which are not savely true to type.



THE Glass Angel (Gramochande Blamentatus Ladiges), a member of the ParallyAmbaustade, recently reached traders in
this country for the first time. Whitwell &
Senykala were responsible for the importation
and I understand the fish come from Singapore
although their exact habitat is not disclosed
by the collectors.

The importers state that this fish travels well
and should rival the Anshessis lisls (Cheneks
romen) for a place in the community aquartum.
A dela move the placed in a tank with
the community of the community appartum
were, in fact, quicker off the mark at feeding
time then their companions.

The Glass Angel has a transparent body
suffused with a delicate golden tone, which
reflects a turquoise-blue sheen as it catches the
light. Both exes have an attractive red marking on the now, but the male alone has the
extended rays in the dorest and marl first
these are golden in colour and one is reminded
efficiences. Themselve the distinct
it is quite a colocidence that Dr. Ludlees
though the associated with both fishes. The
size of the photographed specimen was § in.
but Mr. G. King (Hendon A.S.) reports
having seen 1§ in. long fish in shops in Hong
Kong and Singapore.—R. Skirren.

\*\*\*\*\*\*\*\*\*

# Be colour conscious in choosing tropicals

on choosing tropicals

NE 24×15×12 in. or 24×12×12 in. aquarium is not much space to play with for decorative effect but a most attractive collection of tropicals can be built up.

An important point to bear in main is the control of the property of the

# Interesting Rasbora

### by WILLIAM BRAY

have a rich ruby-red body with heavy black suffusion), Dwarf Gouranies (red markings on basic blue colour, purielarly the males). Cherry Burbs (busically red with black methods) shock body) and Pearl Denies (mother-of-pearl colouring to the body). Among the Yestow histes are Yellow Wagnil Platies, Schuberti Barts (rather larger than the other listed fishes but quite peaceful) and Lernon Telras (see front cover).

In the Black Mollies (not especially essy to keep in a community but most aquasits have a feet,). Zebar Fishes (shack hortzotal lines of the peace of the peace of the body and rather smaller) and baby Angel Fish (dark, vertical steries on a sleep show the peace of the body and rather smaller) and baby Angel Fish (dark, vertical steries on a silvery body but only suitable when small).

Both the Black-line Tetra and the Penguin Fish come into the black-line Tetra and the Penguin Fish come into the black-line Tetra and the penguin Fish come and its oven more colourful relative, the penguin fishes unduly.

Fishes selected for unusual brilliance are the Neon and its oven more colourful relative, the present time. Cilowlights are translucent with an interse red body stripe, whiles Beacons have a bright spot on the tail base and the upper liris of their eye is red.

The White Cloud Mountain Minnow, at one time known as the poor man's Neon, is at its best when half-grown. Lastly, and delying classification, is the millicoloured male



The fish known as Rashora steineri and possibly the same fish as R. boranetrasit has been keep by us for a period of several weeks in a community tank and we can report favourably on its characteristics and colouring. The overall body colour is olive with clear fits. A black line runs centrally the kength of the body with a beilliant gold line above it. The sexes are easily distinguished, the female soon assuming a somewhat round appearance (our specimens are about 2 in. long) and the male having a distinctive red cauchi fin when in good condition.

The species feeds readily on Dephnia, White

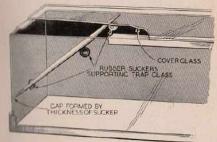
# Observations on Albino Guppies

by W. G. PHILLIPS

Havember, 1954, I received from Florida weed pairs of Albino Guppies believed in the control of the control of

Later, a pair of youngsters from this cross produced 68 fry in their first brood, including 17 Albinss cualifing the theoretical 3-1 ratio. Heakins in "Heredity" 1948. The remainder of this brood I gave to members of the Gupy Federation. One member, who adopted my method of breeding control, had 56 young fish produced, including 14 Albinos, thus also equalling the 3-1 theoretical ratio.

From the 17 Albinos previously mentioned six pairs were selected for fature breeding, and they later produced 409 Albinos in seven broods of the pairs were selected for fature breeding, and they later produced 409 Albinos in seven broods with the selection of t



I said assurances which is ideal for breeding livebearers. The gravid female is placed in the second britise flass sheet and her young fall through the gup at the buttom out of reach of the second sides of the aquarium are blacked est and this keeps the fishes happy.

contact with a male, after being placed in the illustrated trap in a clean tank, with no sand or plants, a few days before the brood was expected. The whole tank was blacked out completely with a cicht covering when birth appeared imminent.

There are a lot of misconceptions among

Cross	Number at Week Old		Number at Month O	
Albino × Grey	EYE COLOUR			
	Black	Pink	Bluck	Pink
Female 1	32	1	29	24
. 2	21	2	20	3
1 3	.26	1	22	5
w 4	29	2	25	6
. 5	-34	2	29	2
- 6	20	2	19	LOCK.

Table 1, showing the proportion of Albins to normal F2 progeny noticed in mathys in planted tanks. Some 172 fish resulted from six broods.

narmal 12 progray soliced in indings in plantic anaks. Some 172 fibr resulted from six broads fishkeepers on what constitutes an Albino Guppy. There are different kinds of albinism or gradations of colours in all species but all have one feature in commen. They all have pink eyes. Dr. Myron Gerdon, the well-known American geneticsis, writing in an American journal in 1953\*, defines the Albino Guppy as one that has practically no reclamin (black) pigment on its body and note in its eyes. The Albino Guppy is more than the practical properties of the programment of the body and note in the experiment of the programment of the programme

fish and according to the amount of reflected light.

Another misconception concerns fertility and wastering or heavily \$37 his per broad. Compare with Table 1 where broads were much analysis of heavily \$37 his per broad. Compare with Table 1 where broads were much analysis of the per many the per many that the per m

but they shrink slowly back to normal without producing a fry."

It is not uncommon for this to happen with females of other varieties of Guppy but, judging from my own experience, the remedy is the use of the breeding trap, as previously mentioned. I have found them, the three is little or no difference between them and any of the other Fancy Guppy varieties. I have had, provided they are not allowed to breed promisciously. They will thrive or die under identical conditions.

It is easier to introduce a different type of finning into the Albino Guppy than it is with a state of the fact that the Albinos back, so far, not been subjected to the constant mixing and crossing that has gone on with the other varieties ever since they were first introduced into this country, just after the first world war.

Table I shows results obtained from six Gery females, produced from the original Albino a. Grey fishes earlier referred he reddens of the content in the content in the content of the country, just after the first world war. Grey fishes earlier referred he reddens of the produced from the original Albino a. Grey fishes earlier referred by breeders of live-bearers—fanks thickly planted to provide too cover for protection of the fry. Shown also in this table is the difference in the age of the fry when these with pink eyes could be definitely recognized.

The difference in numbers of young produced on each occasion compared with the females kept in trup (Table 2) is country on should

Cross	First B	read	Second	d Brood	
Albino 31	Pigmented	Albinos	Pigmented	Albino	
Female A		10.0		142	
. 16	-	-	-	37	
. c	-	46	200	67	
" D	-	91	Died		
. E	Died	-	-		
. r	1 2 2 3	45	124	21	



Water guiden resulting from nine weeks effort by N. E. Perkins in his passe time. Even at this early stage it has an air of permanence about it

# MAKING A WATER GARDEN

by N. E. PERKINS

Illustrated by Laurence E. Perkins

broading of Farty Goldfish can, unsubsedry, prove a fascinating and absorbhabby but if, as in my own case, success this is offset by the usual difficulties used in flat-dwelling, then gradually the field becames the first of the control of the field possibilities connected all the variety possibilities connected at the variety possibilities connected at the variety possibilities connected that the control of the control of the field possibilities connected that the variety of the connected that the control of the connected that the control of the connected that the control of the cont



The unglected gardon taken over by the earbor and which he transformed in a few weeks, involved may be useful to others I will explain the approach made to the problem.

The gardon was small—some 60 ft. by 21 ft.—and would therefore requite all the artifice and curring of which I was easable if the effect I desired were to be obtained. The plan I had envisaged certailed the construction of two the strained and curring of which I was capable if the effect I desired were to be obtained. The plan I had envisaged certailed the construction of two the strained to the strained in the plan was small—strained to be surrounced by a series of waterfalls each of these terminating in shallow basins which would serve as bird-haths. The higher bond was to be surrounced by a review of the larger, lower pool.

Now, to be of any use as regards fish, a part of the strained area and I was a reasonable surface area and I was a reasonable surface area and I was a constructed of Plan and I was a reasonable surface area and I was a surface and the carried was a surface and the carried was a was sown as a call of 12 in to the yard. Once this carried was a surface and the port of the surface are surface and the was a was sown as a scale of 12 in to the yard. Once this carried was a surface and and a scale of 12 in to the yard. On

masses of stone would be required to form the waterfall, was likely to prove expensive if least of the control of the control

the most pleasing to the eye but they can take more difficult to construct than the most difficult to construct than the final rendering of sand and cerusin will be required around the start of the st

# From My Experience...

A HONG my favourite fish is the White Chaul Mountain Minnow and according to an exchange of observations with over-equivation, it appears this species is also held in high entern by fishkeepers in many vonities. It was during an exchange of observations are identical posses of White Clouds spawning in a distinguish of White Clouds spawning the male reconstity wince of the paper of White Clouds spawning the male reconstity wince of the paper of White Clouds around the female and the does the Stannee Fighter (Berta), as the beautiful of the paper of the paper

### Spanning Observed

the afternoon, whilst the sunlight was imminist the tank. I chanced to notice two the mile White Cloudes charing a female who blift dread vertically head down into a soft blanket weed. One of the males and blanket weed. One of the males and blanket weed to one of the males and blanket weed. One of the males with the work of the males and the second of the second o

the chasing. This procedure, with both males taking part, was repeated at close intervals for several minutes.

### Freshwater Pipe Fishes

several minutes.

Freshwater Pipe Fishes

In common with most aquarists I am always interested in any new species, and it was quite a day for me when I acquired two newly imported specimens of Freshwater Pipe Fish. In oppearance these fish show an extremely elongated body, encaced within a series of hard, both pipe fish show and the proposed of a pipe.

The overall length of my fish is 44 in. Their colouring is rather drab, the dark brown of the back faing to lighter underparts. A black fine extends from the tip of the snout, back across the eye, along the body to the tail fin base.

The overall length of the snout, back across the eye, along the body to the tail fin base.

The unissail spade-shaped caudal fin is black with a white edge. Given a tank to themselves the Pipes settled down to an almost continuous tellinguish greaters for food, not only among the surface plants, but also over the tank bottom.

The on discovered that two types of livefood with the control of the surface plants, but also cover the tank bottom.

The one discovered that two types of livefood with the control of the surface plants, but also cover the tank bottom.

The one discovered that two types of livefood with the control of the surface plants, but also cover the tank bottom.

The open discovered that two types of livefood with the control of the law movements used by the pipes when feeding on these two foods. The pupping were taken with a rapid snap of the day justs but, to take the Mikro, as it lay on the bottom, the first slowly pounted their jaxes into a rounded funnel shape, whilst the cheeks and throat were very clearly distended, which action suggested that suction was being applied to the surface of the pipe fishes showed them to be of a most; peaceful are directly and their tank was something to be examined from all angles !

R. W. ANDREWS

Eichkeeping



# PICK OF THE PETS

NO. 1. THE SALAMANDER

PETS which are long lived, hardy and resistant to illness, easy to feed and not come the resistant to illness, easy to feed and not come the resistant to illness, easy to feed and not come the resistant to illness, easy to feed and not come experience.

A hardy favourite which makes a good beginning to the vivarium hobby is the European Salamander (Salamandu'a), known for cesturies as the legendary first Salamander. Records of the life span in captivity got up to 30 years, and the salamandra in my com collection are still going a feed of the salamandra in my com collection are still going a feed of the salamandra in my come collection are still going to the vivarium of the salamandra in t

A New Series by Alfred Lexewher, R.Sc., on Regules and Amphiblems for the Beginner

# REPORT FROM RUMANIA



A visit to the only tropical fish shop in Bucharest

by JON MILLER

ally—to prevent degeneration—and such fishes have been obtained from Prague and Vienna. Although there is no large-scale taking purposely there, I did manage to not such as the purpose took me from Bucharest to the last separate took me from Bucharest to the last separate took me from Bucharest to the last separate took the from Bucharest to the last separate took the from Bucharest to the last separate took the from Sucharian containing Back. Sea openiment is included the Surgeous Adeptions religious of the season of the season

Fishkeeping

the Capital

May only in Rucharest that I found any
man of the finkleeping holby. In Matei Millo
diest stands the only replical sids shop in the
diest stands the only replical sids shop in the
stands to be only replical sids shop in the
diest stands to such a stand to such a
terminal to open the stands of the stands of the
diest s



A recent introduction rapidly becoming popular for tank decoration

by GERHARD W. E. BRÜNNER (HAMBURG)

DURING recent years importations have resulted in various new plants becoming available to aquarists. Water Wistaria, introduced in 1954, is doubtless the most important of these. Due to its brauiltial appearance, simple cultivation and multiplication of the properties of the properties. It was impossible to give a true identification from the submerged plant immediately in became available but, because of its Wistaria-like leaves, it was called water Wistaria. Alter flowering from serial plants was eccomplished, the Royal Botaria Gardens, Kew, gave this plant the name Symenae trifferam. This plant the name Symenae trifferam. This plant the name Symenae trifferam. This plant the line (Munich). Like Begrophia, Family and it is distributed over wide areas in the wetter tropics of Asia.

### Adaptable Plant

Adaptable Plant

R. grows as an amphibious plant and is adaptable to the change of water level ranging from flooding to sear complete dryness in its labitat. Hooker says of its localities; "On the margin of water, Bengal, very common, Assam, Fegu and Singapore". Mr. R. Schmidt, Frankfurt, who introduced this plant to Germany, found it about 130 miles north of Bangkok in Stam, in a disch growing with other water plants.

Submerged and emerged leaves are very different in seze and shape, While the smaller leaves of young submerged plants are only slightly feather shaped (pnnaach), or of at all, those of more mature stems are longer and deeply divided into numerious segments; they are primate or could be with the stamp of the plants.

The submerged leaves are up to 5 in, long, consolate which be been on the upper side and protection, being green on the upper side and protection of the plant has secending runner-like shoots.



An aerial shoot of Water Wistaria with flower buds (quite insignificant) formed in the leaf axils.

which tend to grow lying on the bottom before rising at the end.

The leaves of plants above the water surface and the leaves of plants above the water surface and the leaves of plants above the water surface and the leaves of the leaves of

Fishkeeping.

Left: The submerged leaves of Water Wistaria. Here the much segmented leaves form a rosette which is common in aquavium specimens and increases decorative effect.

Photographs and sketch by Gerhard W. E. Brisms

put violet shade. The 4 in. long corolla is nitided into an upper-lip and a threo-lobed and the local of the five acute sepals is another local of the five acute sepals is another local of the local o

interropted.

The Luglish botanist, W. Roxburgh (1759189) amed this plant Raella triffina Roxb.

In the his description was published late
1812. It cannot claim priority because a
next time before (only a few months) the
lateral trians are consistent of Nees (1776-1858), who named
the than Adventure triffine Rees, was pub-



A front view (enlarged) of the double-lip Water Wistaria flower with the stamens style projecting. The flower is a light maure colo

lished. These dates were communicated by Kew. During a later revision the Gensi Adorstrona was transferred into Cardanders Buch-Hirm Street and Cardanders of the Communication and Cardanders of the Cardanders o

Fishkeeping

flowering) we hardly can get a suitable popular title. It will be difficult to replace Water Wistaria and to find a new name. Westeria actually has no relation to a member of Aconthocee.

Surmarrising, we can say, this plant is an ideal squarium plant. Its beautiful foliage, rapid growth and easy multiplication will hardly be surpassed by any other water plant. I should like to express my thanks to the Director of the Royal Botanic Gardens, Kew, for ocerain information.

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Water Wistoria leaves showing the variation that can occur. An aerial leaf is on the extreme left, whilst the other drawings are of submerged leaves.

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by DR. F. N. GHADIALLY

by DR. F. N. GHADIALLY

TRANSPORTATION of a few or many
fishes over short or long distances during
fishes over short or long distances during
the Winter months is a problem that
requires serious thought. As a fair number of
aquariests call at my home, I have had a good
opportunity is oakly the different ways in which
we carry about our fishes.

Perhaps the most popular container for
transporting just one or two fish is the junt jurheld in place by a strong ruber than of their
quite adequate for very short jurnous, even on
the coldest days, particularly if the sum jurts placed in the breast pocket and kept warm.

For carrying a larger number of fish all sorts
and sizes of plass jurs are employed. On cold
days a serious drop in temperature era occur
in such uninsulated constainers. It is therefore
useful to start off with water much hotter than
required. The fishes are placed in the glass jar
with aquarium water at the usual temperature
(73 to 73 deg. F.). Boiling water is then added

carefully in small amounts (seeing that none reaches the fish directly) over a period of 5 to 10 minutes till the temperature is raised to about 83 to 85 deg. F.

The fish are then ready for transport. Even a 15 deg, drop in temperature during transit would now leave the fish in water at 70 deg. F., which is quite comfortable for most tropicals, while a 15 deg. drop, sy, from water at 76 deg. F., would bring the temperature down to 60 deg. F., a level which can prove risky if prolonged for a fair fength of time.

Steps should also be taken to reduce the heat loss by wrapping the glass jar in many layers of

WOODEN BON

The fish carrier suggested by Dr. Chadulty.

The four them engaged in a towel or blanket, if available, I have found such methods useful in emergences when no better method of transporting best ways of transporting falses, pear of the best ways of transporting falses, pearing best ways of transporting falses, pearing the power long distances in cold weather, is in insulated containers.

Many and varied are the designs that have

obsel by aquarists. Essentially they of a jar or jars housed in a small how, either made especially for the expectation of an example store. The life of such a size that it fits loosely with the space between the jar and the the hos is filled or lined with some

is both in his type a container of this type in word has been used as an insulating Such containers are, no doubt, the job, but unfortunately they rather heavy and charrey. It is for that I have not employed them to word.

the reason that I have not employed them to great extent.

The nose efficient, though rather expensive, for carrying fishes is the widetermon flask. There is no risk of any and the properties of the propertie

This is very simply achieved in the case of ordinary glass jars by rinding with hot water or aguarium water but, in the case of insultated constainers, it is best to fill up the constainers with moderately hot water for some period (as hour or two) prior to use, so as to allow it to warm up thoroughly.

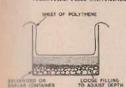
The next important consideration is pascous exchange. We are often forced to carry more fishers than a given quantity of water will be considerable to use very large containers indeed. That being so, we must provide a bigan air sufface as we possibly can. This means that (a) we must have to use very large containers indeed. That here to use very large containers indeed. That here to use very large containers indeed. That here to use very large containers indeed. That have to use very large containers indeed. The starter is to use the containers are possibly can. This means that (a) we must rever fill up the entire jar with water but should allow a substantial air space. (b) If the just reverse the container is the container to keep the water face possible. (c) If we are certain that the lift fits well and does not lead, maximum water surface possible. (c) If we are certain that the lift fits well and does not lead, maximum water on its side.

One factor which contributes considerably towards the survival of fish rowded in a smull container is the continuous movement of the water during the journey. This helps to 'uerate' the water. If the same sair is left standing on a table, fish would show signs of applyyouston very quickly indeed. The little bumps during the journey. This helps to 'uerate' the water. If the same sair is left standing on a table, fish would show signs of applyyoutson very quickly indeed. The little bumps during the journey. The point, beneficial and not harmful.

# READERS'

100 fed to poid for each published

VERSATILE FISH CONTAINER



Making a fish container of varying depth by



FRE is a tip for making serviceable as a fish container any eistern or similar receptacle. A sheet of polythen is used and can be easily folded at the corners to fit the container, neatly. The polythen strength when water is added. Its outside edges may be trimmed square after filling and tenting and tearing.

stuck down with tape to put the carring.

A big advantage is that the water depth can be adjusted from beneath and the container kept filled to the top. Polythene sheeting can also be employed in a tank that leaks.

It is not expensive and will last one or two years if not punctured by acrelessness.—(F. F. EWINGE, Salisbury, Wife.)



Peter and B. J. Upchurch muside the new fishhouse in the garden of their Hitchin home.

Turbouse in the garden of their Hilchin home.

A H', said the rallway official, at Hilchin, Herts, station, "ho's the aquarium Fellow", as I enquired the way to B. J. Urchurch's home. Such is a mark of fame in our hobby. For fame it swith Martin and the state of th

All these distincted collection of other exhibition aucesses show him as exhibiter of the best face, ordinary collection of the collection

and three was assessed as the second of the common Goldrish, got a little impatient waiting for the fishes to change colour despite experiments, and in 1938 turned his attention to Shibunkins. He held his strain of fishes during the war and took his first privac in 1946, the same year that he starred with Vellatin. Then began the chapter of estonishing show successes.

Then began the chapter of astonishing show successes.

Apart from strict line-breeding Mr. Upcharch believes one of the secrets of showing Goldfish is to train the exhibits for the occasion, taking then from their ponds or aquaria and, over a period of perhaps four weeks, getting them acclimated to the size of tank they will have at the exhibition. He experiences no trouble with water variations as he has a continuous water change system in his feshioners.

When he began in the hobby his fish

# Winning Ways with Fancy Goldfish

B. J. and P. Upchurch (Hitchin, Herts.) continue their successful fish breeding technique

accommodation consisted of two greenhouses but wide fluctuations in temperature soon decided him to build a fishhouse in its own right. This substantial structure is 17 ft. × 10 ft. and concains 20 aquatiums in three tiers with sex ponds at ground level to receive fish after and concains 20 aquatiums in three tiers with sex ponds at ground level to receive fish after and in the sex ponds at ground level to receive fish after and in the sex ponds of the sex ponds at ground level to a sex ponds and the sex ponds and the sex ponds and the sex ponds fishhouse with every facility for Goldthis breeding. It is brick built with a double apex roof, one side of which is double-glaced, the other moulated. A code to the sex ponds of the se



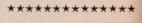
multiple. The third male is then introduced that the spawning is completed and both and these are taken out. In this way the prozency for future line that is evaluable and the potentialities of district males can be jusque. More and more statement of the statem

provide the right conditions for the developing young once they are beyond the baby stage, although all doubletailed varieties are taken into the flabilities for Wintering. Peeding consists of Rottfers inc. Peeding consists of Rottfers inc. Peeding consists of Rottfers included the received an experience of the peeding of the received an experience of the peeding of the peeding and all others receive ample quantities of Daphiela, Gloss-worms, garden worms and wheat-eperm dried food, plus a mixture of Mr. Upchurch's own making. Mr. Upchurch's show appearances came to an abrupt end in the Summer of 1951 when it has been also all the summer of 1951 when it has been for the enthusiasm of his son, Peter, recently returned from the Services, there is little doubt that his



Fishkeeping

were not quite so successful but I am some lovely youngsters growing into what could prove the foundation of a very good English-Head Scales produce fishes with a wide variety of linning although the scale character head to be a support of the scale character and the scale character with the scale character and the scale s





Lionfish

In 1951, the Portuguese colony of Mozarabique, in East Africa, issued a beautiful series of stamps decoded to the fish found series of stamps decoded to the fish found stamp, protect in pale olive-green with red lettering, depoies the renariable Lionfish, or Wingsed Fire Fish (Prevaie volltams) in its natural zebra coloration with bright red pectorals.

The Genus Pierois, found in the Indian Ocean and Pacific, belongs to the large Family Scorpanida, a branch of the Sub-brider of born-beaded Mailed-check Fishes. Species in pectoral firm, elongated for a special prine and achievating for the sub-brider of born-beaded Mailed-check Fishes. Species in pectoral firm, elongated for a special prine and achievating for the sub-bridge markings.

The Lionfish is handsomely coloured, but fishermen greatly fear its needle-like uplnes which, as in so many others in the Family, are equipped with poison-secreting plands. Sometimes reaching a foot in length, this fish spends most of its time lurking in crevices in ceral reed, mainting the prey on which it will pounce at lighting special poisons on which it will pounce at lighting special poisons been shown and described in detail on several occasions recently on R.B.C. television, notably in Dr. Hans Hass's fascinating underwater film of marine life in the Red Sea, and in a programme from Manchester's Belle Vue Zoo.

JOHN WAKEFIELD \*\*\*\*\*

Fishkeeping

FISH ENEMIES

# Great Diving Beetle

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

Ulustrations by the author



To most unlikely that an aquarist or pondtower would consciously introduce into his
took and his stock, but it is an undoubted
the many posts so gain admittance in one
to wonther. In this series of articles 1900 and
the many posts so gain admittance in one
to wonther. In this series of articles 1900 and
the many posts so gain admittance in one
to wonther. In this series of articles 1900 and
the many posts so gain admittance in one
to wonther. In this series of articles 1900 and
the many posts of gain admittance in one
to the series of the damage may not, at first
and the posts of the more
that can be taken to avoid them.
This six simply explained; the beeting
there was marginability the most troublesome pest in
the most is the Great Diving Beetle
three was marginability the most troublesome pest in
the wonth of the wonth of the wingstower than the post of the wonth of the

Ease of Introduction
The larva, or carrly stages, are as voracious the adults. They can easily be introduced as the adults. They can easily be introduced porticularly when small, either into aquarium or pond, among new plants, and the of advice, often ignored, of quarranting new plants for a few hours in a dilute solution o potassium permanganate, together with cardive-exemination of the plants in a white dish, and the only effective safeguards.

The eggs of Dynitzen are laid in early Spring in this made by the female in the stems of water plants and, if new plants are being introduced about April, great care should be taken to watch for any young larvar which may have coursed.



Correspondents.

Unusual Loach

Siz,—Among some Kulil Loaches which I secretly acquired I found one which differed considerably from the others. Its overall length is approx. 2 to 24 in, and it seems rather thinner than the others. In right, of course, be still young changing to a velvery black without any spot, or changing to a velvery black without any spot, or changing to a velvery black without any spot, or changing to a velvery black without any spot, or changing to a velvery black without any spot, or changing to a velvery black without any spot, or changing to a velvery black without any spot, or changing to a velvery black without any spot or are the doesal and anal flax, whilst the tail in shows a white rim has bears a definite black spot. There is also a white erecent-happer mark bears and the property of the

34

Members are well pleased with the results obtained after the concentrated effort they made. They consider that their efforts have been well resulted by the following results:

(a) 6.422 people attended the show.

(b) for the following results:

(c) 6.25 people attended the show the society (more than doubling the existing membership).

(c) 27 hs. 94, was donated by the public towards the purchase and installation of a furnished hospitals.

(d) The number of queries asked by the public on many aspects of fishkeeping and breedings.

on many aspects of issuecasing many people regarding the show in general.

All concerned are particularly pleased that their first effort was very successful, and it is intended to make this show an annual one in future.

Exeter. Passron (Show manager, Exeter A. & P.S.)

Club in the Trepics
Sig.—We have recently formed the Rhodesian
Aquarists' Society, the first in the country.
Within a fortnight we have about 40 members
throughout the country, and we hope to expand
later, with branches in other centres.
We have plenty of scope to catch our own
indigenous fast, to broved them and make a study
of their laborats. Attenty we have a manbee of
Child's and Carlish.
Signifying Toolsh-carps,
Child's and Carlish.
N. J. Brassyring

Bulawayo, N. J. Bernstein
S. Rhodesia. (Secretary, Rhodesian A.S.)

In least the small park ectoration. The threat has the insular plack ectoration.

The locable—after only a few days in the rank-very lively. By the way, I found my normal Kuhlis very lively in contrast to the experience of most people. This locable shearing verse from his people of the people of

Fishkeeping

having as asswered free of charge by experts.

"Banduill be sent to "Fishleeping", Dorset
bandled Street, London, S.E.1, with a

saddessed cavelope for the reply. All

the are asswered direct but a selection is

allithed here.

there is gair of Fernment Civilli. Civilisoma there is gair of Fernment Civilli. Civilisoma to 4 × 12 × 12 to a squarim, the set of the program to the form of the program of the fernment Civilian to the program of the capture project (AGS., Regered, Henri Civilian as all the capture project with its youngsters a resed of as to cipil a cels. After Intchirg, a consider the feet to keep them in a shoot after them to the feet to keep them in a shoot after them. They do not appear to molest the young them. They do not appear to molest the young that they are ready for the next.

which is a support to moint the young much the man until they are ready for the next which the young steps to the men they may be the moint for about seven to 10 days, but we feel to at the enloyment from the breeding of the man days is lost if the ceramunity life of the ball to all otherwed.

thirting in Aquarium

Add in angle-term acquarium frame and I fitted
to it using haldlers' purty. Will this
mouble home for fink?—(R.B.H., Hitchin,

the most lam would be suitable provided you and that several times. Ordinary post; we meet with and dissect oil, both of which are not small quantities. However, puty that all lead mixed into it. (I temporally the small tends to distinguize with time, so the small may leak in a year or so.

handown to the constraint of t

Problems 4 Answered

Black Widows

Coald you please give me some information on keeping and breeding Black Widows (Gymnauco)

Accepting and breeding Black Widows (Gymnauco)

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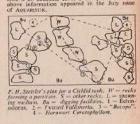
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Home Aquaria On View

The public display of aquaria by the Coventry club during Sectomber reached its usual high standard. Members bench their own home marks for this annual event, a striking example of co-operative energy that might usefully be copied by any society contribulating a show and some emphasized the values of combined aquariate angler interests by staging a section of native water allowable principles of the property of the prope

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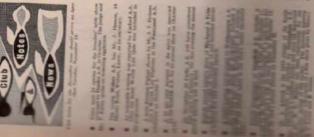
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National Exhibition

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- Mr. J. E. Rémarch, of Sarbaine, mes mode the lonocary member of Lesement A.S. slive In gr all to the adviser in the Assagns.
- Programme for the November 30 meeting of 3st and 4.5. includes a talk to cultivated Gell 7. There will be a show far main business (19thers). Members of Maritard A.S. ware entertained for show from Mr. Moreo, Smith, or Cambro at their October meeting. Count, these Gaussings Unturbus, and Bance, were present.
  - At the heginning of October Ashebury A.A.:
     a seven-class table show for coldware failer.
  - Mr. Words gove on illustrated talk on furgital appears of records meeting of Middleton A.S., saw, a provinced deconstration on Valuings is from sank, and made suggestions; for satisfied empirical features.
- The Goldfish Society's figured Cheverties at Beg was decayed by the Gerseles Cleb. Perturn H is lest monthly menting.

  - There was a comber of chaque in the office image
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    Waltimer, I factorized So. 8 classics, Fife, of the manufactory. Players at 1818 (2000) were went by Manufactory.

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- A feed illustrations therewe by Mr. C. Herritstein on the less that a thin at the Autonous achieving of Challe instein of America. Mrs. E. Scraftly Freed induced Chall was fundable squaresteen. Both enhisters regaling states a less Defenses. The Menspadies & Backshire Trended Fish Same has been been beyond earl but Mr. C. P. King, Small Onlike Street, Epits, as its organize.
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		H. H. Antient and	AQUARIUMS	PAPER AGUATIUM	ANGLE IRON
	FOODS  Queensborough Tropical Fish Food 1/6 and 2/6 Exotic Flakes 1/6 Brosiam Small 1/3 Brosiam Large 2/6	Other Soules see Col. 4.	Complete with stand and Hood (15in. to centre of bow) Inches 48 × 12 × 15 . £19.10.0 36 × 12 × 15 . £14.10.0 24 × 12 × 15 . £10.10.0	25th Rong 2006 Bath Status) Status sheer 18 Pobble Brack Uffert sheet 2.8 Bath sold at 2.3 per foot	Inches 24 × 12 × 12 50/- 21/- 24 × 12 × 15 56/- 21/- 30 × 12 × 12 70/- 35/- 36 × 12 × 15 90/- 37/- 38 × 12 × 15 90/- 37/- Carriage extra
	Brosiam Frygrain . 1.6 Brosiam Biovic . 64. Bite Small . 2/- Bite Large .	Rubber Tubing—ft. 4d. Plastic Tubing—ft. 6d. "T" Piece . 1/- 4 Way Piece . 1/- Worm Cradle with Sucker 1/6 Aqua Scissors . 5/-	complete.  36in. × 12in. × 15in.  bow-fronted aquarium with wrought iron book-case stand £17.10.0 complete.	Brine Shrimp Eggs 2,6 and 4/6 Cultures of White Worm Micro Worm Tubifex Worms 13 and 2/6	Any shape or made to specifical installations a specifical specifical and applicate order to 10/-; 1/6 up to 2/- up to 30/ China and Shells as purchaser's own risk.