November 1958

Two shillings

# FISHKEEPING

and Water Life



DWARF GOLDEN BARBS (Barbus gelius)

### PRINCIPAL CONTENTS

Nigger Barbs or Black Rubies White Cloud Mountain Minnows Young Goldfish

Newly-imported Fishes
Clawed Frog
Outstandingly Colourful Annual Fishes

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GEORGE F. HERVEY & JACK HEMS

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"Anyone with a query on any point connected with water gardens would find the answers in its pages."—SUNDAY TIMES.

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631

VOL. 13 NO. 13

NEW ISSUE NOVEMBER 1958

### FISHKEEPING

and Water Life

### IN THE SWIM

Nature Artist - Study Society's New President Worms Across the World · Continental

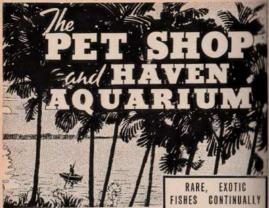
Film Programme · Plymouth Aquarium

Brine Shrimp pioneer. Alvin Seale, super-information emeritus of the Steinhart Aquarium in San Francisco, died in July this year at the up of 87. We extend our condolences to his subject to the condolence of the condolence o



miniature furnished aquaria where exhibitors are asked to bring their own 10×8×6 in. tanks. This style of miniature set-up aquarium competition has proved very popular when included in club programmes and, in January, it makes its debut at Olympia so, if you are short of plants but would like to try your skill in this most challenging field of show work, make anothy it likes A video of the control of the short of the





ophagus Argus from Fishes



ARRIVING UNSURPASSED FOR **OUALITY** 

VARIETY and QUANTITY 

12 SPRING BRIDGE RD. EALING BROADWAY, LONDON, W.5

MPORTERS AND EXPORTERS

Fishkeeping, November 1958

A few years ago the Queen Mother's triate Christmas card was of Trumpeter wars drawn by Len Fullerton.

Study conference. On October 4 the ritish Aquarists' Study Society staged its eccessful second annual conference in the ceture Hall of London Zoo. A full report of evert appears elsewhere in this issue but should be highlighted that Dr. F. N. hadially, the respected Sheffledt Riskeeper hose articles appear regularly in Psinteepron, as decord President to succeed Mr. R. d. This is an honour not lightly dimensaria by Marine procress. Reconstruction of



Marine progress. Reconstruction of the Plymouth Aquarium of the Marine Biologies Association of the United Kingdom, reposite last issue, is moving apace. By mid-Octoba-tic old Aquarium had been completely demolished and foundations for the new sewere being prepared.

• Film Congress. Some 800 aquarists from all parts of the country attended the flust annual film convention of Hendon A.S. september 20. It coincided with the 10st anniversary of the Hendon club and, over in Britain, to share in the celebrations reports of the Hendon crop fully on page 661; were 11 members of the Nymphae Society (Ghent, Belgium).

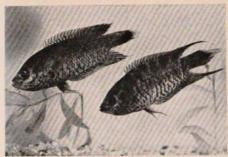
On the morning of the film convention a civic reception was given at the Town Hall in civic reception was given at the Town Hall in the State of the Convention of the



Crist reception at Henslan Twan Hall prior to the Hendon A.S. film convention. Left to right: Draw Mayorest, Twan Clerk, Dugsty, Mayor, Mr. Cove (Nympho dain tectaurer), Mr. K. Schon (Nympho dain). Mr. M. Carels (Convention lecturer), Mr. G. Richardson (Hendon's chairman), Mr. C. H. Wante (responsible for convention flime, photography etc.) and Mr. J. Schipper (Hendon's President).

Fishkeeping, November 1958

### AQUARIUM FISHES FROM CEYLON



No. 6. RODNEY JONKLAAS (Ceylon) continues his survey of the aquatic flora and fauna of the tropical rain-forests

FEW species of water plants occur in certain areas but not everywhere in the rain-forest regions. In the lower reaches allyva, the commonest water plant of the bountry, that flourishes. With it, is found life.

An average temperature for these streams are literally smothered with the contract of the bountry, that flourishes. With it, is found life.

An average temperature for these streams are literally smothered with the contract of the contract of the land it rises to 80 deg. F. and in cultivated and de-forested life. The water is essentially scaledly iron ore, the rainer is lacking. This dark-green plant comistaken for a large Cryptocoryme since a mistaken for a large Cryptocoryme since in or hizome but reproduces from long, around runners but the characteristic pherd's crook "inflorescence provies it to 4 pagnogation."

\*Shapherd's crook: "inforescence proves it to be an Apnogeton.

In some forest streams genuine Cryptocorynes give marginally and submerged in delightful profusion. The very rare Cryptocoryne marginal is confined to a few jumple swamp streams in South Ceylon, C. bee jumple swamp in South Ceylon, C. bee jumple swamp in South Ceylon, C. bee jumple swamp in South Ceylon, C. been submitted to the streams comes from terrestrial plants and grases which have intruded along the margins, and their finely divided roots form the small spawning medium for the Barbs.

Constant Conditions
Briefly, the jungle streams in the wet zone seldom or never suffer from severe flooding, never experience total or partial dessication and a constation of which the self-time s

Flishkeeping, November 1958

Channis.

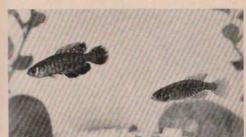
\*\*Xeneurodim cancilia, the Gar, is a livebearer whose young are borne in small numbers where they luke close to the surface and round about submerged bushes, dead tree stumps, etc., in deep pools. Cherry Barbs préer very shallow warmy ditches with flowing water for their fixed to the control of the control of

### Varied Diet

hand any imigration moves. A consistent of the frame by a short length of split rubber of will, surprisingly, gobble brand in closes to human habitations. The close to human habitations. The close to human habitations. The close to the Garrah have an unpleased to the frame by a short length of split rubber close to the frame by a short length of split rubber close. This leaves just the right amount of six packing for the frame by a short length of split rubber close. This leaves just the right amount of six packing the first packing the frame by a short length of split rubber close. This leaves just the right amount of six packing the first packing the frame by a short length of split rubber close. This leaves just the right amount of six packing the first p



### BREEDING TROPICAL EGGLAYERS



ade to the left) of Cynolebias nigripinnis. G. J. M. Tin

### **OUTSTANDINGLY COLOURFUL ANNUAL FISHES**

by D. B. McINERNY



Dried-up Mud

In some of the more exposed sites, all that can be seen of the pool is the dried up bed, the silty mud now as odried that it is irregularly cracked across by the heat of the sun; but in the evening the temperature falls, and in the evening the temperature falls, and in the carly morning, before surrise, a dew keeps the mud slightly steamy and moister undernance that varies very little in the region of 74 deg.F.

Wecks may pass, but eventually the rainy season draws near; with the first few spots the gag are moistened and development begas are moistened and benefold provided to the first few spots the moistened and development begas are moistened and begas and the resulting a summary of the s

In six weeks time prepare a good culture of Infusoria in similar soft water at the same temperature and, when this is really thick, pour some of the water on to the pair constitution of the pair c

### Weaned on to Brine Shrimps

Wouncd on to Brice Shrimps

The babies, if well fed, grow fairly rapidly and, a few days later, will take newly-hatched thrue Shrimp. After a further two weeks they require Cyclops or sifted Duphain and, when I in long, well need some Dwarf White Control of the Golden Leather-jacket

This 40-centavo stamp is another of the beautiful series issued in 1951 by the Portuguese East African colony of Mozambique. Twent-four different species only produce; but they are never available in great quantities, and therefore always command a high price, assuring the breeder of a good return for his patience and achievement.

All the species mentioned are very beautiful indeed, Aphysosemian certaining gross to a benefit of 4 in. but is not very aggressive. All the species mentioned are very beautiful series issued in 1951 by the Portuguese East African colony of Mozambique. Twenty-four different species on the final occasion of the species mentioned are very beautiful indeed, Aphysosemian certaining gross to a benefit of 2 in. and, though the females are a dollish brown, the males are a delightful uniform with tiny dots of electric blue, and reminds one of a starry night in December.

Worthy of Separate Aquaria

All these species are worth a separate tank, and are thus not community fish. None is, by statuse, long lived, but under aquarium conditions some live a little longer than a year, evenso, they must be bred when mature for flar will not have very much longer tog. This stakes them rare still and therefore more valuable, also one does not often get the character of the second factors.

Fishkeeping. November 1958

Fishkeeping, November 1958



### From My Experience . . .

sorted plants, a varying number of fish, pitussnails.

My lust experience of an unusual spawning.

My lust experience of an unusual spawning.

which might come under the "accidental"
category, took place whilst I was away on a
tow-weeks holiday during the summer and
concerns a pair of Blue Gouramies which shared
a tank with some adult Nigger Barbs. At the
any young fish, so no provision was made for
any young fish, so no provision was made for
the fish to be feed during my absence but, as the
tank containing the Gouramies only received
indirect natural daylight, a small light was left
switched on over their tank.

On my return home I at once made an
impaction to see if the fish were all right, and
great was my surprise on coming to the
great was my surprise on coming to the
great was my surprise on coming to the
fish.

Four of Bine Gourantes. Male is the lower his a semi-circle of silent aquarists all intent on the front obviously on guard, though all the Barbs were missing or dead. Despite the fact that all feeding had been suspectif developed and full of activity. I can only surmise that the parent she killed the Barbs, whose dead bodies created sufficient infusorians to feed the fry.

At one time I managed to obtain a gravid female Red Swortfail of the old type giant strain. Unfortunately no information was than that of a person standing upright.

On several occasions I have had the frustrating experience of spending a construction of the specially setting up a breeding tank to spawn a certain pair of high when the fish have shown every sign of being tank, their previous interest in each other has just disappeared and, despite every encouragement over a period of several days, the shaw failed to show any inclination to spawn. Naturally the pair are then returned either to their previous tank—along with other fish of the same species—or put in a community to the same species—or put in a community and here the frustration has really been driven home, as the removed pair of fish have almost indicated the size of the original materials and here the frustration has really been driven home, as the removed pair of fish have almost and there the frustration has really been driven home, as the removed pair of fish have almost and here the frustration has really been driven been supported to the same species—or put in a community common stand and here the frustration has really been driven been supported by the same species—or put in a community control of the same species—or put in a community control of the same species—or put in a community control of the same species—or put in a community control of the same species—or put in a community control of the same species—or put in a community control of the same species—or put in a community control of the same species—or put in a community control of the same species—or put in a community control of the same species—or put in a community control of the same species—or put in a community control of the same species—or put in a community control of the same species—or put in a community control of the same species—or put in a community control of the same species—or put in a community control of the same species—or put in a community control of the same species—or put in a community control of the same species—or put in a community control of the same species—or put in a community control of the same species—or put i



### WHITE CLOUD MOUNTAIN MINNOWS

A species at its most brilliant

### by PETER UTTON

Tyle White Cloud Mountain Minnow (Yamichidaya atlaundaya) is a member of the Family Cyprinduc, or Carps and Minnows. Introduced into this country about 22 years ago, it soon achieved popularity, for it has minor characteristics that make it an ideal fish for the community aquartum. It is a small, colouriful fish with a streamlined body of his popularity, and a streamlined body of his popularity in the community aquartum. It is a small, colouriful fish with a streamlined body of his popularity in the community and the community of the community



G. J. M. Timmerman picture of a male White Cloud.

suil the melting of snow and ice into the mountain streams, cause wide variation in miraral water temperatures. The mountain streams, cause wide variation in miraral water temperatures in the mountain streams, cause wide variation in miraral water temperatures in the mountain streams, cause wide variation in miraral water temperatures and the mountain streams and deg. F. and as high as 90 deg., though it may become distressed at high temperatures and it prefers a range of about 69-72 deg. F.

Young Fish's Colouring
The White Cloud Mountain Minnow has some resemblance to the Neon Tetra for it has some treamblance to the Neon Tetra for it has some treamblance to the Neon Tetra for it has some treamblance to the Neon Tetra. It would not advocate this as a good method of the tail and pushes to so the to have of the tail and pushes to so the to have of the tail and pushes to so the to have of the tail and pushes to so the total and on the dorsal and anal first. Unlike most fish in which the colour retaches it is maximum with muturity, the White Cloud is at its best in the first 9 or 10 weeks of its its maximum with muturity, the White Cloud is at its best in the first 9 or 10 weeks of its its maximum with muturity, the White Cloud distance its mount of the solution of the total and anal first. Unlike most fish in which the colour retaches its institution to the body and its not so attenumed as the mount of the solution of the solution

planted with clumps of Myriophyllum, Willowmoss or similar plants. Floating plants, such as Riccia or small Bladderwort, should be introduced and these may also be weighted down with stones to form a mat on the floor of the tank. With this type of set-up the young the tank. With this type of set-up the young the tank. With this type of set-up the young the tank. With this type of set-up the young the tank. With this type of set-up the young the tank. With this type of set-up the young the tank with the tank is large, it is possible to have fish in various stages of development. While this fish appears to be tolerant of most water conditions, it shows a preference for matured water. About one third may be replaced by tap water to stimulate breeding and some breeders advocate that this should be code of resonally It think that if the temperature fluctuates between 69 deg. and 75 deg.F., the addition of cold water is unnecessary.

There does not appear to be any definite riteria so far as pH and hardness are concerned. The water should be about five to



### FISH OF THE MONTH

### DWARF GOLDEN BARBS

LESS common than many Barb species, in fact often something of a rarity, is the in fact often something of a rarity, is the just of the power of the

642

Fishkeeping, November 1958

### Variety in the

### **Newly-imported Fishes**



The head-down attitude of Chilodus punctures makes it an unusual species for the decorative tank. New York Aquarium photograph.

ROM now, until the late Spring, we can expect to see the traders' aquaria particularly well-stocked, for we are now entering the "tropical season." Although it is more difficult for the importer to handle fish during the colder weather, many species arrive at this time of the year in prime condition due to the fast that for the previous few months, livefood has been abunded any to the property of a large size and good colour, Black Sharks, Scats and Clown Loach.

### Settling Down

The American Black-handed Sunfish (Mesogonistius chætodon), a fish hest kept in water which averages 60 deg.F. It was a popular species in pre-war dose.



Fishkeeping, November 1958

to the widespread breeding of Angel Fish, the position is reversed.

At 70 deg. F., up to 300 eggs may be laid in a depression in the gravel where they are guarded by the male. The female need not be removed. The eggs should hatch in about three days, and the fry may be fed Mikro-worms as soon as they are free-swimming. This fish reaches 31 in. in founds of the fish and state of the female has been known to live for ten years in an aquarium.

Another fish that is not seen daily is the Green or Golden Rivulus, Rivulus urophthalmust. It is a handsome South American species that can reach three inches in length. In the past it has been confused with K. hartif. The wild fish is green with hortzonton and the fish is green with hortzonton and fish is green with hortzonton and the fish is green with hortzonton and the fish is green with hortzonton and fish is green to the fish is green with hortzonton and fish is gr

# YOUNG GOLDFISH

and 10 Matt fishes should be retained. While alevism and fry are about there is a many that the temperature of the world be transferred outdoors. If it is a good easeon and the temperature in the pond rises to 70 deg. F. or more, Metallic fish should be transferred outdoors. If it is a good easeon and the temperatures in the pond rises to 70 deg. F. or more, Metallic fish should be left condoors but if temperatures ratio in the pond is a state of the condoors. If it is a good ease of the condoors were provided to the residual to the fish outdoors with the pond is a state of the pond. There will probably be enough livefood in the pond to last the fish for the first week but they should be in each tank. As soon as any Metallic begins to change colour it should be transferred to the pond.

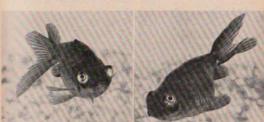
There will probably be enough livefood in the pond to last the fish for the first week but they should be supplemented with livefoods whenever possible.

With heavy feeding, ponds are liable to become foul and, as soon as the fish show signs of distress, they should be removed and the pond cleaned out and reflifled. Do not remove later from the sides of the pond.

The hould never be put into a pond which the pond to have the pot into a pond which the pond to the pond.

The possible of the pond.

The pond to last the fish for the first week but they should he target in the pond to last the fish for the first week but they should be subject to pond there is no need to continue sorting and electing every fortinght provided the initial surfuss were figorous. One culling in July and a final one in September should be subded to a many last the pond to the sould be dance carefully and, as no need to continue sorting and electing every fortinght provided the initial surfuss were figorous. One culling in July and a final one in September should be subded to the continue sorting and which the pond cleaned for the water should be dance carefully and, as a possible, 10 Metallic, 20 Nacreous should be discussed to the pond there is no need t



149: A young Celestial Goldfish with its eyes protrading. Right: a few weeks later when the eyes are beginning to become upwardly inclined, a characteristic of adult Celestials. Photographs by L. E. Perkins.

### WATER GARDENS IN MINIATURE (2)

Use of rockwork and selection of plant subjects

by J. STOTT



phinemis, Erica Joxii mana and Gritina decumbens, and the scope of this article to dual full with a compared and Prices accessive schindroms are four more that are suitable for trough raders.

Among the Maples two can be reconsended for the larger type of miniature arden; Acer Japonicum aureum and Acer almanum discentum artoparpureum.

There are three willows which make delightative and treams: Salix herbacca, S., arbaseula and treams: Salix herbacca, S., arbaseula and rearns: Salix herbacca, S., arbaseula and repent. Added to this list are the artificially warfed trees now generally referred to by the There are a number of shrubs and leaths all enough to be classed as suitable miniatures and some of the best for our purpose are silygula chamebuxus purpurea, Andromeda to the state of the pond itself, Azolia caroliniana, Eltoma and Isoetes lacustris are good subjects.

Fishkeeping, November 1918

SAFE METHOD OF ELIMINATING "VELVET"

by DR. F. N. GHADIALLY

NIGGER BARBS

Fishkeeping, November 1958

with Velvet may find it difficult to diagnose this disease. The best way in which one can say that it is a miniature White Spot. Thousands of very tiny yellowish white or pale orange spots can be seen on close examination of the fish. The spots, however, are infinitely smaller than these of White Spot. Each representations a single parasite hanging on to the skin of the fish. The fish loses its normal shiny appearance and look like a nece of or the contract of the contract

- CA

### BLACK RUBIES

OR

Differing experiences described by Hendon club members

### Small Tanks for Breeding, says J. Correlli

Fishkeeping, November 1958

BEGARD the Nigger Barb as the finest fish in the first fish is group, prettier than all others, easy to keep, and with an ecuberance that will be a lining tribute to your skill, and the accommodation that you offer it, and the accommodation that you offer it.

This is a species which can achieve a colour

There are many gimmicks open to the aquarist to produce highly coloured fish and, of these, in order of priority, will be frish water, for the fish needs good oxygon supplies, and maintenance of breeding condition, meaning good feeding to sexe kept separate, for in these conditions the males are at their most colourful.

The conditions the males are at the males are at their most colourful.

The conditions the males are at their most colourful.

The conditions the males are at their most colourful.

My best results have been obtained when a tank has been prepared which is small in stack. With well-rounded, full-grown plump-ness they will breed readily.

My best results have been obtained when a tank has been prepared which is small in stack and not necessarily more than 12 in. long. A small tank will result in bigger rearings to the stack of the crimost contribution of the netted as this will damage them been a tank has been prepared which is small in stack will result in bigger rearings the stack of the crimost proper will be added to the covered will. Water, reashly drawn and clear, should be added to the covered will be covered will be added to the covered will be added to the covere

### Two Techniques given by Ray Fisher

650

To Net of us seeing a male Nigger Barb are exceptionally agile and tend to show themselves a good deal in the tend to show themselves a good deal in the tend to show themselves a good deal in the tend to show themselves a good deal in the tend to show themselves a good deal in the tend to show themselves a good deal in the tend to show themselves a good deal in the tend to show themselves a good deal in the tend to the first tend to add to its popularity with aquarists. The imported wild type of fish appears to be more successful with regard to large spawnings. This is possibly not the fault of the fish but of the aquarist who may tend to continue the indiscriminate pairing of clouely-related in the tender of the second tender of the

Fishkeeping, November 1998



speci-tized female will regard a small male as a misisance in the tank rather than a breeding will repair prepare a 24 × 12 × 12 in, tank and cover the bottom with round, ½ in, diameter stones. Fill the aquarium with water (preferably filtered from the tank in which the selected fishes have lived) to a depth of 8 in. Divide this tank in half, with a sheet of glass and place in both idea is large clump of fine-leafed plants such as Mirroporthan. Cabonho or Limmophila (Imbalia). The ting plants are also useful.

Conditioning the Parents

The fish may now be introduced on separate sides of the partition and feed well and frequently on a rich, varied diet with as much livefood as possible, until the female looks really plant, and spawning and growing on new fishes.

The fish may now be introduced on separate sides of the partition and feed well and frequently on a rich, varied diet with as much livefood as possible, until the female looks really plant possible for "growing on" as they were intended of the parent lives because the stank.

The fish may now be introduced on separate sides of the parention and feed well and frequently on a rich, varied diet with as much livefood as possible, until the female looks really plants of the parent lives of the parention and feed well and frequently on a rich, varied diet with as much livefood as possible on the parent lives of the received lives at the lives of the lives of the cases of the first lives of the parent lives of the parent lives of the parent lives of the parent lives of the cases of the cases of the cases of the decision of the class and place in the parent lives of the cases of the cases of the cases of the decision of the cases of the cases of the cases of the parent lives of the parent lives of the cases of the parent lives of the cases of th

After spawning, the pair should be removed

Fishkeeping, November 1958

### **Artificial Spawning** Media tried by Tom Atkinson



The breeding tank with nylon wool and coconust fibre as set up by Tom Atkinson.

Spowning media were tried together; one was coconust fibre, and the other, pale green nylon wool. Both the nylon and ecoconust fibre were sterilized by boiling and the wool was anchored to the stone in the form of a large clump of approximately 6 in, length. The thermostat was adjusted to keep the same temperature as in the community tank which was about 74-76 deg. P. and the broading tank. A pair of fishes were selected, the male for size and brilliance of colour, the female for size and brilliance of the size of

amit, at this stage, feeding was started with liquid fry food. I noticed that although the parents had not discriminated between the wo spawning media, he fry showed a district preference for hanging on to the nylon wool. After four days they young fish were free-settiming and, at this time. Moreover, we have a start of the fourth day Brine shower was a fine days, the young fishes were taking shape. At this stage I added fine sifted dried food to the diet and finely sieved wheat-germ strice of the water from a plastic bottle with fine holes drilled in the cap which enabled me to blow the food into a plastic feeding ring floating and anchored to the front glass at the scarter of the tank. Heavy feeding at this time resulted in fouling the immediate front considering properations.



G. J. M. Timmerman photograph of a Clawed Frog kentinan anaarlum.

### PICK OF THE PETS

No. 7. THE CLAWED FROG

by ALFRED LEUTSCHER, B.Sc.

Throughout practically the whole of Africa south of the Sahara there dwells, in suitable places, a group of amphibians much the name of Aenyam. The best known that the properties of their primitive nature these amphibians have been of considerable help to the properties of the suppose means "strange foot" on account of is large and powerful, whebed feet, and their means "smooth". Slippery as an eel, this anyantic creature is almost impossible to hold the suppose of t



Movement of Tadpoles,

\*\*Monopur tadpoles are strange, transparent little creatures, which "hover" in mid-wates, their bodies at an angle with the tail quiverine rapidly. They are filter feeders, that is, they strain microscopic life from the water as it passes over their gils. A good diet for their youngstens is planty of "green water" constituting algae and Influences. To this can be always and the strain of the property of

The Claved Freg tadpole at a more advanced stage with limbs forming. G. J. M. Timmerman phoses of



Fishkeeping, November 1918

### JAVA MOSS FOR DECORATION AND AS A

### SPAWNING MEDIUM

A useful aquatic plant which has yet to be seen in Britain

### by G. BENL ('Isis,' Munich)

ABOUT 25 years ago a small aquatic moss was discovered in the Zoological Institute of the University of Vienna, among a collection of plants sent from the Botanical Garden in Bogor Gava. A. Siegiskal "pospegated it by means of the leafy branches of the shoots, and distributed it under the name of Java Moss.

Hardy Species

In the years that followed the moss proved very hardy, making it an excellent spawning sections for fish. It can withstand temperatures of 50 to 56 deg. 2- and gross under natural obasted situation.

When it is muddy the moss can be washed and even softly pressed out like a sponge. The water of the tank containing it should be more or less stagnant; too much movement, caused by arration of filtration, should be avoided. The plant may be kept free-floating near the apparatum base (it is not a surface precribly grantes) when rhazoids will grow out and attach the moss to its aubstratum.

In recent years lava Moss has become well known among European aquirists. Now it is not only used in small breeding aquariab ti shig community tanks for decorating rock backgrounds, etc.

### Resemblance to Willow-moss

At first sight Java Moss bears some resemb-ience to the aquatic Willow-moss (Fostinaties enripyerieta). It can, however, be coltivated urrestrially, thus proving it to be an amphibian and-moss. Specephytes with mature capusa-hive also been observed on submerged plants but it is uncertain whether the spores are able to germinate when fully submerged.

Folikeeping, November 1958



For many years all attempts to identify the moss scientifically failed. It was only in October, 1957, that E. B. Bartram (Academy of Natural Sciences in Philadelphia, Pa.) succeeded in determining the species. Dr. J. Poeli (Cryptogramie Herbarmun in Munich, Germany) had recognised the Genus some months before.

Thus Java Moss has now got its botanical name: Vesicularia dabyana (C. Mueli.) Broth. Its native country is the Indian Archipelago and Malacca.

REFERENCES

A. Stephal. "Javanoon, one visituitige Aquationplinance. DATZ I (1954), pp. 80-90.

H. F. Sauer. "Day Javanoon." Aquation und
Terration, 4 (1957), pp. 180-191.

G. Benl. "Fortschafe delayane (C. Moeff.) Broth., din
"Javanoon." DATZ I (1958), pp. 17-39.

### FRESHWATER PERCH

Small specimens make interesting aquarium occupants

by WILLIAM J. HOWES



THE Perch is a member of the Family Perchia, and being a fish of prey it has teeth in its mouth which its extremely large. It is equipped with two separate dorsal fins, is deep-hodded and slightly hop-backed.

The first dorsal is a spiny fin while the second in the property of the prop

The aquarist who wishes to keep a few Perch and go to his local lake or gravel pit and catch are quite easily along the properties of the

Problems Answered

Paradise Fish

I would like to keep Paradise Fish (Macropodus opercularis) in coldwater aquaris. Could you selfme how to acciminate them to the lower temperatures ?—(J.M., Leeds.?)

Faradise I have quite hardy and can, in fact,
Paradise I have quite hardy and can, in fact,
Paradise I have quite hardy and can, in fact,
which is a summertime I fact,
which is a summertime I fact,
which is a summertime I fact,
which is a summer in the control of the
wather is warm, but we would not advise trying
it convert them to coldwater fash. Their temperature range is between 65 and 85 deg. F. and they
will breed at 70 to 75 deg. F. builds the nest of
lubbles at the water surface and looks after the
gags. The young hatch out in about 48 hours it
the temperature is about 70-75 deg. F. It is
advisable to remove the fernals when passwing is
displayed to the control of the properties of the
controlling.

Queries are answered free of charge by experts. They should be sent to 'Fishkeeping', Dorset House, Stamford Street, London, S.E.I., with a stamped addressed emelope for the reply. All queries are answered direct but a selection is published here.



A Show with a Difference Str.—This year's animal show of the Southend, Leigh A.S. was staged 1½ miles offshore on the end of Southend's famous pier for the period September 6-14 and was, in view of its duration, a bold written by the cib.

The street of the street was evidenced by the many questions asked and information sought. Visitors came from as far affect and the street of the street o Leigh AS. was staged 1½ miles offshore on the old of Southend's famous pier for the period of September 6-14 and was, in view of its duration of September 6-14 and was, in view of its duration. It was highly successful, particularly in attracting large numbers of the general public who have the property of the september of the general public who have the property of the september of the september of the anticle by Diana Scholidal on breeding the Blind Cave Fish in your information sought. Valuote, came from a set of the settle by Diana Scholidal on breeding the Blind Cave Fish in south formation supplied values asked and information supplied values asked and allocation of the settle set

Fishkeeping, November 1958

Aquaria Section at the 1959 National Exhibition

Increased Prize Money for this January 8-10 Fixture

THE January, 1959, National Exhibition of Class and Aquaria, in the National Hall, Olympia, London, W.14, will include an Aquaria (100 ×85 c in, tanks for this class only to be special feature).

CLASS IFICATION

CLASSIFICATION

Some consideration will be given for permanency, CLASS A 5. Mestarture Funnsumer Aquamia (100 ×85 c in, tanks for this class only to be special feature).

CLASSIFICATION

CLASSIFICATION

CLASS A 1. CLUB THOPICAL FURNISHED AUGMANA where a perpetual trophy is up for comperition (24 × 15 × 12 in. aquaria).

CLASS A 2. CLUB COLDWATES FURNISHED AUGMANA which another perpetual trophy is up for competion for (24 × 15 × 12 in. aquaria).

CLASS A 3. INDIVIDLAL TROPICAL OR COLDWATES FURNISHED AUGMANA TO SEASON OF CLASS A 3. INDIVIDLAL TROPICAL OR COLDWATES FURNISHED AUGMANA. This class will be divided if the number of collabater cruis justifies (24 × 12 × 12 in. aquaria).

CLASS A 4. MINISTRUES GARDENS WITH A FOND MORE HARDON OF CONTROL OF CONTROL OR CONTROL

### News from the North-West by "Aquaticus"

MANY a young aquarist, called away from home of the control of the

Fishkeeping, November 1958

### Scottish Commentary by K. A. M. Robertson

A STRANGE fisherman's tale, came recently from the River Spey area. This river runs through the grounds of Balmoral Caste and has for many years been the favourite haunt of many salmon inters. Like most eatmon rivers, there are searn, too cold, too high, too low, or too clear. It was on a day with one of these conditions that an angler, probably through despair, allowed his cast to sink. Shortly after, it was found that something was on the cod of the line and succeed his cast to sink. Shortly after, it was found that something was on the cod of the line and succeed his cast to sink. Shortly after, it was found that something was on the cod of the line and succeed his cast to sink. Shortly after a succeed his cast to sink shortly after a succeed his cast to shortly after a succeed his cast to sink shortly after a succeed his cas

### Midlands Miscellany by W. L. Mandeville

THE popularity of quizzes, brains trusts and general knowledge competitions probably springs from the eternal question-mark that business in the brain of every thinking man and woman, plus the feeling of superiority that comes when the entertainment, and out a futtle instruction, of the prob leadings when the entertainment, and out a futtle instruction, of the prob leading the depth of the problem to a should be a feeling to the problem to the entertainment, and not a futtle instruction.

of the poor beached with 10 whom the question is addressed.

One admires the courage that enables a contestant to face questions on "wide spectrum," of the poor beached with the contestant to face questions on "wide spectrum," of the poor beached to face questions on "wide spectrum," of the poor to the series of the series of the Mediand Aquarium & Pool Society to the scope of these subjects may appear, they are imited when compared with such a topic as "Aquatics" which range into sub-leadings that a Cozens of other kindred subjects.

With this in mind, it was wise of Mr. E. A. Alsoo, of Snecthwick, to limit his version of "Snecthwick to limit his version of "Fishkeeping." Analyst, 12 Featherfed Lane, Paddington, Survey, together with a fee of S., and the proposed of the control of the strong of the stron

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

A UTUMN is the time of the year when shows and showing occupy a prominent place in the lines of the year when he was a subsequent of the prominent place in the lines of the prominent place in the lines of the line

Leeds Annual Show

A PART from the competitive classes at the Leeds A.S. Januaral open show on September 16-20, a display-task of Catabla and a point containing to display task of Catabla and a point containing to display task of Catabla and a point containing to display task of Catabla and a point containing to display task of Catabla and a prince containing to contain the containing to the containing of the catablities are with the containing to the containing to the containing to the containing to the catablities are with the containing to the catablities are

the numbers and the highlight of the evening was the with 75 person. This seak also bound H. serpe and well the presented in the president wife and the presented in the president wife.

The prince was Mr. G. Bourtsoyd who had the president wife to be a series of the cabe the President wife to be a series of the cabe the president wife.

The class for Fighters Mr. C. R. Wilson showed the sate either in the exhibition and cook the Gill Troub to the cabe to be a self-to the the exhibition and cook the Gill Troub to the cabe to the control of the president wife.

R. K. S. Smith Vedual Conpens went the class for raises of the control of the cabe to the control of the control of the cabe to th

### Fifth International Guppy Show in Berlin

### English Ashievements

Take Exhibitions has shown that the English Garreys Precision of the Control of t

THE International Guppy show was letted this year in the first and properties. Here we distributed the first and beautiful common and tanks. Became of the first and beautiful common and tanks. Became of the shirt of Dr. Gutter Meyer, in cognition the architecture of light and beautiful common and tanks. Became of the shirt of the Gupter and the same of Goldfish Society's Convention

ON Ostober 11 the Goldfish Society of Gil Benjan hald. I proved an outstanding society, and the simulation of the provider of the standard society. I proved an outstanding society. Extraters were given by Capt. L. C. Betts. M.B.E., who socke on the provider of the control of the standard society when Confident is subject to the control of the subject was full follow, and Mr. R. E. Albeit, who can be subject was full following and Mr. R. E. Albeit, who can be subject to the championship Singlettal class which had attracted a surject of 19 at the court. In the last on the same of the three courts of the same which had attracted to the court of the same which had attracted to the court of the same way to be the had the results of the courts. I made the way the had better the court of the same was Mr. S. Freeze which Man. D. Morre in second, then and former benefits with Man. D. Martin in the court of the singletter of the same was Mr. S. Freeze which was the Mr. S. Patricia of the same was the same and the same was the Mr. S. Patricia of the same was the same and the same was the Mr. S. Patricia of th

Fishkeeping, November 1958

### Study Society's Annual Conference



250 Entry for Hornsey

HORNEY A.S. necived well over 250 extens for interaction of the control o

Truit and best tropical fish, Mr. C. Forth, Tender's and problems of the property of the prope

Fishkeeping, November 1958

R. Barnes (large open home propagated plonts) and
A. Jerio (A. O. See one special plonts). As the control of the second series of the s



- 6. In the home aquactic competition of Northampton A. As a result of the Mitchen A.C. annual survey of the A.C. annual sur
- Mr. Souther also lost in the continues aquarta with as proposed with the continues and continues and the continues and continues and

- Some 150 against attended the Bristel A.S., meeting on Betober 15 to see a duplay of Rey Skipper celour transportates and other provided by Victoria, and the board cornell.

  A.S. meeting on Betober 15 to see a duplay of Rey Skipper celour transportates and other provided by Victoria and the Skipper celour transportates and other provided by Victoria and the Skipper celour transportation of the Skipper celour superior of the Skipper celour special and coldware furnished amparts and approximate the works' own Handicrafts Exhibition. Fourteen control to the Skipper celour of the Indian Skipper celour collection of the Skipper celour collection of the Skipper celour transportation of the Skipper celour c
- De Geober Uth Ayleboy: A.S. itaged a cold-mater thir table; above consisting of seven clauses and, from Colchey 18-26, gut on a sloke architecture of the Colchey 18-26, gut on a sloke architecture of the Colchey 18-26, gut on a sloke architecture of the Colchey 18-26, gut on a sloke architecture of the Colchey 18-26, gut on a sloke architecture of the Colchey 18-26, gut on a sloke architecture of the Colchey 18-26, gut on a sloke architecture of the Colchey 18-26, gut on a sloke architecture of the colchey 18-26, gut on the slower of the same evening was won by Mexirs. Themes and Tarbins of the same form of the same evening was won by Mexirs. Humber and Tarbins of the same evening was won by Mexirs. Humber and Tarbins of the same evening was won by Mexirs. Themes are all the same evening was won by Mexirs. Themes and Tarbins of the same evening was won by Mexirs. The same and Tarbins of the same evening was won by Mexirs. The Colche to the same evening was won by Mexirs. The Colche to the same evening was won by Mexirs. The Colche to the same evening was won by Mexirs. The Colche to the same evening was won by Mexirs. The Colche to the same evening was won by Mexirs. The Colche to the same evening was won by Mexirs. The Colche to the same evening was won by Mexirs. The Colche to the same evening was won by Mexirs. The Colche to the same evening was won by Mexirs. The Colche to the same evening was won by Mexirs. The Colche to the same evening was won by Mexirs. The Colche to the same evening was won by Mexirs. The Colche to the same evening was won by Mexirs. The Colche to the same evening was won by Mexirs. The Colche to the same evening was won by Mexirs. The Colche to the same evening was won by Mexirs. The Colche to the same evening was won by Mexirs. The Colche to the charge of the same evening was won by Mexirs. The Colche to the charge of the charge of the same evening was won by Mexirs. The Colche to the charge of t
  - In the home furnished aquaria competition of Friends A.S. (Kennington) the first three pleases were taken by Magnon. D. Robinson, B. Huntelley and F. Beausan. Claphum club were the winners of an inter-club table taken believe the summer. First price winners at recent club bable those have been Messia. A. Cade. D. Robinson (2) and 1. Horne (2).

- 6 Mv. E. Goerlitz, the Curby society's most accom-prished fishbreeder, gave a talk to the club at its October 27 meeting. I meeting.

  An intro-club show for the Riverside Challenge frophy has recently been held by the Riverside A.S. (Idamersmith). The promoting society was first, with Unbridge, second and Southall, third. Aimworth Shield in hest fish in show was wen by Mr. J. G. Fultham's Volliars. Modile. Riverside's future events include a necoder troubly compaction, a lecture and a fine show.

- on, or October 21, there was a table show to morted topical fails.

   Mr. R. G. Mestiand growthed at the A. O.M. of Surry topical fails.

   Mr. R. G. Mestiand growthed at the A. O.M. of Surry Control of the Control o
- sensing, continuous at 5 this, in the softeness here visition. However, Rout, Lendon, N.

  8 As a result of the Classifury A. S. annous general inferior and the continuous and the promises of one of their members, Mr. Crisgan Barnett, where they were able to view occurants infer the interocutes. In comment, the continuous and the interocutes. In comment, the continuous and the interocutes. In comment, the continuous and the content on "Keeping Records". Four complex now keep marine excitation, mainly present, security of Brockley B.C., Mr. H. J. Wooper, J. Fossberry, and the content of the c
- The transfer of the society of the s

- - C Eleven trophies are up for competition in the 29-class will be held in the Mal-falian Gallerian. Succeeding the held in the Mal-falian Gallerian, Stucishall Street, Glaspow, C.J., from November 12-12-8.

    Forty members and agents of Llantwil Major Ac-Statement the convey's accord annual tioner, Mc. Clearly Mr. R. S. Wigs with the Miller Thomas Peinit Cup and required in the Miller Thomas Peinit Cup and require of the Member-Ordel-year Trophy.
  - ra epita of the Member-od-the-year Trophy.

    The Skipon A.S. entertained visitors from Color, Barnley and Keighley at an inter-chib table those bell on Street the Market brought closely [1]. Street the Market brought closely [1] of by Dr. G. Cust. Best did in there was a Kisting General divous by Mr. Pogulky. First prince-interes were divous by Mr. Pogulky. First prince-interes were the Market and Market
  - Tropically and Mr. Massen continuence.

    O Officer descript at the Acid, M. of Plymouth, A. & P. S., ware recollent, Mr. H. Woolcombe; chairman, Mr. T. Easterbrook, I resoluter Mrs. W. Rundle; show societary Mr. M. Kit; sithor, Mr. C. Tozer, vice-chairman, Mr. D. Southwood, I ibrarian, Mr. A. Laine, press ourestary, Mr. R. P. Ackland; and secretary, Mr. M. Summers, 34 Pjicy Roud, Lower Comption, Plymouth.
  - Friedy Rosal, Lower Compton, Pijmouth.

     Breeding and Ranning Blanc Angabi" was the subject of Mr. C. A. Allen's talk to a vecent meeting of Caddend A.C. In an inter-clob table those between North Harn's A.C. and Guiddord To entries were staged and judged by Mr. D. B. McIerrey. First prize-winners were Meets. B. J. Alext, E. G. Vanton, C. A. Alex, E. MacBer and R. A. Owen.
  - E. Mander and R. A. Deen.

    A. The first meeting of the Secretion Agustian (Glaggow) A.C. Dr. Young, of the Secretion Agustian (Glaggow) A.C. Dr. Young, of the Secretion Agustian A.C.Dl. was held on October 1 monthership was 34 compared with 20 when the club was formed in 1957. A compared with 20 when the club was formed in 1957. Wr. D. D. Cart. The club is arranging a fifth when for November 28, communing 7.30 p.m. There will be a three-boar programme and refered tensions; will be rowolded.

On October 11 Walthamstow A.S. presented the prizes win at their 1958 show. Here Mr. A. H. Pringle receives traphles from the F.D.A.S. chairman, Mr. S. W. Athins.





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