

Volume 28, #4 - May 1999



# the *cichlid* monthly

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JOURNAL OF THE

## Victorian Cichlid Society Incorporated

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## CICHLID SCENE

**THE NEXT MEETING** will be held on the 2nd Friday of the month at 8 pm in the Courtyard Room, Nunawading Civic Centre, Whitehorse Road, Mitcham. Visitors are welcome.

**MINI TALK:** 'Convicts' -- Stuart Gray.

**MAIN TALK:** 'Group discussion -- Filtration and Home Shows.'

**DOOR PRIZES:** Aqualife.

**DRAW PRIZES:**

1. 150-watt heater.
2. Wetlands frozen food.
3. Plant.

**TABLE SHOWS**

- KA -- South Americans.
- KP -- Lake Malawians.



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## AIMS OF THE SOCIETY

The Victorian Cichlid Society was formed by cichlidophiles in March 1972 thus becoming the first specialist aquarist group in the State of Victoria. Its main aims are:

1. To promote the keeping of cichlids;
2. To gain and disseminate knowledge of cichlids, their habits and attributes through the use of slides, films, books, lectures, practical demonstrations, local and overseas magazines, articles by members and discussions with fellow members or experts in the field;
3. To assist, in any way possible, the establishment and/or maintenance of approved public aquaria;
4. To be involved in the education of the general public with regard to the benefits of fishkeeping (particularly cichlids), and the potentially harmful effects of animal mismanagement;
5. To promote fellowship between members;
6. To further the conservation of species and their natural habitats;
7. To further the identification, distribution, breeding, maintenance and enjoyment of species in the Family Cichlidae.

**Disclaimer:** Opinions expressed herein are those of the authors, and are not necessarily those of the Editor of TCM or the committee of the Victorian Cichlid Society Inc. You are encouraged to write to, or e-mail the Editor on any subject raised herein.

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**FELLOW OF THE SOCIETY:** Graham Rowe.

**LIFE MEMBERS:**

Graham Rowe, Heinz Staude, Kevin Archibald, Keith Patford, and Danny Genovese.

**HONORARY MEMBER:** Max Davenport.

**COMMITTEE MEMBERS:**

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SECRETARY	<b>Graham Rowe</b> ..... 9560-7472	EDITOR	<b>Daryl Hutchins</b> ..... 9872-3225
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	<b>Maurice Breward</b> .... 9752-2103	<b>Jason Taylor</b> ..... 9569-3772	

**Sub-Committee Chairpersons:** Mailing: Peter Robinson. BAA: Daryl Hutchins;

Constitution: Daryl Hutchins. Species Maintenance: Graham Rowe. Handbook: Daryl Hutchins.

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# editorial

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HMMMMM. People reckon I'm quiet! Not one constructive idea on revamping the Breeder's Achievement Award was forthcoming at last month's meeting. At least if there was I missed it -- please tell me I am wrong.

I am glad that Dave Thorn was there giving his presentation on water conditions, otherwise it would have been a world's record (for brevity) meeting.

Although I usually find pedantry extremely aggravating, if it were not for requests for t-crossing and i-dotting I suppose there would have been no conversation at all. But we would have been able to move on to a demonstration of the BAA computer programs as they stand at the moment. Unfortunately, this did not happen (that 11 pm curfew is a real pain in the neck).

The offer that I made to show anyone who was interested (while the computer was there) just how easy it is to publish a magazine is still open -- only the venue has to change of course. Feel free to drop in any time for a demonstration.

Prospective Editors are my favorite people in the whole world and nothing is too much trouble for them. Desktop publishing lessons -- no problem. You need a campaign manager -- you got it -- I'll kiss every baby in the VCS to get you elected.

No matter what you have heard to the contrary, it is a fact that my loudly scoffed-at comment at the April Meeting that there is a "rule" officially excusing the Editor from having to do the presentations that other committee members are often cajoled into doing (and they are not hard to do -- they just take time to prepare). Many years ago the committee agreed that this would be so. To my knowledge that decision has never been rescinded.

Twice in the past couple of months I have overheard comments that the club's color printer was bought to produce color covers. The inference being, I suppose: "Why do we not have color covers now?" In fact the printer was bought to produce color covers specifically for Volume 26, in our 25th Anniversary Year. Volume 27 covers were produced on a laser color printer that I no longer have ready access to. The club's printer has since only been used for certificates, name tags, a color page in the magazine and color copies for contributors. Producing color covers all the time would be prohibitively expensive and too time-consuming.

This paragraph is what is variously known as waffle, padding, crap, etc. I have always said this is the hardest page to fill. Maybe Editors should also be excused from writing editorials! ●

## Previously ... at a VCS Meeting

THE April 1999 meeting opened at 8.20 pm with the President in the chair. He welcomed all. Apologies were received from Keith Patford, Danny Genovese, Jann Reeves and Robert Coghlan (later rescinded).

All present except Carl Bentin received their copy of the magazine. Minutes of the March meeting were taken as read on a motion moved by Carl Bentin and seconded by Jeff Staude. New members Marty Bell and Richard Biggs were welcomed to the society and presented with their badges by the President.

Outgoing:	Commonwealth Bank	Statement
	Peter Sorensen	Membership renewal
	John Cousins	Membership application
	Ben Bignell	Job request
	Manark	Printing bill
	Instrat Group	Insurance premium request
	Aquarium Industries	Cichlid list
	Whitehorse Council	Grant application
	Whitehorse Council	Community Database Information
	Trading Post	Auction ad

Dave Thorn then gave a detailed explanation of Water Quality. Greg Katsap was presented with his badge by the President and welcomed to the society. short break was called.

Daryl Hutchins then led a discussion on the Breeder's Achievement Program. Robi Toth announced the results of the Wardleys Table Show. A brief mini auction was then held. Donors Dave Thorn and Daryl Hutchins were thanked.

First prize of the Cichlid Aquarium was won by Granville Lawrence in the Raffle. Maurice won the Wetlands frozen food for second prize and also the chocolates offered as third prize. Shannon Loughnan, Peter Mander, John Reeves, Glenn Lacey, Carl Bentin, Lee Ashton and Jason Taylor won the door prizes, courtesy of TFH Australia.

The meeting adjourned for supper at 10.43 pm.

**JUNE JUNE JUNE JUNE JUNE JUNE**

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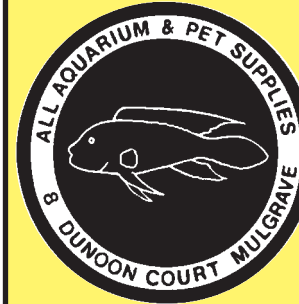
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## *Lepidiolamprologus hecqui*, a Fish by Any Other Name

By Peter Robinson

THIS fish has, I believe, caused some confusion in the past and again in the present. I purchased five of these interesting fish under the name *Neolamprologus meeli* after they were imported from Germany. I then checked the fish out in 'The Complete book of Dwarf Cichlids' by Richter, the fish was listed there as *N. meeli*. I then checked out *N. meeli* in Ad Konings' new book 'Tanganyikan Cichlids in Their Natural Habitat', only to find that the fish known as *N. meeli* looks nothing like the fish I had purchased. My fish were identical to *Lepidiolamprologus hecqui* ('Tanganyikan Cichlids ...' page 213).

I placed the fish in a divided 48"x 18"x 18" tank with an undergravel filter. A liberal amount of shellgrit was mixed with the gravel to help maintain

the pH at 7.8 and the hardness at 400 ppm. I also used one teaspoon of water conditioner to five litres of water, this is double the recommended amount. Ten Mystery Snail shells were placed in the tank for the fish to inhabit and hopefully spawn in.

It soon became obvious that there was a dominant male in the group, he immediately began ruling the tank and driving the other male into the upper area of the tank. He also seemed to be favoring one particular female and sent the other two to the back of the tank. Sexing these fish is not easy as the only difference I can see is that the male is slightly larger and more robust in build.

Feeding these fish was simple, within a day all of them were eagerly snapping-up live brineshrimp, daph-

nia, live black worms and frozen bloodworms as well as flake food.

After seven days I noticed that one of the females, the one preferred by the male as mentioned earlier, was only leaving her shell to feed. She would then immediately return to her shell while the male was obviously guarding the territory around her and keeping all the other fish in the rear areas of the tank. This behavior continued for around 14 days. Then after feeding brineshrimp one morning I thought I saw some brineshrimp already in the tank.

On donning my glasses I was overjoyed to see about 30 fry. They were about 3 mm in length hovering just above the gravel, they were very difficult to see as they blended with the

color of the gravel. The fry were very slender in comparison to most Cichlids that I have spawned before, in fact they are very distinctive.

The fry were a nondescript beige color which, as I said, blended into the gravel to make them invisible when they dropped onto the gravel when frightened.

The fry at first appeared unable to eat newly hatched brineshrimp so I began feeding them microworms which they seemed to relish as their tiny stomachs soon rounded out after feeding. I kept feeding microworms to them for seven days then tried baby brineshrimp again. This time it was successful and the fry, which had grown to about 4 mm, could be seen hunting down the shrimp and you

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could see their stomachs swelling as they snapped them up.

After four weeks the fry have at least doubled in size and are now starting to display their parents' characteristic dark-brown blotches. In comparison to the other shell-dwellers I have in my fishroom, *Neolamprologus multifasciatus*, these fry grow much faster even though as adults they are only about twice the size of *N. multifasciatus*

At the time of writing this article I have noticed that two other females have taken up residence in shells. So I am eagerly awaiting the passage of the 14 days to see if some additional batches of these interesting, blue-eyed dwarfs are going to appear.

The day after typing the above I went out to feed the fish when 'lo and behold a further 30-odd little *Lepidiolamprologus hecqui* have been added to the world population. Now the fun has begun with two brooding females daring one another to cross an invisible territorial boundary. I have even observed the two girls jaw-locking. I now have to feed live baby brineshrimp to the older fry

while feeding microworms to the new batch.

A further interesting behavioral pattern I have observed is the dominant male and both brooding females "helicoptering" in an identical way to that usually only seen in dwarf South Americans (eg: Apistogram-mas).

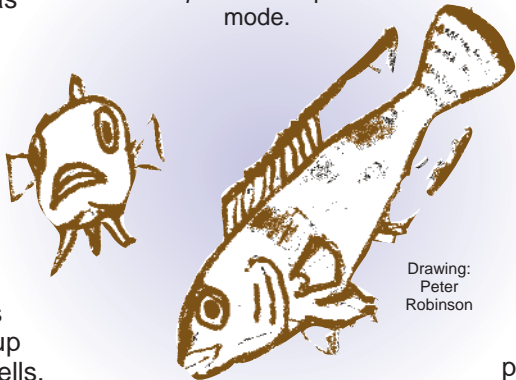
This is seen as the fish holding its body at 45 degree angle with all fins fully extended while propelling itself slowly with a head-down attitude. I've never seen such behavior in an African Rift Lake Cichlid before. This is a definite threat posture because if the fish being treated depart the area it is then chased out rapidly.

All told these fish, although small, are a very interesting species if one observes the interaction that occurs in their aquatic world and I can highly recommend them, even though they have only been in my possession for a very short time.

#### REFERENCES:

- `Complete Book of Dwarf Cichlids', Richter.
- `Tanganyika Cichlids in Their Natural Habitat', Ad Konings.

*Lepidiolamprologus hecqui* in "helicopter" mode.



Drawing: Peter Robinson

## April Table Show Results:

### Keith Patford Show (African Riverines and Lake Victorians)

Species	Cond	Fins	Shape	Scales	Age	Total	Entrant
1 <i>Astatotilapia burtoni</i> Healed splits in caudal.	26	27	17	9	7	86	P. Robinson
2 <i>Hemichromis "Blue Neon"</i> Splits in caudal.	25	26	18	9	9	87	G. Lacey
3 <i>Steatocranus tinanti</i> Splits in caudal. Mark on head.	25	25	18	8	9	85	M. Breward

### Kevin Archibald Show (Central Americans)

Species	Cond	Fins	Shape	Scales	Age	Total	Entrant
1 <i>Amphilophus longimanus</i> Split pectoral, regrown caudal splits.	28	24	17	8	10	87	P. Robinson
2 <i>Thorichthys meeki</i> Split pectoral.	26	26	17	8	7	84	S. Gray
3 <i>Archocentrus sajica</i>	27	27	18	8	8	88	M. Breward

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From 'The Magazine of the Sunshine Coast Aquarium Society', February 1999

## The 'Perfect' Tank Set-Up

It started with a four-foot tank,  
and a house-hold pressure pump  
That worked the bio-filter filter,  
lifting water from the sump.

A heater made of stainless steel  
and fibre-glass as well,  
Guaranteed to a depth of a thousand feet;  
(I'll bet these items sell!).

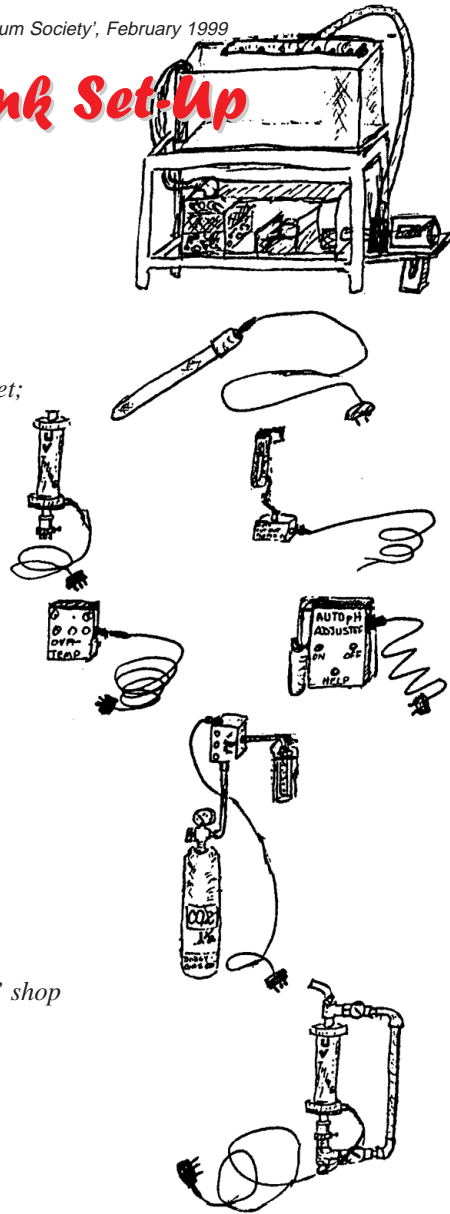
A UV steriliser tube,  
that kills the germs and wogs,  
Then an automatic cut-off,  
in case the filter clogs.

An 'over-temperature' alarm,  
and an Auto pH Adjuster,  
Were another couple of things to add,  
to my growing power plug cluster.

I wasn't looking for perfection,  
but the way to make plants grow,  
Is carbon dioxide injection;  
it's the only way to go.

CO<sub>2</sub> by the bottle - is very dear,  
but you've really got to laugh,  
'cos I went to the local 'Cheap Charlie' shop  
and bought CO<sub>1</sub>-1/2.

The water flow in my UV thing  
was much more than projected,  
So a by-pass loop was next installed  
with taps and T's connected.



Now the water 'through-put' for my tank  
was ten gallons every second,  
So I had to slow it down a bit,  
(or so the experts reckoned).

The water shot from the delivery bar  
like a fire hose unattended,  
The roaring current in the tank  
was more than I intended.

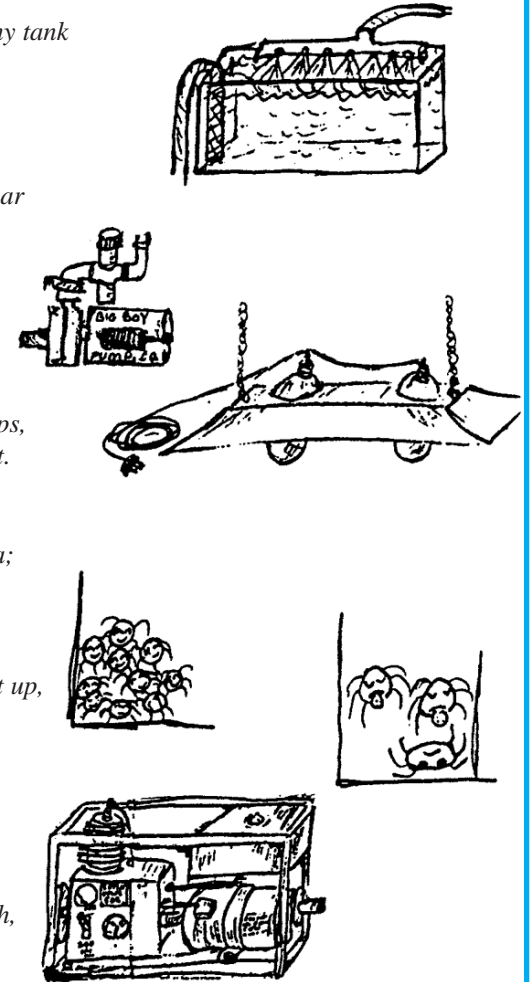
A pressure regulator in the line  
was the answer that I sought;  
Then a pair of mercury vapor lamps,  
were the next thing that I bought.

Things were going pretty well,  
I had the best set-up in Australia;  
Then suddenly - disaster struck.  
We had a total power failure.

The microbe count in the tank shot up,  
everything went out of kilter,  
The bacteria started dying,  
in my you-beaut' bio-filter.

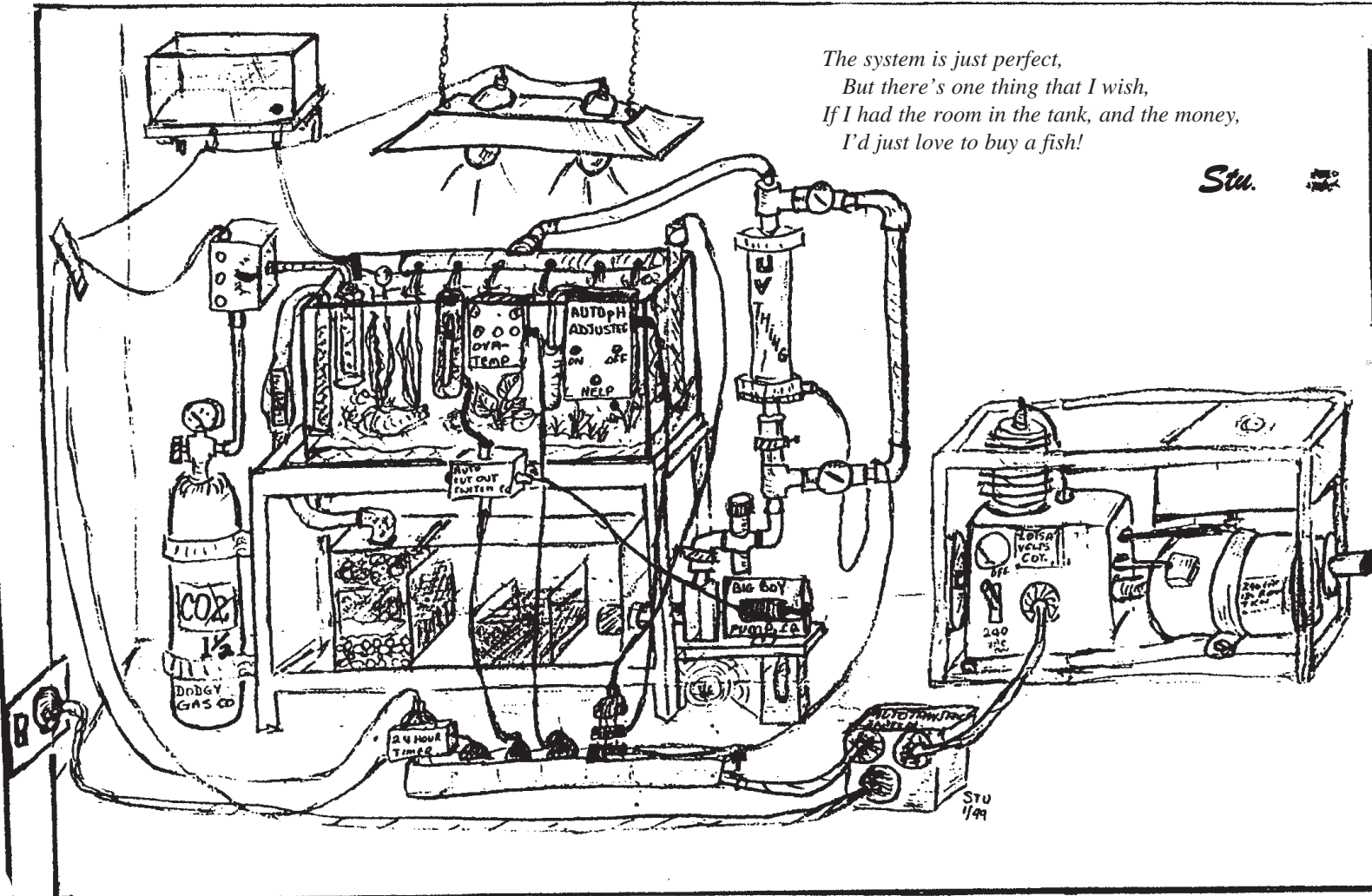
"A generator, on stand-by,"  
was the answer I was given,  
"With an automatic transfer switch,  
the whole thing petrol-driven".

Well, the temperature now is stable, to point one of one degree.  
The pH is exactly neutral, it's as steady as can be.  
GH, KH and other hardnesses, are exactly what I need,  
Nitrite, nitrate and ammonia, are too small to even read.  
The 'top-up' tank tops up my tank to take care of evaporation,  
The plants are growing like a charm, despite the water agitation.



The system is just perfect,  
 But there's one thing that I wish,  
 If I had the room in the tank, and the money,  
 I'd just love to buy a fish!

Stu. 



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THIS may be a little late for most of you, but I have just found out that Ad Konings will be talking on Lake Malawi on Friday 7th May at San Francisco AS. Call Wilfred on 00 11 1 415 583 2462 for last minute details.

The next day, Saturday 8th May, Ad will be speaking at Pacific Coast CA on Tanganyikan Cichlids. Pam can help with details on 00 11 1 916 682 3742, as well as for Wayne Leibel's talk on June 12th entitled "Mid-Life Crisis, Aquarium Blues".

For those of you who are more forward looking than me, prepare for the CICHLIDAZE ACA Convention on

July 8th -11th in Detroit. Phil on 00 11 1 248 685 1317 can provide you with all the details you require or you can contact him at phil@netquest.com.

If you are looking for somewhere new to visit, then call Carl on 00 11 44 1706 353 363. He will provide you with details of the Greater Manchester Cichlid Society's next meeting on the last Tuesday of the month.

The GCCA Cichlid Classic will be held in Itasca on May 28th -30th. Brad on 00 11 1 708 481 7526 will book you in and provide comprehensive program information.

That is it ... except for Envy Corner:

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<i>Otopharynx</i> sp "Blue Otter" . . . . .1.5"	. . . . .8.00
<i>Neolamprologus brevis</i> . . . . .75"	. . . . .3.00
<i>Steatocranus tinanti</i> . . . . .Breeding group of 5	. . . . .85.00

That's enough until Next Month.

Make sure that you are at the

**June meeting**

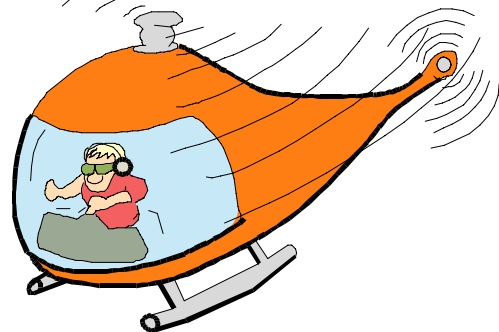
to hear

**Robert Coghlan**

inform us that

**“We Wouldn't  
be Here  
if it Wasn't  
for Fish”**

# Rowemin' 'Round



THE weather here in Melbourne through April has been too good to go cavorting around the world on a Magic Carpet ... even Los Angeles has had snow! We only have one call and that's to Sunshine Coast AS in answer to the invitation in the March issue of 'The Magazine of the

Sunshine Coast Aquarium Society'. They are finishing Bill Smith's Tank Mates for Cichlids Part 3 from 'Superfish' May/June 1991. As there are no more invitations we will just relax in the deck chair, put on the sunnies, pour a nice cold one and enjoy our MRIFL:

'Perth Cichlid Society Magazine' #33	Feb	PCS
'Cichlid Evening Post	Apr	Great Lakes CS
'Revue Francaise des Cichlidophiles'	Apr	Assoc France Cichlid
'DISCUSsions'	Mar	Australian Discus Assoc
'Cichlidae'	Mar	British Cichlid Assoc
'Newsletter 179'	Mar	British Cichlid Assoc
'Cichlidae Communique'	Mar/Apr	Pacific Coast CA
The invitations that were not cichlidly acceptable were:		
'Finchat'	Mar	Aquarium Soc of Victoria
'Fishtales'	Mar	Eastern Districts AS
'Aqua Chat'	Apr/May/Jun	Newcastle AS

Well that is it until next trip

*Eraben Rowing*

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# A New Way to Artificially Hatch Angelfish Eggs

Michael Loweth

I STARTED out just like most people. I bought some young Angels at my favorite pet shop, fed them, gave them a good home and did my water changes. Soon I had seven adult Angels in a 40-litre tank. Not long after that I had a pair. I moved the pair into a 75-litre. high tank, put in a piece of slate and waited.

After a couple of days the pair laid their eggs. But, like most young Angels they ate them. This happened with the next four spawnings. Then it happened! The pair laid their eggs and the eggs hatched. Oh joy, the fry are swimming. But shortly after this, they ate the fry.

Finally, I have a spawn and fry once again. Goody, the parents did not eat

them. I kept the fry with their parents until they were old enough to move.

I went from one pair to seven pairs. This is when I decided to artificially hatch the eggs. I went through the process of pulling the eggs out, putting them in a small separate tank, adding an airstone and, the part that I hated the most, adding the Methylene Blue.

Don't get me wrong; there is nothing wrong with Methylene Blue. But when you drop an open bottle on the floor and it splatters all over you and your bed spread, well ... you know what I mean! That is when I decided to come up with a new way to artificially hatch out Angel eggs.

The first thing I tried was not using Methylene Blue, but most of the eggs fungused. Then I tried other types of anti-bacteria. But they did not work any better than Blue.

Next I put the eggs in a 4-litre jar and placed the jar in a very dark closet - but that did



not work either. Altogether I tried about 15 different methods of hatching out the Angel eggs. But like the others, none of them worked.

Toward the end of my experiment on Angel eggs, I started to do water changes without removing the chlorine from the water. I found that doing water changes straight from the tap presented the least problem with fungus. Then it hit me! If leaving the chlorine in the water helps prevent bacteria and fungi, then why not try it on the eggs.

So, I took a jar and added water straight from the tap with a temperature of 27°C. Next I put the slate with the eggs in the jar. That's it... no Blue, no airstone, nothing. To my amazement not one of the eggs had fungused - not one.

To see if this was just a fluke, I set up four other spawns the same way. In all except one, there was no fungus. The eggs seemed fine. In the one jar that had fungus, only 10 eggs were fungused.

I have been using this method for over three years now and have no real problems. I do have a couple of eggs fungus every now and then, but I think that it has to do with their not being fertilised properly.

There are a few points I would like to bring up:

- ♦ This method might not work for you. It depends on tap water quality.
- ♦ There has been a lot of talk about the misuse of aquatic medications. The best way to cure your sick fish is to not let it get sick in the first

place. Do your water changes once or twice a week.

- ♦ A good varied diet helps. This will keep your fish healthy and happy.

If you are interested in breeding Angels keep in mind that your are (probably) not going to find very high quality Angels in a pet shop. You should go to a reputable breeder.

There are not many quality Angels out there any more. A lot of local top Angel breeders have either left the hobby or gone on to other aspects of the hobby.

If you are interested in breeding Angels on a large scale, give me a call (sorry, the number was not included in the article - Ed). I might be able to help you. ●

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# Visiting "Mr Peacock"

THE name means different things to different people, but when Ad. Konings gives someone that title, then it has a very special meaning.

A couple of weeks ago some mates, who shall remain nameless for reasons to be revealed later, suggested I join them on a trip to the President's fish room. Being a true addict, this was not to be missed.

I have had a fascination for fish rooms, sheds etc, ever since reading about them in 'Finchat' all those years ago as a kid - Ron Bowman, Joe Hammer, Arthur McHarry, etc. There have been few missed opportunities since and I have regretted every one). You can learn so much about fish, technology, ideas of what is beautiful, as well as gain friendships from a fish room visit.

I arrived on my own, coming from the bush as I was, and the two unnamed were already ensconced. The first thing you notice on arrival is a loud, low growl like a volcano erupt-



Mr Peacock: *Aussie Magnussen*

ing and then a deafening bark. It sounded like a whole pack of Rottweilers, but apparently there was only one. On being let inside (with unseemly haste), a couple more dogs check you out, but fortunately they are at the other end of the canine spectrum. They too have to be brought inside and out of the rotti's way for their protection.

Aussie brought "ferocious" (Kujo to some - Ed) inside while we went out to the fish room, but even so the door between him and us seemed pretty flimsy.

## The Fish

One of the first things you notice about Aussie's fish room is that it is a well established room, just crammed with fish. There are tanks all over the place with fish and fry in every direction. This clearly was the room of a great fish breeder. The specialty is obvious - Peacocks (Aulonocaras from Lake MaJawi). But there were other real treasures such as the seven-striped Frontosa, a few types of Julidochromis and Leptosoma, Synspilums, Parrot Cichlids, Septemfasciatums, Electric Yellows, Bristlenose, etc.

Of the Peacocks, some of the most stunning were Lwanda with very spectacular orange/yellow edges to the fins and a dark-blue body; Eureka Reds with paler bodies and bright-red patches; Ngarra with orange in between the rays of their tails, as well as on the body; an all-blue stuartgranti; bright-yellow chipokae; smaller fish like walteri; the long finned aquilonium as well as many others. About 25 different species in all. But one of them caught my eye over all of these and that was

ethelwynnae. It has very bright mid-blue dorsal and anal fins and a vertically striped body that alternates metallic bronze with black.

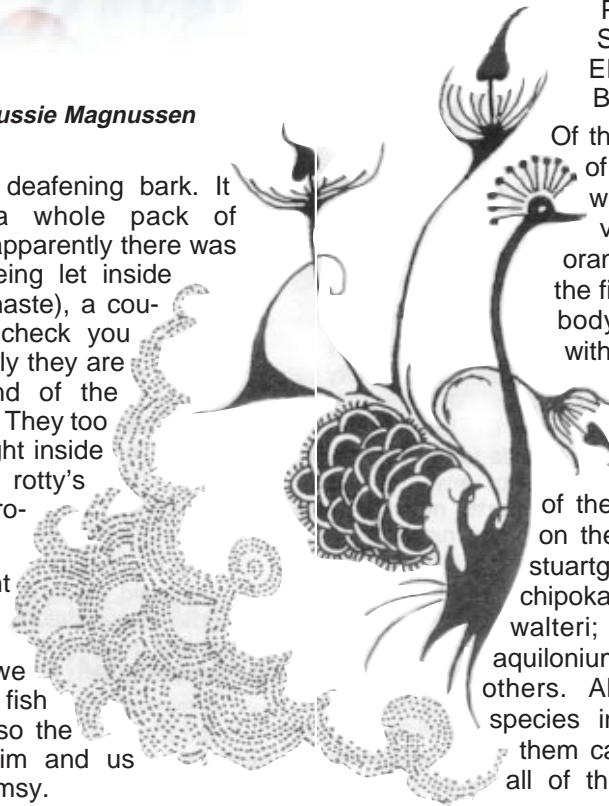
One of the main feature of Peacocks is that they hold their fins very erect and always look smart. They are not too aggressive and can fit in with a range of different cichlids.

One of the things that you notice about fish rooms containing mouth-brooders is that lots of the tanks have "babysavers" - icecream containers floating in the water with most of the sides cut away and fibreglass flywire mesh stuck on the outsides. This means that when the eggs or fry are taken, they can be safely raised in the same water that they were bred in. The water circulating through the mesh keeps the fry with a supply of oxygenated water. (I remember reading somewhere that you should leave the bottom of the container solid as adult fish have been known to suck fry and eggs through a mesh bottom.)

## The Tanks

For the big Frontys there was a 48"x 18"x 18" and one or two others about. 4 feet (1.2 m) long, but most tanks seemed to have a front 18" (45 cm) square and about 2' (60 cm) front to back. By having the tanks end-on you can fit more into a stand, provided it can cope with the depth. With the smaller size of tank you can cope with more species too.

Most of the tanks only had one species, certainly only one type of Peacock per tank,



The main form of filtration was undergravel, but as many of the filter plates had been exposed by the excavations of the fish, I presume filtration is not a big issue. The gravel, when it covered the plate was not very deep either. Aussie does about a 25 per cent water change every month.

normal circumstances the naked-flame-style heating would be quite suitable, but when you get certain visitors with certain proclivities, it can be quite dangerous.

The room had tanks in the top layer with water at about 27°C, while those on the bottom were about 23°C. There were fish breeding at all levels.



Photo: SCOTT HAYMES

*Aulonocara baenchi* "Chipoka"

A related issue here is that Aussie feeds a fair bit of adult brineshrimp, which are a very popular live food and can be used to entice fish out of hiding when they are nervous of strangers. But from a filtration point of view, there is not much left over and virtually nothing is wasted. Also the latest flake food is used and I wonder if this means there is a smaller load on the filter than if pellets were used for example.

### Heating

Aussie has a gas heater and a "Dimplex"-style electric heater. Under

At 23° there was a tank of Parrot Cichlids with a school of fry.

Overall this was an inspiring visit. I have a couple of new "starter" colonies of Peacocks and look forward to having as much pleasure from them as Aussie obviously has from his. Learning from Mr Peacock has certainly been a good start.

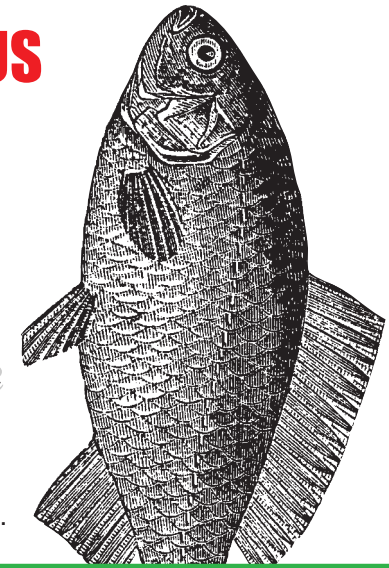
The title "Mr Peacock"? Ad Konings says that Aussie's collection of Peacocks is the best in Australia, so he has autographed the wall over the fishhouse door to that effect.

*Cuz*

## COME UP AND SHOW US YOUR ETCHINGS ...

### The Elaine Turner Memorial Art & Photographic Competition

will be judged at the November meeting.



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**Interested collectors, please contact Graham Rowe.**

# Recently, in a Fish Tank Near You ...

These fish have recently been registered with the BAA:

*Aequidens rivulatus*  
*Apistogramma agassizi*  
*Apistogramma borelli*  
*Apistogramma cacatuoides*  
*Aulonocara baenschi* "Benga"  
*Aulonocara jacobfriebergi*  
*Aulonocara sp* "Masinje"  
*Aulonocara sp* "Pinkowsky"  
*Callochromis melanostigma*  
*Chalinochromis brichardi*  
*Copadichromis borleyi*

*Cyrtocara moorii*  
*Labidochromis caeruleus*  
*Lethrinops oculus*  
*Maravichromis obtusus*  
*Maylandia callainos*  
*Metriaclima estherae*  
*Metriaclima lombardoi*  
*Metriaclima zebra*  
*Ophthalmotilapia boops*  
*Ophthalmotilapia nasuta*  
*Otopharynx sp* "Granderus"  
*Pelvicachromis subocellatus* "Matadi"  
*Protomelas taeniolatus*  
*Pseudotropheus lombardoi*  
*Sciaenochromis fryeri*

In the future all spawnings will be listed in the magazine in the above raw form with no reference to who spawned them. This list is about three months' registrations of spawnings that span several years.

## WARDLEY TABLE SHOW CALENDAR 1999

	Kevin Archibald Show	Keith Patford Show
February	Angels, Uarus and Discus	Lake Malawians
March	South Americans	Lake Tanganyikans
April	Central Americans	African Riverines and Lake Victorians
May	South Americans	Lake Malawians
June	Dwarf Americans	Dwarf Africans
July	Central Americans	Lake Tanganyikans
August	Pairs (American)	Pairs (African)
September	South Americans	Lake Malawians
October	Central Americans	African Riverine and Lake Victorians
November	Angels, Uarus and Discus	Lake Tanganyikans
December	American of Your Choice	African of Your Choice

*We have some special friends that  
you might like to meet also ...*

### **EASTERN DISTRICTS AQUARIUM SOCIETY**

Meets on the 4th Friday of month at the Willis Room,  
Nunawading Civic Centre, Whitehorse Rd, Nunawading.  
Ring 9802 3968 for more information or write to:  
PO Box 502, Ringwood 3134.

### **AUSTRALIAN & NEW GUINEA FISHES ASSOCIATION**

Ring 9725 3665 for more information or write to:  
PO Box 502, Ringwood 3134.

### **AQUARIUM SOCIETY OF VICTORIA**

Meets on the last Thursday of the month  
at 29 Grant Street, Clifton Hill.  
Ring 9478 6028 for more information or write to:  
PO Box 140, Clifton Hill 3068.

### **Victorian Cichlid Society MEMBERSHIP APPLICATIONS**

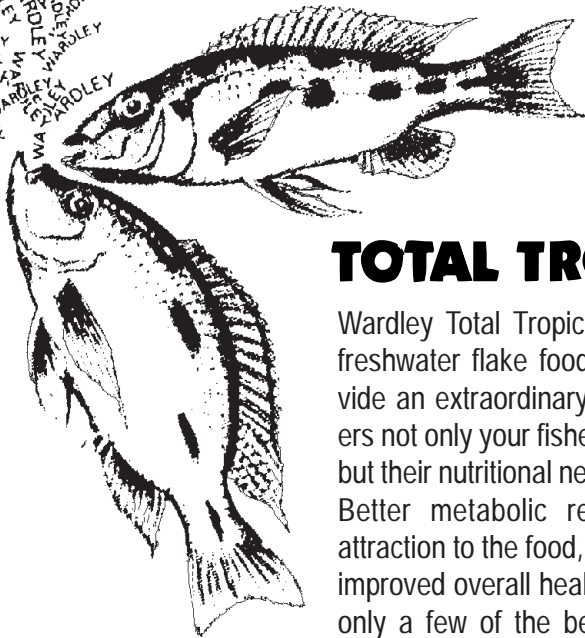
**or other enquiries may be directed to:  
The Secretary, Graham Rowe  
23 Mangana Drive, Mulgrave Vic 3170  
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## TOTAL TROPICAL

Wardley Total Tropical is the ultimate freshwater flake food, created to provide an extraordinary diet that considers not only your fishes health of today, but their nutritional needs for tomorrow. Better metabolic responses, faster attraction to the food, brilliant color and improved overall health and vitality are only a few of the benefits of feeding Total Tropical as your everyday staple food. Total Tropical begins where all other staple foods leave off.

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