

modern AQUARIUM



September 2015
volume XXII
number 7

Greater City Aquarium Society - New York



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modern AQUARIUM

Series III Vol. XXII, No. 7 September, 2015

ON THE COVER

Our cover photo this month is once again from our Fishy Friends Facebook page. The fish is *Labidochromis caeruleus*, the electric yellow lab. This brightly colored, relatively peaceful fish is certainly one of, if not the most popular of the African rift lake cichlids.

Photo by Joseph Gurrado

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From the Editor

by Dan Radebaugh

The winners of the annual FAAS Publication Awards have been announced. So far we have only the information on the Greater City Winners, whom you will find listed on page 10. Once we receive the complete list of *all* the winners, we will publish that as well. These article competitions are a great way to let us know what is going on in fish clubs around the country, and even beyond.

Please also take note of Al Priest's (our FAAS Representative) comments in his summary article on the page facing the awards. I could not agree more. We see a myriad of aquarium fish and plants at our monthly auctions, and in photos on our 'Fishy Friends' Facebook page. I'd really love to see some articles telling us more about them. What do they eat? What water conditions are most conducive for them to thrive?

That's why we have guest speakers! That's why we have a **Modern Aquarium!** Enquiring minds want to know! That's someone else's slogan, but you get the point. Remember, you don't have to be famous, or to have a string of letters following your name to write a useful article. All you need to do is observe, record, and report. After that, it's up to the editors and proof-readers to make it ready for your readers. It isn't even necessary to sound as though you're an expert. Often people people who are very good with the fish themselves don't care too much about 'going by the book.' That isn't necessarily a bad thing. Sometimes thinking outside the box can lead to a more effective approach than has generally been used before. We can all learn something. Part of the ethic of any art, or science for that matter, is to pass along what you have learned.

So dive in! The water isn't too deep! Read the articles in this issue. Do any of them seem to be too complicated for you to understand? If not, you can probably write one too!

Remember, we need articles. We *always* need articles! **Modern Aquarium** is produced by and for the members of Greater City Aquarium Society. Our members are our authors, and with ten issues per year,



we use them up quickly. I know several of you are keeping and/or breeding fish, or working with plants or invertebrates that I would like to know more about, and I'm certain other members would be interested as well.

Share your experience with us. Write about your successes! Maybe even mention some of your failures. Sometimes those are more instructive than the successes. If you're a little unsure about the state of your writing technique, don't worry – that's why there are editors. If you don't share what you know, who will?

If you have an article, photo, or drawing that you'd like to submit for inclusion in *Modern Aquarium*, it's easy to do! You may email it to gcas@earthlink.net, fax it to me at (877) 299-0522, or just hand it to me at a meeting. However you get it to me I'll be delighted to receive it!





GCAS Programs 2015

It is our great fortune to have another admirable cast of speakers who have so graciously accepted our invitation to join us throughout the coming season, bringing us their extensive knowledge and experiences. You certainly won't wish to miss a moment of our prominent guests, not to mention the friends, fish, warmth, and camaraderie that accompanies each meeting.

March 4	Joseph Ferdenzi <i>A Beginner's Guide to Aquarium Equipment</i>
April 1	Jules Birnbaum <i>The Building of a Dream</i>
May 6	Richard Pierce <i>Seahorses, Seadragons, and Pipefish</i>
June 3	Jeffrey Bollbach <i>How to Get Rich Breeding Fish: My Obsession with Aquabid</i>
July 1	Mark Soberman <i>Keeping and Breeding Corydoras Catfish</i>
August 5	Silent Auction
September 2	Tom Keegan <i>How Fish Get Here, There, and Almost Anywhere</i>
October 7	Kevin Carr <i>Monster Cichlids</i>
November 4	Joseph Ferdenzi <i>Basic Marine Aquariums</i>
December 2	Holiday Party!

Articles submitted for consideration in **Modern Aquarium** (ISSN 2150-0940) must be received no later than the 10th day of the month prior to the month of publication. Please email submissions to gcas@earthlink.net, or fax to (877) 299-0522. Copyright 2015 by the Greater City Aquarium Society Inc., a not-for-profit New York State corporation. All rights reserved. Not-for-profit aquarium societies are hereby granted permission to reproduce articles and illustrations from this publication, **unless the article indicates that the copyrights have been retained by the author**, and provided reprints indicate source, and that two copies of the publication are sent to the Exchange Editor of this magazine. For online-only publications, copies may be sent via email to donnste@aol.com. Any other reproduction or commercial use of the material in this publication is prohibited without prior express written permission.

The Greater City Aquarium Society meets every month, except January and February. Members receive notice of meetings in the mail. For more information, contact: Dan Radebaugh (718) 458-8437 or email gcas@earthlink.net. Find out more, see previous issues, or leave us a message at our Internet Home Page: <http://www.greatercity.org> or <http://www.greatercity.com>.

President's Message

by Dan Radebaugh

In 2009 I became President of GCAS. Fortunately for me, we had an experienced Board of Governors that had been in place for years, on whom I could lean, and I could also (and still do) consult with former President Joe Ferdenzi on matters of importance. Joe and the other Board members continue to play an important role in the workings of the club, as they have for years. Which brings me to my point. We need to bring some newer members onto the Board. Many of our current Board members have been serving there for more years than I've even been a member (which is also starting to be longer than I can comfortably process). I can't imagine the club doing without them, but as we know, we all get older, and things can change.

When GCAS began back in 1922, I'm sure they likewise had a core group that made certain all the necessary things were in place to keep the Society a worthwhile organization to belong to. And here we are, closing in on a hundred years later. Those pioneer members are long gone, as are many of those who

came after them, yet the Society, while I'm certain it has changed, is still vibrant, thanks to those who have come after them, including all of us here tonight.

If you look at the masthead on your copy of **Modern Aquarium**, you'll see a list of our current

Board members, as well as the names of members who do other important things for the club. You may also notice that there are a few folks listed there that you haven't seen for a while. People's life situations are subject to change, and they may not be able to continue devote the time and effort that they have been. We currently need to fill a few openings, most notably Corresponding Secretary, Recording Secretary, and Programs.

If you would be willing to help out, please let me know. Or mention it to Marsha as you pick up your **Modern Aquarium**, or if there's another club member that you feel

comfortable talking with, mention it to them and have them pass your name along to me. Believe me, we need you!



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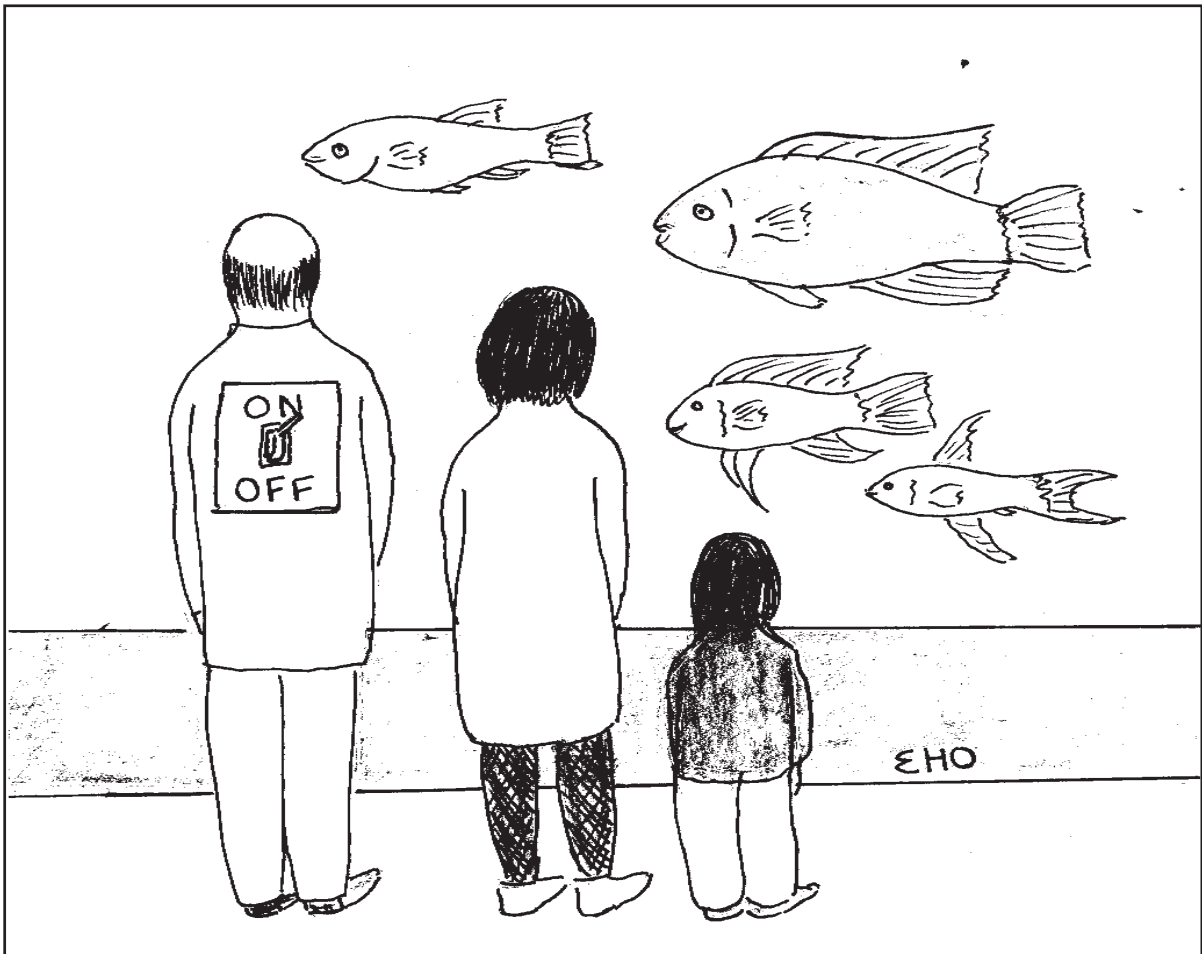
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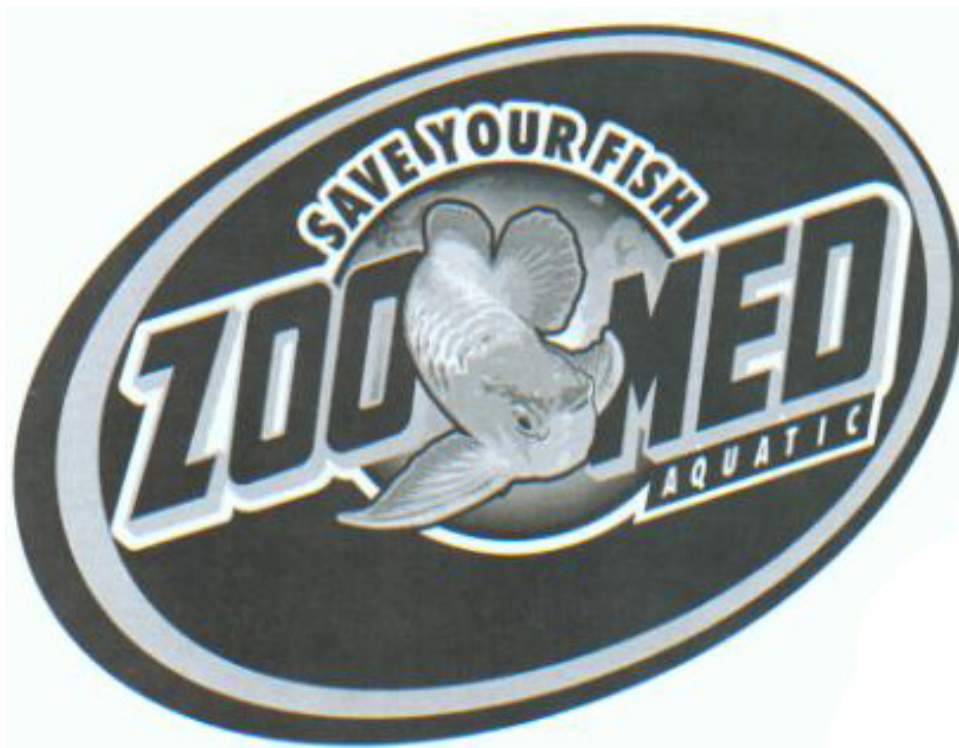
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August's Caption Winner: Artie Platt



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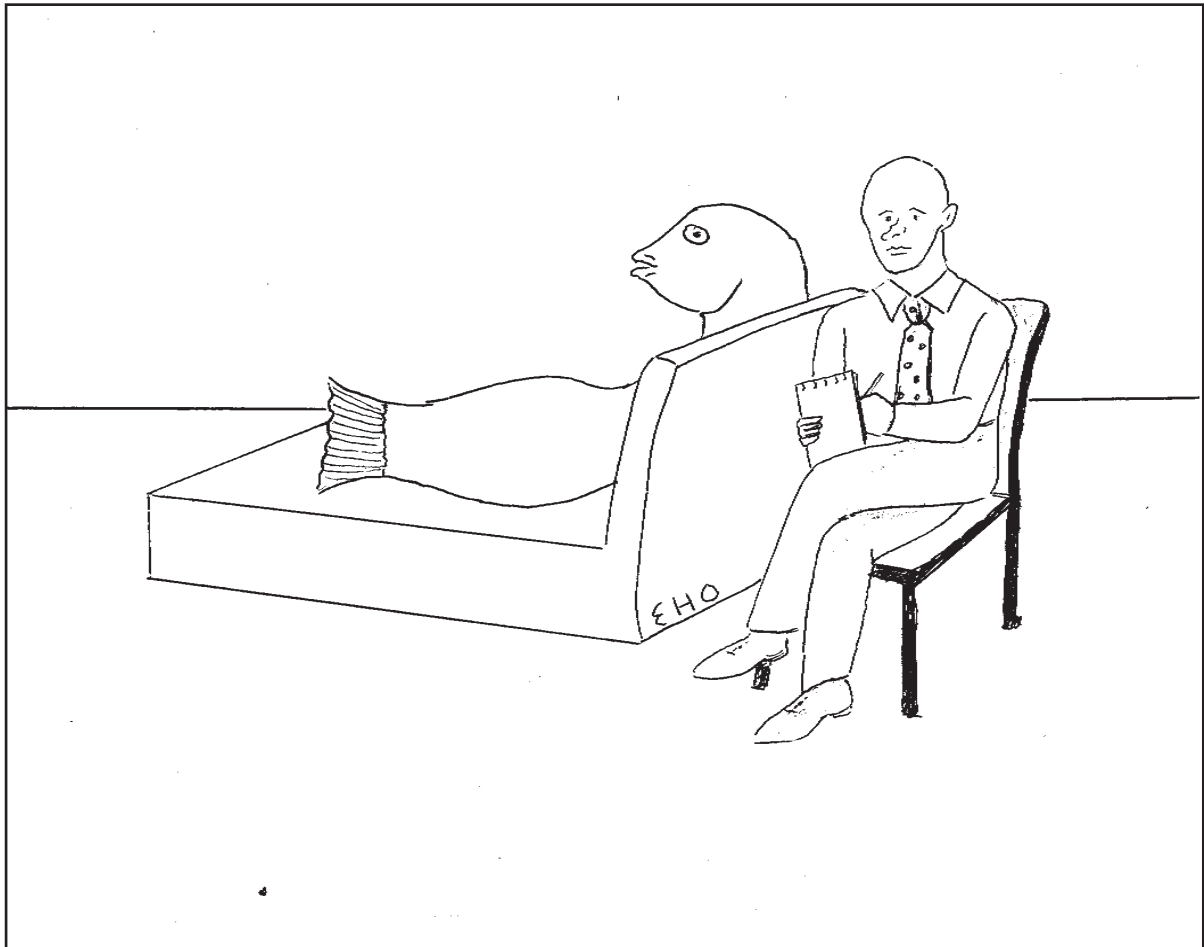
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The Modern Aquarium Cartoon Caption Contest

Modern Aquarium has featured cartoons before. This time though, you, the members of Greater City get to choose the caption! Just think of a good caption, then mail, email, or phone the Editor with your caption (phone: 347-866-1107, fax: 877-299-0522, email: gcas@earthlink.net. Your caption needs to reach the Editor by the third Wednesday of this month. We'll also hand out copies of this page at the meeting, which you can turn in to Marsha before leaving. Winning captions will earn ten points in our Author Awards program, qualifying you for participation in our special "Authors Only" raffle at our Holiday Party and Banquet. Put on your thinking caps!



Your Caption:

Your Name:

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The Mystery of the Aquarium Stock Company Sign Solved!

by Joseph Ferdenzi

In the November 2011 issue of **Modern Aquarium**, I wrote a short article about the fabled Aquarium Stock Company. Founded in 1910, it was for many decades New York City's, if not the nation's, premier aquarium store. An entire city block long, the store featured two entrances, the front one on Warren Street, and the back one on Murray Street, along West Broadway in Manhattan. In some ways, the "back" entrance on Murray Street was the more memorable, because it featured a large enamel and neon sign, hanging on a pole right over the sidewalk. You had to walk underneath it to enter the store.

I described that sign in the November 2011 **MA** article as being rectangular, red in color, and predominantly featuring an angelfish. After the store went out of business sometime in the mid-1980s, the sign was removed (although it did continue to hang for a few more years), and I'd always wondered what happened to it. My fear was that it had been trashed, which would have been a shame for this very unique symbol of an iconic store that represented a great deal about the history of the hobby, particularly in New York City. Such were my musings, until a rather unexpected event unfolded this past August.

Gary Bagnall, the founder and owner of ZooMed, was visiting my home on his way to the American Cichlid Association convention in Springfield, Massachusetts. Gary is not only a hobbyist and a big hobby supporter, but is also an avid and knowledgeable collector of aquarium antiquities.



Gary (left) with Steve Gruebel at Cameo Pet Shop.



It was as we were looking at my modest collection, that Gary asked me a question that was as startling to me as if he had said, "Joe, did you know they just discovered a living Brontosaurus in Central Park?"

What he actually asked was whether I had seen the Aquarium Stock Company sign that was up for sale on E-Bay (the online auction and shopping site). I simply couldn't believe what I was hearing! But

sure enough, I went to the site and there it was! Some collector of signs, who lived in New Jersey, was offering it for sale.

As the accompanying photo illustrates, my memory of the sign had been pretty accurate. The only difference was that the color was more maroon than red. And except for the loss of all the neon tubing, the

sign was in pretty good shape. This sign had to be preserved!

The sign was pretty large, about seven feet by five feet, and the asking price was way beyond my budget. These two factors all but ruled out my being able to acquire and display it. I knew, however, that Gary was also interested in saving the sign, but that he too felt that the asking price was too high. Nevertheless, I spoke to Gary that weekend about the possibility of combining forces to obtain the sign—that is, going 50-50 with Greater City, and allowing him to display the sign in his museum. Gary warmed to the idea, and went to work on negotiating a lower price. Before the ACA weekend was over, he had succeeded in getting the price reduced by almost 50 per cent! He then closed the deal, and the sign was ours.

The following week, the Board of Greater City unanimously approved the funds for our half of the purchase price. We now had a stake in the preservation of a unique artifact that is emblematic of the history of our hobby, and I couldn't have been happier, knowing that it would be carefully preserved by Gary. In fact, he is planning on doing some restoration work, including replacing the missing neon lights. I can't wait to see it when it's fully restored! Stay tuned...



Greater City's 2014 FAAS Publication Award Winners!

Best Editor & Publication, More than 6 Issues

3rd Place: Dan Radebaugh

Best FAAS-Related Article

1st Place: Alexander A. Priest

The 2013 FAAS Publication Awards

Best Review Article

1st Place: Susan Priest

The 101 Best Freshwater Nano Species, by
Mark Denaro & Rachel O'Leary

2nd Place: Dan Puleo

The LFS Report: Paradise Aquarium

3rd Place: Alexander A. Priest

Poly-Filter from Poly-Bio-Marine, Inc

Best Spawning Article more than 1000 words

2nd Place: Alexander A. Priest

The Reddish Dwarf Fighter: *Betta rutilans*

HM: Alexander A. Priest

The Simor Fighter: *Betta simorum*

Best Article on a Genus of Fish

2nd Place: Dan Radebaugh

Ein? Swai? Tra? Basa?

Best Article on a Species of Fish

2nd Place: Alexander A. Priest

The Reddish Dwarf Fighter: *Betta rutilans*

3rd Place: Alexander A. Priest

The Simor Fighter: *Betta simorum*

Best Marine Article on Fish

1st Place: Jeffrey Bollbach

Rules Are Made to be Broken

2nd Place: Stephen Sica

Midnight and Blue in the Coral Gardens of the
Parrotfish

3rd Place: Stephen Sica

The Queen Angelfish: *Holacanthus ciliaris*

Best Article on Aquascaping or Design

1st Place: Steven Hinshaw

The Jar that Stands the Test of Time

Best Article on Plant Maintenance, Cultivation or Reproduction

1st Place: Joseph Ferdenzi

Hornwort and Najas

HM: Rich Levy

The Cycle of Life

Best How to or Do it Yourself article

2nd Place: Elliot Oshins

Rules & Options

Best General Article on Society Management

1st Place: Joseph Ferdenzi

Do Guppies Get Along with Oscars?

Best Article on Health/Nutrition (Junior Category)

1st Place: Zachary Hammerman

What I Learned

Best Article on Health or Nutrition

2nd Place: Susan Priest

Angelfishes Don't Eat Broccoli

Best Collecting Article

2nd Place: Jeffrey Bollbach

Rules Are Made to be Broken

Best Traveling Aquarist Article

1st Place: Stephen Sica

Whale Shark Express at the Georgia
Aquarium

Best Humorous Article

1st Place: The Undergravel Reporter

Is it Soccer, or Fish Football?

2nd Place: The Undergravel Reporter

Celebrating Guppyween!

Best Cartoon

1st Place: Elliot Oshins

July Cartoon

2nd Place: Elliot Oshins

March Cartoon

3rd Place: Elliot Oshins

May Cartoon

HM: Elliot Oshins

August Cartoon

Best Conservation Article

2nd Place: Dan Radebaugh

Tampa Tilapia

Best Continuing Column

3rd Place: The Undergravel Reporter

The Undergravel Reporter

HM: Dan Puleo

The LFS Report

Best Article, All Other Categories

3rd Place: Steven Hinshaw

Exotic Aquarium Fishes: The Prize Catch

HM: Joseph Ferdenzi

The Nassau Pet Shop: Part II



Thoughts on the 2014 Federation of American Aquarium Societies Publication Awards



by Alexander A Priest

In the May 2015 issue of **Modern Aquarium**, the winners of the 2014 Article Awards from the Northeast Council of Aquarium Societies (NEC) were announced. In this issue, the winners of the 2014 Federation of Aquarium Societies (FAAS) Publication Awards for Greater City are listed. (As of this writing, the complete list of all winners from all aquarium society publications is not yet available. When it is, we will publish it, as has been our practice in prior years.)

As a former **Modern Aquarium** editor, I'd like to make a few observations and comments. First of all, congratulations to all of the winners. Greater City "swept" three FAAS award categories: "Best Review Article," "Best Marine Fish Article," and "Best Cartoon" (and, a special congrats to Elliot Oshins for single-handedly sweeping the latter category). In total, articles featured in **Modern Aquarium** collected an impressive total of **33 awards!**

But (yes, there's almost always a "but") why don't we have more Greater City authors? Granted, not every article wins an NEC or FAAS award, but every original article submitted for **Modern Aquarium** is eligible, and like they say in the commercial for the New York Lottery "You gotta be in it to win it!" Where are the articles on killifish, catfish, and all those cichlids our members breed and bring to our auctions every month, and am I the only one at Greater City keeping anabandoids (bettas, gouramies, ctenopomas, etc.)? Is my wife, Susan, the only woman at Greater City who keeps fish? I haven't yet met a female who doesn't have something to say! (I'll likely get comments on that remark, which would only prove my point.)

Some societies require an article before a member can claim Breeder Award points. I've read many of those articles and most of them are just about what you would expect of something someone was required to do (remember those essays from your own school days). Even so, I very often see fish species at our auctions that I might be tempted to take home and try, but since I knew absolutely nothing about them I don't bid.

True, I could search the Internet for information after I won the fish, but if I later find that I don't have the right equipment or skills to maintain those fish I have to hope they will stay alive until I auction them off the following month. Our multiple-award winning contributor Elliot Oshins has recommended putting care information on each bag of fish entered in the auction, and I certainly agree. Just basic information about maximum adult size, spawning methodology (egg layer, egg scatterer, bubble-nest builder, livebearer, etc.). and water parameters (pH, hardness, temperature) would suffice.

While you are researching basic information for your auction bag, you could read just a little bit more and write an article, including that basic information along with where the species is found in the wild, and a physical description (and if there is sexual dimorphism, the external physical differences between the sexes). A very good place to start looking for this information is on FishBase (<http://www.fishbase.org/>). To the FishBase information add a description of the tank you kept the fish in (substrate; filtration; plants, caves, rocks, or other objects; heater, lighting, etc.) and you have an article worthy of consideration for a FAAS or NEC award.

Finally, don't worry about grammar or spelling; when I was Editor I set up a system of proofreaders, which our current Editor has continued.





NORTHEAST WEEKEND

September 18th-20th

Hotel: Albany Airport Best Western

200 Wolf Road, Albany, NY, 12205, United States

Phone: 518/458-1000

Costs: Hotel - \$90.00 per night. Call (518) 458-1000 to make reservations. Make sure you tell them it is for the killifish convention.

Speakers: Richard Pierce on Fundulopanchax, Tony Pinto on his Collecting Trips, and Tom Grady on Updating the Nothos,

Banquet Speaker is: Mike Lucas on Collecting Natives

The weekend begins Friday evening with a speaker and then the traditional NEW beer and pizza party. Saturday will be the open table sales in the morning along with speakers throughout the day. The competition will be judged Saturday afternoon and the Awards Banquet will begin with cocktails at 6:00 PM. On Sunday, the First Ever – ALL SPECIES AUCTION will begin at 10:00 AM.

ALL SPECIES AUCTION SUNDAY

For the first time ever at a NEW, we are holding an all-species auction for anyone who wants to sell their fish or aquarium hard goods. The Auction will be 75/25 in favor of the vendor. It will be the first auction of the Autumn in the NY-New England (NEC) region.

There will be a shipment of Imported Killifish from Europe and many more species obtained specifically for this year's auction.

The Killifish Show

This is a fully sanctioned AKA competition. Points awarded will go towards the Killifish Exhibitor of the Year. All mail-in fish entered in the competition are auctioned Sunday.

Fish not mailed in may be taken home.

Fish must arrive at the hotel by Friday Sept. 18th. Mail-ins are to be sent to the Best Western address above with the notation: Killie Show.

Event Registration: \$30.00. Saturday Italian buffet banquet: \$30.00. Payment may be sent to:

PayPal: unyka@aka.org or make checks out to Tom Grady (27 Webster St., Malone, NY, 12953)

Burned Out?

by Jules Birnbaum

Burnout is defined as the condition of someone who has become very physically and emotionally tired of doing a difficult job over a long time.

While recently attending a meeting of a local killifish club, I started a conversation with a member whom I had not seen in over a year. This member had once told me he had two fishrooms. He had won prizes for his fish at national conventions. He had had articles published in national aquarist magazines. Why was he not attending meetings? His answer was "burnout." He just had too many tanks to handle, and he said it had become drudgery.

Elliot Oshins, our sage senior-citizen Greater City member, once gave me two pieces of advice. Don't bite off more than you can chew, and don't kill your back by lifting heavy buckets of water. Joe Ferdenzi has a saying that if it has more than three parts he won't have it in his fishroom. Keeping it simple is one way of guarding against burnout in our hobby.

Although I have never met a fish I did not like, I've tried to follow Elliot's advice by keeping his number of tanks to a reasonable total. I also try not to lift 5 gallon buckets, which can weigh 50 pounds or more each. Even a 2 ½ gallon bucket can weigh nearly 25 pounds when full, and you will eventually strain your back.

Form habits by scheduling regular maintenance of your tank or tanks at specific times. My time is late Monday afternoons. This will relieve some of the stress from doing these chores when you would rather be watching TV or reading. Every once in a while change the routine. Do the maintenance in the morning or evening, or on another day, but still on a regular basis. Variety is the spice of life.

Try new things to energize yourself, such as purchasing a new piece of equipment or a new fish, or redecorate a tank. Stay away from your tanks for one day a week. It will refresh you, and won't hurt your fish. Above all, do attend our meetings. These can be a form of group therapy. It is a way of seeing how others are doing things to make life easier. Ask questions of our experts and get their opinions.

If burnout does hit you, try bringing some of your fish to the club auctions, to local pet shops, or give some away to friends. Cutting down on the number tanks you're keeping will certainly help. I like being in my fishroom watching my fish and working

with my tanks. Last Monday I spent four hours vacuuming tank bottoms and doing water changes. It is an escape from the outside world and all its problems. It relaxes my mind.

When I go to the gym, which is three times a week, I try to change exercises, the number of repetitions, the sets, and even the days. I notice the trainers do this regularly with their clients. I've been working out since I was thirteen years old, and have never experienced burnout.

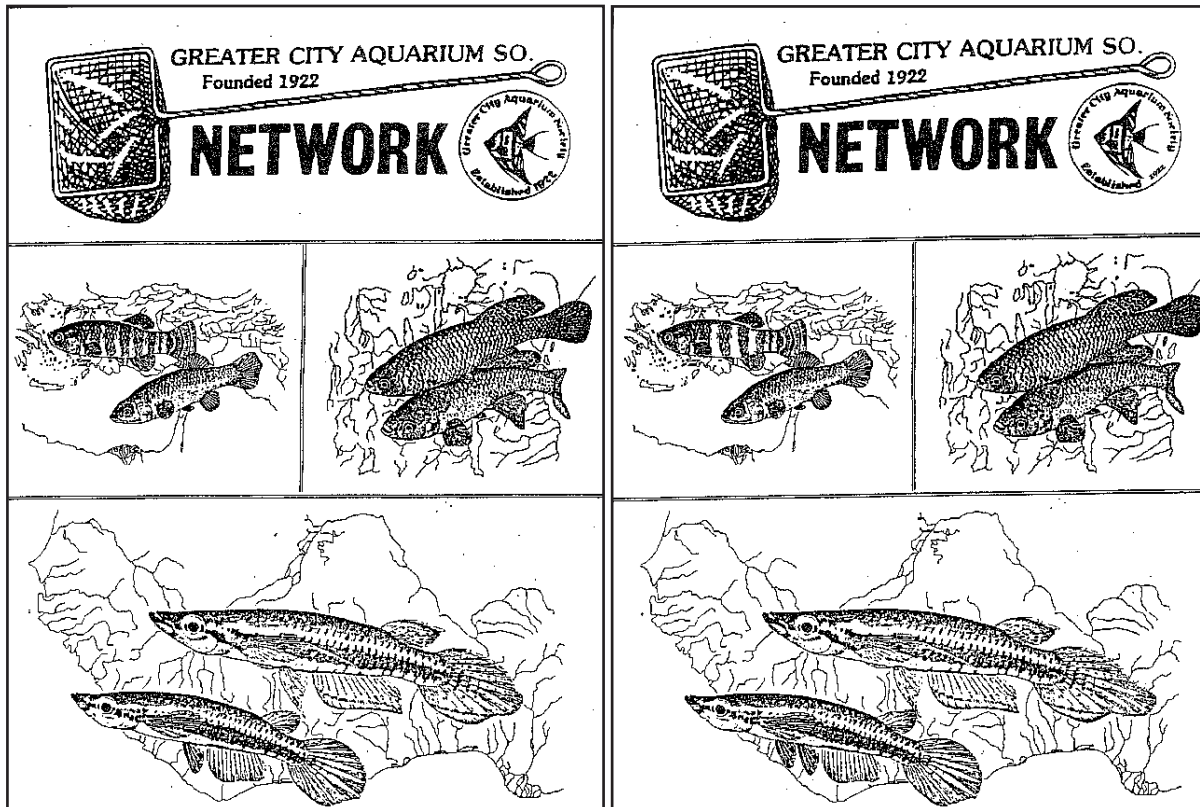
If you should experience tropical fish burnout, there is help available. Just remember, variety is the spice of life. Enjoy it!



Can You Spot the Changes?

by Horst Gerber

*How observant are you? The images below are from the cover of **Network**, our predecessor to **Modern Aquarium** (Series III) back in the 1990s. Below are two versions of the June 1993 cover, with a few subtle differences introduced between the two. How many can you find?*



Answers:
 Slight change in net webbing
 Greater City logo -- different font
 Left Square: One less stripe on killie on right.
 Right Square: Pair on right has an extra island between the tails.
 Right Square: Adipose fin missing from male on the right.
 Right Square: Background map above male shows three lakes vs one in the left square.
 Bottom rectangle: Male on right has extended tail.
 Bottom rectangle: Female on right has pointed dorsal.
 Bottom rectangle: Female on right has two pectoral fins.

Creativity

by Elliot Oshins

At our August fish club meetings, our silent auction/fleamarket, our donor-members clean out their basements, closets and, of course, their old shoeboxes, or anywhere else where they've stored their old or unused aquarium supplies. At the auction you can buy some really nice aquarium supplies, and also stuff that people want to get rid of (old fish tanks, heaters, lights, filters, and food). Believe it or not, we even see costume jewelry, and sometimes even pictures. I've bought some nice fish, and a light for one of my tanks.

While feeding my fish, I noticed that on one of my 50 gallon tanks, on the top of the tank that the glass covers rest on, the plastic cross-brace in the middle, in the front of the tank had separated from the main part of the tank. I was afraid that the water pressure would cause the glass would crack. So I emptied out half of the water, and the tank seemed to be OK. I was very lucky that the glass didn't crack. As

this was a 50 gallon tank containing fish from my 135 gallon cichlid tank, there was only one thing to do—buy a new 135 gallon tank!

I now had to make room for this new tank, but realized that I had two tanks to move, as the new tank was 6 feet long. Thinking quickly on my feet, I called on my two buddies for help. Unfortunately (or fortunately), my good friend Ed was on a mini-vacation, so I called another good friend, Artie (also known as "The Maven").

Artie went into action, and I volunteered to help, but The Maven would not hear of it. In no time he emptied out the fish into a large plastic container, and we moved the two tanks. Maybe that's why they call him the Maven. Thanks again, Artie!

I needed plants for my new tank, and Ed was nice enough to take me to Monster Aquarium in Flushing. They have some very nice fish and plants, and the

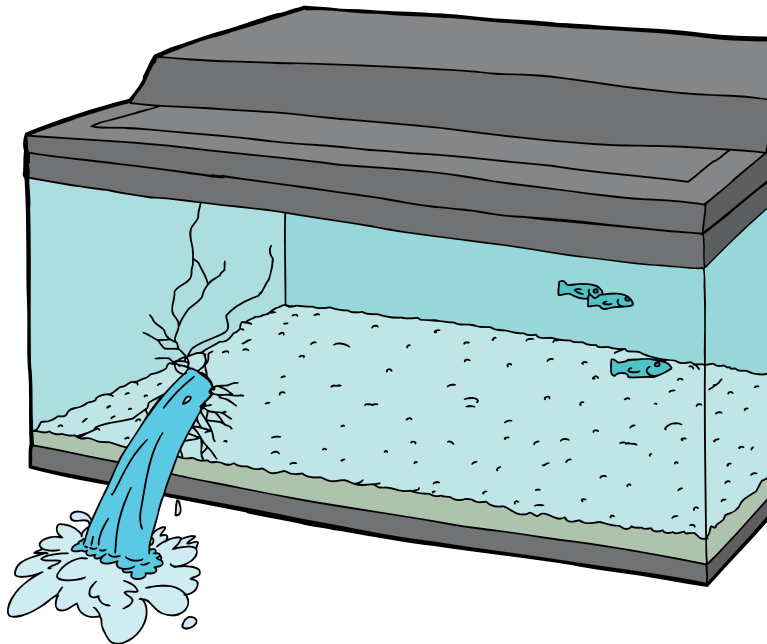
prices are right. A real nice store for the seasoned hobbyist (and a shout out to Monster Aquarium for advertising in our club magazine).

So I made my 135 gallon tank into a planted tank with some so-called rocks that serve as a hiding places (the inside of the artificial rocks are hollow), and two pieces of driftwood and a sailing ship man 'o war with a big hole in it. I think from cannon fire (only kidding). The inhabitants are two sets of angelfish, nine clown loaches, and some melini catfish. Personally, I think I did a very good job, as the tank has never looked so good.

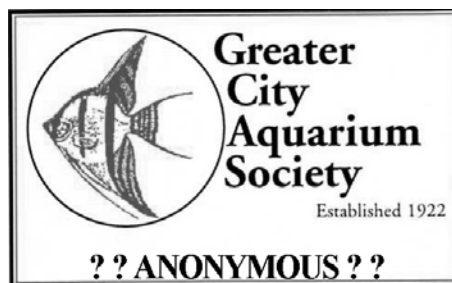
I invited my good friend Jack over with a buddy of his. I took them into my den to show them my oscar-winning tank, which I was very proud of. I thought I had done a fabulous job. Not a word from Jack and his friend. I thought I had outdone myself. Not a word. I was deflated. At this point everything went gray with their lack of enthusiasm about

my new tank. I think a can of shoe polish would have made a better impression.

However, that day the sun was out and it was a beautiful day. All the flowers outside my house were in full bloom. Well you can't please everyone, and you can't win 'em all! So to my pals Ed and Artie—please come over, and be sure to bring your wives! I want to show you my "new and improved" planted fish tank. I know you will all appreciate my efforts (and of course your efforts as well).



FISHKEEPERS ANONYMOUS



by SUSAN PRIEST

Take a guess as to how long it's been since you have seen **Fishkeepers Anonymous** among the pages of **Modern Aquarium**. If you guessed two years, you would be wrong, because that's what I guessed. I was startled to discover that it has actually been four years! It made its debut in March of 2006, and the first anonymous fishkeeper was our Gypsy Mermaid, Sharon Barnett. In April of 2010, we revealed Tommy Chang as our 26th autobiographer. Since then it has been hibernating.

I know that a lot of you have joined our ranks since then, and that you don't know what I'm talking about. Therefore, I will pull a few excerpts from the introductory article in 2006. **"It had often been suggested by the editorial team at the time, 'Wouldn't it be great if we had an interview column; questions and answers to and from our members.' 'We could generate biographies of the best fishkeepers in the world-US!'"**

This brings us to the part where **YOU** come in. **"You can answer as many or as few of the suggested questions as you want to, or you can make up your own questions and answer them, or you can just ramble,**

tell stories, or give advice. Tell us what you enjoy about being a fishkeeper, why you come to meetings-WHATEVER! Talk to us about those aspects of your 'Fishkeeper Within' which you feel will be of interest or assistance to your fellow GCAS members. To those of you who find yourselves completely overcome with silliness, I offer you the option of creating a 'Fictional Fishkeeper.' Whatever approach you choose to take, have fun with it."

I have to admit that I never would have thought of re-introducing this column if it hadn't been for this month's author. I have had so much fun as I looked back over past issues, thinking I know who each fishkeeper is, and being wrong most of the time.

I realize that I am rambling, and that it is time to move along. In my closing comments I will tell all of you how to participate. Until then . . .

I know you will enjoy our Anonymous Fishkeeper for March 2014.

Suggested Questions

- ✓ Please introduce yourself.
- ✓ Tell us about your favorite aquarium.
- ✓ What was your very first fish?
- ✓ Tell us about your education as a fishkeeper.
- ✓ Is there someone you think of as a mentor?
Tell us about him or her.
- ✓ Describe your "Fantasy Fish Tank."
- ✓ If you were a fish, which one would you be?
- ✓ Who is your "Hobby Hero?"
- ✓ What fish which you have never kept would you like to acquire?
- ✓ Describe your biggest fishkeeping "blooper!"
- ✓ Describe your most memorable fishkeeping experience.
- ✓ What changes have you seen in the hobby during your tenure as a fishkeeper?
- ✓ What advice would you give to a beginning fishkeeper?
- ✓ What are your fishkeeping goals?

- OR write a narrative story -

Please introduce yourself.

I am a longtime fishkeeper who is new to the GCAS. I have been a member for about a year now, and I wish I had found it sooner.

Tell us about your favorite aquarium.

My favorite aquarium is my 29 gallon planted tank. I currently have 4 tanks running.

What was your very first fish?

My father had an aquarium since I was very young and I really can't remember our first fish, but it was most likely a molly, a platy, a neon, or a swordtail. The tank had some live plants where the babies would hide.

Tell us about your education as a fishkeeper.

My real fishkeeping education began when I joined the Brooklyn Aquarium Society. At that time I had 3 tanks, 2 of which were saltwater. During the years attending the Brooklyn Society I learned a lot from the wonderful guest speakers and by reading aquarium magazines.

**Is there someone you think of as a mentor?
Tell us about him or her.**

I attended the meetings with two friends, and my brother-in-law who was an avid fishkeeper, and one of my friends was also a very experienced keeper.

If you were a fish, which one would you be?

This question about what fish I would like to be is tricky, but I would say a marine Emperor Angel.

Who is your "Hobby Hero?"

As far as hobby heros go I like Jack Wattle for his work with discus. Also, I really like the many folks around the world that keep beautiful freshwater planted show tanks. One of my favorites is World Ranking #1 International Aquatic Plants Layout Artist Truong Thinh Ngo from Viet Nam. As you might be able to tell by now, I'm really into planted tanks. All four of my aquariums are live planted, two of which are running CO₂ systems and high tech lighting. The other two are low tech.

What fish which you have never kept would you like to acquire?

I have never kept Cichlids, but since joining The Greater City Aquarium Society which appears to be a very Cichlid-oriented group, I started to become more interested.

Describe your biggest fishkeeping "blooper."

My biggest blooper is a common one. I started off with average equipment, and very quickly wanted to upgrade. Also, when starting new aquariums it was hard for me to be patient. I couldn't wait to stock the tank before really being cycled, thereby causing delays in the cycle. But now, with the wealth of knowledge I have gleaned from the Brooklyn and Greater City clubs, I know how to do it right.

Describe your most memorable fishkeeping experience.

I really think my best fish keeping experience is happening right now. All my tanks are doing very well, the fish are thriving, and my plants are growing beautifully.

What changes have you seen in the hobby during your tenure as a fishkeeper?

There have been lots of changes since my childhood days. The pumps were belt driven and the lights were not the best. I'm really into the changes in the hobby, especially the great lighting fixtures and CO₂ equipment. The heaters are so much better and the filtration systems are spectacular. On my 29 gallon planted tank I'm running a Whisper EX70 hang on back filter, an Eheim canister filter, and an Aquasun Quad T5 Lighting fixture. I have an Aquarium Carbon Doser CO₂ System with a Milwaukee pH Controller which turns the CO₂ on and off according to the pH and KH which I have set for the plants. The substrate I'm using is Eco Complete Black Planted.

What advice would you give to a beginning fishkeeper?

The best advice I have for new fishkeepers is to buy the best equipment you can afford. This will save you money in the long run because you won't have to upgrade. A new hobbyist can have a great low tech tank with live plants and great fish by starting out right with decent equipment. While the starter sets are nice and will get a new hobbyist up and running, the first problem to come up will be an underpowered filter. Starting with better lights and filters is the way to go.

What are your fishkeeping goals?

I really like the vintage metal frame tanks. I recently was given a complete 10 gallon tank with stainless steel trim and a matching stainless steel hood. The setup even had the original old fashioned ornaments. The tank was in my neighbor's basement for over 40 years, just tucked away on a shelf. Currently I'm testing the tank for leakage, but I can't wait to set it up with the plastic ornaments. It will be a perfect vintage aquarium, not a natural tank, but like the tanks from 1960.

Thank you, #27! You talk about being impatient, and that is how I feel right now. I can't wait to tell everyone more about you, but we'll keep them guessing until next month.

Now, for all of you new and not-so-new members who want to share your fishkeeping adventures and advice with the rest of us, here's how. Just answer as many of the suggested questions from the first page of this article as you want, or tell your story in your own way. We have never had anyone submit a photo layout! And even if you have been an anonymous fishkeeper before, that doesn't mean you can't do so again. You can e-mail your submissions to me at snpriest@yahoo.com, or hand it to me at a meeting in whatever format you like, including hand written. (I'll be the one with a camera.) Will you be #28?



Post Script To New and Not-So-New Members

Some of you have fond memories of the **Fishkeepers Anonymous** column, and some of you have never seen it before. The example you have just read was the most recent contribution, which was originally published in March 2014. Prior to that, between 2006 and 2010, twenty six other members of GCAS made their anonymous mark. (If you would like to read some of these, you can scan through the copies of **Modern Aquarium** for those years which Dan has posted on the GCAS website.)

The anonymous part comes in because I don't reveal the identity of the fishkeeper until the following month. In this particular case I am going to make an exception and tell you that it was contributed at the time by Joe Gurrado of **Fishy Friends** fame.

Please consider participating. As I hope you can tell by the simple instructions and the example provided, it is FUN and EASY to do. Your fishkeeping experiences are of interest to the rest of us. The paragraph above the angelfish logo tells you how to make a submission. I hope to hear from many of you.

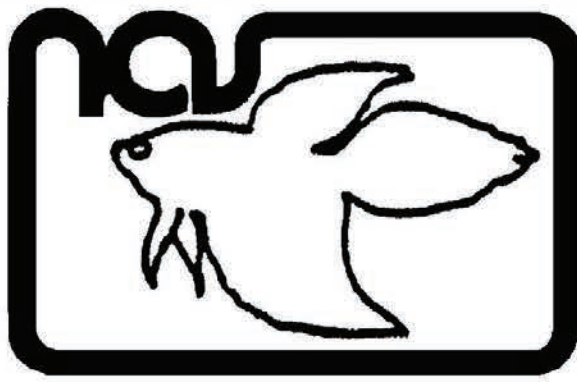
Sue Priest

Fishy Friends' Photos

by Greater City Aquarium Society Fishy Friends

***H**ere is another installment of our newest ongoing column. These are photo submissions to our "Fishy Friends" Facebook group. Regular readers will notice that this month there are no names on the photos. That's because in honor of Sue Priest's preceding article, all the photos this month are by her model (formerly) Anonymous Fishkeeper, Joe Gurrado!*





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Nomorhamphus ebrardtii

The Red Finned Halfbeak

by Ben Slocum, MAS, ALA

As a lover of livebearing fishes, I have been blessed to keep and breed many different species, from *Poecilia reticula* to *Girardinichthys multiradiatus*. I have found some to be easy, but others not so much. I would classify my fish room as a “warm” room, which makes keeping colder water species such as Goodeids difficult in the summer months, and only slightly easier in the winter. The room is a part of my garage, so the floor and lower level tanks tend to be 4 to 5 degrees cooler than the upper ones. I have been able to be diverse in the species kept, restricted only by their availability.

Last spring I was able to procure two pairs of juvenile *Nomorhamphus ebrardtii*, the red finned halfbeak. This species is from Sulawesi tenggara, a province of Indonesia on the island of Sulawesi, and have been in the hobby for quite a while. Originally described by C.M.L. Popta (1912) as *Dermogenys ebrardtii* (this was the name under which they were sold to me), they are now valid as *Nomorhamphus ebrardtii*.

They were a little larger than an inch, still somewhat plain in coloration, but very healthy. I placed them in a 30 gallon long aquarium, filled with yarn mops and assorted plants. In my research of this species' water requirements, I learned that they can be found in either brackish or freshwater. I went with freshwater, with a pH of 7.4, 300ppm hardness, and 78°F temperature.

I was able to find a good deal of mosquito larvae earlier this summer, and my *Nomorhamphus ebrardtii* relished them. Because of the nutritional value of live food, coupled with a high quality flake food, they grew quickly. I lost one of the males, but the other grew to 2 inches, with the females hitting 3 inches.

After a time, the females became gravid, though not as much as I thought they would. I believe it was because they are a longer-bodied fish, unlike other livebearers such as *Poecilia reticula* or similar species, which really show their gravidity. I began to notice that they would become smaller in girth, and since I never saw fry, I assumed they were being eaten by either one parent or both.



I have heard that halfbeaks, as well as many other livebearers, drop their fry in the early morning hours. This was not the case with mine. Hoping to see fry, I removed the male when I noticed the females become larger.

I have found that “the watched pot never boils,” so I didn’t spend a great deal of time looking for fry—after all, they had a lot of hiding places in which to find cover.

While crushing ramshorn snails in their tank one afternoon, I noticed a group of nine fry huddled together in one corner, eyeing one of the females, who was equally interested in them. I quickly removed them and placed them in a 2 gallon nursery tank. I had a 20 gallon long tank open, so I waited a day to get the water parameters similar before adding the fry.

They quickly acclimated to their new digs, and were joined three days later by an additional 15 siblings! Both females dropped within a few days of each other, and continued to do so for the next couple of months, before I passed them on to a friend. The fry grew as quickly as their parents did, and at two months old they were in the one-inch range.

I would consider this species to be fairly easy to keep and breed. Given lots of room and the right foods, they will reward you with many hours of enjoyment. Blessings!



Reprinted from *Michiana Tropical Times*, October 2014, published by the Michiana Aquarium Society.



BOWL SHOW RULES

There is a Bowl Show at every GCAS meeting, except our Silent Auction/fleamarket meeting (August) and our Holiday Party and Awards Banquet meeting (December). These shows are open to all members of GCAS. Rules are as follows:

- Only current GCAS members may enter fish in the Bowl Show.
- There is a limit of 2 entries per member per meeting.
- Unlike some other clubs, every month is an “open” Bowl Show at the GCAS (i.e., there is no “theme,” such that one month cichlids are judged, the next livebearers, the next anabantoids, etc.).
- Any fish that wins any prize (1st, 2nd, or 3rd) may not be entered again in the same meeting year.
- The current Bowl Show Coordinator is Leonard Ramroop, who usually also serves as judge (although guest speakers are often asked to do the judging honors).
- 2.5 gallon containers are available for use (brought to the meetings by the Bowl Show Coordinator), but entrants are responsible for providing enough (and suitable) water for their fish.
- For a fish too large (or too small) for those containers, entrants must supply a suitable container, which must be clear on at least three sides.
- Only one fish per container (i.e., no “pairs”).
- No plants, ornaments, or equipment (filters, airstone, etc.) are allowed in the judging tank (an external mirror, or opaque cards between containers is acceptable, as is a cover that does not obstruct side viewing).
- Points are awarded: 5 points for 1st Place, 3 for 2nd Place, and 1 for 3rd Place.
- Ribbons are awarded: blue for 1st Place, red for 2nd Place, and green for 3rd Place.
- The person with the most points at the end of the meeting season receives the Walter Hubel “Bowl Show Champion” trophy at the Awards Banquet.
- The decision of the judge(s) is final.
- A running UNOFFICIAL total of the points awarded is printed in **Modern Aquarium**. Only the tally of points maintained by the Bowl Show Coordinator is official.
- **In case of ties:**
 - 1st Tiebreaker – most 1st Places
 - 2nd Tiebreaker – most 2nd Places
 - 3rd Tiebreaker – most entries

AN AQUARIST'S JOURNEY

Story and Photos (unless noted) by Rosario LaCorte

Chapter 17

The following year I decided to return to Brazil, and after making arrangements with Roberto Takase, I arrived there on June 3, 1981. I once again stayed at the home of Donna Antonetta, who worked with the Museu Zoologia in São Paulo. The cost of staying there was very inexpensive—about \$11 per day, which included three meals, as well as laundry.

Once I got settled in, I called the family of Silvia Destro, one of the young ladies who a few years earlier had accompanied a group of us on our first trip to Registro. She had been working with one of the fishery departments associated with the museum. I had become fairly good friends with her and her fiancé, Ricardo Tevasan. Her father spoke fairly good English, but Silvia and Ricardo did not. Speaking with her father, Silvio, I learned that Silvia had gone to an agricultural station, and would be away for a few days. He would inform her and Ricardo that I was in town, and they would call me upon her return.

Meanwhile, Roberto told me that he was arranging to pick up some pond raised Oscars (*Astronotus ocellatus*), which he intended to sell at his retail shop. So on June 5th, 1981, Roberto Takase, Job da Silva and his ten-year-old son, and I departed at 9 AM for Cachoeira, Do Emas, Pirassununga, which is approximately 230 km northeast of São Paulo. The weather there is very beautiful, and the river is swift and picturesque as it passes over the many rocks. Above the rocky formations is a man-made dam which is used to generate hydro-electric power. The river is called the Rio Moji Guassu, and is part of the Rio Parana drainage system.

We arrived at about noon. The location was part of a fish agriculture station, and as we parked near one of the buildings used by aquaculture students, we noticed a group of students congregated in front of the building. I suddenly turned to Roberto and asked, "Isn't that Silvia Destro with that group of students?" He looked, and replied, "Yes, it is," and at about the same time the group looked our way, and Roberto and I waved. We greeted one another—amazed to have met in this fashion. Neither she nor her family had

known I was coming to Brazil, and running into one another so far from São Paulo was just incredible! We chatted a bit, and she promised that she and Ricardo would contact me upon my return to São Paulo, which they did.

From the agricultural station we proceeded to the Rio Moji Guassu, which was close by. The river is home to many species of fish, including large catfish and curimata. The only fish we found that would be suitable for home aquariums was *Aphyocharax dentatus*. The area was not suitable for seining, so gathering a cross-section of species was not feasible. A fisherman was cleaning his catch alongside the river, and besides curimata, he also had some *Prochilodus*.



Silvia Destro, Mithine Takino, and Carlos, the driver.

After spending some time collecting in the river, we returned to the agricultural station and collected in some of their ponds.

Hemigrammus marginatus was probably the nicest characin for aquarium purposes. The aquaculture station was reproducing large numbers of silvery *Prochilodus* species, artificially, as we do with trout. These fish are quite tasty, and highly

prized as food fish. All in all, the trip to Pirassununga was a nice experience, though only a few aquarium fishes were encountered.

Persio de Souza Santo Filhos was to be my guide to the south, where I hoped to collect some cyprinodonts. I had met Persio back in 1979, when we collected in the Rio area and along the north coastal region. So on June 12, 1981 Persio and I set out for Paranaguá, in the south. While Brazil lacks an extensive rail system, one can get a bus to almost any region. The first leg of our journey lasted through the evening. After a 2-hour layover in Curitiba we boarded another bus to Paranaguá.

Persio, who was quite adventurous, had been to many places on his own, collecting cyprinodonts and sleeping on the ground. He told me that on one occasion while traveling in the south, he had decided to bed down on a pile of clam shells. The following morning he was arrested; the authorities telling him that the place was a sacred Indian burial ground and he was not permitted to be there.

As we continued along the highway, Persio decided to disembark from the bus in an area that was quite desolate. The terrain appeared to be suitable for finding cyprinodonts, particularly annuals. Our primary target was *Leptolebias aureoguttatus*, and the area was close to where Dr. George S. Myers had collected them in 1952. I had to wonder what the other passengers thought about these two young men departing the bus on such a lonely stretch of highway.

After a two hour search we had found nothing but some *Phalloceros* species and some *Coelurichthys lateralis*, so we decided to hitch-hike to Guaratuba, but to no avail. After about two hours we were able to flag down a bus, on which we continued our journey to Guaratuba. Arriving at the bus station, we took a taxi to the ferry which would take us across to the opposite shore of the bay. We then walked about half a mile to the town. I was becoming quite tired, as I was carrying all my camera equipment plus some additional clothing and toiletry items.

Stopping at a food store, I bought some seeds of *Araucaria angustifolia*, (called Pinheiro do Paraná by the Brazilians, though not a true pine tree) whose seeds have historically been important for both Native Americans and wildlife. We had a bite to eat, and afterwards purchased a large flashlight, with which to



Araucaria angustifolia is a handsome tree, and the first time I saw it I was truly impressed with its stature. One could clearly see that the tree was a remnant of a different age. Fossils of this tree are found throughout the world, because of continental drift. Surviving species are found only in Australia, with seven species, and in South America, with two.

When Europeans immigrated to Brazil they cut many of these wonderful trees down. The Brazilian government became aware of the massive deforestation that was taking place, and now they are protected from logging. The seeds are eaten – usually boiled in water and then cooled. I brought some home with me and cooked them. They were tasty, but not as good as chestnuts, which to me have a better flavor.

collect fish in the dark. We took a taxi to the outskirts of town, opposite Brejatuba Beach, then walked along a road which was about 500 feet off the main road, until we reached a swampy area—all this in pitch darkness except for the flashlight.

Persio took a sweep with the hand net in a blackwater ditch, and captured about fifty fish, the predominant species being the aforementioned *Coelurichthys lateralis* (at that time incorrectly called *Mimagoniatus barberi*), as well as some *Rachoviscus crassiceps*, *Phalloceras*, *Hollandichthys multifasciatus*, and *Scleromystax macropterus*. The water measured 66° Fahrenheit, with a pH between 5.5 and 6.0, and a hardness of less than 50 PPM.

On Sunday morning, June 14, 1981, we departed from Guanatuba, Paraná, bound for Garuva, Santa Catarina. Arriving in Garuva, we waited an hour and a half for a bus to Itapoá, where we planned to search for *Campellolebias brucei*. After a long ride through a very scenic area we arrived in Itapoá, a small resort town on the coast.

A few years prior to this journey, Persio had been to this area and collected about eighty young cyprinodonts, but was unable to determine their identity. Returning to São Paulo, he was able to rear them to size, and determined that they were *Campellolebias brucei*. I did not see them live, but did see some preserved, and every specimen was large, with extraordinary finnage.

Persio's main feeding regimen was mosquito larvae. He collected them from receptacles in his yard, in which he kept sour water to attract mosquitos to deposit their egg rafts. Once the larvae were of appropriate size, he would collect them for feeding.

The ditch from which he had collected those earlier specimens was located a few hundred feet from the ocean. It is a sandy beach area, and at the time there was a food vendor's structure which sold items one might expect to find at any beach resort. A few summer homes were scattered about, and now after all these years I am sure that the area is heavily developed for human habitation.

Collecting in the ditch netted mostly *Phalloceras*; no cyprinodonts were found. Further down, there was a bend in the ditch which revealed a drainage area further inland, containing a small blackwater lake that fed the ditch. The bottom of the ditch was very sandy, and running my fingers through the sand at the bottom dislodged numerous chironomid larvae.

Where the ditch met the larger basin I collected some *Coelurichthys lateralis*. In the wild, this fish presents a magnificent array of colors—displaying a rich mahogany-red with yellows. As I've mentioned before, the problem with some of these wonderful species is that oftentimes, after a few days in the aquarium, the richness of their wild colors is lost. I now had this great opportunity to capture their color immediately after capture.



Leptolebias aureoguttatus



Hollandichthys multifasciatus



Aphyocharax dentatus



Scleromystax macropterus



Rachoviscus crassiceps



Coelurichthys lateralis



Campellolebias brucei



Persio de Sousa Filho on left, with Jose Lima de Figueredo and Nelson Papavero (two well known Brazilian scientists).

Up to this time I had never seen a photo of this species showing its true colors in any publication. I placed my photo tank on a small mound and positioned myself to photograph them with their true wild colors. I had to lay in a prone position in order to focus on the *Coelurichthys lateralis*. In doing so I was exposed to some fire ants, which began to bite. Though very uncomfortable, I needed the photo in order to capture the true colors, which are lost in the aquarium in one day or less.

Years later, I was able to supply Dr. Stanley Weitzman with the photos I took that day for

a presentation he was giving in England on Glandulocaudas. Drs. Weitzman and Naercio Menezes are the foremost ichthyologists who have written extensively about this group of fishes and their remarkable reproductive behavior.

This trip that Persio and I had undertaken to the southeastern region was a wonderful and exciting adventure. Returning to São Paulo, I now turned my thoughts to plans I had made with Roberto Takase to drive north along the coast to Linhares, Espirito Santo.



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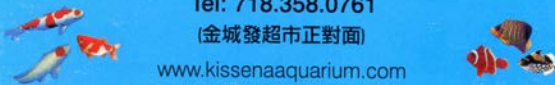
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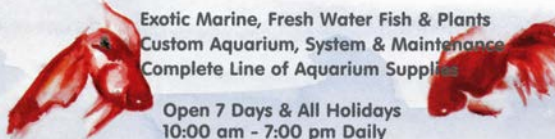
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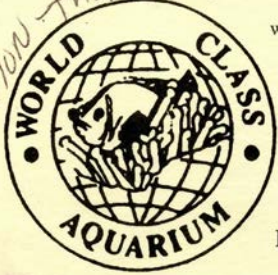


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GCAS Happenings

September

No Bowl Show Last Month

UNOFFICIAL 2015 BOWL SHOW TOTALS:
MARIO BENGCION 25 RICHARD WAIZMAN 20

A WARM WELCOME BACK TO RENEWING GCAS MEMBERS ARTIE MAYER, DICK MOORE, AND AKINWUNMI DUROJAIYE!

A SPECIAL WELCOME TO NEW GCAS MEMBER JAIME FEBUS!

Meeting times and locations of some of the aquarium societies in the Metropolitan New York City area:

GREATER CITY AQUARIUM SOCIETY

Next Meeting: October 7, 2015

Speaker: TBA

Event: TBA

Meets: Meets the first Wednesday of the month (except January & February) at 7:30pm:

Queens Botanical Garden

43-50 Main Street - Flushing, NY

Contact: Dan Radebaugh (347) 866-1107

Email: gcas@earthlink.net

Website: <http://www.greatercity.org>

BIG APPLE GUPPY CLUB

Meets: Last Tuesday each month (except Jan, Feb, July, and August) at 7:30-10:00pm.

Alley Pond Environmental Ctr.: 228-06 Northern Blvd.

Contact: Donald Curtin (718) 631-0538

BROOKLYN AQUARIUM SOCIETY

Next Meeting: September 11, 2015

Event: Rick Borstein

Topic: 60 Tips in 60 Minutes

Meets: 2nd Friday of the month (except July and August) at 7:30pm:

NY Aquarium - Education Hall, Brooklyn, NY

Call: BAS Events Hotline: (718) 837-4455

Website: <http://www.brooklynaquariumsociety.org>

LONG ISLAND AQUARIUM SOCIETY

Next Meeting: September 18, 2015

Speaker: TBA

Topic: TBA

Meets: 3rd Fridays (except July and August) 8:00pm.

Room 120 in Endeavor Hall on the State University at Stony Brook Campus, Stony Brook, NY

Email: Margaret Peterson - president@liasonline.org

Website: <http://liasonline.org/>

EAST COAST GUPPY ASSOCIATION

Meets: 2nd Tuesday of each month at 8:00 pm.

Alley Pond Environmental Ctr.: 228-06 Northern Blvd.

Contact: Gene Baudier (631) 345-6399

NASSAU COUNTY AQUARIUM SOCIETY

Next Meeting: September 9, 2015

Speaker: TBD

Topic: TBA

Meets: 2nd Tuesday of the month (except July and August) at 7:30 PM

Molloy College - Kellenberg Hall ~1000 Hempstead Ave - Rockville Centre, NY

Contact: Mike Foran (516) 798-6766

Website: <http://www.ncasweb.org>

NORTH JERSEY AQUARIUM SOCIETY

Next Meeting: September 15, 2015

Speaker: Larry Jinks

Topic: Breeding Fish

Meets at: Quality Inn, 10 Polito Ave, Lyndhurst NJ

Contact: NJAS Hotline at (732) 332-1392

Email: tcoletti@obius.jnj.com

Website: <http://www.njas.net/>

NORWALK AQUARIUM SOCIETY

Next Meeting: September 17, 2015

Speaker: TBA

Topic: TBA

Meets: 8:00 P.M. - 3rd Thursday of each month except for July & December at: Earthplace - the Nature Discovery Center - Westport, CT

Contact: Sal Silvestri

Call our toll free number (866) 219-4NAS

Email: salsilv44@yahoo.com

Website: <http://norwalkas.org/>

An Alien Among Us?

A series by "The Undergravel Reporter"

In spite of popular demand to the contrary, this humor and information column continues. As usual, it does NOT necessarily represent the opinions of the Editor, or of the Greater City Aquarium Society.

Popular Science recently reported that researchers at the University of Chicago and the University of California, Berkeley have sequenced the genome of the California two-spot octopus, *Octopus bimaculoides*, and have come up with some surprising discoveries.

The genome map reveals many genes that are unique to the octopus, including six genes that code for reflectins, the proteins that enable the animal's skin to employ their camouflage technique by reflecting light and changing color. Reflectin has recently been studied to harness its abilities to create a better camouflage material for soldiers or others¹. (I'm thinking Halloween costumes.)

The Octopus has 33,000 protein coding genes, much more than a human, and is different from any other creature on earth. This prompted headlines such as Aliens Are Among Us, And They're Octopuses! and statements such as "With three hearts, eight tentacles, a large brain and the ability to re-grow lost limbs, it certainly sounds like a creature you wouldn't want to meet down a dark alley."²



References

¹ <http://www.popsoci.com/scientists-sequence-first-octopus-genome>

² <http://skipthegloom.com/2015/08/13/aliens-are-among-us-and-theyre-octopuses/>

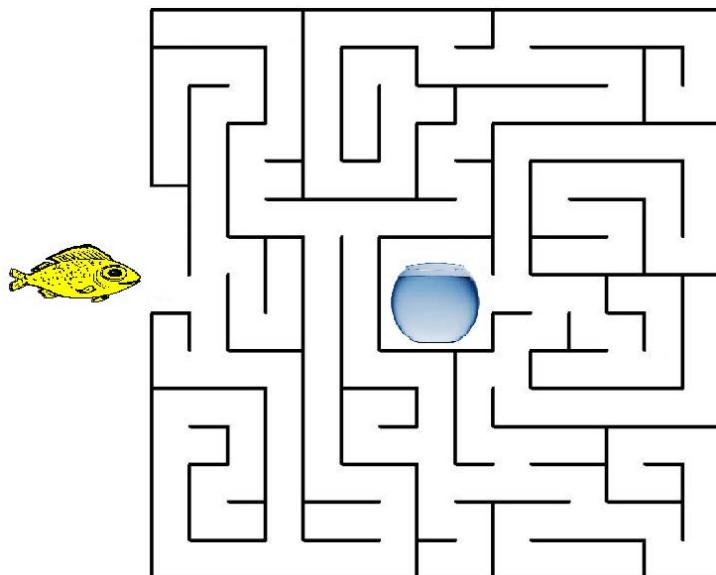


Fin Fun



Homeward Bound

Let's see if you can steer this stranded goldfish back to his bowl. Solution next month.



Solution to our last puzzle: **Seeing Double**

Genera	Species
<i>Apistogramma</i> or <i>Aulonocara</i>	<i>baenschi</i>
<i>Corydoras</i> or <i>Macropodus</i>	<i>concolor</i>
<i>Haplochromis</i> or <i>Pangio</i>	<i>fasciatus</i>
<i>Barbus</i> or <i>Danio</i>	<i>lineatus</i>
<i>Poecilia</i> or <i>Nothobranchius</i>	<i>maculatus</i>
<i>Lamprologus</i> or <i>Epiplatys</i>	<i>multifasciatus</i>
<i>Haplochromis</i> or <i>Julidochromis</i>	<i>ornatus</i>
<i>Corydoras</i> or <i>Neolamprologus</i>	<i>pulcher</i>
<i>Ameca</i> or <i>Betta</i>	<i>splendens</i>
<i>Apistogramma</i> or <i>Rasbora</i>	<i>trifasciata</i>

CLASH OF THE CICHLIDS 3

Coming September 26th 2015- The 3rd installment of the CCY Cichlid show

C3C



Clash of the Cichlids 3

With Mo Devlin

WHEN
September 26th 2015
1pm

WHERE
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Spring Grove PA 17362

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**GUEST SPEAKER:
MO DEVLIN !!**



Clash of the Cichlid
Judges



Fran Bethea
Matt Quinn
Rachel O'Leary



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DAVIS!!!**



