

modern AQUARIUM



May 2015
volume XXII
number 3

Greater City Aquarium Society - New York



347.732.0373

monsteraquarium@hotmail.com

131-08 40th Rd., Flushing, NY 11354

長江水族館

MONSTER AQUARIUM INC.

CARRIES IMPORTED EXOTIC FISH, SPECIAL ORDER,
FILTER REPAIRS, SET UP & MAINTENANCE (FRESHWATER ONLY).



專營：

- 各國熱帶觀賞魚類 • 水草 • 孔雀 • 埃及仙
- 七彩 • 斗魚 • 慈鯛 • 短鯛 • 河豚 • 鯰魚
- 異形 • 古代魚 • 鼠魚 • 魮魚 • 燈魚 • 花羅漢

另有各式水族器材用品



歡迎參觀 七天營業

Open 7 Days • 10am-8pm

347.732.0373

monsteraquarium@hotmail.com

131-08 40th Road, Flushing, NY 11354

BJ's / Skyview Mall 天景豪苑旁



modern AQUARIUM

Series III Vol. XXII, No. 3 May, 2015

ON THE COVER

Our cover this month once again features a photo submitted to our Greater City Fishy Friends group on Facebook. These attractive little catfishes are *Corydoras robineae*. Look on page 23 to see more Fishy Friends' photos.

Photo by Ruben Lugo

GREATER CITY AQUARIUM SOCIETY

BOARD MEMBERS

President.....Dan Radebaugh
Vice-President.....Edward Vukich
Treasurer.....Jules Birnbaum
Assistant Treasurer.....Ron Wiesenfeld
Corresponding Secretary.....Sean Cunningham
Recording Secretary.....Tommy Chang

MEMBERS AT LARGE

Pete D'Orio.....Al Grusell
Ben Haus.....Emma Haus
Jason Kerner.....Leonard Ramroop

COMMITTEE CHAIRS

Bowl Show.....Leonard Ramroop
Breeder Award.....Warren Feuer
Mark Soberman
Early Arrivals.....Al Grusell
F.A.A.S. Delegate.....Alexander A. Priest
Membership.....Marsha Radebaugh
N.E.C. Delegate.....Joe Gurrado
Programs.....Mark Soberman
Social Media.....Sharon Barnett
Technology Coordinator.....Warren Feuer

MODERN AQUARIUM

Editor in Chief.....Dan Radebaugh
Copy Editors.....Sharon Barnett
Susan Priest
Alexander A. Priest
Exchange Editors.....Stephen Sica
Donna Sosna Sica

In This Issue

From the Editor.....	2
G.C.A.S. 2015 Program Schedule.....	3
President's Message.....	4
The NEC 2014 Articles Competition.....	5
April's Caption Contest Winner.....	6
Cartoon Caption Contest.....	7
Sponsor Spotlight.....	9
Aqueon Aquarium Products by Edward Vukich	
The Collector's Obsession.....	10
Details of a Mystery Solved by Steven Hinshaw	
Pictures from our Last Meeting.....	18
by Susan Priest	
A Plague of Goldfish!!!?.....	21
by Dan Radebaugh	
Fishy Friends' Photos.....	23
An Aquarist's Journey.....	24
Chapter 13 by Rosario LaCorte	
Our Generous Sponsors and Advertisers.....	29
G.C.A.S. Classifieds.....	30
G.C.A.S. Member Discounts.....	31
G.C.A.S. Happenings.....	32
The Undergravel Reporter.....	33
Meet the World's First Octographer!	
Fin Fun (Puzzle Page).....	34
Getting to Know Seahorses	

From the Editor

by Dan Radebaugh

This issue kicks off with the results of the New England Council of Aquarium Societies' 2014 Articles Competition. **Modern Aquarium** authors fared very well, winning or sharing six of the fourteen awards. We handed out the award certificates at last month's meeting, and I'll reiterate here my thanks and congratulations to our participating authors. One of the reasons we belong to an aquarium club is to gain new information, and pass on information to others. Writing articles for our magazine is one of the most effective and lasting ways to share our hard-won knowledge and experience with one another. By saving and filing your magazines, you may one day be able to look up some desired information on a new fish you may have acquired. This is one way we can improve ourselves as fishkeepers. This has been one of the real strengths of this club for years before I came on the scene, and hopefully will continue to be so.

Following the recognition of last month's cartoon caption winner (Nice job, Denver—that was a tough one!) and an intriguing new cartoon, Ed Vukich introduces a new column, the "Sponsor Spotlight," to recognize the sponsors who help to make our club, and others, a rewarding place to come and share knowledge and fellowship. And fish!

Steve Hinshaw revisits us this issue with the "Final Chapter" of his series of articles chronicling Dr. William T. Innes' renowned book, **Exotic Aquarium Fishes**. For you collectors and historians, this is not to be missed! As to whether this is really the final chapter, well, we'll see...

Continuing in the historical vein, we have Chapter 13 of Rosario LaCorte's autobiography, **An Aquarist's Journey**.

I throw in an article inspired by a recent news event which drew a curiously large press reaction a few weeks ago. Sometimes it's informative to take a closer look at curious news items.

You'll find some photos from our Fishy Friends Facebook page, and some photos of our Fishkeeping Friends as well—see Sue Priest's "Photos From Our Last Meeting" on pages 16 and 17. The issue closes with old favorites that somehow always stay fresh: "The Undergravel Reporter," and "Fin Fun." Enjoy!



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 always, always need more articles. 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 it! 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 TBA
August 5	Silent Auction
September 2	Tom Keegan <i>How Fish Get Here, There, and Almost Anywhere</i>
October 7	Steve Lundblad TBA
November 4	TBA
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

First of all, thanks to Jules Birnbaum for his excellent presentation at our meeting last month. This evening we welcome Richard Pierce, who will talk about "Seahorses, Seadragons, and Pipefish." I look forward to it!

Congratulations are in order to Jeff Bollbach, Joe Ferdenzi, Zachary Hammerman, Steve Hinshaw, Susan Priest, and The Undergravel Reporter for their awards in the NEC's Articles Competition. Great work by all!

If you look at page 31 in your May issue of Modern Aquarium, you will see that it's devoted to business cards of local fish shops who offer discounts to Greater City members. Many thanks to Dan Puleo, who did the legwork for this project! We may be adding more shops to this list, so check it out each issue. Directly facing this page this month is our Classifieds page. Looking for something? See if there's one listed here! Have something you no longer need, but others might? List it! It's a free service for our members.

Dan



CORAL AQUARIUM

**Your Holistic Pet Food Center
In Jackson Heights**



- Freshwater Fish •Saltwater Fish •Live Corals •Fancy Goldfish
- Live Plants •Food & Supplies for All Pets
- Extensive Selection of Holistic Dog & Cat Foods

**Open Monday-Friday 10 am – 8 pm
Saturday 10 am – 7 pm & Sunday 12 pm – 6 pm**

ALL MAJOR CREDIT CARDS ACCEPTED

**75-05 Roosevelt Avenue, Jackson Heights
718-429-3934**



The NEC 2014

Articles Competition

Breeding

1. So Far So Good	Susan Priest	GCAS
2. Gold Tetras, Then Again Maybe Not!	Lisa Quilty	BASNY*
3. One of a Kind	John Todaro	BASNY*
3. The Easy Way to Breed Killifish	Joseph Ferdenzi	GCAS

Humor

1. Coffee and Worms	Harry W. Faustmann	LIAS***
2. Johnstown Flood Comes to the Iron Angel Beach	Chuck Davis	NJAS**
3. Circles of Life	Brian Candib	TFCB [±]

Open Class

1. The Jar That Stands the Test of Time	Steven Hinshaw	GCAS
2. Rules Are Made to be Broken	Jeff Bollbach	GCAS
3. TFCB, A 25 Year Journey	David L. Banks, Jr.	TFCB [±]

Continuing Columns

1. Dr. Paul's Fish of the Month	Paul Loiselle	NJAS**
2. The Undergravel Reporter	The Undergravel Reporter	GCAS
3. What Is It?	Karen Haas	ACLC ^{±±}

Junior

1. Our Youngest Author?	Zachary Hammerman	GCAS
2. The Pet Shanty	Paul Sherman	NJAS**

*Brooklyn Aquarium Society

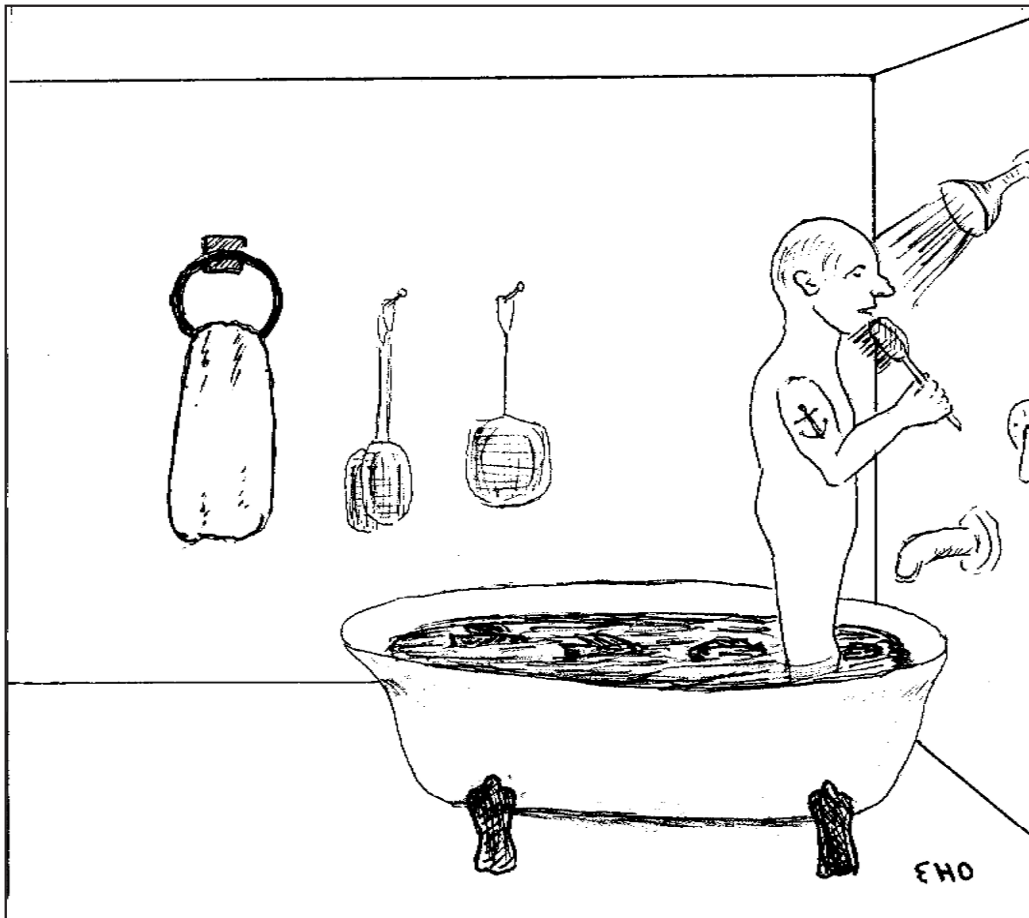
**North Jersey Aquarium Society

***Long Island Aquarium Society

[±]Tropical Fish Club of Burlington

^{±±}Aquarium Club of Lancaster County

April's Caption Winner: Denver Lettman



Flagship Diner, here I come!

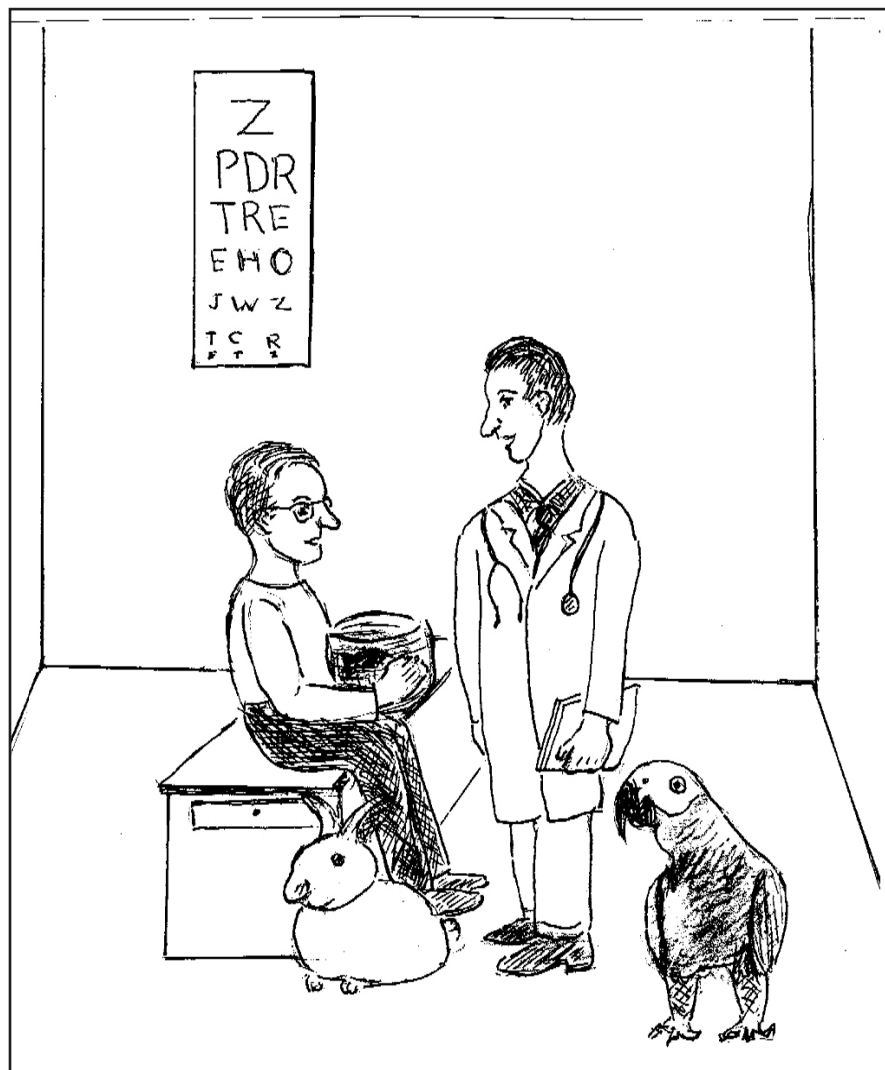
KINGFISH SERVICES.NET

(<http://www.kingfishservices.net/>)

Good for the
Hobby – Organizations – Industry
Ray “Kingfish” Lucas
Celebrating 25 years in the business
(1989-2014) of participating at your events.

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:

NEED COMPUTER HELP?

Virus/Spyware Removal \$79.00*

Wireless Setup \$49.00**

Optimization Special \$39.00*

Test Hard Drive and Memory
Eliminate Windows build-up
Remove Internet activity and accumulation
Accelerate Windows start-up



All Work Guaranteed
Professional, Friendly Service
On-Site Service in Your Home,
Office or Business

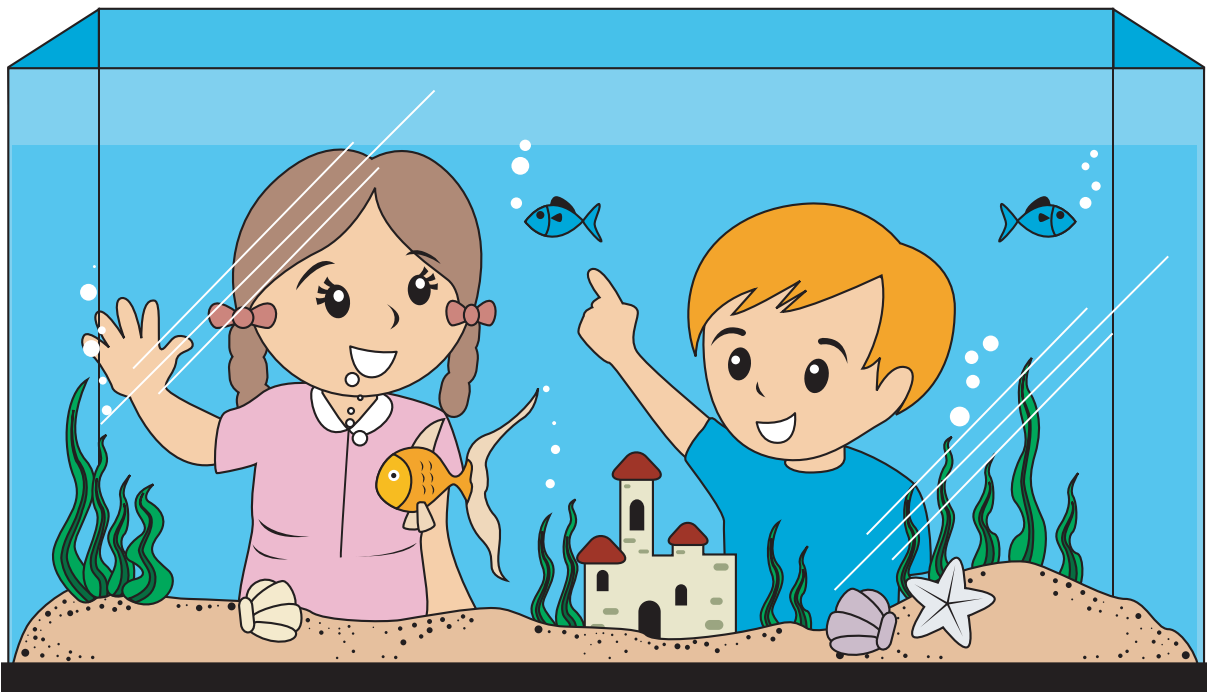
CompTIA® A+ Certified

Repairs & Upgrades • DSL & Cable Modems Installed • Home & Office Networking
Wireless Networks Installed • Computer & Peripherals Set Up • Troubleshooting & Optimization
Virus & Spyware Removal Specialist • Data Recovery • One-on-One Training

* \$15.00 Mobile charge

** Labor only. Equipment additional

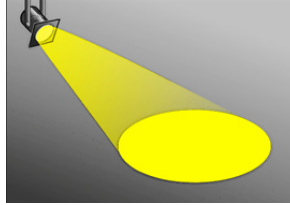
—— Call: 718-469-5444 • jasontech1@verizon.net ——



Support Fish in the Classroom!

If you have any 5 or 10 gallon tanks, or any filters, pumps, or plants that you could donate to NYC teacher Michael Paoli's classrooms, could you please bring them in or email Rich Levy (rlevy17@aol.com). If you'd like to donate larger tanks, be sure and email Rich so he can make sure Michael can accommodate it.

SPONSOR SPOTLIGHT



By Edward Vukich

Aqueon Aquarium Products

I think it only fitting that we recognize our generous sponsors within the pages of **Modern Aquarium** for all they do to help make the Greater City Aquarium Society so successful. We could not survive as a club, were it not for the continued generosity of our sponsors. I would also like to provide our members with a brief history and overview of the various products our sponsors offer to enhance our wonderful hobby. This month I will feature Aqueon, which has been most generous in supporting the GCAS, and a leader in the aquarium hobby.

Aqueon can trace its roots back to All Glass Aquarium, which was a mainstay in the aquarium industry for many years. I have numerous All Glass Aquariums down in my fishroom. However, the company wished to expand into a full line of aquarium products in addition to aquariums; thus a name change was required to reflect the extensive line of quality products that they offer us today.

In addition to their full line of aquariums in just about any size and shape, Aqueon also offers fish foods, power filters, water care products, lighting, including LEDs, aquarium stands and furniture as well as aquarium décor, heaters, and numerous aquarium accessories. They can supply just about anything you may need, and are committed to producing products to the highest quality and standards.

I can say from personal experience that their power filters are easy to use, work with a simple cartridge replacement system, and are self-priming, so that if you lose power for any reason, they will start right up when power is restored. I have used their Aqueon Pro heaters, available in 50 to 250 watt sizes, with great success. They are fully submersible, have an electronic thermostat, and are shatterproof, with no glass parts. This helps prevent the heater from breaking or shattering during water changes. We have probably all had that happen at some point. Why not give these heaters a try? I have also used their quality fish foods, and was most satisfied with the results; the fish seemed to relish the tasty morsels.

As mentioned earlier, Aqueon offers an extensive line of quality products for the hobbyist. Please visit their website at www.aqueonproducts.com for a complete overview of all they have to offer, and please remember to purchase their quality products from your local retailer whenever possible.

We again thank our friends at Aqueon for their continued support of the GCAS.



The Collector's Obsession

-or-

Details of a Mystery Solved:

The Final Chapter of the *EAF*s?

by Steven Hinshaw

Finishing our front porch on New Year's Day completed a three-year house remodeling project here in Alamo Heights, Texas—only to learn that my wife's job would be taking our family to Okinawa, Japan this summer! The house is up for sale, with everything inside squeaky clean and tidy. Having traded all my tools and some cash to get the house painted, I found myself needing a project during this transition. Crossing the date line, my opportunities will change. Thus my energy has focused on finishing up the collection of **Exotic Aquarium Fishes (EAF)** books, and sharing new information with you.

Several mysteries have been solved since my first article appeared in the March 2012 issue of **Modern Aquarium**. The most recent discovery being when edition numbers were printed on dust jackets (DJ); but at the same time a few other mysteries and quests have presented themselves.

Mystery solved! The 12th Edition was the first book to have a DJ edition number printed on it. This was revealed through the wealth of knowledge provided by members of the Yahoo Group's Aquarium Hobby Historical Society (AHHS). I'd like to thank Gary Bagnall of Zoo Med, who encouraged me to jump back into

the AHHS group, and whose insight into all things aquarium antique has proved invaluable! After posting some inquiries, I was honored to re-acquaint myself with a host of historical gurus, and meet Stuart Yamada, a serious book collector who has a vast collection of antique and vintage aquarium books, including a series of *EAF*'s with their dust jackets (Figure 1). Stuart's

collection includes all the dust jackets excluding the 1st to the 4th, and the 12th. The 11th Edition's dust jacket does not have an edition number printed on it (Figure 2). Once this was realized, another member produced a picture showing a 12th Edition book with its edition number on the DJ (Figures 3a & b)! This gentleman had owned the book for 20 years, but was willing to sell it after

some negotiation. It now holds a place of honor in my collection (Figure 4.).



Figure 1: Stuart Yamada's collection of *EAF*'s with dust jackets. Dust jackets are not present on the 1st to 4th (two variations), and 12th Editions.

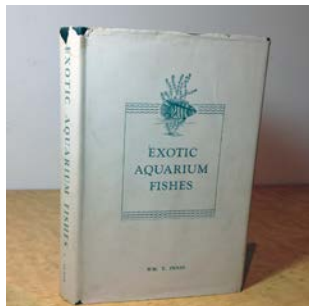


Figure 2: 11th Edition book with its dust jacket. Note that there is no edition number. The blue hue is an artifact of the camera lighting.

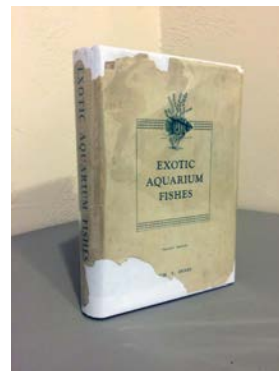


Figure 3a: 12th Edition book with its dust jacket. Note the edition number on the front.

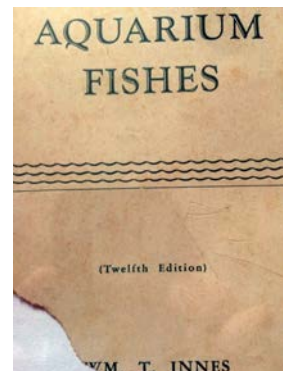


Figure 3b: Close-up of the 12th Edition dust jacket showing the edition number, where it all began.



Figure 3c: Inside view of another 9th Edition DJ. This DJ is inside a conservation DJ so it is difficult to see the texture. However, the blue hue is very apparent!



Figure 4 : Steven Hinshaw's collection of EAFs with dust jackets. Dust jackets are not present on the 1st to 5th editions and the 11th. There were no dust jackets issued with the later 19th to 21st editions.

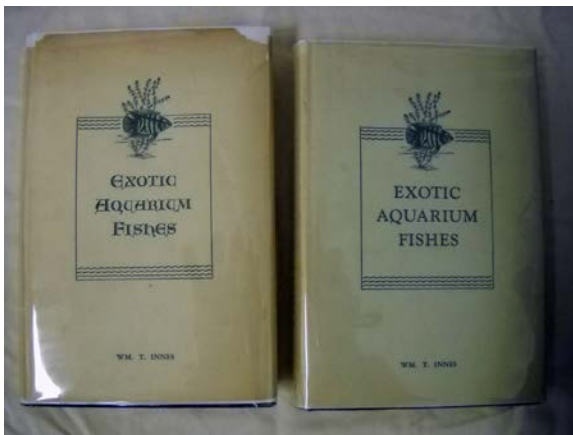


Figure 5: Goudy Lombardic "gothic" typeface DJ, left. Goudy Handtooled "traditional" DJ, right.



Figure 6: The dust jackets of a 5th and a 6th Edition from Stuart Yamada's collection. Note the "gothic" styled typeface on both, but blue ink on the 5th (left) and green ink on the 6th (a restored dust jacket, on the right). The 6th Edition in the Hinshaw Collection is also printed in green ink.

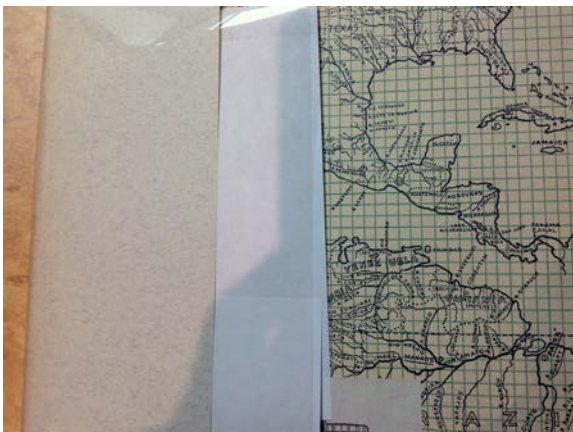


Figure 7a: Blue fiber interwoven into the paper of the 7th and 8th edition dust jackets as shown in this example.

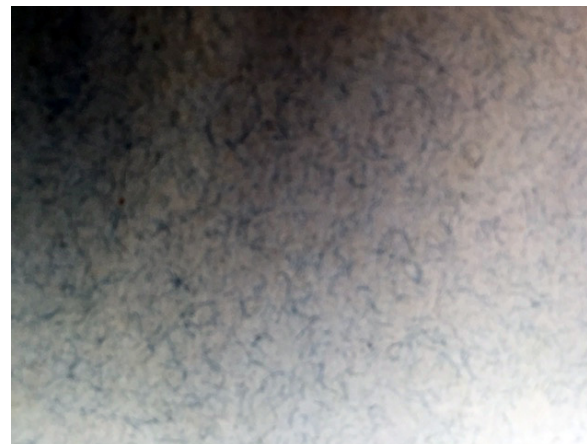


Figure 7b: Closer look at the blue fibers in the 7th and 8th Edition dust jackets.

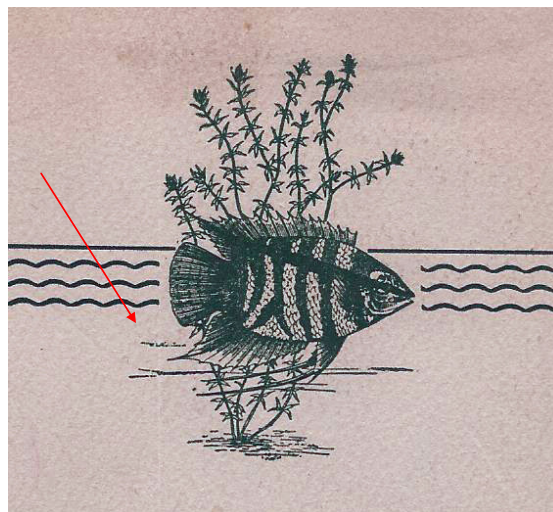
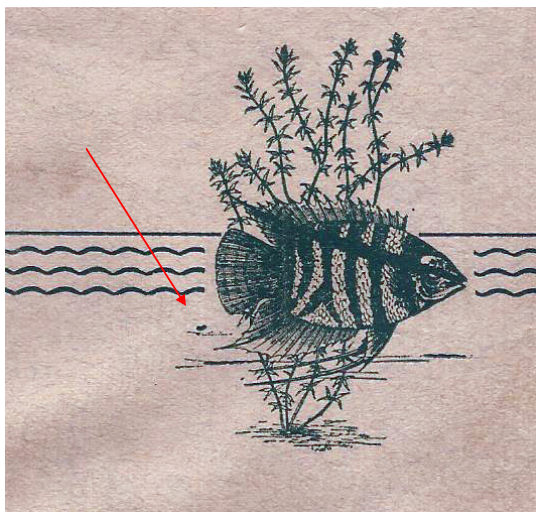


Figure 8a: Left—Mark or blotch on the 8th edition and earlier. Right—No mark starting with 9th edition.

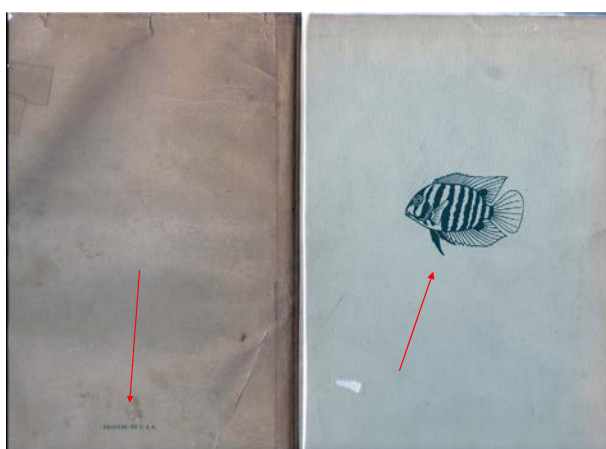


Figure 8b: Dust jacket back side: Note the “Printed in USA” on the bottom for dust jacket from the 8th edition and earlier (left). Note the cichlid on the back of the 9th and later.

Studying and comparing the collections, we were able to come up with some additional details that determine the age of dust jackets without having the book. The results are summarized in the table at the end of this article, but will be outlined here:

- A) Through our experiences, we have yet to find DJ’s for the 1st to the 4th edition books.
- B) The 5th Edition DJ is exactly the same as the 6th, having the Goudy Lombardic “gothic” typeface (Figure 5). However, it is printed with blue ink, while the 6th is printed with green ink (Figure 6).
- C) At the 7th Edition, the typeface changes to the Goudy Handtooled “traditional” style, which continues to the 18th Edition (Figure 5).
- D) The spine lettering runs from bottom to top in the 5th to the 8th editions (see Figure 1), but top to bottom from the 9th through the 19th.
- E) The 7th and 8th Edition DJ’s have blue fibers interwoven in their paper. These are the only two dust jackets to have this feature (Figures 7a & b).

F) On the front of the DJ for the 5th to the 8th Editions there is a small “mark” or blotch behind the caudal and below the anal fins of the cichlid. The back has the imprint “Printed in USA” at the bottom. This mark is absent from the 9th to the 18th Editions, and there is now a cichlid on the back instead of the “Printed in USA” (Figures 8a & 8b). Subjectively, the imprint in these later jackets appears slightly sharper—further indicating a change in the printing plates.

G) The 9th Edition DJ has thicker paper with a rougher texture. The overall white color has a blue hue (Figure 3c).

I should add that our collections mimic one another’s, but are not consistent with Stu Wheeler’s collection as described in his article about **EAF** DJs in **Collectors of Aquarium Literature** Number 22, February 1988, concerning typeface style and spine lettering orientation. One revealing feature is that the spine lettering in my 8th edition DJ runs from the top to the bottom; it should be the opposite when compared to Stu’s and Stuart’s collections, respectively. With recent verification that it does not contain the blue fibers, there is little doubt that this DJ was an imposter,

having come from a 9th or later edition! Fortunately, the proper DJ was located, and all is well.

Unsolved Mystery! Recalling my discussion in a previous **Modern Aquarium** article, spine label orientation differs between the European and USA markets, with the European style running bottom to top vs. the opposite in the USA. Knowing that these books were sold overseas, as evidenced by the early advertisements in **The Aquarium** magazine (**TA**) (see Figure 9), it would not be surprising to see a different lettering orientation for the European DJs. Another mystery presents itself here. The 10th Edition DJ in Stuart's collection has lettering from the top down, and is consistent in detail with the other DJs after the 9th. My 10th DJ is different, and came from England. The seller would not sell me the DJ separate from the book, stating that it had always been with the book. Thus the DJ and book were acquired as a set. There is a small puncture on the spine label that corresponds to a dimple at the same location on the dust jacket—and with the dust jacket patina and pristine condition of the spine label, I believe this jacket is original to the book, or at least has been with it for a very long time. The DJ paper has blue fibers interwoven, there is no cichlid on the back, and it has that blotch mark on the front—features indicating a 7th or 8th Edition DJ. Dr. Innes was a creative businessman. Who knows, but

realizing an opportunity to get rid of some back-stock DJs, he may have instructed the warehouse to include those in an order to England. We may never know. It means I need to find another 10th Edition with its dust jacket to eliminate doubt. In the meantime, the story is good! The book will remain in the collection.

Many of the advertisements for the **EAFs** in **TA** state that the boards are waterproof with real gold embossing (see Figures 9 and 10) and no mention of having a dust jacket. Understandably, a DJ was not an important feature of the book, and was intended to protect the boards prior to sale. With the book's intent to be used around water, the paper dust jackets were considered disposable.

Another anecdotal issue with the dust jackets is their paper quality. A micrometer is needed to further analyze this detail, but my observations are that the thickness and quality of the paper varies. There are the blue fibers as mentioned earlier, but my 9th Edition DJ has thicker paper compared to the rest—having a texture to it. The earlier editions (8th and lower) also feel thicker, and others are better quality. The newer editions, from the 10th on, are much thinner, and brittle. The quality of paper, however, was not overlooked by Innes Publishing Co. As noted in the November 1944 issue of **TA**, pre-war paper was said to be of a higher quality (Figure 9)!

NOVEMBER, 1944 THE AQUARIUM 1A

The Grand Christmas Gift

for Anybody interested in
"Exotic
Aquarium Fishes"

This beautiful book by the Editor of "The Aquarium" is newly in its Fifth and most complete edition, ready for Immediate Delivery.

It now contains just 500 pages and shows more new pictures of Fishes and Plants. Clear instructions on care, breeding and identification of fishes, their popular and scientific names, with key to pronunciation.

Fishes are shown in pairs, many in Natural Color. Easily understood by anybody. Printed on high-grade pre-war paper. Handsomely bound in waterproof cloth. Exquisitely stamped in real gold.

PRICE \$5.50 postpaid. Foreign countries \$5.75

Order a copy, as a gift to a friend or relative. Money back if not fully satisfied after a week's examination.

Maybe you owe yourself a present!

★

INNES PUBLISHING COMPANY
12th Street at Cherry
Philadelphia 7, Pa.

Please mention THE AQUARIUM when writing to advertisers

Figure 9: Advertisement from the November 1944 issue of **The Aquarium** showing **EAF** being sold in both the USA and Foreign Markets. Note the "gothic" style typeface along with the description of high-grade pre-war paper and real gold embossing.

A 7-Year Revision of the Book

EXOTIC AQUARIUM FISHES

by WM. T. INNES
Editor "The Aquarium"

MANY FISHES (and plants) have come upstream since our last general revision in 1935.

The important ones, together with much fresh information, are added to the new (4th) edition, now available.

Book now 500 pages, with 406 beautiful illustrations (58 in natural color). All previous features retained.

A thoroughly practical guide to the care and the breeding of fishes, and to related subjects in aquarium management.

Intimately illustrated by the author, who also supervised the printing in his own firm's shop.

Beautifully done in every detail, and bound in waterproof material.

Many readers have told us that they soon get back the price of the book (\$5.50) through increased success in our hobby.

Order a copy. Money back if not enthusiastically pleased after a 10-day examination.

On request we will be glad to send a beautiful descriptive circular.

INNES PUBLISHING COMPANY
Where Twelfth St. crosses Cherry Philadelphia, U. S. A.

Hemigranmus pulcher LADIGES

Figure 10: **The Aquarium** advertisement for the 4th Edition **EAF** in the January 1943 issue (also seen in the April 1944 issue). Note the description of the binding being made of waterproof material, and the "gothic" style typeface.

Mystery Solved! You will recall that my collection has three variations of the 4th Edition, traditional dark green boards, linen boards, and lime green, wavy iridescent boards. I hypothesized that the lime green board was the last in the series because of limited resources at the end of WWII. An advertisement in August 1944 *TA* (Figure 11) supports this hypothesis. First, there is the reference to DuPont generously fabricating the traditional “deep sea-green waterproof covers” with the same pre-war materials, and secondly, that customers were not happy with—or had waited long enough for—these boards having been unavailable for so long!

Mystery Solved! Why did the “art-gravure portrait” of Dr. Innes begin with the 6th Edition? No particular reason other than maybe to celebrate that WWII had come (or was coming) to an end, along with the continued success of *EAF*s. This ceremony is seen in a *TA* advertisement for the 6th Edition, from August 1945, stating that the portrait was a way for the author to introduce himself personally to the reader (Figure 12). Of the three copies in my collection with Dr. Innes’ signature, one is a 1st Edition, while the other two are in 6th Editions—no doubt a popular edition to get a signature in! Capitalizing on this, subsequent editions had a facsimile of the signature printed below the portrait.



Figure 11: Advertisement from *The Aquarium* August 1944 describing the “long awaited” 5th edition, with a return to the traditional dark green boards—evidence that the iridescent lime green boards of the last 4th Edition variant were unpopular.

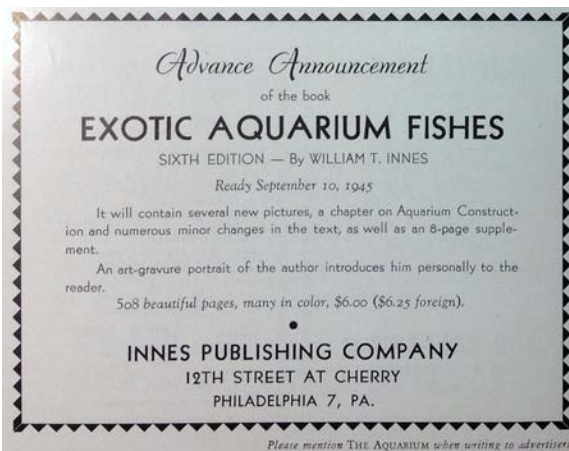


Figure 12: Advertisement from *The Aquarium* August 1945 for the 6th edition acknowledging the “personal introduction” of Dr. Innes with his portrait (not seen in earlier editions). The facsimile signature below the portrait was included with the 7th edition forward.

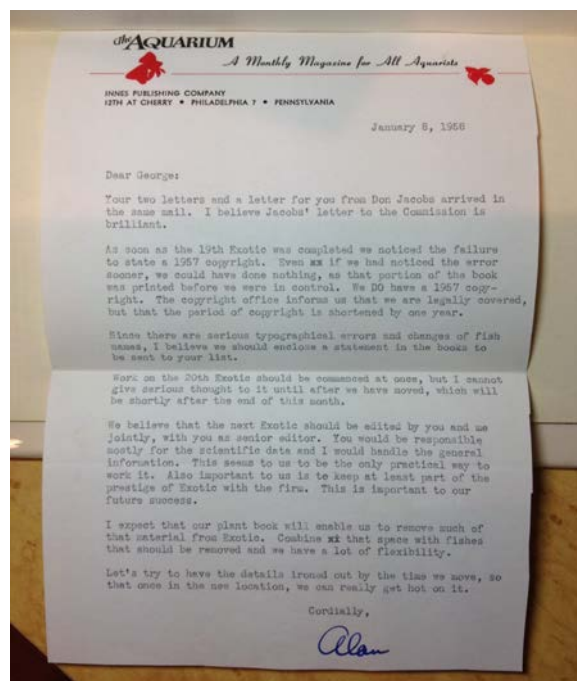


Figure 13: Letter dated January 8, 1958 to George Myers, editor of the 19th Edition of *EAF*, from Alan Fletcher, writer and editor for Innes Publishing Company, discussing a copyright mistake, and goals for future *EAF*'s. From Stuart Yamada's Collection.

Mystery Solved! You may recall the question posed about the copyright anomaly shown between the 1956 publication of the 19th Edition and the 1964 publication of the 19th Revised Edition. 1956 is missing, being replaced with 1957 in the revised edition. Stuart's collection contains many books from the George Myers library, including Myers' own 19th *EAF*. As many of you know, Dr. Myers was cited as the editor of the 19th Edition *EAF*, and worked closely with Dr. Innes. This book has a “tipped in” letter from Alan Fletcher dated January 8, 1958. The contents of this letter verify that there was indeed a typographical error in stating the copyright (Figure 13). Not only is this letter profound in answering the copyright question, it provides wonderful insight to

the inner workings and goals of the Innes Press! For clarity the letter is retyped below:

January 8, 1958

Dear George:

Your two letters and a letter for you from Don Jacobs arrived in the same mail. I believe Jacobs' letter to the Commission is brilliant.

As soon as the 19th Exotic was completed we noticed the failure to state a 1957 copyright. Even [sic] if we had noticed the error sooner, we could have done nothing, as that portion of the book was printed before we were in control. We DO have a 1957 copyright. The copyright office informs us that we are legally covered, but that the period of copyright is shortened by one year.

Since there are serious typographical errors and changes of fish names, I believe we should enclose a statement in the books to be sent to your list.

Work on the 20th Exotic should be commenced at once, but I cannot give serious thought to it until after we have moved, which will be shortly after the end of this month.

We believe that the next Exotic should be edited by you and me jointly, with you as senior editor.

You would be responsible mostly for the scientific data and I would handle the general information.

This seems to us to be the only practical way to work it. Also important to us is to keep at least part of the prestige of Exotic with the firm. This is important to our future success.

I expect that our plant book will enable us to remove much of that material from Exotic. Combine [sic] that space with fishes that should be removed and we have a lot of flexibility.

Let's try to have the details ironed out by the time we move, so that once in the new location, we can really get hot on it.

Cordially,
Alan [signature]

Mystery Solved! Following up on this letter, the perplexing question of how a book, **Aquarium Fish in Color**, published in 1959, could be advertised on a 19th Edition Dutton edition published in 1956 may now have an explanation. (Figure 14)

During our discussion, Stuart Yamada related this information, gleaned from the OCLC (Online Computer Library Center—formally the Ohio College Library Center, part of the world's largest public access catalog of books):

“Remember, the Innes 19th was actually

published in 1957, and probably not widely available until Jan 1958. The letter from Alan to Myers was dated in January, 1958. Myers was very meticulous, and he dated his books when he received them. His 19th is dated January 1958, I think after the date of Alan's letter—I'll check. It's possible the Dutton edition came out in 1959, but still with the 1956 date. I checked in OCLC, and the earliest US publication of the book is 1959 by Dutton.”



Figure 14: The book, *Aquarium Fish in Color*, by G. Mandahl-Barth, published in 1959 (left) as advertised on the back of a DJ from a Dutton “1956” publication of *EAf*'s 19th edition (right). The Dutton *EAf* is thought to have actually been published in 1959, despite having retained the 1956 copyright on the title page.

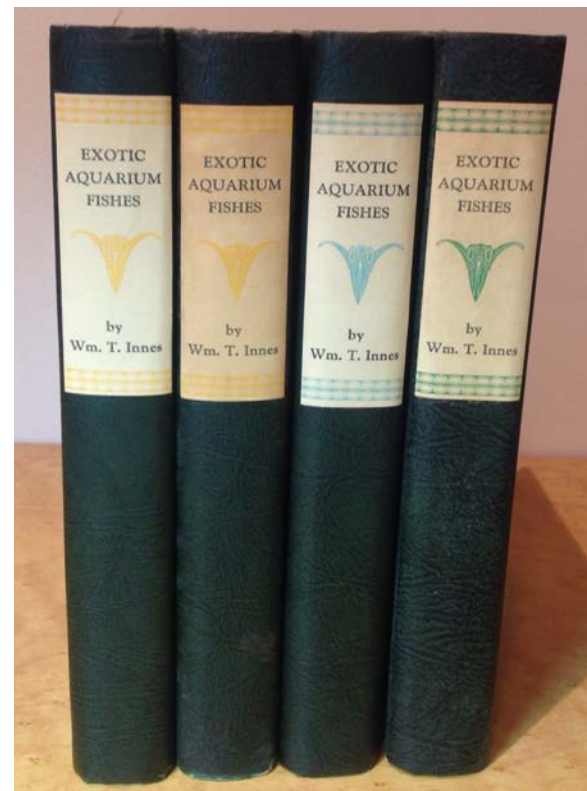


Figure 15: A variety of spine label colors, all from 7th Editions (1946): ink color yellow, yellow, blue, green.

Unsolved Mystery! This discussion about dust jacket differences has re-ignited the debate about

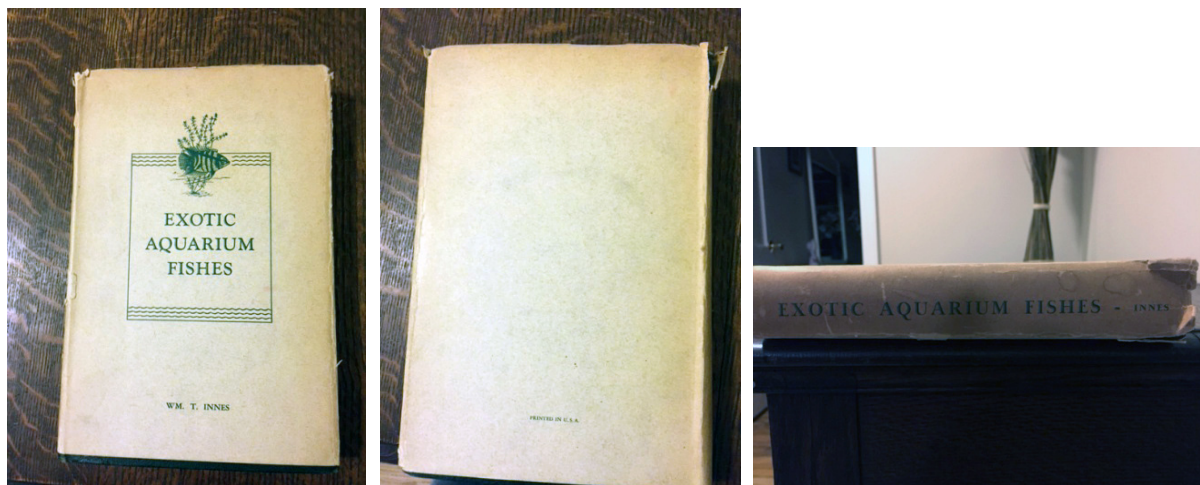


Figure 16a: First Edition book, with dust jacket having the characteristic features of 7th and 8th Edition dust jackets. Note typeface, “Printed in USA,” and Top to Bottom spine lettering. This jacket also contains blue fibers in the paper.



Figure 16b: Blue paper spine label on a 1st Edition *Exotic Aquarium Fishes* book. Exceptional condition for this edition!



Figure 16c: Close-up of 1st Edition blue spine label.

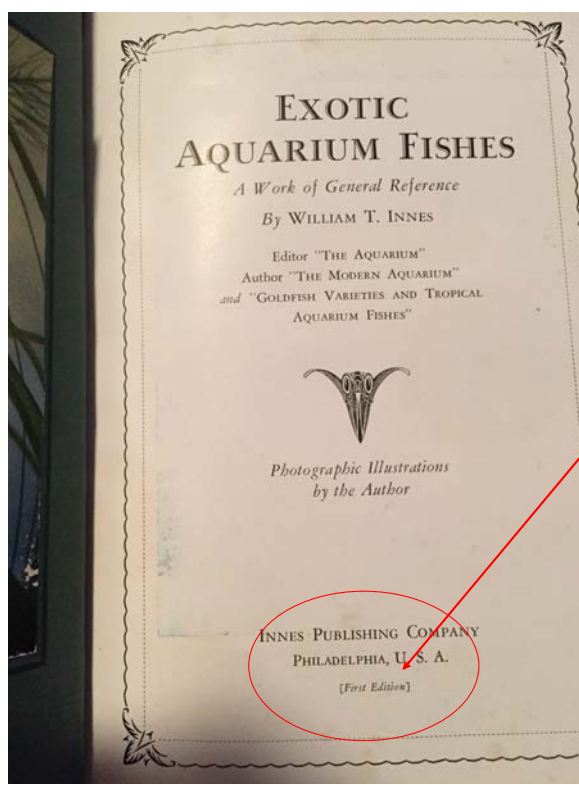


Figure 16d: Title page from the First Edition, with a blue spine label verifying its first edition status. Note the dark green paper and black border around the color plate (left side) also a feature of a 1st edition.

a 1st Edition **EAF** having a dust jacket. During the rebuttals, new facts were provided supporting the argument that at least one 1st Edition does indeed have a dust jacket. Herein are the facts:

Stuart Yamada’s collection contains four 7th Edition **EAFs**. Three of the four have differently colored ink on their spine labels: yellow, blue, and green respectively (Figure 15). Evidence that spine label color may *not* be an indicator for edition number. Spine label variation *does* exist.

Additionally, the “traditional” typeface was used by the Innes printing press well before **EAF**

was published in 1935. Despite **EAF** DJs having the “gothic” typeface on the front of early editions, a DJ with a different typeface could have been produced. Note that spine lettering on all **EAF** DJs is in the “traditional” typeface regardless of orientation; only the front typeface changes between the editions.

Joe Ferdenzi has provided information on the 1st edition in question: **(A)** pictures of the book with DJ characteristic of the 7th or 8th Editions: “traditional” typeface, ‘Printed in USA’ on back, blotch mark by fish tail, top to bottom spine lettering, and blue fibers in the paper (Figure 16a). **(B)** With the jacket removed,

one would expect to find a yellow spine label (seen on all 1st editions to date). However, the paper spine label is printed in BLUE INK (Figure 16b). The label is in exceptional condition (with slight rubbing on its left side and transferred onto the DJ), indicating it has been protected by this dust jacket (Figure 16c). (C) Previous details create doubt as to a 1st Edition, but the title page verifies this book as a 1st edition (Figure 16d).

We have only one other 1st Edition with provenance for comparison, and it does not have a dust jacket, but is instead inside its original cardboard shipping box. This book is signed by William T. Innes, and has a personal note inscribed to Eugenia Shorrock, its first owner. It was purchased by Lee Finley from the sale of her collection. Lee then passed it along to its current owner, Wayne Leibel (AHHS Forum discussion, February 23, 2015).

The provenance of the 1st Edition discussed here has been in the library of its owner, Dan Katz, for over twenty years, having been initially purchased from a Florida collector for a substantial sum. Joe Ferdenzi,

being well acquainted with this book, offers his summary: *“Let me venture to say that there appears to be some variability in the inks, labels, and [typeface] Innes used. Other than stated years and editions, there seems to be no certainty about how to date EAF and its DJs. Given the low value in the wide-world book collecting circles (not the narrow circle of aquarium collectors) of EAF and its DJ, there seems to be little reason for someone to go to the trouble of lifting a DJ from a later edition and placing it on a 1st. Not that it couldn’t happen, but I would say the probability is very low.”* I’ll let the reader decide how to solve this mystery of the 1st Edition blue spine label with DJ!

We are off to Japan in a few months. A 5th Edition and an 11th Edition book with their respective dust jackets would complete my collection. More importantly, the collection provides an inclusive resource for our obsession with (exotic) aquarium fishes. Obtaining these books would be the Final Chapter started so many years ago as a fourteen year old 8th-grader. Look in your bookshelves. Help me finish the story!

Exotic Aquarium Fishes Dust Jacket Features										
Edition #	Publish Date	Typeface		Spine Lettering		Unique feature in paper	Edition # on Front	Back	Ink Color	Blotch Mark
		Goudy Lombardic "gothic"	Goudy Handtooled "traditional"	bottom to top	top to bottom					
1^	1935*	--	--	--	--	--	--	--	--	--
2	1935*									
3	1938									
4	1942									
5	1944	✓		✓				Printed USA	dark blue	✓
6	1945	✓		✓				"	green	✓
7	1946		✓	✓		Blue Fibers		"	"	✓
8	1947		✓	✓		Blue Fibers		"	"	✓
9*	1948		✓		✓	See Footnote		Fish	"	
10	1949		✓		✓			"	"	
11	1950		✓		✓			"	"	
12	1951*		✓		✓		✓	"	"	
13	1951*		✓		✓		✓	"	"	
14	1952		✓		✓		✓	"	"	
15	1953*		✓		✓		✓	"	"	
16	1953*		✓		✓		✓	"	"	
17	1954		✓		✓		✓	"	"	
18	1955		✓		✓		✓	"	dark blue	
19	1956	See articles from <i>Modern Aquarium</i> , March & Apr. 2012 for the variations between books and the six variant DJ's								

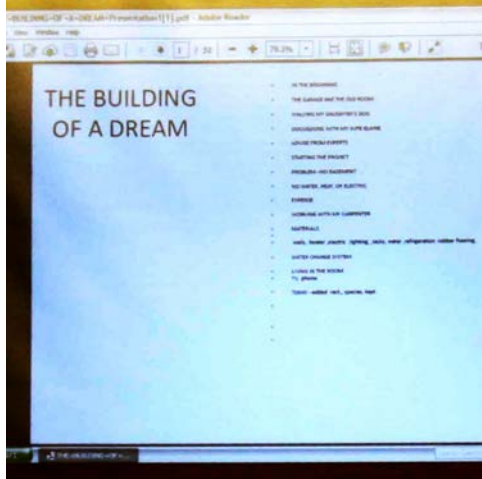
* indicates two printings in the same year. ^There is evidence of a 1st DJ, see text for discussion. xpaper has blue hue, is thicker with texture.



Pictures from our



Tonight's speaker is Jules Birnbaum, seen here with President Emeritus Joe Ferdenzi



His topic is one we can all relate to

Welcome to our newest members:



Gina, Marguerite, and Diane



Daniel Klein

Bowl Show Winners:



1st place: Rich Waizman



2nd and 3rd place: Mario Bengcion

Last Meeting

Photos by Susan Priest

NEC Article Award Winners With GCAS President Dan Radebaugh



Jeff Bollbach



Joe Ferdenzi



Sue Priest

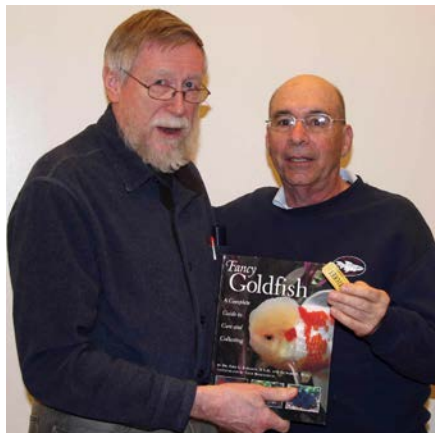


Al Priest

Door Prize Winners:



Walter Gallo



Rich Levy



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

A PLAGUE OF GOLDFISH!!!!?

by Dan Radebaugh

I recently logged in to our Fishy Friends group on Facebook, and saw a post about a lake out near Boulder, Colorado which is being invaded by a plague of goldfish, no doubt the result of some hobbyist releasing them in the lake some three or three and a half years ago (judging from the age of some tested fish). The general tone of the article (The sky is falling!) made me suspicious, so I read the whole story, which linked to not one, but several TV newscasts from around the country, all highly over-dramatized.

This kind of sensationalist reportage of what is arguably a non-event, in a rather isolated place, and without much supporting information, instantly switched on my internal BS meter, and the more I read, the further into the red that meter needle moved.

A couple of years ago I put together a two-part article entitled “Carpy Diem,” (**Modern Aquarium**, May and August, 2011) which surveyed the history of the various carp species that have been imported into North American waters, and what the ecological effects of those introductions has been.

Goldfish have been feral in North American waters for more than two hundred years now, and while I have seen some (deliberately maintained) concentrated populations in isolated local areas, mostly they aren’t much noticed (predation encourages descendants to revert to a more olive-green color in place of the brilliant gold color we aquarists are accustomed to), they stay within reasonable population limits, and they



Photo from Reuters / Rick Wilking

do little if any noticeable harm. So this “invasion” headline seemed to represent some kind of anomaly.

Reading on, the fish in question were referred to as koi goldfish. Hmmm! Koi (the Japanese word for carp) in their decorative form have a history in North America going back to the middle of the 19th century, as do their less-decorative brethren brought here from Europe slightly before them. These carp cousins of

goldfish have been likewise distributed about the country since about the middle of the 19th century.

Purists among us may not like that they are here, but how much of a threat they are to our ecosystem is debatable. Bear in mind that we have been transplanting (and continue to do so) even species native to this country to areas around the continent where

they certainly didn’t get to, and would not have gotten to on their own. So, still looking for information justifying this sudden anxiety about goldfish, I found a site giving information on the area where this poor doomed (damned?) lake is located.

It seems that the lake, Teller Lake No. 5, is part of a recreational area located on Teller Farm, “a historic and working farm. Irrigation and farming practices have changed since OSMP (Open Space and Mountain Parks) acquired the land.”¹ OSMP’s web site further notes that there is “a variety of waterfowl and fish at Teller Lake. Grass carp were introduced into the lake to control the growth of pond vegetation. State fishing regulations apply. All smallmouth and largemouth bass in possession must be 15 inches in length or longer.” “Daily possession limit is five; you are only allowed one Tiger Muskie (formerly stocked in Teller Lake #5) and it must be 36 inches or longer.”²

There is also much scientific handwringing about the general public and fishermen putting non-native species into the lake. A senior aquatic biologist for Colorado Parks and Wildlife complains that “Most people don’t realize the far-reaching effects of introducing exotic species to the environment. Nonnative species can be devastating to native populations by causing disease outbreaks and creating competition unbalance.”³

Now, does this strike any reader as a consistent point of view? Koi and/or goldfish are not welcome in their lake because they are not native to it, whereas grass carp, smallmouth and largemouth bass, and muskellunge, not one of which is native to any water in Colorado that I know of, are not only welcome, but actively stocked? Perhaps there is a clue for us. According to Ben Swiggle, another aquatic biologist, “We work closely with anglers via creel surveys and check with local bait shops on a regular basis to find our anglers’ desires and aspirations for fishing in the state. We carefully stock for optimum conditions to get people outdoors, offer recreational opportunities, and to better the habitat of the state.”

So better sales is the paradigm for conservation? While I can understand that it costs money to hire biologists, rangers, engineers, etc., do we really need to put up with high-minded-sounding, but ultimately BS justifications for condemning one non-endemic species as an invader, while promoting others as part

of the “optimal conditions” that will get people to get outdoors and spend money? Please! If it’s a revenue-enhancement strategy just say so. Don’t hide behind a propaganda campaign against one “invasive species” when your goal is to then introduce others.

By the way, we should not be surprised that the “koi goldfish” have been determined to be about three years old. Back in 2012 Teller Lake No. 5 was bone

dry—the result of a severe drought. There were no fish of any kind other than dead. Given that biological recovery from that kind of disaster is likely to be a bit chaotic, with some species naturally having some advantage during various stages of the lake’s reincarnation, a little patience would seem to be in order as the various species sort out the pecking order. I guess that just

isn’t likely to provide “optimal conditions” for fishing revenue quickly enough to satisfy the accountants, so the “koi goldfish” are likely to be poisoned, or electrocuted, gathered and fed to other creatures.



The 12 acres of hardened mud at Teller Lake No. 5 in Boulder County, littered with puddles of dead and dying fish, are a result of drought. Photo from the Daily Camera (Jeremy Papasso).

References:

¹ <https://bouldercolorado.gov/osmp/north-teller-lake-trailhead>

² <https://bouldercolorado.gov/osmp/fishing-on-osmp>

³ <http://www.thedenverchannel.com/news/local-news/invasive-goldfish-dumped-at-teller-lake-5-in-boulder>

^x http://www.dailycamera.com/ci_21840609/dead-dying-fish-at-boulder-lake-highlight-droughts



CAMEO PET SHOP

TROPICAL FISH AQUARIUM

Specializing in Tropical Fish and Aquarium Supplies

Large Selection of Aquatic Plants

Knowledgeable Staff

Same Location Since 1947.

(718) 849-6678

115-23 Jamaica Avenue
Richmond Hill, NY 11418

Fishy Friends' Photos

by Greater City Aquarium Society Fishy Friends

***H**ere is another installment of our newest ongoing column—photo submissions to our “Fishy Friends” Facebook group. Once again, I’ve left the species unnamed, but not the photographer. If you see a shot you like, and want more info, ask the photographer about it! I’m sure he or she will be delighted!*



Photo from Ruben Lugo



Photo from Joseph Gurrado



Photo from Shunmugam Al



Photo from Larry D. Whitfield



Photo from Larry D. Whitfield



Photo from Joseph Gurrado



AN AQUARIST'S JOURNEY

Story and Photos (unless noted) by Rosario LaCorte

Chapter 13

I made some wonderful friends in São Paulo, and now the next phase of our journey would be to the Amazon region. I looked forward to seeing our friend Ivanzir Viera, whom I had met on the day of our first arrival in São Paulo. He was now in Manaus, studying at the Instituto Nacional de Pesquisas da Amazonia (INPA for short), an institution where scientists from many parts of the world gather to study a variety of subjects.

We landed in Manaus on October 12, 1977, and were met by the director of the Museu de Zoologia da Universidade de São Paulo, Dr. Paulo Vanzelini, whom we had seen a number of times at the museum in São Paulo. Dr. Vanzelini frequently flew to Manaus to teach classes. He supplied us with transportation to visit INPA. Arriving, we passed through the mess area, where a large group of visiting students was having dinner outdoors. The Weitzmans had room reservations, but somehow no room had been reserved for me. Fortunately, a student of our friend Dr. Naercio Menezes volunteered to put me up in his room. Geraldo turned out to be a pleasant young man, and could speak English.

The nights in Manaus were terribly hot and humid, making it very hard to sleep. In addition to the heat and humidity, mosquitoes were a real nuisance. Despite having screens on the windows, the bloodsucking bugs were still somehow able to get into the room.

I met our new friend Ivanzir Viera, who was in Manaus for continuing education in ichthyology. I was really looking forward to our meeting, as we had hit it off very well in São Paulo. Both he and Naercio had given such a glowing description of the new characin (*Inpaichthys kerri*) that Naercio and a group of students had discovered in the territory of Rondonia, that I really wanted to see it for myself. I asked Ivanzir to take me to the department of ichthyology, so that I could view this new characin.



Inpaichthys kerri

The aquariums were outdoors, but shaded by an overhanging roof. The front-lighting produced a dazzling sight of shimmering, metallic blue. I was not disappointed. Ivanzir promised to make arrangements for my acquisition of several specimens upon our departure.

After two days at INPA we made contact with Willi Schwarz, a well-known exporter of aquarium fish. I expected to see a building with many fish, but it was not so. The back room had a few tiled pools in the floor, but not many aquariums to view. Their collecting station, which housed their fish for export, was on the outskirts of town. It was a pleasure chatting with Willi, especially since we were in an air-conditioned room—a welcome change from the hellish evenings at INPA.



Hemiodopsis gracilis

Willi invited me to go collecting with two Brazilian boys whose main task was to supply Willi with the red-tailed *Hemiodopsis gracilis*. Willi instructed me to buy some bread and bottled water, explaining that the boys' stomachs could tolerate drinking water from the Amazon, but it would not be wise for me to do so.

I met up with the boys the next day, and purchased some bread and bottled water. The bread was one kilo



This is Willi's storage compound on outskirts of Manaus.



Loading boat with containers coming down hill. Note the boat in foreground. Abandoned.

in weight (2.2 pounds), and was inexpensive, costing me ten cruzeiros—about one US dollar. We traveled to the Solimões River, a tributary of the vast Amazon. I helped the boys carry the fish containers down the hill to load them into the boat. These would be the holding tanks for captured fish. The containers were designed to interlock with one another, and could be stacked to prevent the fish from jumping out. Not being comfortable yet in English, they gestured for me to wait in the boat until they returned.

They did not return for a few hours, and by high noon my hunger pangs were becoming intolerable. I did not want to consume what I had bought for the journey, so I waited in the boat, becoming more and more hungry, quite thirsty, and rather impatient with their lack of consideration. Since I depended on them though, I was at their mercy. Suddenly another boat pulled alongside, and as I sat there watching, two young boys—probably thirteen or fourteen years of age—disembarked, the adults instructing them to remain there. After a short while, boys being boys, they began to throw mangos at each other, laughing whenever they hit their target. Aha! My Guardian Angel has sent me rescuers! I asked the boys, “Quando costa?” I paid them five cruzeiros (about 50¢) for six mangos, and got rich satisfaction for my hunger and thirst. All was well again.



In a long boat on a small tributary of the Solimões. Photo by Stan Weitzman.

Finally the young men returned, and we began our journey, chugging along at about six or seven knots, arriving at our destination at about 2:30 AM. My dress for this trip was shorts and a sleeveless

undershirt. It was pitch dark and unexpectedly chilly, so I wrapped a seine around myself, which turned out to be quite sufficient. Since we were in a blackwater area, mosquitos were not a problem. Sleeping on the hard floor was rather uncomfortable, but as the night wore on I was able to catch a few hours of sleep.

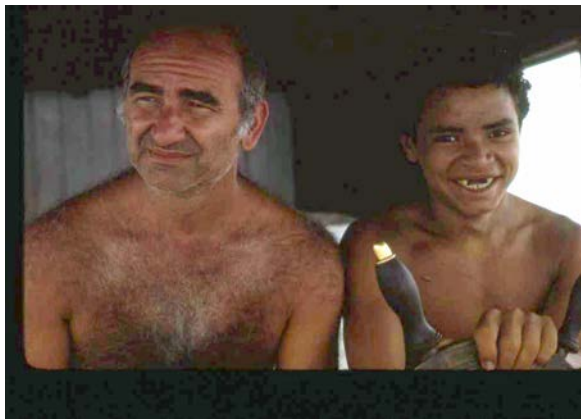
I awoke at 5:30 AM, and had some bread and water. The boys had a cast iron, open-faced hearth where they were able to brew some coffee. They urinated over the side of the boat, and soon dipped some water from the river to use for the coffee. The coffee was placed in the water and brought to a boil; the mixture was then poured through what looked like a dirty sock. Orlando, a gnome-like figure and the head of the crew, offered me a cup. I didn't really want it, after seeing them urinating in the river and then using the same river water to make the coffee was not appetizing, but not wanting to insult them, I gracefully accepted. The coffee was very strong and not very good. I drank half of the cup, and when they weren't looking poured the rest overboard. Seeing my cup empty, they asked if I would like more, to which I responded, “Naõ, basta.” (“No, enough.”)

Shortly afterward, a few of their friends on the river came by, and there was a great deal of chatter and laughter. A lot of time was lost, and I anxiously wondered if we would ever begin collecting. At last, they unraveled the seine and we began to collect large quantities of the red-tailed *Hemiodopsis*. The boys also netted a pair of *Semaprochilodus insignis*, a large characin that feeds primarily on algae. The colors were exquisite, and I wanted a photograph, but before I could get my camera out of the bag, the boys were already cutting vertical slices on them in preparation for cooking them on the cast iron hearth, which was already fired up. Having no choice, I had to take the photo with the vertical cuts. After cooking, we all had a portion of the fish, and I must say that they were absolutely delicious!



Semaprochilodus insignis

The boys then went through the containers housing the fish we had collected, and gathered all the specimens that had died. These were then placed on the fire, quickly cooked, and consumed completely—head and all. For two days I had fish and bread with the water, which was perfectly fine. My big concern



The author and one of the young collectors. Being on the river for a few days makes one seedy.

was to collect as many species as possible, and cherry pick those that I felt were desirable for the aquarium.

At 6 PM darkness fell quickly, as we were close to the equator. The boys again were moored close to a house located on a hill. There are many people who live on the river, growing crops and living mainly on fresh fish. There are supply boats that travel up and down the river so that people can buy other necessities. Travelling on the river you can also stop at boats moored to the bank. On board are electrical generators running refrigeration units, so cold drinks can be purchased.



Our boat fellow, standing in foreground, used my paper bag to make cigarettes.

The boys once again decided to visit their friends, leaving me in the boat to await their return. It was so dark you could not see a foot in front of you. All I could see was the flicker of a lamp from the house. I sat there for what seemed like an eternity. To sleep was out of the question—the night was too young. They finally returned after a few hours, and it was time to turn in. Francisco—one of the boys—had a hammock inside the cabin, so he was comfortable. I sat under a canopy in the bow of the boat. The rumbling of a thunderstorm could be heard in the distance, and flashes of lightning would occasionally illuminate the sky. Trying to sleep on the hard floor, I wondered if the storm would reach us. After a while it did. Suddenly the wind picked up, blowing the rain at us sideways, so that staying dry was out of the question. Walking to the door of the cabin, I said to myself, “What the hell am I doing here?” Then I chuckled to myself, thinking

that someday I could talk about this experience, and convey to hobbyists what collectors must go through to get fish to them. Not always fun!

At about 2:30 AM the boys wanted to get started, and tried to get the engine going, but could not. It was a 13 horsepower, single-cylinder engine that had to be cranked manually to start. It was difficult to turn, and the two Brazilian boys were rather frail, so they asked me if I would give it a try. I gave it a lusty effort several times, but it just would not start. I did manage however, to strain a bicep in the process, and since it was evening and cool, I had to abandon any more attempts. A couple of days later the strained area showed, looking like a bruise. At about 6:30 AM a few boys who lived on the river showed up and finally got the engine started.

Checking our trays of fish, we discovered that almost fifty per cent of the red-tailed *Hemiodopsis* had succumbed. We discarded these, and then made substantial water changes to try and save what we had left. The boys had many friends along the river. I noticed that a number of them had open sores on their bodies, where flies would settle and feed off the bodily fluids. The boys made no attempt to chase them away.

The bread I had purchased a few days earlier was well secured in a paper bag, but I noticed that parts of the bag had been disappearing. Wondering what was going on, I kept an eye on it, and discovered that one of the river friends had been tearing pieces off and using them to roll his tobacco in—sort of a do-it-yourself cigarette.



We captured a number of extremely beautiful *Geophagus* species (above); never juveniles—always full-grown. To successfully return with them was impossible, though very desirable. In one pocket

along the river I noticed a grouping of dwarf cichlids, and a sweep of the area netted ten beautiful fish, at that time unfamiliar to me. They were of a size small enough for me to return to Manaus with, and attempt to get them home. The boys were anxious to return to Manaus so they could unload their catch. All during our river journey we encountered a good number of river porpoises. Photographing them was difficult, as they surface and dive back down so quickly.



A section of the Rio Urubu, a tributary of Amazonas. It is said that at that junction a ferry capsized, and the occupants in a bus were attacked by piranhas.

We eventually arrived back at Manaus, and as we docked I thanked the boys for their companionship, and exited with my bag of dwarf cichlids, which now numbered just five. I walked along the road and hailed a cab. It took me to INPA, and I was glad to be back where I knew I could take a shower and get a good meal. I was greeted by my two Brazilian friends Ivanzir and Geraldo. Geraldo was kind enough to let me share his quarters during my stay. Fortunately, Geraldo had an aquarium, and he suggested that I house the five dwarf cichlids there until my departure.

The weekend brought illness to Geraldo—he ran a high fever for four days. I gave him all the antibiotics I had with me to help him through his difficult time. His girlfriend Joséalita treated him with great care and made every attempt to keep him as comfortable as possible. The day of our departure found Geraldo much improved. We sat on the back porch, chatting and munching on some fruit, and chewing on some sugar cane.

Well, it was time to say good-bye to my new friends. We all embraced, which is a wonderful Brazilian custom. It was great to meet such wonderful people, but with departure there is sadness, knowing that our paths would likely never cross again. I now had three dwarf cichlids left, as two had apparently died. Despite the tank being covered we could not locate them. My chances for having a pair were now greatly reduced, and we still had another week of collecting in Venezuela.

Ivanzir accompanied me to the Department of Ichthyology to pick up the *Inpaichthys kerri*, which had to be cleared by the department for me to take them. I received seven specimens, so I felt assured of successful reproduction upon my return home.

Stan, Marilyn, and I were to meet Dr. Peter Bailey, an ichthyologist from Canada, who had earlier invited us to have dinner at his home. Arriving at Peter's home, we were overjoyed to find his place fully air conditioned. The heat and humidity had been so unbearable that I was exhausted from sleeping on the boat, and then in Geraldo's cabin, which was also plagued with high humidity and mosquitos.

Peter had an aquarium in his home as well, and lo and behold, he had a few of the dwarf cichlids I had captured earlier. I asked him their identity, and he told me they were *Biotoecus opercularis*. I had heard of them, and I recall seeing a not-very-detailed photo of them in a book on cichlids written by my friend Dr. Robert Goldstein. Of course I desperately wanted to ask Peter if he could part with a few of the specimens he had, but I could not bring myself to do so. He was such a gracious host, and I thought it best just to wait and hope that my remaining three would make it safely to the U.S., and that I could get a breeding pair from them.



Small dwarf cichlid, *Biotoecus opercularis*

Following our pleasant evening with the Baileys, Peter drove us to the airport at midnight for our scheduled 3 AM departure for Caracas, Venezuela. We arrived at the Caracas airport at 5:30 AM, after a flight on which it had been impossible to sleep. By this time I had been awake for nearly 48 hours, and was really feeling exhausted.

After clearing customs, we took a taxi into Caracas. The trip lasted an hour, but the scenes were breathtaking as we traveled through the mountainous area. Arriving at the Hotel La Florista, we discovered that a suite had been reserved for the Weitzmans, but our Venezuelan contact had neglected to reserve a room for me. The manager assured me that before day's end there would certainly be a room available.

Dr. Francisco Mago-Leccia, from the university in Caracas was our host, and met us at the hotel. He was to be our guide for the entire week of this last part of our six-week journey to South America. Since I was carrying a number of fishes with me, Francisco volunteered to take me to the university, where there were some aquariums set up and available. This was very encouraging, as a few of the fish in our collection were important to me, particularly the three *Biotoecus* and the *I. kerri*. The gentleman in charge of the

department assured me that they would be well cared for.

Returning to the hotel, the Weitzmans decided to retire to their room and get some sleep. I stayed in the lobby, taking possession of a large chair and trying to get some sleep as well. I also called my friend Leo Hoigne, who was well known in the hobby, and had been a guest in my home several times. We had often talked about a joint venture, collecting in Venezuela, and now it seemed the chance for that was at hand. I explained my plight to Leo, who assured me that my problem was solved; he would put me up in his home. His daughters were now living elsewhere, and there was ample room. He said he would stop by at 5 PM and pick the three of us up to have dinner with him and his wife.

I was relieved that my room situation was resolved. After a few hours of trying to get some sleep in that chair, the Weitzmans returned to the lobby and suggested that I try to get some rest in their room while they took a walk in the city. I took them up on it, and retired to their room so I could shower and shave. I also had several days' worth of laundry, which I decided to hand wash and lay on the floor of an outside veranda to dry.

At 5 PM Leo arrived at the hotel to pick us up for dinner with him and his wife. It was great to see Leo again after four years, and he had not changed. This was my first time meeting his wife Nancy, despite the several years I had known Leo. Nancy was a New England girl who met and married Leo when he attended MIT in Boston. Leo and Nancy lived in a high-rise apartment, well-protected, with a spectacular panoramic view of Caracas and the surrounding mountains.



Nancy and Leo Hoigne

We had a wonderful dinner and a very enjoyable evening. Leo had a large aquarium in his living room, with a fantastic array of plants and fish, all in prime condition. Leo returned Stan and Marilyn to the hotel, and I retired to one of the guest rooms. The bed was the most comfortable that I had slept in during our entire adventure.

The following day the Weitzmans and I joined Francisco Mago-Leccia for a trip to Guanare, about 800 kilometers southwest of Caracas. Along with

Francisco were two assistants from the university, who drove a truck, also supplied for our convenience. The truck contained all the supplies we were likely to need for collecting: bottles, formaldehyde, even a table and chairs, as well as a large supply of water, soft drinks, ice, and beer. It certainly made our expedition easier in the terrible heat and humidity.

The Weitzmans and I joined Francisco in his car, while the assistants drove behind us in the truck. We stopped at a number of streams, and collected several colorful species that would make wonderful additions to a home aquarium.

We arrived in Guanare late at night, and were fortunate enough to sleep in an air conditioned cabin. No sheets or pillows were available, but for me it didn't matter; at least we had refuge from the constantly oppressive heat and humidity.

The cabins were located on a large agricultural station where experiments were conducted relating to animal husbandry, as well as to various trees and food plants. The area was out in the wilderness, which allowed for viewing an array of beautiful birds. There were many herons and foxes about, and in the mornings jaguar tracks were in evidence.

We made some collections in the area, at one point fording a wide, shallow river, whose bottom, being heavily coated with algae, was extremely slippery. The current was so strong that we had to hold hands to cross without being knocked off our feet and swept downstream. Marilyn stayed behind and watched, deeming it too dangerous to be part of the group.



A view of the river crossing in Venezuela where we all held hands. This photo was taken by Marilyn Weitzman.

We used rotenone to obtain a cross-section of the bottom-dwelling fish. Rotenone is a poison extracted from the roots, stems, and seeds of several plants. It is used as an insecticide, pesticide, and piscicide, and has historically been used by indigenous peoples to catch fish. The affected fish rise to the surface to try and gulp air, and are easily caught.

We collected quite a few specimens, which we placed in trays, then sorted and put in bottles containing a water/formalin mix to preserve them. Using small



Several species of fish collected using rotenone.

tabs of paper, we recorded the location and date of collection, and placed them in the bottles. All this was done with the comfort of the folding chairs and tables carried in the truck. When our work was complete we began our trek back to Caracas, arriving at about eleven PM, all of us in a state of complete exhaustion.

Returning to the hotel, we found that there was still no room available for me. A quick call to Lee Hoigne, and he suggested that for the remainder of my stay in Caracas I stay at his place. Francisco drove me to Leo's home, where I was met by Leo and his wife Nancy.



Copyright 2015 Rosario S. La Corte and the Greater City Aquarium Society. No duplication in any medium is permitted without express written permission. This prohibition includes not-for-profit aquarium societies.



GCAS Thanks You!

Our Generous Sponsors and Advertisers

The Greater City Aquarium Society extends our heartfelt thanks to the following manufacturers for their generous donations. Thanks also to our advertisers, whose contributions to our success as a Society are deeply appreciated. Please patronize our supporters.

Aquarium Pharmaceuticals

Aquarium Technology Inc.

Aqueon

Brine Shrimp Direct

Cobalt Aquatics

Coralife

Ecological Laboratories

Florida Aquatic Nurseries

HBH Pet Products

Kent Marine

Kingfish Services.net

Marineland

Microbe Lift

Ocean Nutrition America

Oceanic

Omega Sea

Red Sea

Rena

Rolf C. Hagen

San Francisco Bay Brand

Seachem

Zilla

Zoo Med Laboratories Inc.

Cameo Pet Shop

Coral Aquarium

Monster Aquarium, Inc.

World Class Aquarium

Zoo Rama Aquarium



GCAS Classifieds

FOR SALE: 50 Gallon Breeder Tanks (52 gal.) 48 X18 X 14H. Drilled, with bulkheads. \$25ea.

Call Coral Aquarium: 718-429-2934

FOR SALE: Tank: 220 Long. Looking for someone who will take the whole system, move it out and give me a decent offer. Not looking to make a mint off it.

Charley Sabatino
(917)837-6346
www.charleysabatino.com

FISH ROOM OPEN HOUSE: SATURDAY, JUNE 6TH, 11-3

Free Fish, Plants, and Other Stuff, including guppies, catfish, and cichlids

FOR SALE: 90 gal. tank with stand & cover = \$90
Double light for 90 = \$30
55 gal. tank with stand & cover = \$55
Light strip for 55 = \$20

You may reserve tanks in advance, but you must arrive for pickup by 11:30 AM or the tanks will be sold on a first-come basis. Cash only.

Address: 11 Roscoe Court
Greenvale, NY 11548 (Nassau County)

Joe Ferdenzi: gfcadeo@gmail.com

From Idealist.org:

Clearwater is recruiting two AIS Watercraft Inspection Stewards as part of the Watercraft Inspection Steward Program - an education-based program designed to inform boaters and other recreational water users about aquatic invasive species (AIS) identification, negative impacts, and spread prevention through voluntary watercraft inspections.

Stewards will be placed at boat launches in Croton-on-Hudson, NY or in Staatsburg, NY.

This is a part-time seasonal position. Stewards will work two 8-hour days each weekend (Friday-Sunday) between May 22 - September 7, 2015. There will be a mandatory 4-day training prior to the start of the position. Stewards will be paid \$12.25/hour.

For a full job description, please visit <http://www.clearwater.org/about/job-opportunities/>

GCAS Member Discounts at Local Fish Shops

The fish shops listed below offer discounts to members of Greater City Aquarium Society. To take advantage of these generous offers, just present your Greater City ID before checking out.

STORE HOURS
 Mon.: - Fri.: 10:00 A.M. - 9 P.M.
 Saturday: 10:00 A.M. - 7 P.M.
 Sunday: 10:00 A.M. - 6 P.M.

"Quality and Service since 1969"

FishTown, U.S.A.

196-33 Northern Blvd., Flushing, NY 11358 • (718) 539-5396
www.fishtown-usa.com

10% Discount on fish.

BIRDS, REPTILES
 SMALL ANIMALS

FRANKLIN PET CENTER INC.

FRANKLIN SQUARE'S COMPLETE PET CENTER

212 FRANKLIN AVE
 FRANKLIN SQUARE NY 11010
 516.775.8183

HOURS: MON-FRI (10^{am} - 8^{pm}), SAT (10^{am} - 6^{pm}), SUN (10^{am} - 5^{pm})

20% Discount on fish. 15% on all else.

New Kissena Aquarium
 鴻運水族館

46-30 Kissena Blvd., Flushing, NY 11355
 Tel: 718.358.0761
 (金城發超市正對面)
www.kissenaaquarium.com

10% Discount on everything.

Monster Aquarium inc
 風水魚

131-08 40th Road,
 Flushing, NY 11354
 T : 347.732.0373
monsteraquarium@hotmail.com

10% Discount on everything.

PACIFIC AQUARIUM & PET INC.
 46 Delancey Street, New York NY 10002
Pacificnyc.com
PacificAquarium@gmail.com
 Tel: 212-995-5895
 Fax: 212-995-8041

Exotic Marine, Fresh Water Fish & Plants
 Custom Aquarium, System & Maintenance
 Complete Line of Aquarium Supplies

Open 7 Days & All Holidays
 10:00 am - 7:00 pm Daily

10% Discount on everything.

Pets Warehouse®

Everything For Your Pet

1550 Sunrise Highway
 Copiague, N.Y. 11726
 Tel: (631) 842-0400
 Fax: (631) 842-1476

Hours: 10-9 Mon. - Sat. • 10-6 Sun.
 E-Mail: Support@Pets-Warehouse.com
www.PetsWarehouse.com

10% Discount on fish.



GCAS Happenings

May

Last Month's Bowl Show Winners:

- | | |
|-------------------|-------|
| 1 RICHARD WAIZMAN | BETTA |
| 2 MARIO BENGION | BETTA |
| 3 MARIO BENGION | BETTA |

UNOFFICIAL 2015 BOWL SHOW TOTALS:

RICHARD WAIZMAN	10	MARIO BENGION	8
-----------------	----	---------------	---

A WARM WELCOME BACK TO RENEWING GCAS MEMBERS BILL ADAMS, SHARON BARNETT, ARNE BRISTULF, TOMMY CHANG, ANDREW DeSANTIS & SONS, PETE D'ORIO, HARRY FAUSTMANN, JEFF GEORGE, ROBERT HAMJE, AL & SUE PRIEST, LEONARD RAMROOP, AND VICTOR HRITZ!

A SPECIAL WELCOME TO NEW GCAS MEMBERS MARGUERITE & DIANE DANIELS, DANIEL KLEIN, AND GINA LEWIS!

Here are meeting times and locations of some aquarium societies in the Metropolitan New York area:

GREATER CITY AQUARIUM SOCIETY

Next Meeting: June 3, 2015

Speaker: Jeff Bollbach

Topic: *How to Get Rich Breeding Fish: My Obsession with Aquabid*

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: May 9, 2015

Event: GIANT Spring Auction

Topic: N/A

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: May 15, 2015

Speaker: Amanda Wegner

Topic: *Planted Tanks*

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: May 12, 2015

Speaker: Thomas Keegan

Topic: *How Fish Get Here, There and Almost Anywhere*

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: May 21, 2015

Speaker: Bob Grauer

Topic: *Tanganyikan Cichlids*

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: May 21, 2015

Speaker: Joseph Ferdenzi

Topic: TBD

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/>

Meet The World's First Octographer!

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.

Rambo is an octopus residing at Kelly Tarlton's Sea Life Aquarium in Auckland, New Zealand. She (yes, Rambo is female) has learned to snap pictures of aquarium guests using a waterproof digital camera. (She got the name "Rambo" by destroying several cameras.)¹

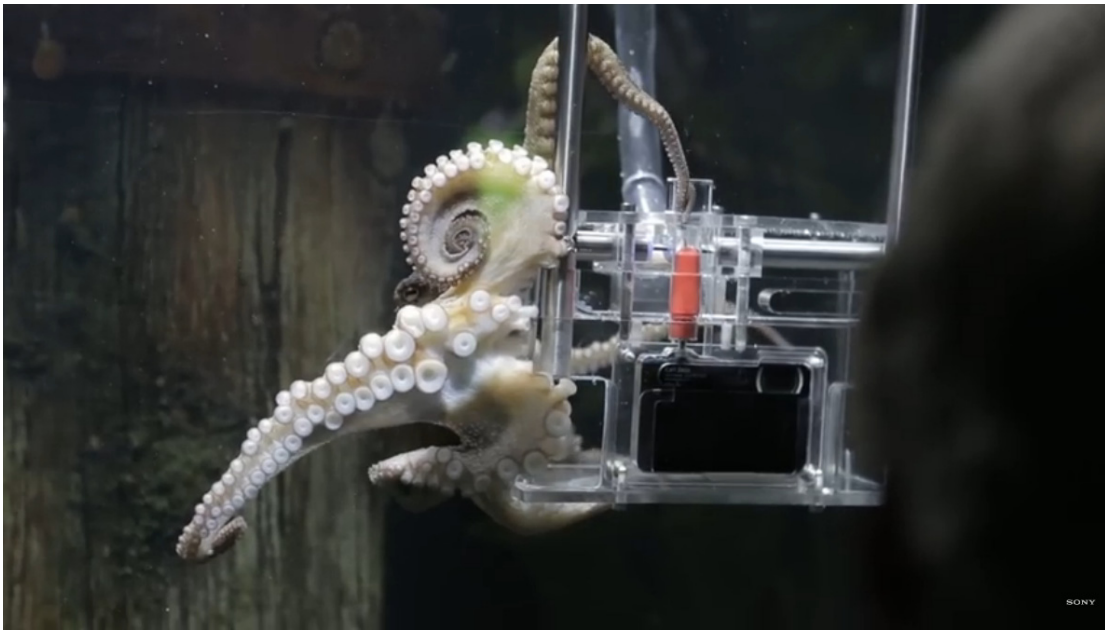
Her trainer, Mark Vette, helped Rambo perfect her photographic skill, which basically involves pressing a bright red button to activate the camera, now held securely in a specially-designed (and octopus resistant) enclosure.

Visitors to the aquarium can pay \$2 for the privilege of being photographed by the world's first (and currently only) "octographer." The money collected from Rambo's "work" is then used to benefit the aquarium.

There are several short video clips on YouTube you can watch in order to see Rambo "in action."^{2 3}

Unlike photographs you or I might take that likely would be considered ruined should our thumb or (another bodily part) accidentally show up in the end result, a tentacle (or even two or three) showing in one of Rambo's photos probably only adds extra value (and interest).

Imagine being able to do eight "selfies" at the same time!



https://www.youtube.com/watch?feature=player_embedded&v=rI9tP3mZfxM

References

¹ http://www.huffingtonpost.com/2015/04/13/rambo-photographer-octopus-_n_7056904.html

² https://www.youtube.com/watch?feature=player_embedded&v=rI9tP3mZfxM

³ https://www.youtube.com/watch?feature=player_embedded&v=vNX-3_3590U



Fin Fun



Getting to Know Seahorses

Challenge yourself to identify all of the correct answers in the following multiple choice questions. (Some of them have more than one correct answer.)

- 1) A- All species of seahorses are endangered in nature.
B- Some species of seahorses are endangered in nature.
C- No species of seahorses are endangered in nature.
- 2) A- Seahorses are crustaceans.
B- Seahorses are fishes.
C- Seahorses are invertebrates.
- 3) A- Seahorses are cannibalistic, and will eat their own fry.
B- Seahorses use their prehensile tails to anchor themselves, and wait for their food to come to them.
C- Seahorses are herbivores, and eat free-floating algae.
- 4) A- Seahorses are suitable for beginner aquarists.
B- Seahorses are suitable for intermediate aquarists.
C- Seahorses are suitable for advanced aquarists.
- 5) A- The males have a “brood pouch.”
B- The female transfers her eggs into his brood pouch.
C- The male gives birth to the live, upright swimming fry.

Reference: “Seahorse Chronicles,” **Modern Aquarium**, April 2005- September 2007

Solution to our last puzzle: **Animal or Vegetable?**

Scientific Name	Animal	Plant	What it is
<i>Clea helena</i>	X		Assassin snail
<i>Vesicularia dubyana</i>		X	Java moss
<i>Carassius auratus auratus</i>	X		Goldfish
<i>Tonina fluviatilis</i>		X	Lotus blossom
<i>Sagittaria platyphylla</i>		X	Broad Leaf Sagittaria
<i>Heterotis niloticus</i>	X		African arowana
<i>Branchinecta mediospinosa</i>	X		Fairy shrimp
<i>Marosatherina ladigesii</i>	X		Celebes rainbowfish
<i>Etheostoma fusiforme</i>	X		Swamp darter
<i>Cladophora aegagropila</i>		X	Moss ball

**2015 American Killifish Association
National Convention
Detroit, Michigan**

Friday - Sunday, May 22-24, 2015.
"Killifish Conservation in the America's"

Tentative Speakers:

- Charlie Grimes - Banquet
- Arcadio Valdes - Mexico
- Dave Koran - U.S.
- Frans Vermeulen - South America
- Chris Martin - Caribbean
- Marc Bogaerts - Africa
- Ken Normandin - Panama

Other Activities:

- Fish Room Sale
- Fish Raffle
- Rare Fish
- Vendors
- Banquet
- Downtown Detroit
- Casino Shuttles

Sheraton Detroit Metro Airport

Address: 8000 Merriman Road, Romulus, MI.

Phone Number: (734) 729-2600

Contact Info: Arch Martin: (248) 207-8066 Or Eric Beyer: (248) 298-9576

