



The Greater Akron Aquarium Society

Tank Topics

March/April 2015

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A pair of *Nanostomus beckfordi* pencilfish. Find out more about this interesting characin in Wayne Toven's article starting on page 7 of this issue.

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Important Dates for 2015

March 1
Spring auction

June 13 & 14
Ultra Aqua 2015

November 1
Fall auction

Check out our website: www.gaas-fish.net

THE GREATER AKRON AQUARIUM SOCIETY

WHO ARE WE? We are a local group of aquatic enthusiasts. Formed in 1952, the Greater Akron Aquarium Society is a non-profit, non-commercial organization. Our membership ranges from the beginning hobbyist to the advanced aquarist with many years of experience. The goals of our club are to promote the care, study, breeding and exhibition of aquarium related aquatic life and to promote interest in the aquarium hobby.

MEETINGS: Our meetings are held on the first Thursday of each month at 8:00 p.m. at the Mogadore Community/Senior Center, 3857 Mogadore Road, Mogadore, Ohio. It is located East of Route 532 across from McDonald's in the former post office building. Visitors are always welcome, it costs absolutely nothing to attend a meeting and look us over.

MEMBERSHIP: The cost is only \$10 for adults, a couple or a family (includes children under 10 years of age) and \$5.00 for a junior membership (10 to 17 years) Membership provides an opportunity to socialize with others that share your interests, a subscription to our bi-monthly magazine and more.

AGENDA: Our meeting agenda is simple and informal. The meeting will begin at 8:00 p.m. with a short business meeting. Immediately following is the program for the evening which usually lasts about 45 minutes. Our programs consist of a speaker, slide program, movie or perhaps a panel discussion always on a particular subject related to the hobby or various species of fish. Following the program is a short refreshment break. After which the winners of the Bowl Show are announced, the Breeder's Award Program fish are auctioned and tickets are drawn for the raffle.

THE BOWL SHOW: Each month members can bring in fish for specific classes to compete for first, second and third place awards. The charge for each entry is only \$.25. Members also compete for annual awards by accumulating wins throughout the year.

BREEDER'S AWARD and HORTICULTURE AWARD PROGRAMS: members can receive recognition for spawning species of fish or propagating aquatic plants. All that is required is to turn in a minimum of six fry from the spawn that are between 30 and 90 days old. Members earn certificates for each species and can work towards plaques in different categories.

EQUIPMENT RAFFLE: The raffle table has such items as tanks, fish food and aquarium accessories that are donated by national manufacturers, area dealers or purchased by the Society. Tickets may be purchased by anyone attending the meeting. Save your losing tickets for the Christmas Party raffle.

ANNUAL SHOW: The Ultra-Aqua show is held during the summer at the Tallmadge community Center. This has become one of the largest all-species tropical fish shows in North America. It is an international gathering of hobbyists to display their fish in class competition, talk fish and to learn about the hobby from each other.

TANK TOPICS: is published on a bi-monthly basis for the members of the Greater Akron Aquarium Society. Articles and comments for this publication are welcome and encouraged. Such articles are to be submitted no later than the board meeting prior to publication. All articles may be reprinted as long as the author(s) and GAAS are given proper credit and two copies of the publication containing the reprint are sent to GAAS. Please send any correspondence regarding this publication to:

Editor/Tank Topics, P.O. Box 494, Akron, OH 44309-0494 or email to dwilliamson223@hotmail.com

The Greater Akron Aquarium Society Membership Form

Name _____ Age _____

Address _____

City _____ State _____ Zip _____

Phone _____ email _____

How did you find out about GAAS? _____

Memberships are due one year from the date of joining. Completed membership forms can be turned in at a meeting or mailed to the membership chairman at this address:

GAAS Membership Chairman, P.O. Box 494, Akron, OH 44309-0494

Dues are for 1 year or 2 years if
email publications are chosen

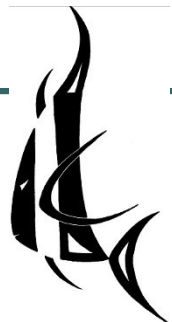
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☐ Electronic ☐ Mail

Adult (18 years and older) & Family
(includes children under 10) \$10.00

Junior (10-17 years) \$5.00

Dues Collected _____ Date Received _____



President's Message

Hello folks

Hope your enjoying this wonderful Ohio weather. I know I am, since I do get to work outside in it. I just could not ask for anything better (I think I need to talk to my doctor about what I am saying, maybe get some medication)!

Anyway, I do want to remind everyone that our auction is this Sunday, March 1st, setup for the auction is Saturday at 7pm. Please plan to be there to help both days, it is your club's activity and it is what pays the bills. We can find something for everyone to do. Besides it is a chance to get some good deals on some good fish and other items.

Just a heads up on a future club activity, we will be building some small show tanks from plexiglass. The plastic will be precut and ready to assemble. Last time we did this everyone had a good time and they got a nice show tank out of the process. We will announce the date later.

One more thing, we need sponsors for our show classes. If you would like to sponsor a class or more, or know someone else who would, see Wayne Toven or any board member and we will be happy to help you.

See you at the auction

See ya soon



Bud White

Editor's Message

Dave Williamson

I for one am quite tired of below zero temperatures and snow. Yeah, I know it's Winter in Northeast Ohio and we should expect it, but that doesn't change how I feel at this point. Spring is only a few weeks away, at least that's what I keep telling myself!

Now that I'm done complaining, we'll move on to more important subjects! First up, we have an auction coming up really soon on the first of March. That will make it before the March general meeting so you won't get another reminder. You've heard it so many times before about how we should all try to come out and help make any of our events happen, and this is no different. Every year we are able get enough helpers to take care of all the little things that make the auction happen, but don't take it for granted that the mythical "someone else" will always be there to do things. It's your club and you'll get out of it what you put into it. It's worth spending a few hours helping out, while you're there you may just find that item you didn't even know you were looking for!

Next up, the eternal search for articles for Tank Topics continues. I'd like to thank Wayne Toven for helping to get me out of a jam with this

issue. And here's another easy way to get you into the swing of writing an article if you've never done it before. You'll notice that in Wayne's plant article he mentions that writing said article was part of the requirements for his HAP submission. If you're already doing the BAP/HAP thing and paid any attention to what it took to facilitate that spawn or propagation, guess what, you've done the main part of the research necessary to write an article about it! Really, it's that simple. Consider giving it a try. I'd also like to thank new member Lissa Harvey for submitting a "Did you know?" filler articles she picked up off the web somewhere. We always need things to fill in odd little areas that articles didn't fill. That would include pictures too. Don't be shy! We want to see and hear about what's going on with your fish.

I'll see you at the meeting and the Spring Auction!



Where we're at



Where we want to be





BAP/HAP Report

Wayne Toven

HAPPY NEW YEAR!!! Yeah, yeah, I know it's a little late but this is the first issue of Tank Topics for 2015. So I hope you're year is off to a good start, but Punxsutawney Phil said we are going to have 6 more weeks of winter, that stupid rodent! We wiped the BAP and HAP slates clean in December, but as I expected nothing was turned in at the meeting/Christmas party. The first fish club auction OCA was Sat. the 7th of February, there were lots of cichlids and catfish for sale, I personally didn't get any, mainly because I don't have any empty tanks, and I am getting very picky about the fish I buy, and the few I was interested in went for way more than I was willing to shell out. Our spring auction is less than a month away, Sunday March 1st, there will be a much larger variety of fish available, so maybe I will find something there that I really need to have. I will be making some space as I will be moving out some fish that I have already spawned, or ones that are not spawning for me.

If you don't know what either the Breeder Award Program or the Horticultural Award Program is all about, you can download the rules and forms for the programs from the club's web site at www.gaas-fish.net or you can get a printed copy from me at a monthly meeting. I keep track of the spawns and plant prop-

agations turned in over this year through November, then they are totaled up and the **Breeder of the Year** and **Horticulturalist of the Year** plaques will be awarded at the December meeting/Christmas party. In the mean time you can earn initial **Master Breeder** plaques for a variety of different categories of fish. There are two options, you can turn in a minimum of six fry which need to be between 30 - 90 days old at a monthly meeting or at one of our three auctions, or you can have them verified by a club member that you kept them alive for that length of time or longer, write an article about what they are, what they look like, where they come from, how you took care of and spawned them, our editor would appreciate you taking the second option. Another perk at the monthly meeting is for every qualifying spawn turned in you will get a coupon good for one dollars worth of raffle tickets.

On to the monthly business we had four spawns turned in at both the January and February meetings, so not too bad of a start but we need to pick things up a bit, we had some rather disappointing final totals last year, lets see if we can top them this year!

January 2015

BAP

Species	Common name	Class	Points
Gary Shingler			
<i>Heros severus</i>	Red shoulder severum	Cichlid s.s.	10
<i>Hemichromis bimaculatus</i>	Jewel cichlid	Cichlid s.s.	10
<i>Melanoides tuberculata</i>	Malaysian burrowing snail	Aq. animal	5
<i>Ancistrus teminckii</i>	Bristlenose pleco	Catfish	20

February 2015

BAP

Gary Shingler			
<i>Poecilia reticulata</i>	Guppy	Livebearer	5
<i>Planorbis corneus</i>	red ramshorn snail	Aq. animal	5
<i>Amatitlania nigrofasciata</i>	convict cichlid	Cichlid s.s.	5
<i>Macrobrachium sp.</i>	white claw shrimp	Aq. animal	10

2015 Totals	BAP	Points	HAP	Points
Gary Shingler	7	55	-	-
Don Youngkin	1	20	-	-



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Bowl Show & Special Activities

Don Youngkin



The Bowl Show began 2015 with a great start. January saw a record 20 entries, which was then topped by February's 27 entries. Hopefully, this trend will continue through the year.

The Bowl Show schedule is listed on this page. All are invited to participate.

January

Goldfish:

- 1st Dave Williamson Shubunkin
- 2nd Bill Koleszar Goldfish
- 3rd Dave Williamson Black Ranchu

Male Guppies:

- 1st Ken McGill All black (Moscow)
- 2nd Alissa Harvey Blue guppy
- 3rd Jeff Plazak Guppy

Minnnows, Danios, and Rasboras:

- 1st Dave Williamson Danio choprae
- 2nd Ken McGill Yellow Glo danio
- 3rd Jeff Plazak Harlequin rasbora

February

Male *Betta splendens*:

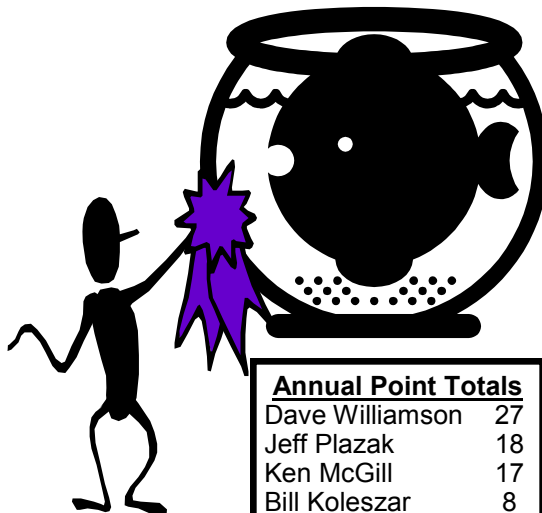
- 1st Charlie Suk Male Betta
- 2nd Bill Koleszar Male Betta
- 3rd Jeff Plazak Betta

Swordtails:

- 1st Dave Williamson Green Lyretail male
- 2nd Don Youngkin Orange Sailfin female
- 3rd Dave Williamson Green Lyretail female

Characins (Tetras and relatives):

- 1st Dave Williamson Long-fin Black tetra
- 2nd Wayne Toven Diamond Tetra
- 3rd Wayne Toven Colombian Red-Blue Tetra



Annual Point Totals

Dave Williamson	27
Jeff Plazak	18
Ken McGill	17
Bill Koleszar	8
Wayne Toven	6
Charlie Suk	5
Don Youngkin	4
Alissa Harvey	3
Lisa Koleszar	1

How the Point System works:

- 1st - 4 points
- 2nd - 2 points
- 3rd - 1 point
- 1 point per entry, maximum 12 points per class

2015 Bowl Show Schedule

January:

- Male Guppies
- Goldfish
- Minnnows, Danios & Rasboras

February:

- Swordtails,
- Male *Betta splendens*,
- Characins (Tetras & relatives)

March:

- Mollies
- Suckermouth Catfish
- Barbs

April:

- Female Guppies
- Corydoras, Aspidoras & Brochis
- Photography

May:

- Rift Lake Cichlids
- Sharks & Loaches
- Aquatic Invertebrates

June: no bowl show

July

- Native Fish
- Angelfish & Discus
- Aquatic Plants

August:

- Platies
- Rainbowfish
- Amphibians

September:

- Goodeids
- AO New World Cichlids
- Bog Plants

October:

- Gouramis & Anabantoids
- AO Old World Cichlids
- Arts & Crafts

November:

- AO Livebearers
- AO Egglayers
- AO Catfish

December: no bowl show

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Exchange Report

Wayne Toven



Brooklyn Aquarium Society,

Aquatica: Jan./Feb. 2015

Mollies Love Crackers! Collecting Sailfin Mollies in Florida, by Anthony P. Kroeger

Terrors of the Planted Aquarium, by John Todoaro

The Practical Plant - Propagating Pogostemon stellata, by Izzy Zwerin

Cool Cats, by Ian Fuller

Notable Natives - an American Beauty, by Anthony P. Kroeger

Tropical Fish Club of Erie County,

Some Things Fishy: Jan. 2015

Breeding Synodontis petricola, by Teri Seufert

Hamilton & District Aquarium

Society: Jan. 2015

Tropheops sp. 'Maorophthalmus Chitumba Blue', by Larry Johnson
The Mysterious L-144 Bushynose Pleco, by Charles Drew

Sarnia Aquarium Society, Aqua

Antics: Jan./Feb. 2015

Breeding Xenotoca eiseni, by Wayne Cole

HY511 Tetra, by Jack VanderAa

Michiana Aquarium Society,

Michiana Tropical Times: Jan. 2015

A Little Honey...Gourami, by Bob Thayer

Aquarium Club of Lancaster

County, Tank Tales: Dec. 2014

Breeding the Congo Tetra, by Richard Bressler

Zoogoneticus tequila, by Richard Bressler

Greater Pittsburgh Aquarium So-

ciety Inc. Finformation: Jan. 2015

Spawning the Blue Gourami, Trichopodus trichopterus, by Leslie Ernst

DID YOU KNOW..?

1. Like people, fish have five senses-sight, smell, hearing, taste, and touch?
2. The scales on fish are clear? They do not have any color. The colors of tropical fish come from the pigments in the skin under the scales.
3. Fish have excellent hearing?
4. A fish's stomach is about the same size as its eye?
5. Fish grow throughout their whole lives?
6. The teeth of fish are made of dentine and are similar to human teeth?
7. But unlike human teeth, fish teeth are always growing and being replaced?
8. Why fish have teeth is a mystery. Most fish do not chew their food, they swallow the food whole
9. The swim bladder is like a balloon? When the swim bladder is full, the fish can swim higher up in the water. To swim close to the bottom, the fish empties its balloon and sinks.
10. Fish have been around for the last 400 million years? Altogether there are more than 24,600 species of fish. Only 8,000 are freshwater tropical fish.

Reprinted from "101 Facts About Tropical Fish" by Sarah Williams



Not Your Regular No.2 Pencil... Keeping and Spawning the Golden Pencilfish - *Nannostomus beckfordi*

By Wayne Toven



In my twenty some years of keeping fish I have kept several species of Characins but have only spawned a couple. One of the species I currently keep is the *Hoplias malabaricus*, commonly called the Tiger tetra or wolf fish, it is definitely not one for the average fish keeper, but that is another story for another day. Some of the other species I am currently maintaining are neon tetras, cardinal tetras, Colombian red-blue tetras, diamond tetras, and a *Leporinus fasciatus*. I had only spawned one tetra so far, that was the Buenos Aires tetra, which spawned in one of my 110 gallon outdoor tubs over the summer a couple of years ago. That brings me to the golden pencilfish - *Nannostomus beckfordi*, which belongs to the order *Characiformes* in the family *Lebiasinidae*, which were first discovered by Gunther in 1872. The species was named for F. J. B. Beckford who collected them and was the first to present them to the British Museum, I could not find out what year that was, but they were first imported to Hamburg, West Germany in 1911 by Carl Sigglekow, so I am guessing it was before that.

The name *Nannostomus* comes from the Latin *nannus* - which means small, and the Greek *stoma* - which means mouth, so the name means small mouth, which means small foods.

In nature *N. beckfordi* are widely distributed in Guyana, Suriname, French Guiana, south to the eastern Amazon basin, and far upstream to the lower Rio Negro and the Rio Ori-

noco in Venezuela. They inhabit swampy areas, small brooks, and creeks that have very little current, there they stay in the shallow water with thick vegetation among driftwood and roots with leaf litter on the bottom. Their water parameters are as follows: a Ph of 5.5 - 7 slightly acid to neutral, 4 - 20 dGH soft, and at temperatures in the 70° - 81° F range. This specie only grows to just a smidgen over two inches so they don't need a large tank, they are a peaceful schooling fish so they should be kept in groups of six or more. I house my group of nine, five females and four males, in a ten gallon aquarium. The set up is simple a sponge filter, a small piece of driftwood, a couple of rocks, black sand substrate, some floating plastic plants for them to hang out in, they will stay in the middle to upper part of the aquarium, and a couple of yarn



mops on the bottom. Most of my fish room is located in my basement and is heated to around 73° F, temperatures around the room vary according to location and height, lower - cooler, higher - warmer, their tank is unheated so it stays right around 72° F.

The fishes color varies somewhat due to collection sites in wild caught specimens, but since practically all the fish available for the aquarium hobby are from fish farms, their color is more consistent. Their base body coloration is light almost golden brown, that is why they are also known as the brown pencilfish, they have a black band that goes from the mouth through the eye to the middle down to the bottom of the caudal peduncle and end on the base of the tail, above this band is a light stripe that is a white to bluish-white color depending on how the light strikes it. In the males below the black band the rear 2/3 of the body is red, the fins are mostly clear, sometimes depending on their mood there is a slight tinge of red on the dorsal fin and the ventral fins, the ventral fins have bluish-white tips, the caudal fin has a smudge of red above and below the black band, and the anal fin is red. The body shape is elongated with the females being slightly bigger around the belly area, and as usual the females are not as intensely colored than the males, the females only have a slightly red anal fin.

N. beckfordi are carnivorous and limnivororous, that means in the wild they eat tiny invertebrates and insect larvae that they find in the leaf litter and in the mud on the bottom, remember they have small mouths so they need appropriately sized food when kept in the aquarium. Food should be meat based, I used flake food, small floating pellet, and frozen bloodworms, feeding one to two times a day.

Now for breeding, according to the information I found the temperature should be raised to between 82° - 86° F, with subdued lighting. They can be spawned in pairs or a small group, another fact I found is that they are avid egg eaters, when spawning the set up needs to have lots of fine leafed plants or yarn spawning mops like I had, or have a mesh screen slightly off of the bottom with holes large enough to let the eggs fall through and to keep them out of the adults reach. After they have been well conditioned and the females are obviously fattened up with eggs, place the pair or group into the spawning tank, when the females appear thin again, remove the adults, but like I said I was not trying to spawn the pencilfish, so I did none of this. I was going to put them outside this coming summer into one of my 110 gallon tubs and see if they would spawn for me out there. The small transparent eggs

will hatch in 24 - 40 hours, the fry should be visible in approximately three days, and free swimming after six days, then the tiny fry will need rotifers and finely powdered foods. Water changes should be about 25% weekly to get the fry growing at a good rate, at least that is what I have been doing since I discovered the fry when I was doing a water change on the adults, which are still in the tank with three different sized fry. The largest fry are more like juveniles closing in on one inch in size while the smallest are about 3/8 - 1/2 inch in size, the majority are in between. At one point I counted 14 fry, and surely would have more if I had followed the information and spawned them in the proper way, but the adults are still in the tank and the temperature is 72° F. So don't take everything you read about spawning a certain species of fish as the only way to do it, sure it might be the way to maximize the size of the spawn,

but not the absolute gospel. I will be putting these pencilfish outside this summer and see if they do any better out there, Mother Nature seems to have a way with keeping the fish healthy and conditioned, so I will let her try.

References:

Internet sources- Aquaculture, Aquarium; Seriously Fish

Baensch Aquarium Atlas #1, Dr. Rudiger Riehl & Hans A. Baensch



GAAS 2015 Spring Auction

March 1, 2015

Tallmadge Community Center
80 Community Rd. Tallmadge, Ohio

Schedule

Auction Registration 10 a.m.
Auction Begins 11 a.m.

For more information:

Bud White (330) 848-3856
(bwhite@neo.rr.com)
Wayne Toven (330) 256-7836
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Rich Serva (330) 650-4613
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Java ferns are one of the more popular and beautiful aquarium plants, due to its availability, leaf varieties, ease of maintenance, and its apparently unappetizing flavor to the fish that are kept with it. The plants are amphibious, meaning they can be grown both aquatically and terrestrially. In the wild they can be found growing on tree trunks, rocks, or on the ground along streams which are periodically under water. *Microsorium pteropus* belongs to the largest family of ferns Polypodiaceae which contains perennial plants that grow from a horizontal rhizome. *M. pteropus* originally comes from Southeast Asia, India, southern China, Indonesia, Malaysia, and the Philippine islands. The genus *Microsorium* contains around 40 species, but only one specie is used as an aquarium plant. The name *Microsorium* comes from the Greek, micros – small, soros – piles, for the small piles of spores that form on the undersides



of the leaves. I have grown *M. pteropus* in the past in a terrarium, and have sexually propagated it from the spores. Normal propagation is by rhizome division or by adventitious plant growth on the margin of the leaves.

In the aquarium the plant has a strongly scaled rhizome with numerous tie roots, with which the plant

Propagating Narrow Leaf Java Fern

Wayne Toven

attaches itself to driftwood, rocks, or just in the gravel substrate. The rhizome should never be planted in sand, or buried as this will cause the rhizome to rot and thus kill the plant. Besides the regular variety there are 3 cultivated varieties of Java fern for aquarium use; they are windelov, tropica, and narrow leaf, which is the latest variety I have propagated, causing the writing of this article, satisfying the requirements for our Horticultural Award Program. The regular variety of Java fern's leaf blades are on short petioles (stems), and are lanceolate with a smooth edge, a distinct nervation, with undulate margins, and can be medium green to dark olive green in color. The submerged leaves can grow to 10 – 30 cm long (4"-12") and 25 – 75 cm wide (1" - 3"), however on the emersed (out of water) version which is how I grew mine; the leaves were tri-lobed on much longer petioles.



The plant is somewhat slow growing, but can tolerate a wide range of aquarium conditions, water can be acid to alkaline with a Ph range of 5 – 8, soft to medium hardness of 6 – 8 Dh, and temperatures between 18° - 30° C (68° - 87° F). Lighting can be from low levels to medium intensity, 11 – 12 hours a day, I currently am using fluorescent lights, as I haven't gone to the expense of converting to LEDs yet.

I have kept the regular variety, windelov variety, and now the narrow leaf variety, all of which were kept under water as an aquarium plant. None of them grew much bigger than

5 – 6 inches tall, that is why I tried the regular variety in a terrarium, to see how much bigger it would grow, it surprised me, the terrarium was a 29 gallon aquarium, and the leaves were right up against the acrylic plastic cover, so it got big! Anyway back to the point of this article the narrow leaf Java fern, I tried it in two different depths of aquariums. The first one is a homemade 50 gallon breeder which is 20" x 48" x 12" tall, the other is a 30 gallon long, which is 17" tall, lighting was the same on both two 48" full spectrum fluorescent bulbs on 12 hours a day. They both grew to about 6" tall with leaves 4"- 5" long and only about 3/8 of an inch wide on short petioles, so not much difference in size because of different light intensity. When a new leaf starts growing it starts out curled up on the petiole and unrolls as it grows.



I have had the plant for around 8 months and have not seen any adventitious growth on the leaf margins so my propagation is by division of the rhizome, if I can grow this plant anyone can. There are usually lots of Java ferns at auctions, so get some and keep those ferns growing.

References:

Encyclopedia of Water Plants – Dr. Jiri Stodola

Aquarium Plants – Their Identification, Cultivation, and Ecology – Dr. Karel Rataj & Thomas J. Horeman

Aquarium Plants – Christel Kasselmann

The Greater Akron Aquarium Society

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Meeting Notice - Do Not Delay

Meeting Notice

Thursday, March 5

Program: "Spawning Anguilliform (Eel Shaped) Loaches - or Not!" by Doug Sweet

Doug will talk about breeding these long slithery versions of the somewhat catfish-like loach family. Very few species have been bred in captivity.

Bowl Show: Mollies, Barbs, Suckermouth Catfish

Thursday, April 2

Program: Ken McGill, president of Lorain County Aquarium Society, will show how to culture several important live foods essential for early life stages of many fish. Some live foods such as green water, soft leaved aquarium plants, and "aufwuchs" algae are not always thought of as live. Other are small fresh-water and saltwater relatives of shrimp.

Bowl Show: Female Guppies, Photography, Corydoras, Aspadoras & Brochis

All general meetings begin at 8:00 p.m. at the Mogadore Community/Senior Center

Coming Events

March 15 — NEO-Fish Spring Auction

Pipefitters Union Hall, Local 120, 6305 Halle Drive (off Rockside Road) Valley View, Ohio 44125 Registration opens at 9am and the auction starts at 11am.

For more information go to: <http://www.neo-fish.com/events/auction-information/> March 15 and September 20.

March 20 -22, 2015 Northeast Council of Aquarium Societies CONVENTION EVENT: 40th Anniversary Aquarium Extravaganza! Sheraton Hartford South Hotel in Rocky Hill, Connecticut for more information: <http://northeastcouncil.org/NewNEC/index.php/convention>

March 21, 2015 - Motor City Aquarium Society - Spring Auction Madison Place, 876 Horace Brown Dr., Madison Heights, Michigan. Registration 9:00 to 10:30, auction starts at 10:30. For more information: www.motorcityaquariumsociety.com

March 22-Youngstown Area Tropical Fish Society Spring Auction

J.V. Johnson Community Center 800 Gillmer Road, Leavittsburg, OH
Registration: 11:00 to 1:00.
Auction: NOON
For more information: Tom 330.758.3043 or mruaru2@aol.com
www.YATFS.com

April 6, 2014 - Erie Aquarium Society - Spring Auction

Perry Highway Social Hall, 8281 Oliver Road, Erie, PA 16565
Registration starts at 10am. Auction begins at 11am.
For more Information: Russ Lasher (814) 833-0946 or Chris Mitchell-(814) 899-8920 camrcm@yahoo.com