

Photo by Brian Miller



GRAND VALLEY AQUARIUM CLUB TANK NOTES

NOVEMBER - DECEMBER 2018

ISSUE 82

GVAC ANNUAL HOLIDAY PARTY

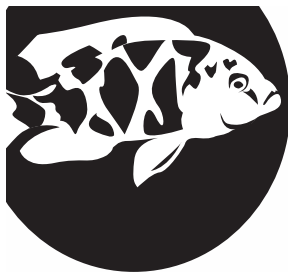
— DECEMBER 8, 2018 —



Time: 6 - 9 PM

Location: Grand Ravines Lodge
9920 42nd Ave
Georgetown Township, MI 49428

Activities include handing out club awards for 2018, our “Bring a Fish, Get a Fish” bag swap, and door prizes. Please bring a dish to pass, GVAC will be supplying turkey, ham, and mashed potatoes. Paid GVAC Members Only.



PRESIDENT'S MESSAGE

GVAC,

Fall is quickly coming to a close and the season of being indoors is fast approaching. If you are anything like me that means more time in the fish room, new projects and new fish! One of the things I love the most about this hobby is how there is always something new to explore and try. I know I say this a lot, but branch out and try something you haven't done before. I know personally that Robert Lupton's last talk got me even more interested in shrimp than ever before, and that is coming from a cichlid guy!

I want to take this opportunity to thank all of you for a fantastic year. I am proud to be part of an organization that works together to put on great events from our auctions and swap to the ALA convention last spring. Our club always rises to the occasion and does a great job! A huge portion of that is due to the work of your Board of Directors and other volunteers. This organization would not exist without their tireless work. There is no way that this club would be where it is without their work. Thank you to all who make GVAC the group that it is.

I hope to see you at our November meeting and Christmas party in the coming weeks. These events are our chance to give back to you and say thank you for a great year. I hope you are able to join us as we close out 2018 and look to an exciting 2019 of auctions, meetings and fishy fun! Be sure to take a look in this newsletter for a first glance at our 2019 speakers!

Swimming Forward,

Justin Sarns

CALENDAR OF EVENTS:

NOVEMBER:

10: GVAC Meeting
7 PM - Homeschool Building
Speaker: Rare Fish Night

Motor City Aquarium Society Auction
Madison Heights, MI
motorcityaquariumsociety.com

16-18: Ohio Cichlid Association Extravaganza
ohiocichlid.com

DECEMBER:

8: GVAC Holiday Party
7 PM - Grand Ravines Lodge
Georgetown Township, MI

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SpectraPure
Ted's Fishroom
Tetra
TFH - Tropical Fish Hobbyist
Watercolors Aquarium Gallery
Zoo Med Laboratories, Inc.

Jeremy Deroos – 25

ancistrus cirrhosus
Betta splendens "Plakat thai"
Fundulopanchax Gardneri
Labidochromis Caeruleus
Limia vittata
Clean helenae
Macropodus opercularis
Neocardina davidi
Neocardina Hetropda
Neocardina Zhangjiajensis
Oryzias Woworae
Pelvicachromis pulcher
Planorbatus Corneus
Pocilia Wingei
Poecilia obscura
Poecilia reticulata
Poecilia Wingei "Blue Star"
Pomacea bridgesii
Procambarus fallax
Steatocranus irvinei
Synodontis lucipinnis
Dawkinsia filamentosa
 'filament barb'
Heros efasciatus 'gold severum'
Physella acuta 'bladder snail'
Tanichthys albonubes
 'golden' white cloud

Chris Carpenter – 10

Aulonocara sp. Lwanda
Callochromis melanostigma
Cyphotilapia Frontosa
Cyrtocara Moorii
Haplochromis sp. kk beach
Lamprologus Calliurus
Lamprologus Leloupi
Maetriaclima lanisticola
Neolamprologus kungweensis
Xiphophorus kallmani

Jeff Lusk – 7

Julidochromis marlieri
Labidochromis sp. "Hongi"
lepidolamprologus meeli
Melanoides tuberculata
Neolamprologus Brevis "Sun Spot"
Planorbis Rubrum

Tropheus Sp. *Maculatus*

Jonathan Kamps – 7

Chindongo Saulosi
Neocardina Davidi
Neolamprologus Brevis
Neolamprologus Calliurus
Neolamprologus Olivaceous
Physella Acuta
Planorbis Rubrum

Mike Monje – 6

Danio Rerio var. *Franki*
Danio Roseus
Rasbora Vulacrus
Oreochromis crenuloides
Pethia Ticto
Tanichthys micagemmae

Rachel Roth – 6

Callochromis melanostigma
Geophagus Red head Tapajo
Labidochromis caeruleus
Pocilia reticulata
Pocilia Reticulata
Poecilia reticulata

Aaron Turner – 6

Carassius auratus
Poecilia wingei
Xiphophorus Maculatus
Betta splendens
Pelvicachromis pulcher
Poecilia reticulata

Justin Sarns – 5

Amatitlania nigrofasciata
Aulonocara Maulana
Labidochromis sp.
 "Hongi Super Red Top"
lamprologus speciosus
Neolamprologus brevis sunspot

RJ Morris – 4

Asolene spixi
Pocilia reticulata
 "Red Flamingo Guppy"
Xiphosphorus Helleri

Chase Klinesteker – 3

Barbus Macrops
Darario Sondhii
Undescribed Tetra from Manan

Jerimiah Drake – 3

Neocardina cfzhangliawiensis
planorbis rubrum
poecilia wingei campoma

Joe Gardner – 3

Neolamprologus Olivaceous
Pseudotropheus Demoasoni
Melanochromis dialeptos

Eric Clements – 2

Procambarus sp. "marble crayfish"
Xiphophorus sp.

Eric Maxson – 2

Haplochromis sp. K.K. Beach
Xiphophorus hellerii

Aaron Timmer – 2

Puntius titteya
Xiphophorus maculatus

Scott Visser – 2

ancistrus cirrhosus
Maylandia lombardoi

Cyndi Westra – 2

cynotilapia white top hara
Enantiopus Melanogenys

Brian Miller – 2

Xiphophorus Maculatus
Nomorhamphus liemi

Joe Spaniolo – 1

Lamprologus Brevis

Kory Voodre – 1

Cyphotilapia Frontosa 'kigoma'

John Yost – 1

Ophthalmotilapia ventralis "Chaitika"



NEOLAMPROLOGUS KUNGWEENSIS

By Chris Carpenter

Lake Tanganyika is truly a wonder and home to a wide variety of living creatures, including over 150 cichlid species. When I got started in the hobby I was immediately hooked on the cichlids from Lake Tanganyika. Over the years I've kept, bred and studied many of these fish. I've taken a particular interest in the shell dwellers, also called "shellies" for short.

Occasionally there is some confusion as to which species are true shell dwellers. The definition of a true shellie would be "a fish in the wild that naturally makes use of an empty shell for shelter and spawning" also called an Ostracophil. Some fish are true shell dwellers and use shells exclusively, but there are others that are known to use different sites for spawning and refuge but will make use of an empty shell if the opportunity presents itself. These fish are referred to as "opportunistic shell dwellers". *Neolamprologus kungweensis* is considered an opportunistic shell dweller. Described as a "mud spawner" in the wild they build a diagonal tunnel in the mud and lay non-adhesive eggs at the bottom, but they have been known to lay these eggs in shells as well.

Finding these fish in the hobby can be a challenge but with the age of the internet and plenty of people selling and shipping fish, they can be found, if you search the right sources. I found some for sale from an online seller that I trust approximately one year ago and because they were high on my "fish wish list" I ordered 6. The cost was reasonable, but shipping was high due to the time of year. While unboxing the fish I was surprised to find that I had received 8 fish, 2 males and 6 females. I set them up in a 40 long with plenty of shells. I debated trying to replicate a mud tunnel

with PVC pipe and an elbow, but I decided against it because it would have required me to increase the depth of my substrate.

In appearance these fish look very similar to *Neolamprologus signatus* and *Neolamprologus laparogramma*. Like almost all cichlids that use shells they are small. Males max out at 2" and females top out at 1.25". Their body is mostly silver aside from some beautiful blue markings around the eye that almost makes them appear as if they've applied makeup. The dorsal fin of females have unique black spots surrounded by white. Males have the same pattern, but the color is absent. Females also have a golden belly which is increasingly evident when in spawning condition.

Once introduced my fish went about establishing their territories. Males setup camp on opposite ends of the 48' tank and met in the middle to flare at each other, in a smaller tank I think there would have been more aggression. Females moved about freely, but once they chose a spot they would chase out intruding females. A month or two passed with regular water changes and a healthy diet and I saw no evidence of spawning behavior. I decided to separate a pair that seemed to get along. I moved the pair to an established 10 gallon and within a couple days I saw that they had excavated a small pit with a shell directly in the center. Approximately one week later I found close to 30 of the smallest cichlid fry I had ever seen. These fry were tiny! Many shellies will raise their fry for an extended time. I decided to test their parenting skills and they failed. The female started eating the fry within a couple days and the male was not happy about that, so he turned on her and chased her relentlessly. Back to the 40L they went. I tried a couple more unsuccessful pairings until I eventually found one that worked. It didn't take long before I found another sandpit. This time I noticed the female fanning eggs inside the shell and I got up close to take video footage. She fanned a few times and then noticed me, moved to a shell 6" away and started fanning. I swear she did this just to throw me off! I've since witnessed this behavior multiple times. Most often the fry emerge from the shell where the pit has been dug, but not always. After the fry are either removed or eaten the pit has always been covered up, which helps give me a clear indication of every spawn, see a pit, look for fry soon.

I've had my challenges raising the fry. I thought due to their extremely small size that it was

food related, but after exhausting all micro food options I decided to try something that has worked successfully for me in the past. I moved the parents to a new tank instead of moving the fry. It worked! The fry are now getting fed live baby brine shrimp and micro worms and thriving. If you're looking for a unique fish that's subtly beautiful, clever and

entertaining, keep an eye out for a BAP bag of *Neolamprogus kungweensis* coming to a GVAC meeting in 2018.

Watch a video of them spawning here.
<https://www.youtube.com/watch?v=4Ysc4vSKDj8>

2018 HAP JANUARY - OCTOBER

Brian Miller – 64

Alternanthera Ficoidea (V)
Alternanthera Reineckii (V)
Anubias Barteri "Gold Coin" (V)
Anubias Hostifolia (H)
Anubias nana (F)
Anubias Nancon (V)
Anubias Nanji (V)
Aponogeton Longiplumulosus (V)
Aponogeton madagascariensis (V)
Aponogeton ulvacenus (F)
Anubias barteri Var *nana* (V)
Anubias Barteri Var *Nana Petite* (V)
Blyxa Japonica (V)
Bolbitis Hetetoclita (V)
Bolbitis heudelotii (V)
Bucephalandra Catherine Red (V)
Bucephalandra ghost ulu kapus (V)
Cabomba Pulcherrima (V)
Caulerpa sertularioides (V)
Ceratopteris Thalictroides (V)
Chaetomorpha (V)
Crinum Calamistratum (V)
Crypt Beckettii (V)
Crypt walkeri (V)
Crypt wallissi (V)
Crypt wendtii tropical (V)
Cryptocoryne Affinis (V)
Cryptocoryne Aponogetifolia (V)
Cryptocoryne Lutea (V)
Cryptocoryne Pontederiifolia (V)
Cryptocoryne Usteriana (V)
Dracaena Braunii
Echinodorus Hadi Red Pearl (V)
Echinodorus Horinantal (V)
Euchornia Hyacinth (V)
Echinodorus Martii (V) (F)
Echinodorus Ozelot (V)
Echinodorus Rubin (V)
Echinodorus Sp. Fran's Stoffels (V)
Echinodorus "St. Elmo's Fire" (V) (F)
Egeria Najas (V)
Homalomena Sekadai (V)
Hydrophila solicifolia "blue" (V)
Hygrophila carymbose (F)
Hygrophila Corymbose (V)
Lilaeopsis Novaezealandiae (V)
Limnophila indica (V)
Lomariopsis sp (V)
Microsorium pteropus Var *narrow* (V)
Microsorium pteropus Var *Windelov* (V)

Najas guadalupensis (V)
Nuphar stellata (V)
Nymphaea Zenkeri (F)
Nymphoides hydrophylla "Taiwan" (V)
Pistia Stratiotes (V) (F)
Riccia Fluitans (V)
Sagittaria subulata (V)
Salvinia Molesta (V)
Soleirolia Soleirolia (V)
Vallisneria americana (V)
Vesicularia dubyana (V)

Jeremy DeRoos – 14

Najas Guadalupeensis (V)
Eichloria crassipes (V)
Valseraria (V)
Anubias barteri gold coin (V)
Pistia Stratiotes (V)
Ludwigia Ovalis (V)
Ceratophyllum Demersum (V)
Cryptocoryne Petrosipallid (V)
Spirodela Polyriza (V)
Cryptocoryne wendtii red (V)
Subwassertang (V)
Microsorium pteropus lace (V)
Echinodorus Amazonicus (V)
Bacopa Sp. Monnierii (V)

Jonathan Kamps – 14

Alternanthera Reineckii "mini" (V)
Anubias afzel (V)
Anubias Barteri (V)
Anubias barteri coffeefolia (V)
Anubias barteri Var nana (V)
Cryptocoryne Pontederiifolia (V)
Cryptocoryne Usteriana (V)
Cryptocoryne Wendtii (V)
Echinodorus Amazonicus (V)
Eleocharis sp. "Mimi" (V)
Glossostigma elatinoides (V)
Microsorium pteropus (V)
Vallisneria America (V)
Ludwigia Atlantis (V)

Peter Goettner – 11

Alternanthera Reineckii (V)
Araceae (V)
Cryptocoryne Moehmanni (V)
Cryptocoryne Wendtii (V)
Echinodorus Horizon tales (V)
Echinodorus red flame (V)

Lomariopsis sp. (V)
Microsorium pteropus (V)
Nymphaea Zenkeri (V)
Ceratopteris Thalictroides (V)
Cryptocoryne Becjettii (V)

Mike Monje – 10

Vesicularia sp. mini Christmas moss (V)
Subwassertang (V)
Cryptocoryne Undulata (V)
Buce moteyana (V)
Cryptocoryne Blassi (V)
Anubias Barteri Var Nana Petit (V)
Nymphaea stellata (V)
Hygrophila Corymbosa (V)
Spiridela Pilyrhiza (V)
Limnophila Indica (V)

Eric Clements – 8

Ceratophyllum demersum (V)
Echinodorus (V)
Nymphoides Hydrophylla (V)
Roatala Rotondlofia (V)
Echinodorus Oriental (V)
Echinodorus Ozelot (V)
lemnoideae (V)
Hygrophila difformis (V)

Eric Maxson – 8

Oriental swords (V) (F)
Cryptocoryne Blassii (V)
Cryptocoryne Usteriana (V)
Echinodorus (F)
Echinodorus Fran's Stoffels (V) (F)
Echinodorus Ozelot Sword (V)

RJ Morris – 4

Ceratopteris Cornuaia (V)
Cryptocoryne Wendtii Tropica (V)
Echinodorus Amazonicus (V)
Nymphoides Hydrophylla "Taiwan" (V)

Kevin Hightower – 2

Cryptocoryne Pontederiifolia (V)
Cryptocoryne walkeri (V)

Justin Sarns – 2

Limnophila indrea (V)
Micranthemum (V)

Jeremiah Drake – 1

Duck weed (V)



PART 2 OF THE ADDICTION

By Brian Miller (Photos by the Author)

When I joined the club it was the spring auction of 2017. Had 5 tanks going, and as a first timer at the auction spent \$450 or so. Had a great time.

After being in the club I have add a few tanks to around 56 in total running and around 20 emptys (you know for emergencies). To make a long story short I started to build a fish room in my garage, approximately 10 by 12. Working on it on the weekends while the wife was at work, by the way she had no idea about it until there where 18 tanks running (not a really good idea going that route). She was not happy about is ok with it now and has said I can have as many tanks I can put in the garage.

Big thanks to the club and members for feeding my addiction!



2019 NEW LOCATION!

We will be holding meetings at a new location starting January 2019:

Frontline Church
4411 Plainfield Ave NE
Grand Rapids, MI 49525

*Our Swap Meet, Spring and Fall Auctions will still be held at the
Homeschool Building*

ORYZIAS WOWORAE 'DAISY'S BLUE RICE FISH'

By Jeremy DeRoos (Photos by the Author)

A beautiful nano species endemic to Indonesia. The hues of red, blue and yellow, make this a stunning fish to home Aquaria. Natural water chemistry; when wild caught: PH range of 6.0-7.0, temperature of 70-75 Fahrenheit and water hardness of 100-250 (ppm). Found within freshwater streams, under forest coverage, fallen leaf matter and with a muddy to sandy bottom.

A low-temperament species; which does well with other non-aggressive species, of similar size and temperament. Obtaining a juvenile and or sub-adult group of 6-8, within a 10 gallon aquarium or 20 gallon long is ideal. Provide natural plants, driftwood, catappa leaf, etc. will make a nice ecosystem. As this species can tolerate cooler temperatures of 67-75, a heater isn't necessary.

Breeding objective

Initial Set-Up

Maintain a group of 6-8 within a 10 gallon aquarium. Provide Najas "guppy" grass along the water surface. Utilize a 100% acrylic spawning mop staying suspended in water column (a bobber works great for this). Establish the ecosystem with the following water parameters: Ammonia 0, Nitrite 0, Nitrate 10-35 ppm, Temperature 68-73, General Hardness 175-250 ppm, KH (carbonate hardness) 150-200 ppm and PH 7.5-8.1.

Conditioning Phase

Feeding live daphnia, baby brine and or micro-worms work well. Conduct a small 5-10% water change with RODI water without re-mineralizing in the afternoon or early evening.

Spawning

This takes place typically in the overnight or early morning hours and may happen every few days.

Mop Collection

Wait 36-48 hours after the initial conditioning phase. In this time do not feed. Collecting mops is a simple task. Simply remove and lightly squeeze the mop to free of

excessive water (ensure no fish are within the mop). Take to a location with good lighting and examine the mop. If eggs are identified within the mop, remove carefully with tweezers (refer to next step).

Collecting Eggs

Utilizing a container with pure RODI water (neutral PH of 7.0 and no remineralizers) place each one of the collected eggs in the container. To reduce cross contamination of infertile/fungal eggs a solution of 3% Hydrogen Peroxide at a dosage of 5 ml (1 tsp.) per 5 quarts of water can be added within the designated container. No need to conduct water changes in the interim; while waiting for embryo development and hatching of eggs. Add some purigen to aid in maintaining water chemistry.

Observation Period

Remove any infertile and or fungal eggs. Keep an eye on embryo development during this time. If you identify dark spot within the egg, this is a good sign and indication of normal development (these are the eyes).

Hatching (wrigglers)

This takes 7-16 days typically and dependent upon temperature (72-75 degrees). As the embryos begin to hatch and enter the wriggler state, continue monitoring until free swimming. Once free swimming, you can then transfer to a 2.5 gallon aquarium, utilizing the same aquarium water as the parents with a sponge filter (ensure the sponge filter is a seeded sponge; containing good beneficial bacterium).

Rearing



Pic of week old fry (post wriggler stage)

While maintaining within the 2.5 gallon ecosystem, this allows for sufficient target feeding and therefore reduces the stress for fish to obtain food. Maintain balanced and sustainable water chemistry, just like that; for which would happen in the parents ecosystem.

Feeding the Fry

During this phase – offer live micro-worms until further development. After about 3-4 weeks, relocate to a 5.5 gallon ecosystem (following the above mentioned with regard to water parameters). Feed once daily in the morning. DO

NOT OVER FEED!

Continued Development of Offspring

Now, while in the 5.5 gallon system, continue feeding live micro-worms. After about 1-2 months they will begin to put on appropriate size to transition to a powder or crushed up form of dry foods. It's always important to provide a balanced diet with most specimens of live stock; rather than just saying it's just an omnivore, carnivore, herbivore etc. Maintaining a balance of carbohydrates, proteins and overall vitamins/minerals, is key to thriving and long-term success.

Sexual Distinction:



Pic of female



Pic of male

The males will be more colorful, not have the orange line underneath body from caudal to pectoral fins as you see in the females. Males will have longer dorsal fins. Identifying the differences; works much easier under good lighting.

Unique Characteristics

The females having the unique ability to maintain the eggs (expelled from body) within the genital pore, until which point they are singly deposited and or within clumps.

Conclusion

As a hobbyist, whom has bred many different specimens of livestock throughout the years; there's many methods, for which one can do to achieve results. The information presented herein, is through many methods of testing and variability; in order to obtain the BEST possible overall yields. Ensuring redundancy and consistency, is key to success and long-term sustainable results.

A STORY ABOUT THE LIFE OF A BETTA, A TRUE STORY

By Peter Goettner

When you read this I would have to say that I've probably been in Betta Heaven a few years now. Because I've had a very exciting life, I want to share this story with you, and here it goes, by the way this story is true.

My name is STM, which is short for steel blue male. I was born in a nice little house in Kalamazoo, MI, where a fellow name PJ had a basement full of other bettas. Some of them were my brothers and sisters. Some of them were not. It really did not matter to me, because I hated all of the males anyway and would have loved to mate with all of the gorgeous females that PJ was keeping, sisters or not.

Fate now had it that I would go on a journey that would keep me apart from all of the other males, and actually it would have filled them with envy. First of all, PJ must have thought that I was not worth keeping. I did not know why. Maybe PJ just needed reading glasses or just overlooked my beauty. Anyway, one day he decided I had to go. Thank God he did not pitch me down the drain or use me for food for his ferocious Oscar that he kept!

To make a long story short, I ended up in a bowl at his favorite pet shop in town. Lots of people came by our display to gawk at me and my brothers, who also ended up there. I did not care for most of the people who came by, so I did not flare up much to attract their attention.

I must have been in the store for a week, when one evening a fellow named PG stopped by the store. Right away I thought "this guy looks like he knows Bettas, because he really looked us over." I liked PG right away and started to flare like I have never flared before in my life, even though no other fish flared with me. Guess what? PG liked me so well that he bought me, and for a very low price, too. I heard him mention \$2.00. Now I thought I was worth a lot more, but there was nothing that I could do or say in my little bag

in which PG took me home.

I liked it very well at PG's place, because he gave me some yummy food like white and black worms. I was hoping he did not just fatten me up to be food for his Texas Cichlids. To my surprise I found myself in a breeding tank a few days later with a really pretty steel blue chick, with some sexy fins that did not quit. So, right away I started to blow lots of bubbles and two days later consummated my marriage with my own steel blue bride.

Even though I did not like the water very much in which PG kept me in, I raised quite a few fry to the swimming stage, at which time PG took me out of the tank. I was very thankful to him, because taking care of a large brood is very demanding and I don't know why we males have to take care of the next anyway. Why not leave it to the females?

A few days later PG looked me over and mumbled to himself like "came through in excellent shape... might consider you for IBC show... need the points." So guess what? He packed me up with some other males and females and took us to a Betta show.

At judging time, the judges came around with their flashlights and straws, and I flared my little heart out of PG. "See PJ, I would have done it for you," I thought as I flared away. The judges did not have to use their straws on me because I was going crazy in my little bowl, and I did it all for PG!

Guess what? They gave me first place in my class! "Not bad for a pet store Betta," I thought. After that, PG sent me to another IBC show, where again I ended up with first place.

A couple of weeks later I overheard PG mention "IBC Convention," when he talked to us. Should I get excited? I did not know it then, but I found out later that this is the biggest show of the year! I hoped that I could go too, and was afraid PG would leave me behind.

Guess what? PG took me and a bunch of other Bettas to the biggest show of the year! There sure were a lot of other Bettas around, and of course a lot of competition. I thought for

sure that a pet shop fish like me could not even place in a show of this magnitude.

I ended up in second place to one of the other steel blue males PG brought with us. So, I did not feel bad for myself or PG until somebody mentioned the auction sticker on my jar, which of course I could not see from the inside of my jar. What a disappointment this was. PG was all done with me, and did not want me around anymore. He had the gall to just auction me off. I wonder if he needed the money?

In the evening after the judging, a lot of people in snazzy clothes came by and looked us over. To my big surprise PJ also came by and looked at me very carefully. I could not believe it! Why did he not recognize me, and why would he want to buy me when he sold me to the pet store for a lousy dollar?

To make a long story short, I ended up in PJ's basement again, and I had a lot of fun breeding with my sisters, but I'm confused. Why did he pay \$35 for me when he could have had me for free?

A Note from Peter on this story:

In this story, "PJ" is Parris Jones, two time Grand Champion at IBC. "PG" is Peter himself, who has also been a Grand Champion at IBC.

2019 GVAC SPEAKER AND EVENTS LIST

January 12: Scott & Jeff - Stingrays

January 26: GVAC Winter Swap Meet

February 9: Zoea Warnick - Fish Nutrition

March 9: Karen Randall - Planted Aquarium

March 23: GVAC Annual Spring Auction

April 13: Patrick Miller - Ponds

May 11: Dan Hodnett - Killifish

June 15: Christine Keyes - Fishroom

July 13: GVAC Summer Picnic

August 10: Matt Pederson - Breeding Saltwater Fish

September 14: Ben VanDinther - Bettas

October 12: Chris Carpenter - Shell Dwellers

October 26: GVAC Annual Fall Auction

November 9: Rare fish with Profiles

December 14: GVAC Christmas Party

Speakers and Dates are subject to change.



Photo by Shealyn Sarns, 2018 GVAC Fall Auction



GRAND VALLEY AQUARIUM CLUB

P.O. Box 325

Grandville, MI 49418

Address correction required

2018 BOARD OF DIRECTORS

President	Justin Sarns
Vice President	Chris Carpenter
Treasurer	Brian Miller
Recording Secretary	Tim Boelema
Corresponding Secretary	Eric Maxson
Sergeant-at-Arms	Rachel Roth
Members at Large	Mike Monje, Jeremy DeRoos, Jon Kamps, Ben VanDinther, Eric Clements, Ken Zeedyk

COMMITTEE CHAIRPERSONS

Membership	Brian Miller
Program Director	Chris Carpenter
Swap Meet Chair	Eric Maxson
Auction Chair	Jeremy DeRoos
Breeder Award Program (BAP)	Jon Kamps
Hort. Award Program (HAP)	Brian Miller
Newsletter Editor & Website Administrator:	Shealyn Sarns
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GVAC FELLOWS

The following is a list of Fellows of the Grand Valley Aquarium Club. These are members who have contributed to making GVAC a successful club. They have held many positions within the club and donated countless hours during those tasks that would not be completed without their hard work and dedication. New Fellows are nominated by current fellows and voted on by the general membership.

Tim Boelema	Ben VanDinther
Finn Nielsen	Jeff Vander Berg
Ken Zeedyk	Patrick Miller
Roger Miller	Mike Monje

Don't forget to thank them when you see them at meetings or other events.

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