

**TBAS . . . Since 1992**



# THE FILTER



*Hyphessobrycon vilmae*  
Vilmae Tetra

**November 2017**  
**Volume 27 Issue 4**

Photo Mike Jacobs . . . 2017



**November Meeting Speaker:**  
**Shelby Bush**  
**"Cichlids 101"**

**November Bowl Show**  
1) Goldfish & Koi  
2) Invertebrates



# TAMPA BAY AQUARIUM SOCIETY

## "THE FILTER"

Tampa/St. Pete, Florida

# TBAS

## TABLE of CONTENTS

# TBAS

Click on Title to go Directly to Item

3) President's	Bill Shields
4) Fish Nutrition Pt 2	Joe Gargas
6) Joe Gargas Red Discus with Fry - Video	
6) Joe Gargas Feeding Fry with Beefheart - Video	
7) 2017 State Fair Aquarium Beautiful Photos	Mike Jacobs
10) TBAS Membership Dues	TBAS
11) Bowl Show Categories	TBAS
12) Bowl Show Results	TBAS
13) Random Shots	Mike Jacobs
14) Angels Plus Videos	TBAS
15-18) TBAS Supporters	TBAS
19) TBAS Officers	TBAS
20) TBAS Information	TBAS



# President's Stuff



**Bill  
Shields**



A BIG THANK YOU goes to Grant Eder for his educational presentation on setting up a Nano tank. Judging from the many good questions and the expert answers everyone in attendance also enjoyed and learned from a master. Hopefully we will see Grant's methods put into use at the Florida State Fair Aquarium Beautiful Competition by our members as there is a new Nano tank class.

This month is our annual food collection for those in need. Please bring in nonperishable food items to the meeting and we will take them to the collection center. Next month we will again collect food and also new unwrapped toys for the Marine's Toys for Tots program. The TBAS has always shown our generosity. Our Christmas party chair position has been taken on by our Vice President Randy Hahn. Please see him at the meeting to coordinate the side dishes. Dre will be acquiring the meat and drinks which are sponsored by the club.

Having just returned from a Go Wild Peru trip to Puerto Maldonado, Peru with Brian Skidmore, I am a little behind in my work. Brian and I had a fantastic time and got to see the jungles of Peru up close and personal. This is a land based trip very similar to the way we collect in Florida. Brian kept a journal and we both took a lot of pictures to be shared in the future. We caught many amazing fish and will be having some shipped back to us. Anyone thinking of a collecting trip to South America should seriously go with Go Wild Peru.

*Bill*

**Bill Shields, President, TBAS**

# NUTRITION

## Part 2

aquaresearchcenter.com



by Joe Gargas

This month, the individual vitamins, their functions and occurrences, and their respective values to fish will be discussed.

### FAT-SOLUBLE VITAMINS

Vitamin A occurs in most foodstuffs as the so-called provitamin A (carotin), and first turns in to actual Vitamin A in the body of the animal. It occurs in green plants, especially in algae. Vitamin A<sub>1</sub> is found in the stomach of small crustacea, insects and their larvae; A<sub>2</sub> in the eyes of freshwater fish (to enable vision). The primary effect of Vitamin A deficiency is damage to the epithelial cells. Therefore, Vitamin A is also designated as the epithelialprotecting vitamin. As an anti-infectious agent, Vitamin A inhibits skin infections and is responsible for the formation and maintenance of function of the skin's slime layer. Vitamin A is often prescribed for blindness and diseases of the eye. Live bearers can bring young to the world blind, circumstances permitting, and hatching capability can be severely impeded. Vitamin A is partly stored in the liver and yolk of fish eggs.

**Vitamin D:** It is important to distinguish between three various vitamins: D<sub>1</sub>, D<sub>2</sub>, and D<sub>3</sub>, among which known differences in the mode of their action arises. One frequently finds Vitamin D in association with Vitamin A. Deficiency of this so-called anti-rickets vitamin causes bone diseases; however, this disease is closely linked to the Ca-P (calcium/ phosphorous) balance.

Furthermore, a deficiency of Vitamin D can cause disturbances to metabolism, which leads to problems with starvation and the musculo-skeletal system. Vitamin D is closely linked to steroids, which through irradiation with UV light can be transformed into compounds with Vitamin D characteristics. The real Vitamin D is Vitamin D<sub>3</sub>, an animal product that is formed in the body through photochemical transformation from a precursor, a derivative of cholesterol. The fish is capable of producing this compound itself, and the transformation results from UV irradiation.

**To Table of Contents**



From this process results the relationship between maintenance of the fish and the requirement of Vitamin D.

It is therefore advisable to give free Vitamin D on the food for surface fish such as half-snouted pikes, hatchetbelly fish and others, along with lighting that has a high UV component. The provitamin of Vitamin D occurs in zooplankton and in algae. During rich feeding with small crustacea, insects and their larvae, Vitamin D balance can be fully achieved.

**Vitamin E** has a close relationship to the sex hormones, and for this reason it is also designated as an anti-sterility vitamin. Vitamin E has specific effects on the musculature, endocrine glands and nerves. Among the symptoms of deficiency is fin paralysis. In female animals, the disturbance is of a lesser nature and is entirely curable.

Vitamin E increases the egg hatch rate, brood growth and the fertility of the adult fish. The chief function of Vitamin E among animals is viewed today as being an antioxidant; and also has the effect of protecting Vitamin A from oxidation. In addition to this, it plays an important role in electron transport in the respiratory chain. Vitamin E can be taken in from plant matter.

**Vitamin K** prevents anti-hemorrhagic vitamin deficiency, which causes disturbances in growth, skin and inflammation of the slime layer, low fertility and inadequate blood formation. Vitamin K is found in green plants of all species.

# Aqua Research Center

Water Analysis & Interpretation  
[www.aquaresearchcenter.com](http://www.aquaresearchcenter.com)

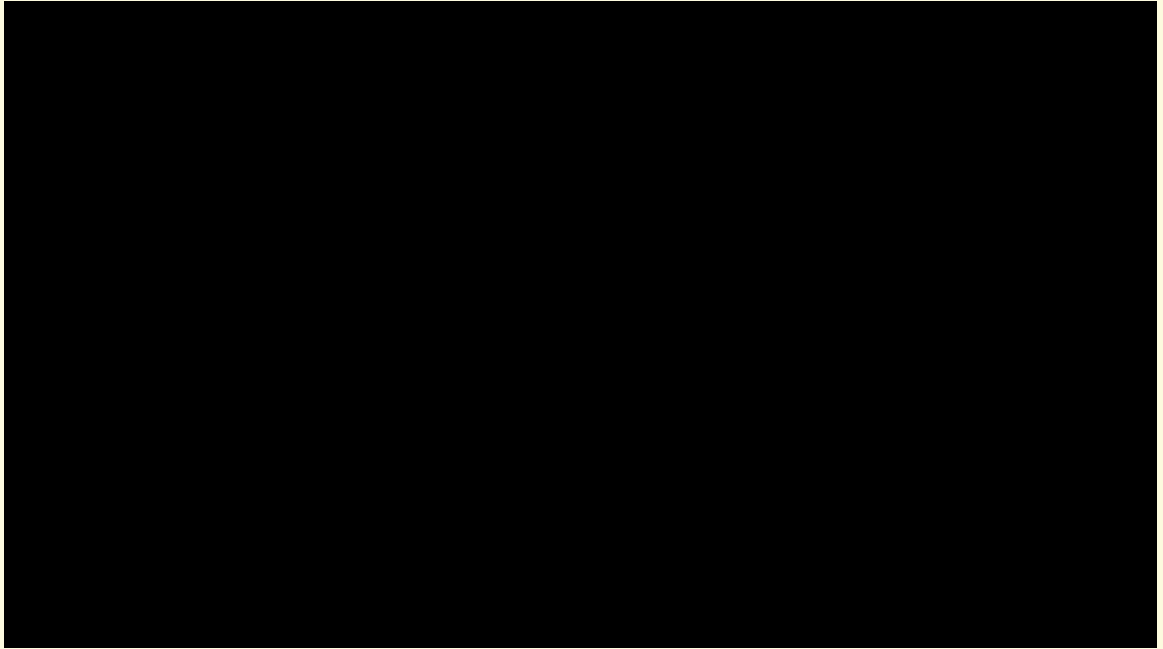
by Joe Gargas

Ph: (813)645-1717

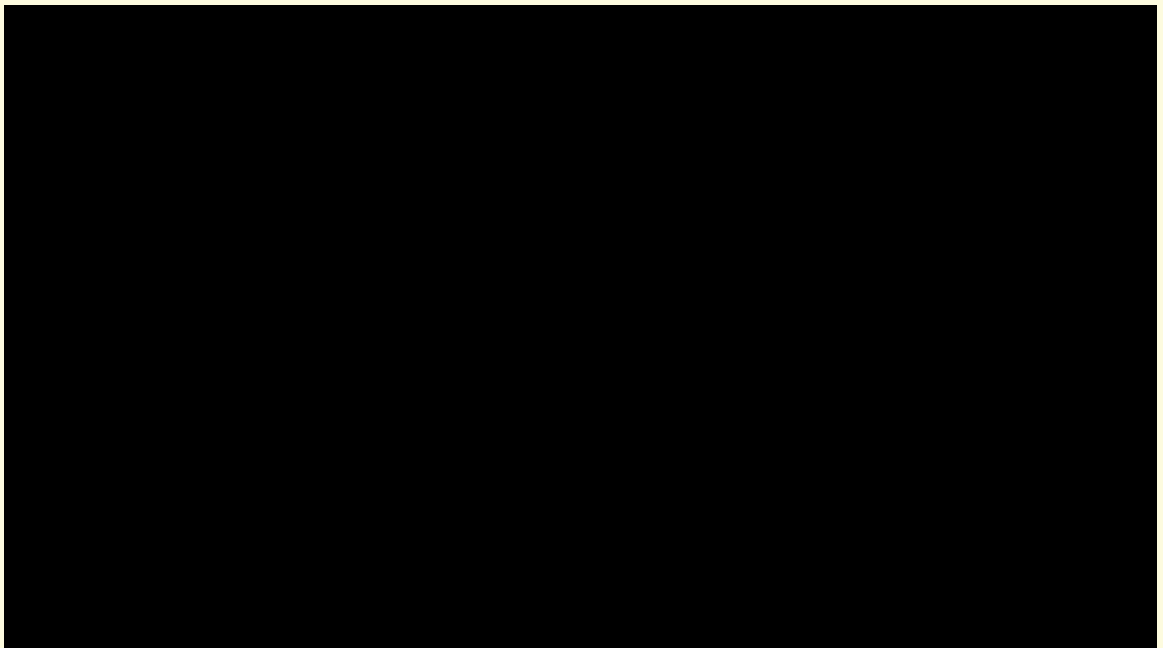


California Green Angels . . . *Pterophyllum scalare* photo Mike Jacobs 2017

# **Joe Gargas Curipera Red Discus With Fry**



## **Joe Gargas Discus Fry Eating Beefheart**



**EDITOR:** I was going through some of my photos to clean up my files and ran across the photos of the TBAS State Fair, 2017. **I had never published them** . . . so here they are! I don't remember all of the categories so I will just present all of the work of everyone! Most of them were **STILL** a "work in progress" so if you see some drops on the water on the front glass or 1/2 filled tanks, that's why!!! **BUT THEY SHOW THE WORK THE FOLKS PUT IN!!!**

---

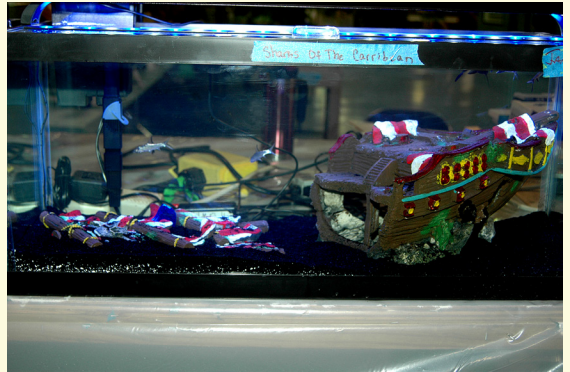
# 2017 TBAS State Fair Aquarium Tank Entries



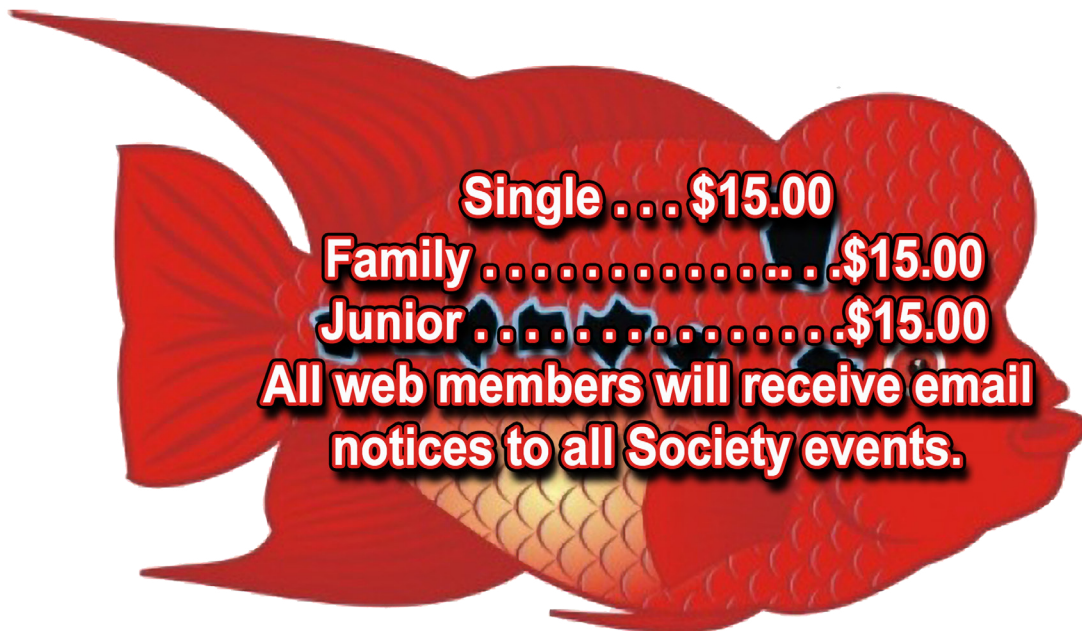








# MEMBERSHIP DUES!!!!



**Membership Dues for TBAS are due on the anniversary of your sign-up date every year. Please make sure you check the “sign-in” list on the table at every meeting to check your “Dues-Date” . . . Thanks!!!**

**USE PAYPAL ON THE TBAS  
WEBSITE . . . TBAS1.COM . . . !!!!!**



# MONTHLY BOWL SHOW

## January

- 1)
- 2) **None - Plant Auction**

## February

- 1) Male Betta Splenden  
(single fish)
- 2) Open

## March

- 1) Tetras, Barbs, Rasbora
- 2) Cichlids

## April

- 1) Platies
- 2) Guppies

## May

No Bowl Show  
Swap Meet

## June

- 1) Corydoras
- 2) Anabantoids no Bettas

## July

- 1) Arts & Crafts (hand made)
- 2) Fish "T" Shirt (must be worn)
- 3) Aquatic Photos  
(personally taken)

## August

- 1) Mollies
- 2) Rainbows

## September

- 1) Swordtails
- 2) Pleco/Sucker type fish

## October

- 1) Dwarf Cichlids
- 2) Angelfish

## November

- 1) Goldfish & Koi
- 2) Invertebrates (Fresh or Salt)

## December

No Bowl Show . . . Christmas  
Party and the  
2016 Results of the Bowl Show!!!

# Bowl Show Results 2017

by AL

NAME	JAN-SEPT	OCTOBER	TOTAL
Ethan Skidmore	80	14	94
Kent Sheets	92	0	92
Joshua McWilliams	21	0	21
Missina Rurcaw	16	0	16
Elaine Thyner	6	0	6
Danielle Lee	4	0	4
Grant Eder	1	0	1



Did you ever think of KILLIFISH???  
Come find out about them at the  
SKS meetings!!! See the ad to  
the left!



**Coastal  
Aquarium  
Society**

Coastal meets on the 1st Wednesday  
of every month on the campus of  
New College in Sarasota Florida . . .  
come and spend an evening with us!

<http://coastalaquariumsociety.com>

You won't be sorry you came!

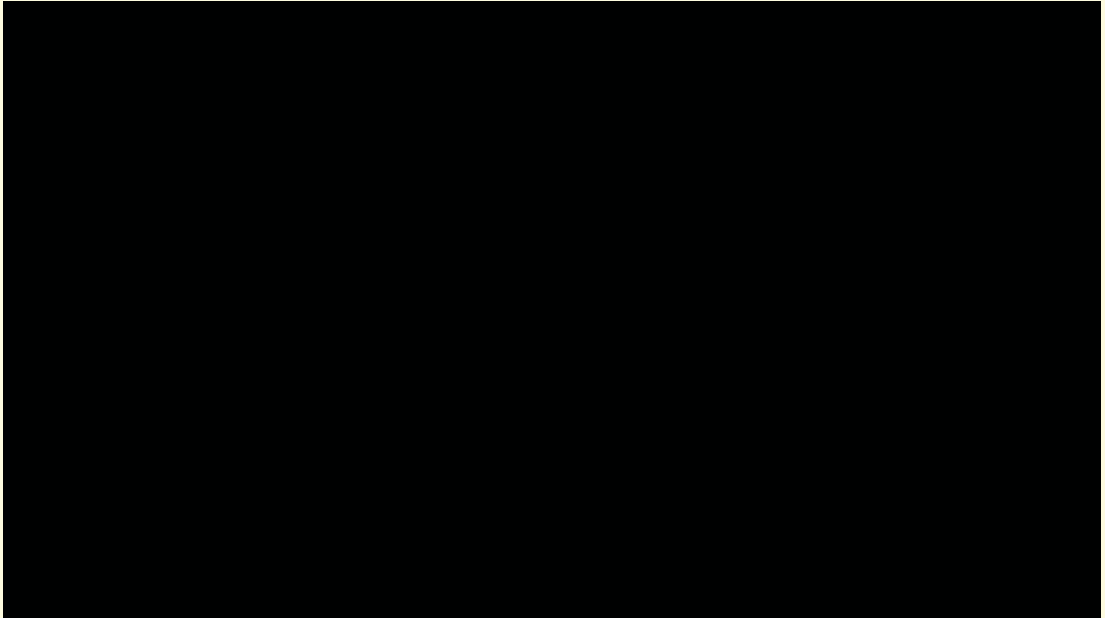
Directions are on the website.



***Labeotropheus trewavasae* . . . Albino Red Top**

photo: Mike Jacobs 2017

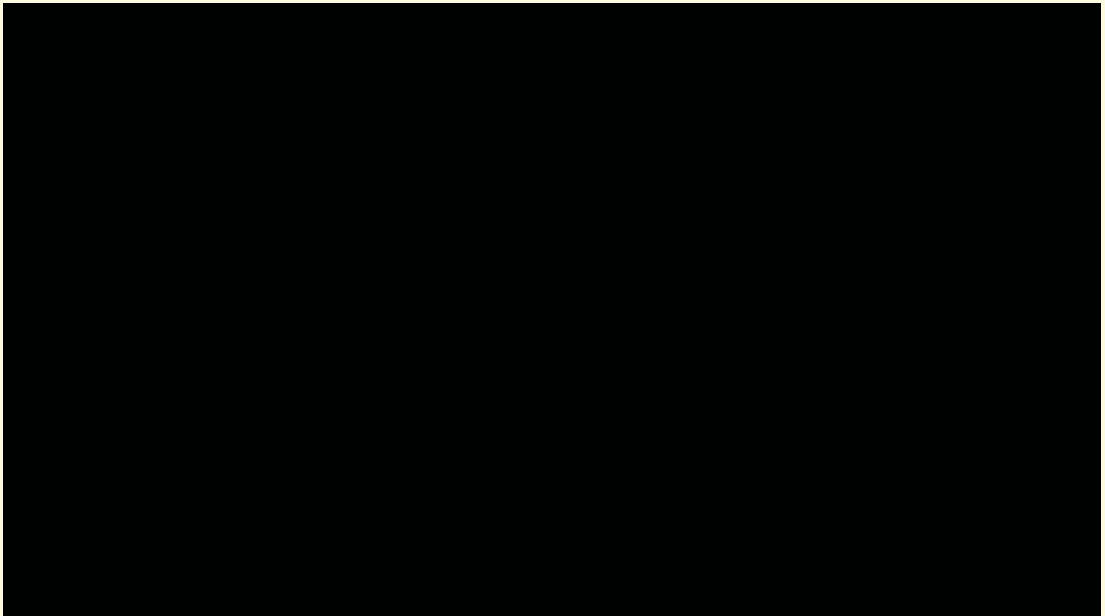




[Click on the](#)



[to See Video](#)



**THE BEST KOI ANGELFISH IN THE UNIVERSE**

To Table of Contents

# Supporters of TBAS

## Tampa Bay Wholesalers: Tropical Fish

alphabetical order

- 1) 5D Tropical Fish
- 2) Segrest Farms

## Tampa Bay Tropical Fish Farmers:

alphabetical order

- 1) Amazon Exotics
- 2) BioAquatix
- 3) Carter's Fish Hatchery
- 4) FishEye Aquatics
- 5) Golden Pond
- 6) Imperial Tropicals
- 7) Lile's Tropical Fish
- 8) V-W Tropicals



### BRINE SHRIMP DIRECT

TANK  
TESTED  
PRODUCTS



YOUR DIRECT SOURCE FOR ALL OF YOUR TROPICAL FISH FEED REQUIREMENTS - FROM FROZEN FEEDS, FLAKES AND PELLETS TO ENRICHMENT PRODUCTS, FREEZE-DRIED FOODS AND, OF COURSE, BRINE SHRIMP EGGS.

### INTRODUCING SLOW SINKING FRESHWATER PELLETS

(WITH ASTAXANTHIN FOR VIBRANT COLORS)

FOR CLUB DISCOUNT, USE THE FOLLOWING  
CODE AT CHECK-OUT: **TBAS5**

[www.brineshrimpdirect.com](http://www.brineshrimpdirect.com)

TOLL FREE 800-303-7914

## VORTEX

Innerspace Products





**Aquarium  
Pharmaceuticals**



[www.pythonproducts.com](http://www.pythonproducts.com)



Website: [www.jbjlighting.com](http://www.jbjlighting.com)



[www.FluvalAquatics.com](http://www.FluvalAquatics.com)



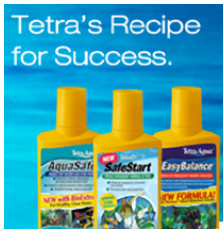




**MARINELAND**



**Tetra**



**COBALT**  
AQUATICS

---



# FTFFA CO-OP STORE

FLORIDA TROPICAL FISH FARMS ASSOCIATION

5129 State Road 674 • Wimauma, FL 33598  
Phone: 813-938-1162 • Fax: 813-938-1163  
E-mail: [ftffacoop@tampabay.rr.com](mailto:ftffacoop@tampabay.rr.com)

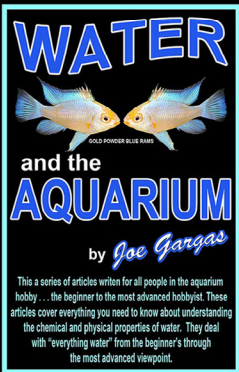


---

# Aqua Research Center

Water Analysis & Interpretation *by Joe Gargas*  
Ph: (813)645-1717

**Joe's**  
**WATER**  
**Book**



**Joe's**  
**ROCKET**  
**FILTER**

[www.aquaresearchcenter.com](http://www.aquaresearchcenter.com)

---



# LIFEGUARD

## AQUATICS

Aquarium, Pond & Aquaculture Products

---

# TAMPA BAY AQUARIUM SOCIETY

## OFFICERS



**PRESIDENT**  
**Bill Shields**



**V. PRESIDENT**  
**Randy Hann**



**SECRETARY**  
**Kryssi Damico**



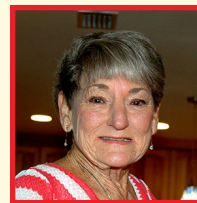
**TREASURER**  
**Patty Moncrief**

---

### BOARD OF DIRECTORS



**Gary Foster**



**Mollie Howell**



**Mike Jacobs**



**Al Starkey**





# TBAS

**Tampa Bay Aquarium Society**  
**St. Pete/Tampa, Florida**

**Website: [www.tbas1.com](http://www.tbas1.com)**

**FORUM: [www.tbas1.com/forum](http://www.tbas1.com/forum)**