

108 Years of Educating Aquarists

BAS BULLETIN

Brooklyn Aquarium Society Monthly Online Newsletter

VOL. 22

JANUARY 2019

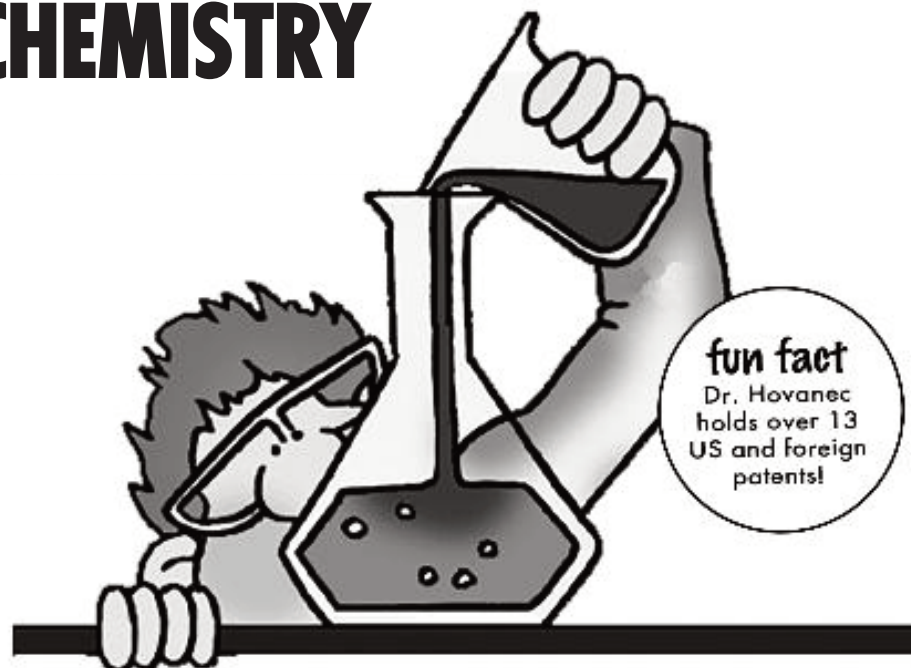
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FRIDAY, JANUARY 11 @ 7:30 PM

The Brooklyn Aquarium Society Presents

Dr. Timothy Hovanec

**Modern day approach to aquarium
CHEMISTRY**



fun fact
Dr. Hovanec
holds over 13
US and foreign
patents!

HAPPY NEW YEAR!

AUCTION AFTER THE SPEAKER FEATURES:

**Marine Fish, Aqua-cultured Corals,
Freshwater Fish, Plants & Dry Goods Auction**

At New York Aquarium, Education Hall, Surf Ave. & West 8th St., Bklyn, NY

\$5 Donation for non-members. Good towards membership that night only.

Held the 2nd Friday of each month @ 7:30PM except July & August

For Information Visit WWW.BROOKLYNAQUARIUMSOCIETY.ORG.
Or Call BAS 24 Hr. Calendar of Events Hotline (718) 837-4455

108 Years of Educating Aquarists

The President's Message



Our Holiday Party was absolutely wonderful. We had 70 members come to the Flaming Grill Buffet on Nostrand Avenue. The food was delicious and plentiful and the staff was top notch. We had a private room for our members and guests,

which also made it easier to present our awards and certificates to our outstanding members, sponsors and donators. All of which have kept us going now for almost 108 years.

As a reminder November was our semi-annual 50/50 on livestock. We will be giving out the member results at our January meeting on the 11th. So make sure you are there. Our January event will have **Dr. Tim Hovanec of Tim's Aquatics**. His topic for the evening will be *Modern Day Approach to Aquarium Chemistry*. See you again on January 11, 2019, doors open at 7:30 pm so come on down.

All this would not be possible without our sponsors, such as local stores and manufactures. When you go to the local pet shops let them know you are a BAS member. They need to know we are giving back to them. We also have many members donate to our club every meeting. If you have old tank, equipment (that still functions), or healthy livestock that you wish to donate you can bring them to any meeting.

New BAS shirts arrived and they were selling like hotcakes! Many of you noticed that the BAS officers and Board members wore the regular BAS shirt with the word TEAM on the back. We did this to identify our

members that work and help organize our events. We also have new BAS hats in a light blue color.

I must ask for our members' help – our Treasurer had to leave due to personal reasons. **Please, if you have experience in accounting, we need your help.**

Also, we are looking to rent a garage, street level, to hold our BAS equipment and supplies. If you have something reasonable, please let us know.

If you want to see different speakers and learn about different aquatic systems, fish, plants and marine life, please let me know. The elected officials of the Brooklyn Aquarium Society are here to serve YOU! Please let us know what you want and why, because it would be helpful to everyone. It is important that you visit and patronize our sponsors. It goes full circle: by helping them, they are also helping you as hobbyists and everyone is helping the Brooklyn Aquarium Society, so help us, help you!

Happy Holidays and a healthy, safe and prosperous 2019!!!

For more info, please call our BAS Hotline at (718) 837-4455, or visit our website at **WWW.BROOKLYNAQUARIUMSOCIETY.ORG.**

On a more personal note – any member who wants to attend a Board meeting, which are held at Education Hall of the New York Aquarium on the 1st Friday of the month, September through June, please notify me at (347) 277-4793 by the Tuesday before the meeting.

Steven

**Steven Matassa,
President**



This Month's Speaker



Dr. Timothy A. Hovanec is the Founder and CEO of **DrTim's Aquatics, LLC.** a leading provider of innovative natural bacterial-based products to the aquarium industry including One and Only Live Nitrifying Bacteria.

Dr. Hovanec's Ph.D. research was on the phylogenetics of nitrifying bacteria in aquaria and Mono Lake, CA and he continues to research the microbial pathways of closed aquatic systems and to develop 'green' products for the aquarium industry. Previously, Dr. Hovanec was the Chief Science Officer for Marineland Aquarium Products and Instant Ocean where he discovered many novel species of nitrifying bacteria and developed several unique industry leading

products. Other past work experience includes managing an aquaculture facility and US Peace Corps volunteer. Dr. Hovanec holds over 13 U.S. and foreign patents and has authored numerous papers on aquatic microbiology, water quality and filtration techniques for closed system life-support systems (many of which can be accessed at www.drTIMSAQUATICS.COM). Dr. Hovanec regularly speaks at national and international conferences and is a member of numerous scientific organizations.



DIRECTIONS TO THE NY AQUARIUM

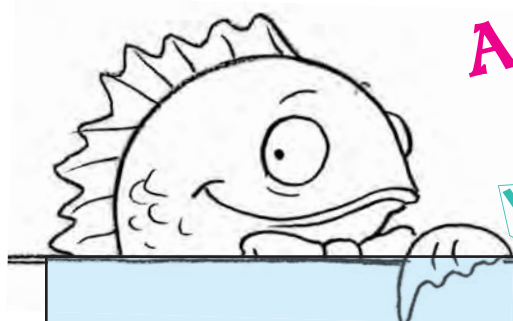
Directions by Car: Take Belt Parkway to Ocean Parkway South (Exit 7S). Take Ocean Parkway approx. 1/2 mile. The New York Aquarium will be on your left.

Directions by Subway: Take either the Q or F trains to West 8th St., NY Aquarium Station. Follow signs to NY Aquarium.

Brooklyn Aquarium Society

CALENDAR OF EVENTS 2019

A HEALTHY &
HAPPY NEW
YEAR TO ALL!



JAN 11 Dr. Timothy Hovanec, Tim's Aquatics - Modern Day Approach to Aquarium Chemistry
Followed by an auction of marine fish, aqua-cultured corals, freshwater fish, plants & dry goods.

FEB 8 Joseph Graffagnino -A Pond Grew in Brooklyn ~ Followed by an auction of marine fish, aqua-cultured corals, freshwater fish, plants & dry goods.

MAR 8 Richard Ross - Coral Spawning and Secore ~ Followed by an auction of marine fish, aqua-cultured corals, freshwater fish, plants & dry goods.

APR 12 Ralph Chi of Pacific Aquarium & Pets, Inc. Topic TBA ~ Followed by an auction of marine fish, aqua-cultured corals, freshwater fish, plants & dry goods.

MAY 10 Giant Spring Auction ~ Freshwater fish, plants, marine fish, aqua-cultured corals & dry goods, including a brand new 55-gallon tank & stand.

JUN 14 Speaker from House of Fins - Topic TBA ~ Followed by an auction of marine fish, aqua-cultured corals, freshwater fish, plants & dry goods.

NO MEETINGS JULY & AUGUST

SEPT 13 Tullio DelAquella ~ The Fact's of Light: A scientific approach to comparing light sources for aquarium use ~ Followed by an auction of marine fish, aqua-cultured corals, freshwater fish, plants & dry goods.

OCT 11 Giant Fall Auction ~ Freshwater fish, plants, marine fish, aqua-cultured corals & dry goods, including a brand new 55-gallon tank & stand.

NOV 8 Lou Ekus (Tropc Marin) - Reef Chemistry Made Easy ~ Followed by an auction of marine fish, aqua-cultured corals, freshwater fish, plants & dry goods.

DEC 13 Holiday Party ~ Members, Their Families & Friends • BAS awards presentations.

All BAS meetings begin at 7:30pm.

No members, other than those donating their help setting up or items for the auction, will be allowed in before that time.

Regional Society Events

CHECK ALL TIMES AND DATES BEFORE ATTENDING

If listed **TBA** (TO BE ANNOUNCED), the Society has not gotten a speaker or has not updated their calendar of events. Please check their web site for more information.

TUESDAY NO MEETING - PIONEER VALLEY AS • MEETING DATE TO BE ANNOUNCED

Meets 1st Tuesday of the month at The First Congregational Church, 20 Lathrop St, West Springfield, MA @ 7:00pm. Free parking in lot. Public welcome. Info: **Jacob Guinasso**, jguinasso@pvas.net or **Martha Morris**, martha_morris@hotmail.com. or pvas.net

THURSDAY JANUARY 3 - BUCKS COUNTY AS

• TBA

Meets the 1st Thursday of the month except August. Meetings start @ 7:30pm doors open @ 7:00 pm, at the Churchville Nature Center, 501, Churchville Lane, Churchville, PA. Annual membership is \$20 for single membership, and \$10 for each additional family member who wishes to have voting privileges and the ability to participate in the BAP program. Info: bcasonline.com

MONDAY JANUARY 7 - JERSEY SHORE AS

• TBA

Meets the 2nd Monday of the month at the South Wall Fire Rescue Co., 2605 Atlantic Ave., Manasquan, NJ. @ 7:30pm. Speakers, auction rare & exotic fish, aquatic plants, door prizes.

Info: www.jerseyshoreAS.org; or (732)-859-5595 or mws71@yahoo.com

TUESDAY JANUARY 8 - NASSAU COUNTY AS

• TBA

Meets the 2nd Tuesday of the month at Molloy College, 1000 Hempstead Ave., Rockville Centre NY @ 8:00pm. General meetings open to the public. Guest speakers, fish related events, raffles, mini-auction.

Info: **Mike Foran** (516)-798-6766, or at info@ncasweb.org or <http://ncasweb.org/directions.php>.

THURSDAY JANUARY 10 - TROPICAL FISH CLUB OF BURLINGTON

• TBA

Meets the 2nd Thursday of the month at the VFW Hall, 73 Pearl St., Essex Junction, VT. Meetings start @ 6:30pm. Door prizes, bowl show (warmer months), monthly auction, fish discussions and a good time! New members are welcome!

Info: **David Banks** at dbanks@together.net or www.tfcfb.org

SUNDAY JANUARY 13 - DANBURY AREA AS

• 34TH ANNUAL AUCTION FISH & DRY GOODS HELD AT KNIGHTS OF COLUMBAS HALL #6318, 10 FAIR ST., CARMEL, NY 10512

Usually meets the 4th Friday of the month @ 7:30pm at Laura Sprain Memorial Cornerstone park, 1 Fair St. Carmel, NY 10512.

Info: **Rich Litsky** (845) 228-0372 or **Joe Masi** (845)-896-4793 or daas@northeastcouncil.org.

THURSDAY JANUARY 17 - NORWALK AS

• TBA

Meets the 3rd Thursday of the month @ 8:00pm at Earthplace, The Nature Discovery Center, 10 Woodside Lane, Westport, CT. Open to public.

Info: Norwalkas.org

FRIDAY JANUARY 18 - LONG ISLAND AS

• TBA

Meets the 3rd Friday of the month at SUNY Stony Brook's Maritime Science area, Room 120 in Endeavor Hall (After you enter building, take hallway on the right. Room 120 is first room on the left) on the State University at Stony Brook Campus, Stony Brook, NY 11794. Doors open @ 7:30pm, meeting starts @ 8:00pm. Speakers, auctions, refreshments, free parking.

Info: www.liasonline.org

FRIDAY JANUARY 18 - LONG ISLAND REEF ASSOCIATION

• JOE FERDENZI - GETTING TO KNOW YOU

Meets the 3rd Friday of the month @ 8:00pm at Acan Lighting, 75 Austin Blvd, Commack, NY 11725.

Info: <http://www.LongIslandReef.org>

SATURDAY JANUARY 19 - NORTH JERSEY AS

• PAUL LOISELLE - AQUARISTS & CONSERVATION

Meets the 3rd Saturday of the month 12:30pm sharp at the Clark Public Library Union County just off the Parkway at exit 135. NJAS one of the largest and most well respected aquarium clubs in North America. Since 1953, NJAS has provided a friendly outlet for the exchange of aquarium-related ideas and information and recognizes the accomplishments of local hobbyists.

Info: www.njas.net/

WEDNESDAY JANUARY 23 - METROPOLITAN AREA KILLIFISH ASSOC.

• TBA

Meets 4th Wednesday of the month @ 8:00pm at the Meadowlands Environmental Center, Lyndhurst, NJ. Speaker and auction of fish eggs, plants and dry goods. Refreshments served.

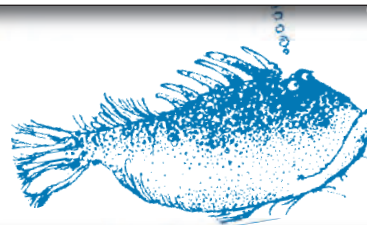
Info: SLMACK@compuserve.com

TUESDAY JANUARY 29 - BIG APPLE GUPPY CLUB

• TBA

Meets: the last Tuesday each month (except Jan, Feb, July, and August) @ 7:30 to 10:00pm. Alley Pond Environmental Ctr., 228-06 Northern Blvd., Queens, NY.

Info: **Donald Curtin** (718) 631-0538 or twindon1@aol.com



WEDNESDAY MARCH 6 GREATER CITY AS

• NO MEETING UNTIL MARCH 6

Meets the 1st Wednesday of the month @ 7:30pm at the Queens Botanical Garden, except for January and February. The public is welcome. Speakers, publication, bowl show, raffles, door prizes, refreshments, plant and fish auctions.

Info: **Claudia Dickinson** at: ivyrose@optonline.net or (631)-668-5125, or www.greatercity.org

Coming Events

2019 EXHIBITIONS, AUCTIONS & CONVENTIONS 2019

JANUARY 13 - DANBURY AREA AQUARIUM SOCIETY 34th ANNUAL AUCTION held at the Knights of Columbus Hall #6318, 10 Fair St. Carmel, NY 10512. All species of fish, aquarium equipment and related goods auction. Registration 8:30 am - 11:14 am. Viewing of lots 10 am - 11:15 am. Auction starts 11:30 am - 5 pm. There will be a 50/50 raffle. Food & Refreshments will be available. **For info: Rich Litsky 845-721-0783 or Joe Masi 845-896-4793 or Web www.northeastcouncil.org/daas Email: <mailto:joemasila@gmail.com>**

JANUARY 26 - TROPICAL FISH & PET SHOW held at the Roadway Inn & Suites, 2440 West State, Rod 84, Ft. Lauderdale FL 33312. Event starts at 10 am to 5 pm. Family admission - \$10, Adult - \$5, Children - \$2. Tropical fish show, kids' activities, international betta show, manufactures displays, aquarium fish & plants, coral, supplies for sale and much, much more. **For info: Vadim 1 305-332-5855**

FEBRUARY 10 - NORWALK AQUARIUM SOCIETY BENEFIT AUCTION held at Earthplace, 10 Woodside Lane, Westport, CT 06880. Auction is open to the public. Set up and viewing starts at 10:30 am to 11:30 am Auction starts at noon. **For info: www.norwalkas.org or www.earthplace.org.**

FEBRUARY 15, 16, 17 - CAPITAL CICHLID ASSOCIATION'S BIG FISH DEAL held at the Hyatt Regency, Metro Center, 1 Bethesda, MD 20814 Events: Aquarium supplies and equipment, Auctions, Conventions, Exhibition, Fish and aquatic plants, Freshwater, Speakers, Tropical Fish, Vendors. **For info: capitalcichlids.org**

FEBRUARY 17 - PIONEER VALLEY AQUARIUM SOCIETY ANNUAL AUCTION held at Loyal Order of Moose Hall, 244 Fuller Rd., Chicopee, MA 01020. Doors open at 9:00 am for viewing and vendor registration Free Admission! Everyone is Welcome. Giant Auction of Live Tropical Fish, Aquatic Plants, and Dry Goods Door Prizes. Silent Auction. Raffles. 50/50 Cash Raffle! Bring the Entire Family and Enjoy the Day with New and Old Friends! **For info: www.pvas.net/**

MARCH 2 - NEW ENGLAND FRAG FARMER'S MARKET held at Smith High School, 1235 Storrs Rd. Storrs, CT 06268. Event Categories: Coral Exhibition, Frag Swaps, Raffles, Saltwater & Tropical fish vendors. **For info: Email: swansonjl@hotmail.com or visit web site www.eosmithcoralproject.org/index.html**

APRIL 12-14 - NORTHEAST COUNCIL 44th ANNUAL CONVENTION held at the Red Lion Hotel, 100 Berlin Rd, Cromwell, CT 06416. One of the country's premier tropical fish hobby event, with an all-star speaker line-up: **Eric Bodrock, Ken Boorman, Rosario LaCourt, Dr. Paul Loiselle, Regina Spotti** and more speakers to be scheduled. The exciting schedule includes: Fish shows • Nano tank contest • Photo contest • Vendor hall • Trade displays • Club swap meet • Silent auctions • Live Auctions • Symposia • Hospitality suite and Awards banquet. **For info: www.northeastcouncil.org**

MAY 23-24-25-26 - AMERICAN LIVEBEARER ASSOCIATION 2019 CONVENTION held at the Crowne Plaza, [Louisville Airport] 803 Phillips Lane, Louisville, KY. **Event Categories:** Auctions, Conventions, Fish and aquatic plants, Freshwater, Livebearers, Speakers, Trade Show, Tropical Fish, Vendors. Hosted by Louisville Tropical Fish Fanciers. **For info: [http: Itff.net/](http://Itff.net/)**



JUNE 7 - 9 - THE TROPICAL FISH CLUB OF BURLINGTON CELEBRATES 30 YEARS. Held at the Holiday Inn, South Burlington, VT. Seminars & speakers: **Hans Georg Evers, Steve Lundblad**, and others. Also includes a tour of Vermont Microbreweries, dinner cruise on Lake Champlain, Friday night social pizza party...plus Sunday Auction, raffles, vendors, and more. **For info: Visit www.thcb.org**

JUNE 20-21-22-23 - INTERNATIONAL BETTA CONGRESS SHOW & ANNUAL MEETING held at the Atrium Hotel & suites, 4600 W. Airport Fwy, Irving, TX 75026. **Event Categories:** Bettas, Club Meetings, Conference, Exhibition, Fish Shows, Freshwater Tropical Fish. **For info: <http://www.ibcbettas.org/>**

JULY 18 - 22 NEW ENGLAND CICHLID ASSOCIATION. ACA CONVENTION Held at the Red Lion Hotel, 100 Berlin Road, Cromwell CT. **Event Categories:** Aquarium supplies and equipment, Auctions, Cichlids, Conventions, Exhibition, Fish and aquatic plants, Fish Shows, Freshwater, Raffles, Speakers, Trade Show, Tropical Fish, Vendors **For info: www.necichlids.org/cich-toberfest-2017#!**

AUGUST 30 - SEPTEMBER 1 - MARINE AQUARIUM CONFERENCE OF NORTH AMERICA 2019 [MACNA] held at the Walt Disney World Swan & Resort, Florida. The Conference Tickets include: 3-day access to the Exhibit Floor, Speaker Access, Workshop Access, Meet-up Access, Friday Night Reception, and Saturday Night Banquet Tickets start at just \$139 (chicken/vegetarian) and \$154 (beef). This early bird pricing will not be available for long, so book early! Our #MACNA2019 rates include the resort fee and start at \$175 per night, so don't believe the prices you see on the internet which will charge you more at checkout. All reservations for rooms through MACNA.org are held with your credit card, but the deposits are not charged until August 1, 2019. **For info: macnaconference.org**



News & Notes

330-GALLON AQUARIUM TO BE AUCTIONED OFF AT THE JANUARY EVENT



MANHATTAN AQUARIUMS donated a used 330-gallon aquarium that has a 1 ½ inch thick Starfire glass.

There is a chip at the top but the tank doesn't leak.

The dimensions are 48"L x 34"W x 48"H. The cost of the tank is over \$11,000.

We plan to start the bidding at \$200.

The winner must pick up the tank at Manhattan Aquariums warehouse within 2 weeks of purchase. **GOOD LUCK!**

News & Notes



OCEAN WONDERS AT THE NY AQUARIUM

SHARKS Over 115 marine species, 18 different kinds of sharks and rays, an unforgettable experience. The Donald Zucker and Barbara Hrbek Zucker Ocean Wonders: Sharks! the exhibit brings some of the most misunderstood animals out of the depths and nose-to-nose with you!

CORAL REEFS Sometimes tunnel vision is a good thing. Like when it puts you smack dab in the middle of this colorful coral reef, surrounded by blacktip reef sharks, butterflyfish, and zebra sharks swimming above you.

DAILY SCHEDULE

10:00 AM - Aquarium Opens
10:30 AM - Penguin Feeding 15 minutes
11:00 AM - Aquatheater Show 15 minutes
11:30 AM - Sea Lion Feeding 15 minutes
11:45 AM - Harbor Seal Feeding 15 minutes

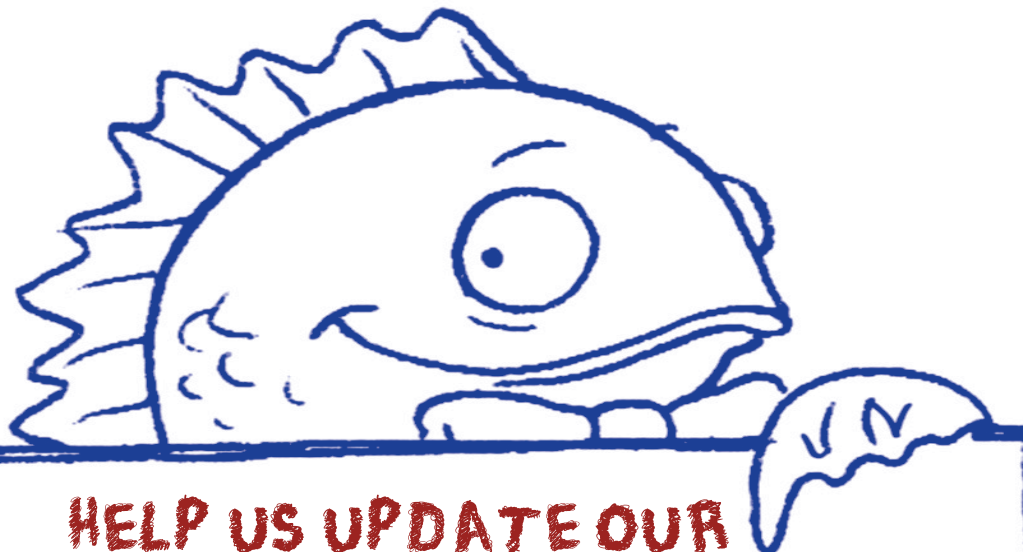
1:00 PM - Aquatheater Show 15 minutes
1:30 PM - Otter Feeding 15 minutes
2:45 PM - Harbor Seal Feeding 15 minutes
3:00 PM - Sea Lion Feeding 15 minutes
3:15 PM - Aquatheater Show 15 minutes

4:00 PM - Penguin Feeding 15 minutes
4:00 PM - Last Entry
5:00 PM - Aquarium Closes



The Brooklyn Aquarium Society Inc. is a non-profit organization 501(C) (3) for people interested in the aquarium hobby and the study of aquatic life. The Society meets the 2nd Friday of each month except July and August at the Educational Hall of the NY Aquarium at Coney Island, Surf Ave. at West 8th St., at 7:30 PM. Meetings are open to visitors. Membership is \$25 per year family, \$20 individual, \$15 for students under 18. Send inquiries or membership checks to Brooklyn Aquarium Society, c/o Membership Chairperson, P.O. Box 290610, Brooklyn, NY 11229-0011.

News & Notes



HELP US UPDATE OUR ARCHIVES

We need someone who can edit the videos we make at our speaker events and upload them to our account on Vimeo.

Please contact Joe at (917) 922-5108.

We have an archive of our guest speaker videos from as far back as 1995. We make these videos so that members who could not attend the meeting or wish to refresh their aquatic skills can watch and learn from the speaker's topic.

Our mission since 1911 is Educating Aquarists!

BAS MEMBERS CAN BUY & SELL ON THE BAS FORUM

Any BAS member can place a **free** ad to sell or to buy any fish type item. The item to sell or buy is to be entered into the BAS Forum which is located on our BAS website: <http://WWW.BrooklynAquariumSociety.org>. The Forum entry point is located on the top right side of our websites main page.

News & Notes

Cleaning Basics 101: Five Pro Cleaning Tips

Regular preventative maintenance is the key to keeping your aquarium clean

Clean Your Glass Regularly

Keep your glass clean with a magnet cleaner, such as a Flipper, Algae Free or Mag Float. But remember, the algae will just get into the filter or fall to the substrate (and the substrate and filters need to be cleaned). Only a UV Sterilizer will neutralize the algae.

Cleaning with a scraper blade, which is an option with most of our magnet cleaners, can make cleaning hard calcium spots a breeze.

Rinse Or Replace Your Mechanical Filter Media Weekly

Your mechanical filter media will trap waste, it won't eliminate it. When you clean the glass some of the waste going into the filter is that algae you scraped from the glass. Unless you clean or replace your media (filter sponges, filter floss, filter pads, etc) the waste will break down into harmful substances, including nitrate, that can increase algae growth.

Power filter and canister filter manufacturers often recommend you replace your filters every couple of months. What is more important is that you clean the filter cartridge weekly. We carry replacement media for several popular canister filters and power filters.



Gravel Vac Weekly

Some waste will not get into your filter and will drift down to the substrate. The best way to remove this waste is with a gravel vac, such as the Python No Spill Clean & Fill, Aqueon Aquarium Water Changer or JBJ Instant Siphon Gravel Cleaner (for smaller tanks).

Replenish With RO Water

Always use purified or RO water for replacement water. Tap water can have high levels of nitrates and phosphates that will contribute to your algae growth. There are RO systems from AquaticLife, Coralife and SpectraPure for tanks of all sizes.

News & Notes

You should also always use RO water when doing water changes and for mixing saltwater for water changes. Keep in mind, RO water does not have dissolved solids—you'll need to test for KH or alkalinity. Supplement as required.

Use UV Sterilization

A UV sterilizer will sterilize free floating algae. That is, when the algae is scraped off the glass or enters the water stream when gravel vacuuming

the sterilizer will keep it from multiplying. It will also stop the spread of microorganisms from one fish/coral/invertebrate to another. We carry UV sterilizers for aquariums from 5 to 24,000 gallons. We have UV sterilizers for smaller tanks, and top of the line UV sterilizers for larger tanks from Emperor Aquatics and Aqua Ultraviolet. If you have a reef tank and are worried about killing plankton, you can put your UV on a timer and run it only during the day.

Additional Advice For Keeping Your Aquarium Clean

Keep Your Bioload Reasonable

Most of the waste in your aquarium comes from your fish. Every aquarium has a higher density of fish than you will find in nature. Keep it to a minimum. There is an excellent bio-load calculator at <http://www.aqadvisor.com/>

that is easy to clean. This is much better than a mechanical filter, which will trap waste that breaks down into nitrate and contribute to algae growth. Protein skimming is a requirement for all reef aquariums and is beneficial for fish-only saltwater tanks.

Water Movement

Water movement brings oxygen into the water. It's also critical for keeping your aquarium clean, and it's best when water moves in multiple directions. When moving in multiple directions, like a wave, it will move the detritus from the various nooks and crannies in the aquarium into your filter/UV sterilizer/protein skimmer. Consider using a wavemaker with your pumps to get the water moving in multiple directions.

Chemical Filtration

Chemical filtration usually refers to carbon. Carbon is highly porous and adsorbs heavy metals, odors, organic contaminants, pollutants and medications from your aquarium water. It should be replaced every two months or when the water is yellow or has an odor to it.

Protein Skimming

A protein skimmer will remove waste into a cup

There are also many chemical filtration products with mixed media such as Chemi-Pure and Clear FX Pro. FX Pro is a carbon with added resins that remove phosphates. Phosphates are a leading algae growth contributor.

Please contact us with any questions you have at

sales@marineandreef.com

Toll-Free 877-878-9349

International 1-480-491-5283

Monday-Friday 8am-11:30am & 12:30pm-4pm MT

Note: we do not have daylight savings time in Arizona

New and Renewing members in December

NEW Members

**Caleb Bernal
Christopher Kirstein
Christopher Tam
Joel Pina**

Renewals

Pauline Griffin

THANK YOU FOR YOUR GENEROUS TAX DEDUCTIBLE DONATIONS

Michael Savarese and Tomasz Liz for donating
aquatic equipment and aquariums, and
Stephen Chen and Mary Vitale-Selznick
for their donations of aquarium equipment.

The Brooklyn Aquarium Society is a federally registered 501(C) (3) nonprofit organization.
Your gift is tax deductible to the fullest extent of the law.



**The BAS
will be 108 years
young in
Feburary and
going strong!**



Holiday Party Fun 2018



Annual BAS Awards



Tip Of The Month

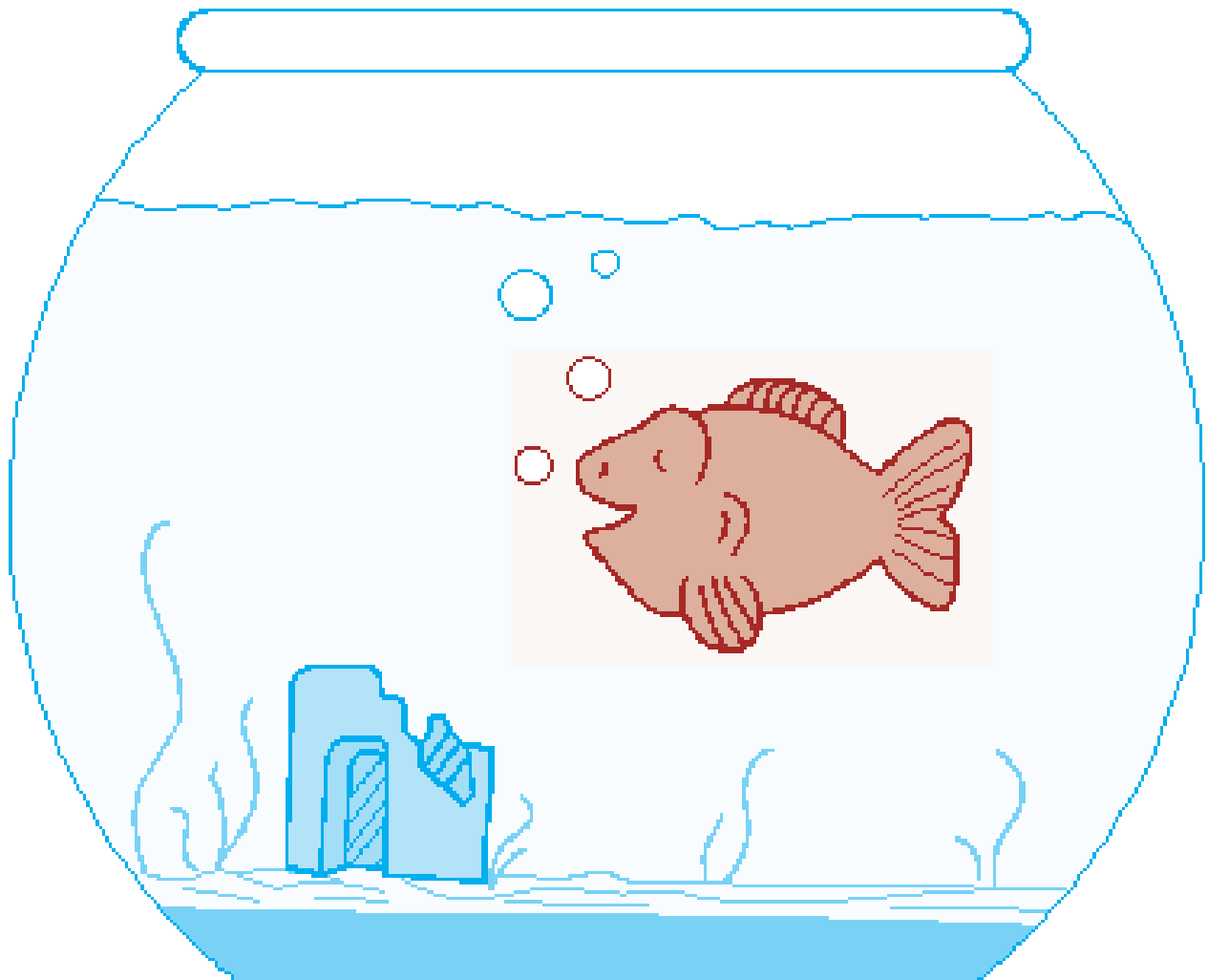
In the coming year if you are breeding fish let us know! Keep a record of how you did it or they did it without your help. You can even do a breeders write up, a short article that we will publish in our online journal, *Aquatica* that will be read by thousands of other aquatic hobbyists.

Your successes, or failures, the methods you used. We are always looking for articles on fish that members have bred.

If you have bred fish you can also enter them in our BAP (Breeders Award Program) and start building BAP points.

Your breeding information will be helpful to other less experienced member hobbyists.

Lets hear from you soon. Good fish breeding!



Shirts, Hats & Patches

NEW BAS T-SHIRTS

SMALL TO XL **\$10** EACH

PRICE VARIES ON XXL & LARGER SIZES

Historic
Brooklyn Aquarium Society
logo in gold on navy blue
short sleeve T-shirt.
White lettering states the
society's mission...

**Educating
Aquarists
Since 1911**



A FEW BLACK BAS T-SHIRTS LEFT

BACK



FRONT



OFFICIAL CAP.
Blue with
embroidered gold
BAS insignia.
One size fits all.
\$10 each

OFFICIAL
BAS embroidered
patches that can easily
be ironed onto any
shirt, hat, jacket or
article of clothing
you wish.
Only **\$4** each



Books By Our Talented Members



P. M. GRIFFIN

P.M. Griffin, better known to us as **Pauline Griffin**, lives in Brooklyn, N Y, with her cat Nick-olette and two tropical fish aquariums and devotes just about every 'spare' moment to writing, research, and reading.

Pauline is an award winning well known science fiction and fantasy writer with some 28 novels and story collections under her belt. She has now branched out and written a romance novel, featuring two farms, one purpose. Two hearts, one love, but there are diffi-

culties in plenty to challenge any hope of a happy conclusion. You have to read this novel to find the answer.

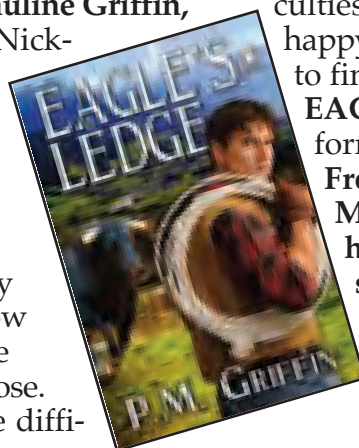
EAGLE'S LEDGE is available in electronic format from the following sources:

From the publisher,

MuseItUp Publishing, at

<https://museituppublishing.com/book-store/index.php/coming-soon/february-2018/eagle-s-ledge-detail#top>

Also available at: Amazon, Barnes & Noble, ibooks, Scribd, 24Symbols.



Books By Our Talented Members

NEW

JOE GRAFFAGNINO



The Saga of Mary & Ma Li is the final piece of a fantasy and adventure trilogy. A ruthless Chinese billionaire industrialist and his gorgeous homicidal maniac enforcer convince the leaders of China to support their plan to manipulate the world's stock markets and thus control the world. With China's political and military might behind them, it seems that nothing can stop their plan of world conquest. As fate would have it, their accountant is a CIA undercover mole operative. Mary and the Carrington Protection and Recovery Agency are hired by the CIA and the Chinese billionaire without each sides knowledge, to find and return the elusive agent and the secret documents he possesses that prove China's involvement.

The story unites modern China and feudal Japan in turmoil. Old enemies and new ones become allies to destroy Mary and Ma Li. Unknown to the spirit sisters, a bet between a demon and an archangel centuries before was the catalyst that created both Mary and Ma Li and the mystical swords that became their weapons. These same elements are needed by demons to open a chasm between the world of humans and the demon realm to start an unholy revolution.

Mary and Ma Li are thrown into a fight for survival in both the mortal and spirit worlds. Friends' loyalties are tested and enemies are forced to trust each other. Ancient prophecies are fulfilled, but not the ones written by man, but the original vows witnessed by long-dead spirits and enforced by demons and angels. The saga now comes full circle for Mary and Ma Li. The past and the present combine to decide their own fate. But, who will decide the survival of supportive friends, loving family, Mary's children?



Ma Li & Mary

A bet between a demon and an angel created the existence of Ma Li, a 15th century warrior priestess and Mary, a 20th century Taoist priestess. The trials and experiences these two women endured; the battles they fought and the people they met in their travels were merely guideposts along their preordained path. Separated by five centuries the connection they shared survived and strengthened. Both women learned and grew from their spiritual bond.

The story of Ma Li & Mary is one of love, loyalty, betrayal and survival at all costs.

Mary Petrovich's mother was a Sioux Indian cryptologist working for the U.S. government in Moscow, and her Russian Secret Police father, were forced to flee to Chicago to escape Soviet and American government agents in the 1980's. They took refuge with her Uncle, a crazed, sadistic gangster. He murdered her parents and repeatedly beat and raped her before she escaped at the age of twelve.

• Local book stores have it as well as **Amazon, Barnes and Nobles** and my publisher **AuthorHouse**.

Soft cover is priced at \$13.99 and Kindle/Nook version at \$3.99. I will bring some to the next meeting for those who want autographed copies.



Fantasy & HORROR SHORT STORIES

In addition to his fantasy / adventure novel "*The Journey of Mary/Ma Li*". His latest book has 13 short stories under the title of "*Fantasy & Horror Short Stories*". These 13 stories draw readers into a compelling web of intrigue and suspense. Some are funny, others sad, and still others capture the inner conflicts that torment us yet hint at hope for a brighter tomorrow. Readers immediately identify with the bigger-than-life fictional characters that make us ponder our inner selves, fantasies, dreams and passions, and question how far we're willing to go to get what we want.

"*Fantasy & Horror Short Stories*" is available at all book retailers and is available in hardcover, softcover and electronic editions. **Amazon has it in Kindle and Barnes and Noble has it in Nook versions for \$3.99.**

Please visit Joe's web site www.JAGraffagnino.com to purchase either book, in any of the listed formats. Also visit his web site for contests, FREE giveaways and information about other soon-to-be-released works from the author.



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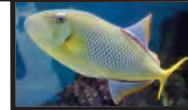
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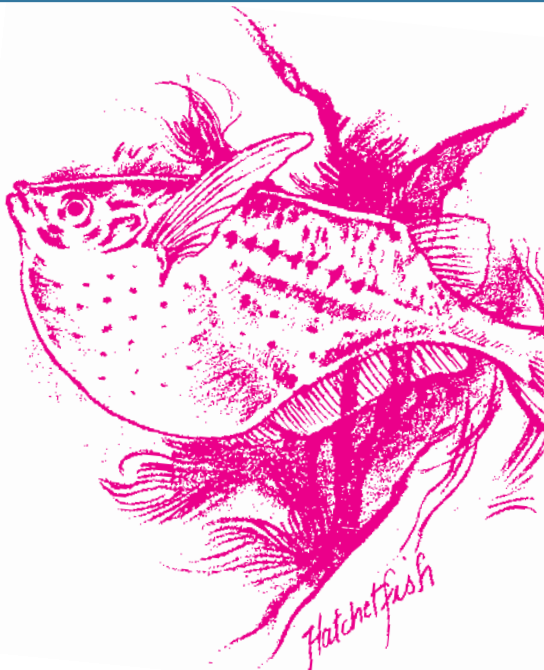
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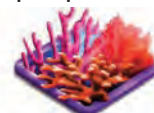
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