

Volume 1, Issue 4



-Under The Surface Newsletter-

Message from the President

Hurricane Beryl hit the coast of Texas after my last newsletter was sent and several of our friends with aquariums there were without electrical power for a full week! And again its important to always be prepared with back options to keep your aquarium up and running for as long as possible as we continue on with an active hurricane season this year.

FMAS has an awesome turtle release on July 20th with a full turnout of 50 FMAS members attending. We all met up at the NOVA building within the Dr. Von D. Mizell-Eula Johnson State Park grounds on the south side of Fort Lauderdale Inlet and listened to a great presentation from a Nova Southeastern team member who spoke for almost an hour about all the things NOVA is doing with turtle nests throughout the entire beachfront of Broward County. We witnessed firsthand the release of 9 Loggerhead Turtles and 7 of the rare Leatherback Turtles. The Leatherbacks were more than twice as big as the Loggerheads and these little turtles were released at the ocean's edge under a wonderful full moon and headed out to sea. It was a fantastic FMAS event and make sure you register early for the FMAS turtle release in 2025!

We have an FMAS Board of Directors meeting this month and look forward to receiving any ideas that our members have on events that they would like for us to consider doing each year and any speakers that you would love to hear from at our quarterly FMAS meetings.

Coming up on Saturday, September 7th we will have Dr. Charlie Gregory Marine Veterinarian as one of our guest speakers as well Chris Meckley of ACI Aquaculture in Plant City. It's going to be a really great FMAS meeting that you won't want to miss, as both Chris and Charlie are really great proponents of responsible marine aquarium keeping and as well have significant experience with the aquaculture of corals on land and in the sea! (Chris says he's going to bring some cool frags for the FMAS auction!)

We look forward to seeing you on September 7th at our next FMAS meeting!



Sincerely, **Jeff Turner**

INDUSTRY NEWS



PRINTED REEF

Printed Reef: Revolutionizing the Aquarium Industry with Cutting-Edge Custom Accessories

In the vibrant world of reef keeping, innovation is often the key to maintaining thriving, visually stunning aquatic environments. Enter Printed Reef, a groundbreaking company that's making waves in the aquarium industry with their custom-made accessories. Leveraging the power of modern technology, particularly 3D printing, Printed Reef is transforming the way enthusiasts care for and display their reef tanks.

Printed Reef stands out by harnessing the full potential of 3D printing technology. This method allows for unparalleled precision and customization, providing reef enthusiasts with accessories tailored to their specific needs. Unlike traditional methods of manufacturing aquarium products, 3D printing enables the creation of intricate designs and complex structures that are both functional and aesthetically pleasing.

Custom Accessories for Every Reef

Printed Reef offers an impressive range of custom accessories, each designed to enhance the functionality and beauty of reef aquariums. Here's a look at some of their standout products:

- Custom Frag Racks: These racks are essential for coral propagation and display. Printed Reef's custom frag racks can be tailored to fit any aquarium setup, ensuring that corals are securely mounted and easily accessible for maintenance.

- Skimmer Stands: Proper placement of protein skimmers is crucial for effective filtration. Printed Reef's skimmer stands are designed to fit various models and can be customized to the exact dimensions required, ensuring optimal performance and integration with the aquarium's layout.

- Media Baskets: For those using high-grade filtration media like Chemi-Pure, Printed Reef's media baskets provide a perfect fit. These baskets are designed to maximize the effectiveness of the media by ensuring optimal flow and contact, leading to superior water quality and clarity.

A New Era in Aquarium Keeping

As the company continues to explore new possibilities with 3D printing, it's clear that Printed Reef is more than just a manufacturer of aquarium accessories. They are pioneers in reshaping the world of aquarium keeping, providing enthusiasts with the tools they need to create and sustain breathtaking aquatic ecosystems. With Printed Reef, the future of reef aquariums is not only bright but also brilliantly

Check out their website here! <https://printedreef.com/>

Photo Of the Month



Scolymia with feeding response.
-shadyraro from Sydney, Australia.

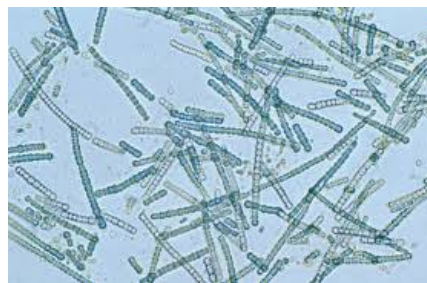
Monthly Science Article

The Role of Cyanobacteria in Reef Aquariums

Cyanobacteria play a nuanced role in reef aquariums. Although they are often viewed as problematic due to potential blooms, they also provide several surprising key benefits to the aquatic ecosystem.

These ancient organisms can help regulate nutrient levels by absorbing excess nitrogen and phosphorus, thereby preventing nutrient overload that could lead to harmful algal blooms. Additionally, they serve as a food source for filter-feeding organisms such as sponges and small shrimp, contributing to the aquarium's

These microorganisms are crucial in reef aquariums as they are capable of atmospheric nitrogen fixation, enriching the water with essential nutrients that support coral growth. Their presence can enhance the bioavailability of nutrients, fostering a healthier and more vibrant environment.



Managing Cyanobacteria in Reef Aquariums

To effectively manage cyanobacteria, it is important to maintain good water quality and balanced nutrient levels. Regular water testing, appropriate lighting, and possibly introducing competing algae can help control cyanobacterial growth. Establishing a diverse aquarium ecosystem can also encourage natural competition, reducing the risk of harmful overgrowth.

By understanding and managing cyanobacteria, aquarium enthusiasts can leverage their benefits while minimizing potential issues, creating a balanced and thriving reef environment.

-Natalie Farber

Current FMAS member

FMAS 2024 Calendar

08/10/2024 2:00 pm - 5:00 pm

- **FMAS Board Meeting**

09/07/2024 2:00 pm - 5:00 pm

- **FMAS September Meeting**

10/06/2024 11:00 am- 1:00 pm

- **Gumbo Limbo Tour**

11/09/2024 11:00 am – 2:00 pm

- **Open House Marco Rocks BBQ**

11/16/2024 2:00 pm - 5:00 pm

- **FMAS Board Meeting**

12/07/2024 2:00 pm - 5:00 pm

- **FMAS Meeting and Holiday party**
“Old School” Frag Swap



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