

# In The Name Of Changing And Improving Public Aquarium Exhibits

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# Discussion Topic

Why do public and private aquariums change out the fishes in their exhibits so regularly?

For what purpose?

- Is it to improve a particular exhibit?
- Or is it that they simply can't keep fish healthy?

# Possible Applications

Possible applications for improving tropical marine exhibits:

- a) Create more natural exhibits with vibrantly colored fishes,
- b) Introduce a system that could save fish losses due to HLLE; and
- c) Introduce a system that would significantly reduce exhibit maintenance tasks, such as fewer water changes and cleaning algae off décor.

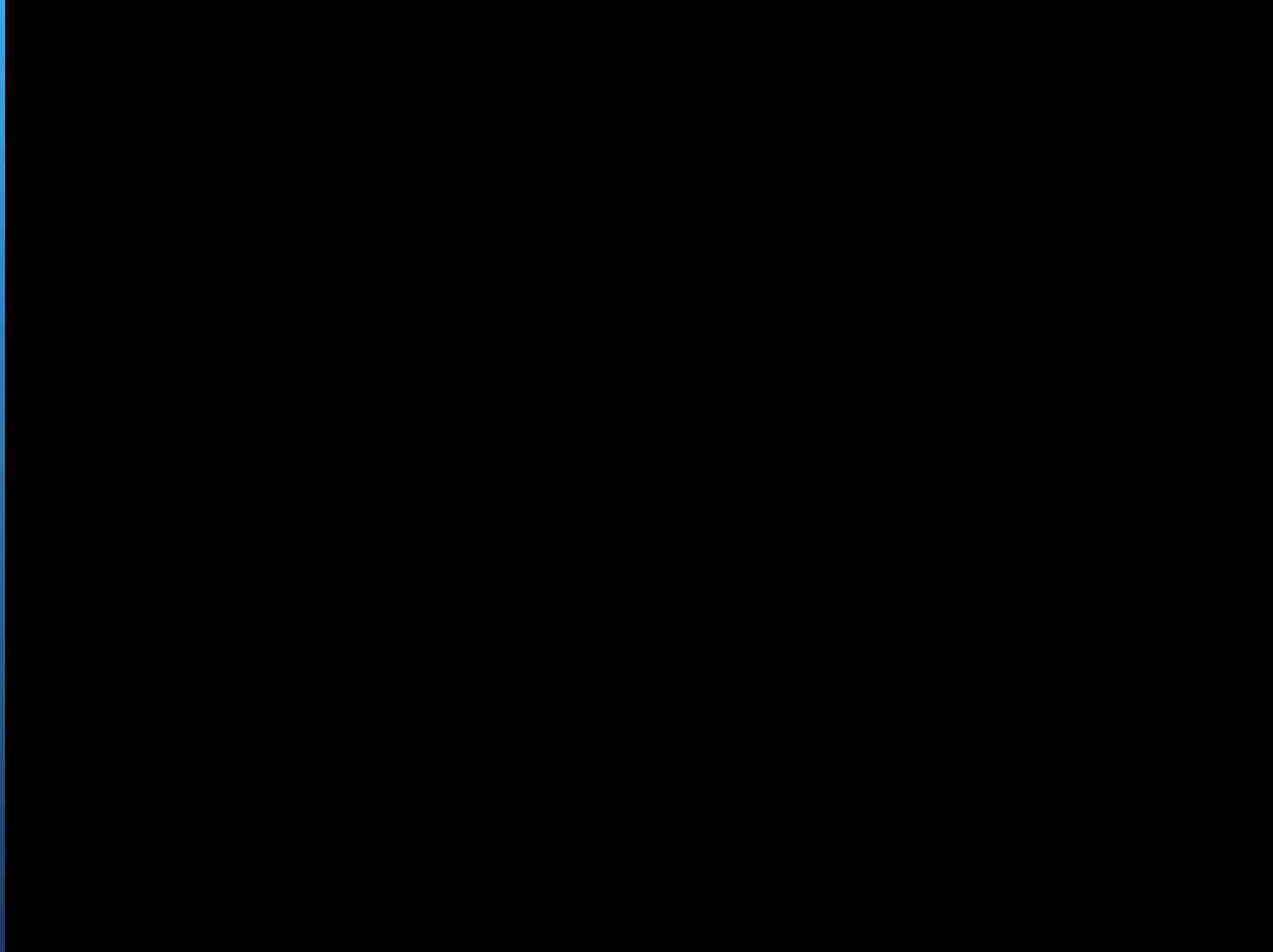
Why are the fish in marine tropical exhibits changed out so regularly?

Most of us know that, over time, fish coloration fades, or worse, the animals get head & lateral line erosion (HLLE), primarily surgeon fish (tang) and angel fish

# Head & Lateral Line Erosion (HLLE)



# Aquarium of the Pacific Marine Exhibit



# What causes this HLLE?

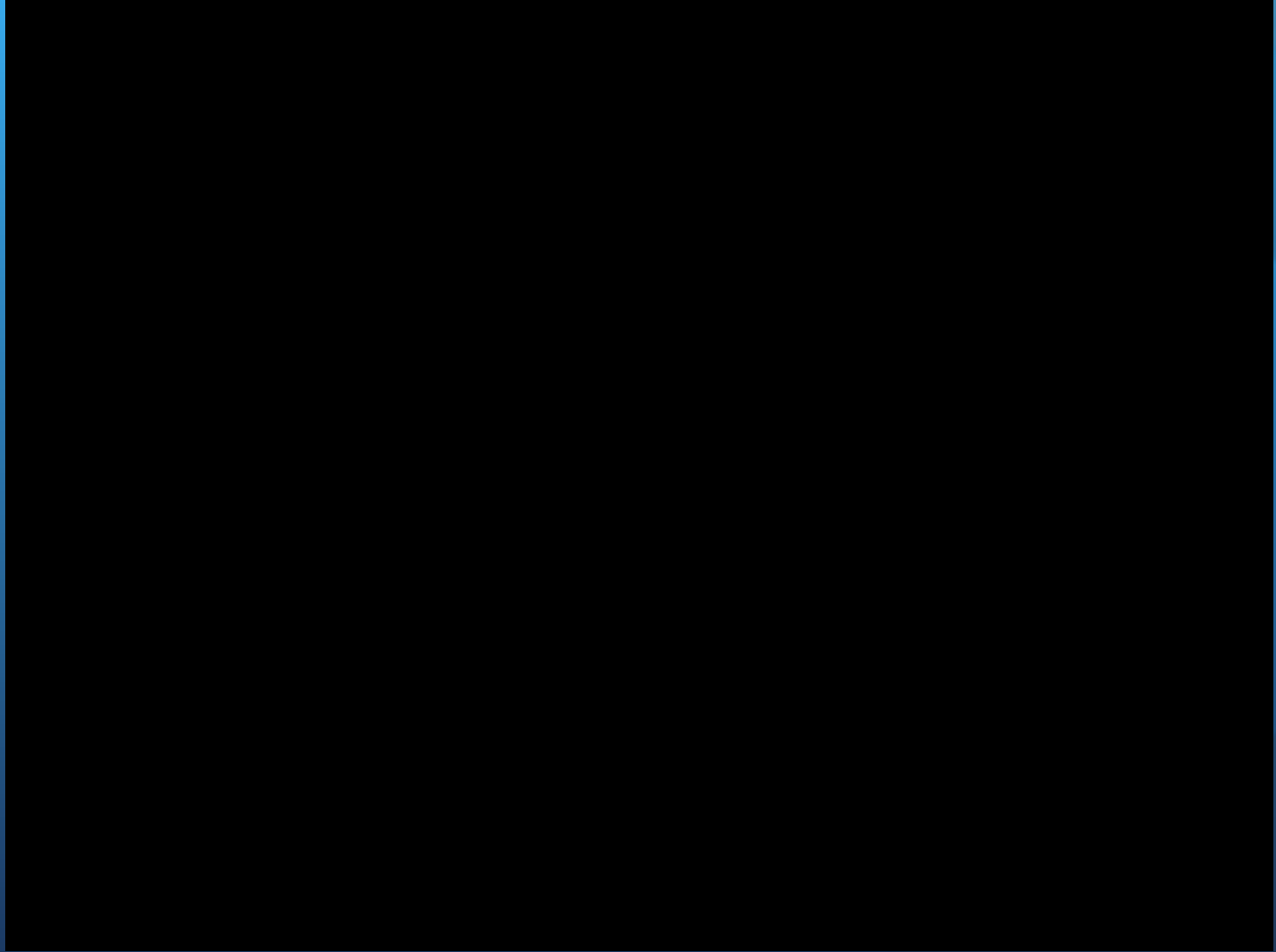
There are many causes of HLLE and, there are many ways to reverse the disease. However, through my personal experience and observation, I have found that...

Copper...it is commonly used in home aquaria marine fish-only tank

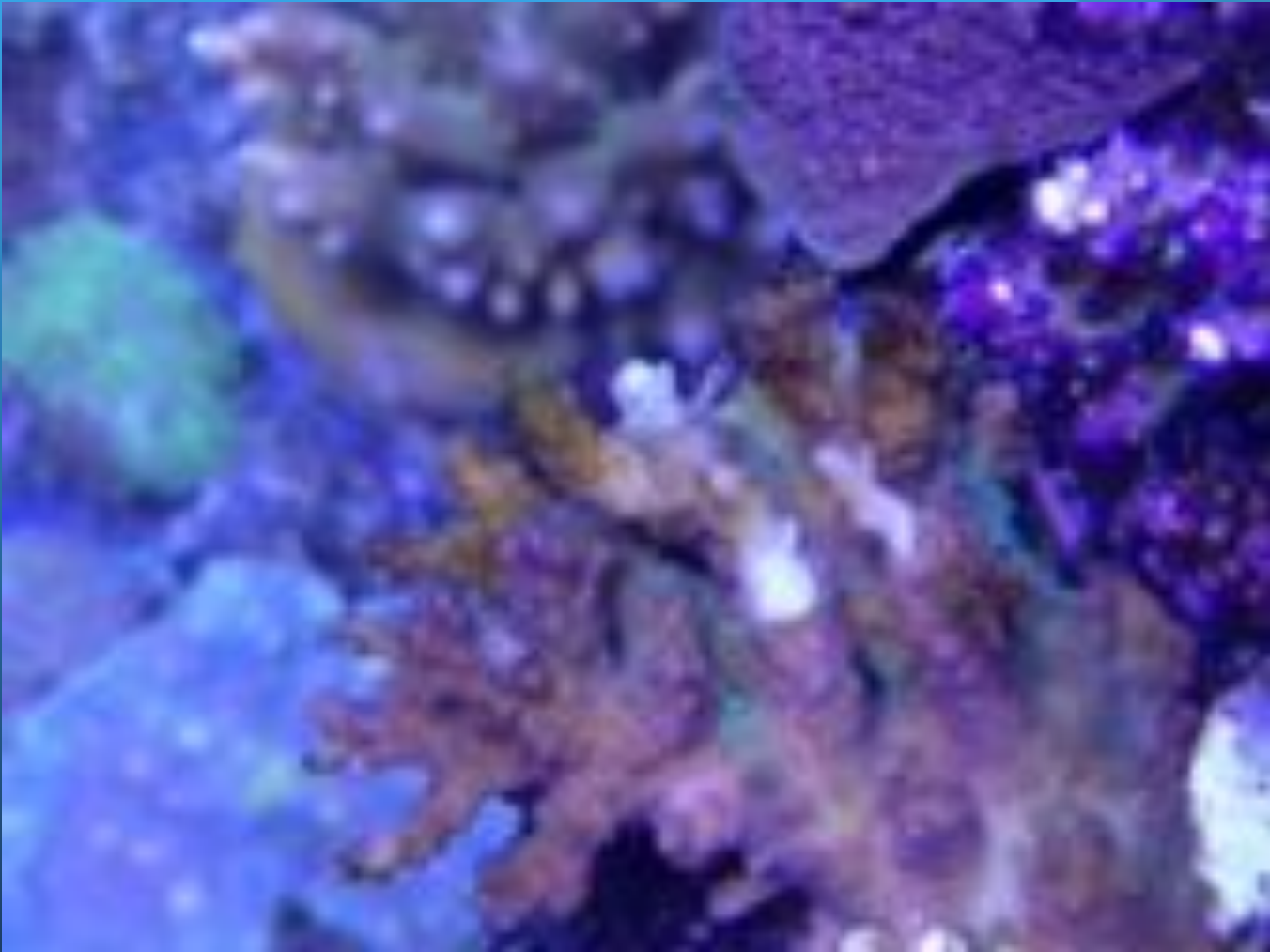




Activated Carbon...most public aquariums use ozone / UV and activated carbon in their exhibits



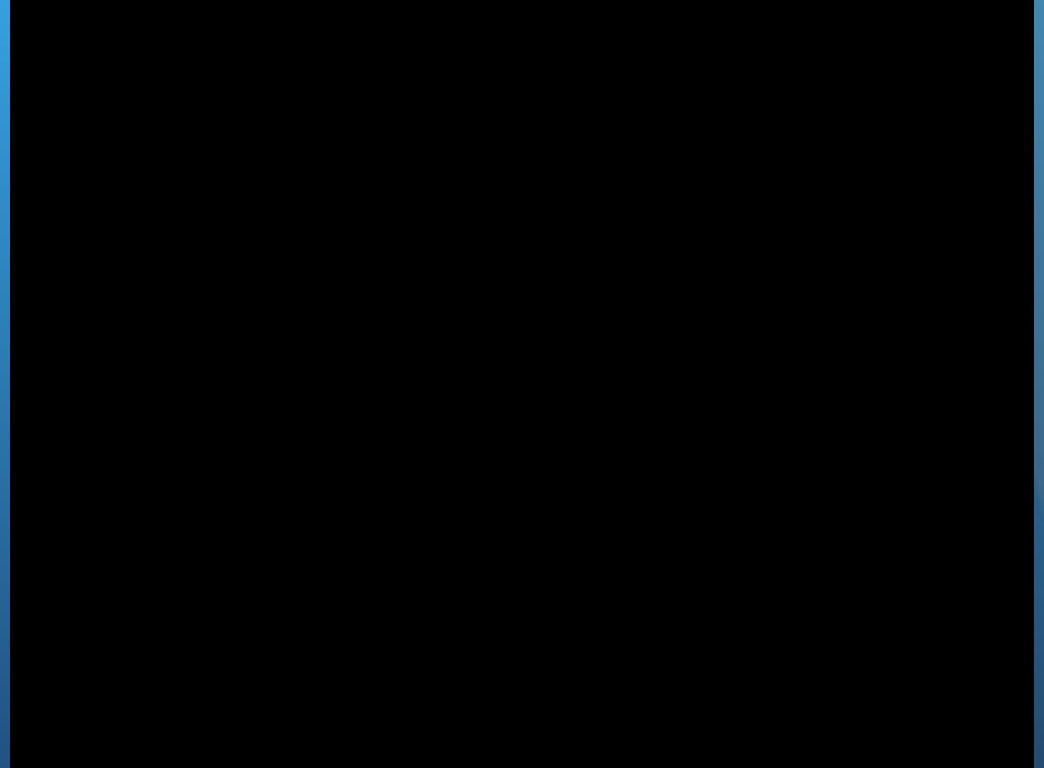
Activated carbon can also lead to coral bleaching



# So what is the solution?

Copy Mother  
Nature...  
providing our  
fish and corals  
with  
environment as  
close as possible  
to their natural  
ecosystem

When fish are kept  
in reef  
aquariums, they  
are always  
healthy and  
their color is  
vibrant

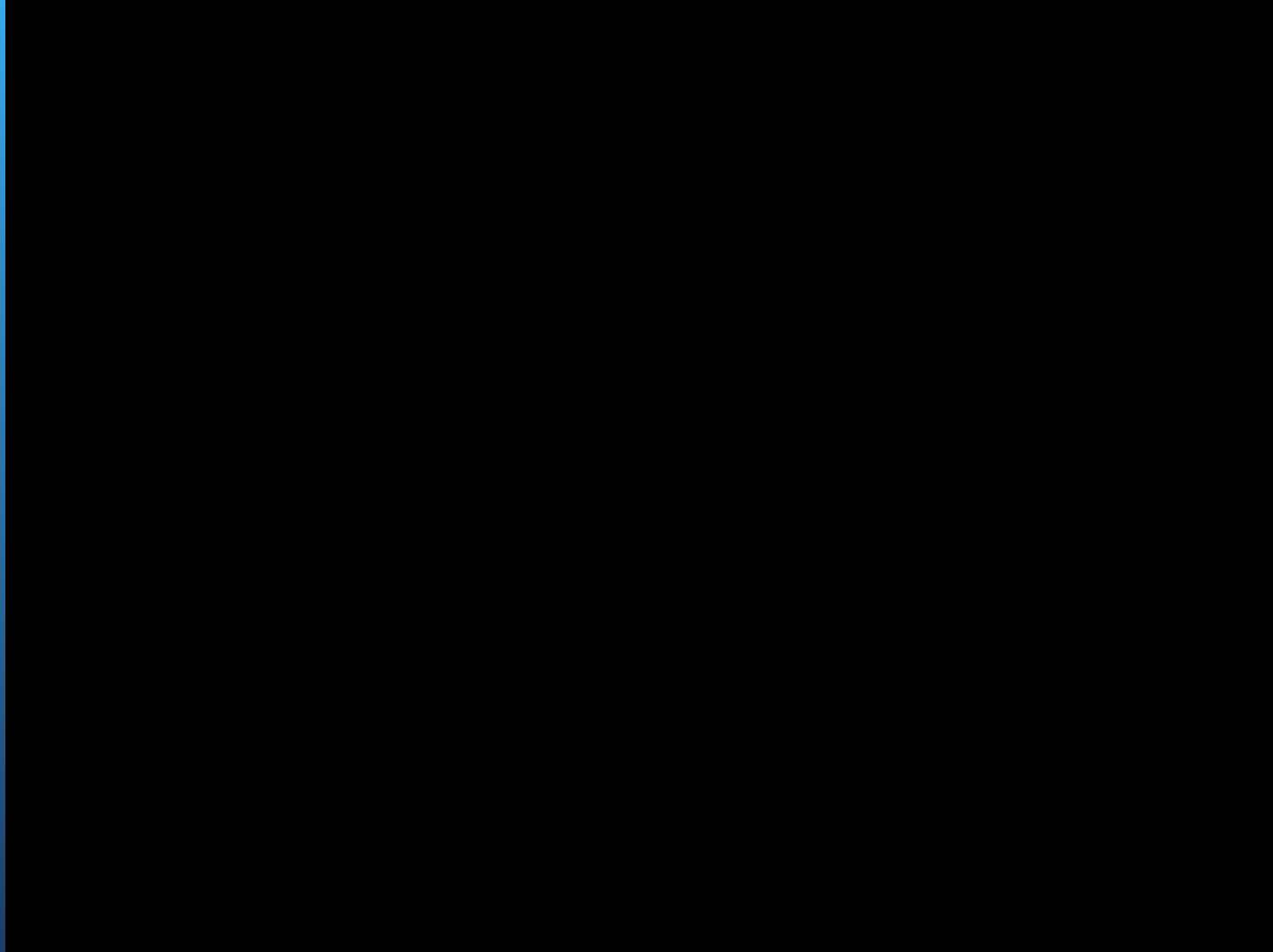


# A Possible Solution: The EcoSystem Miracle Mud Method

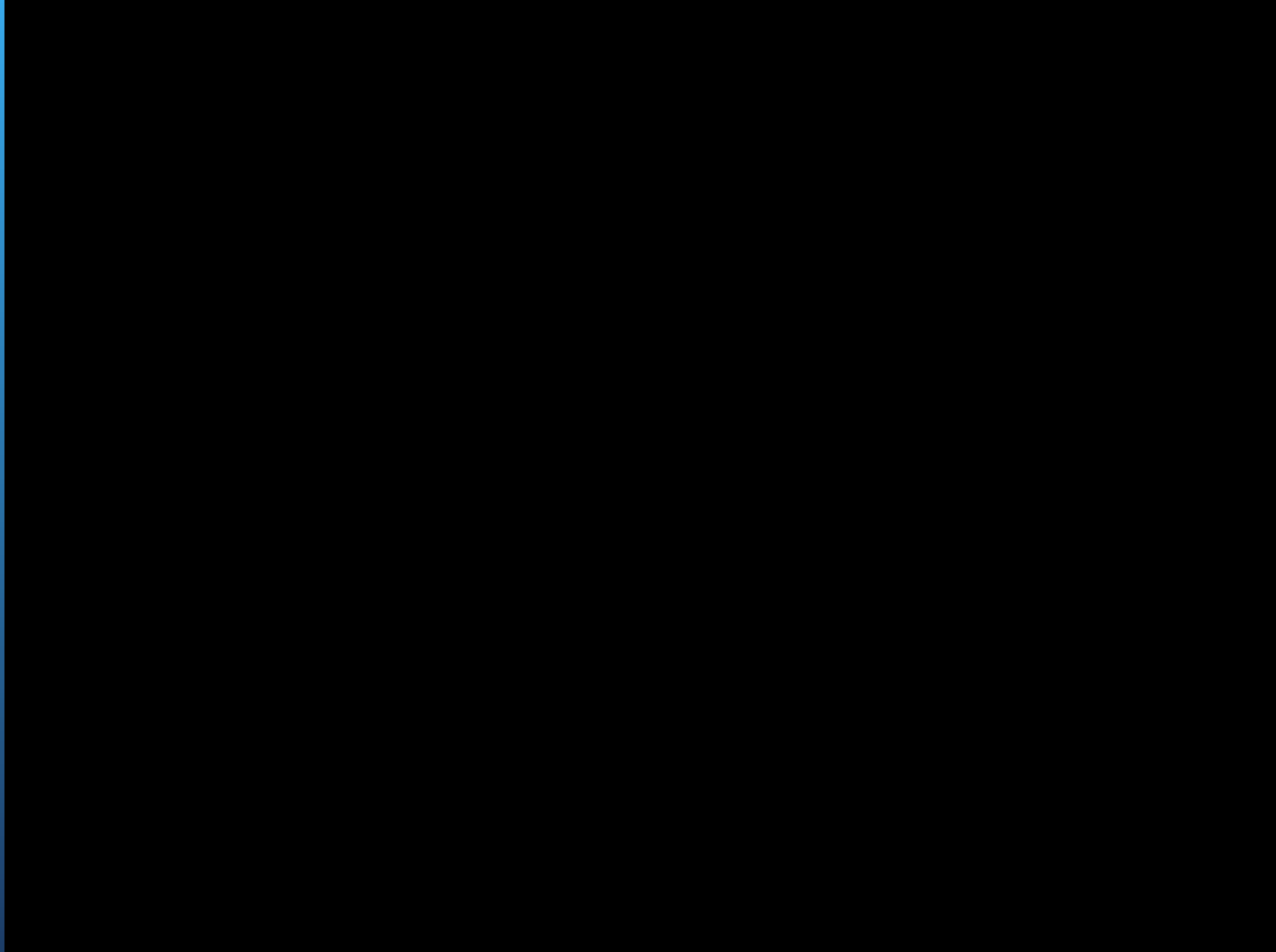


- Miracle Mud not only can *prevent* HLLE in fishes
- But it can even *reverse* HLLE in fishes

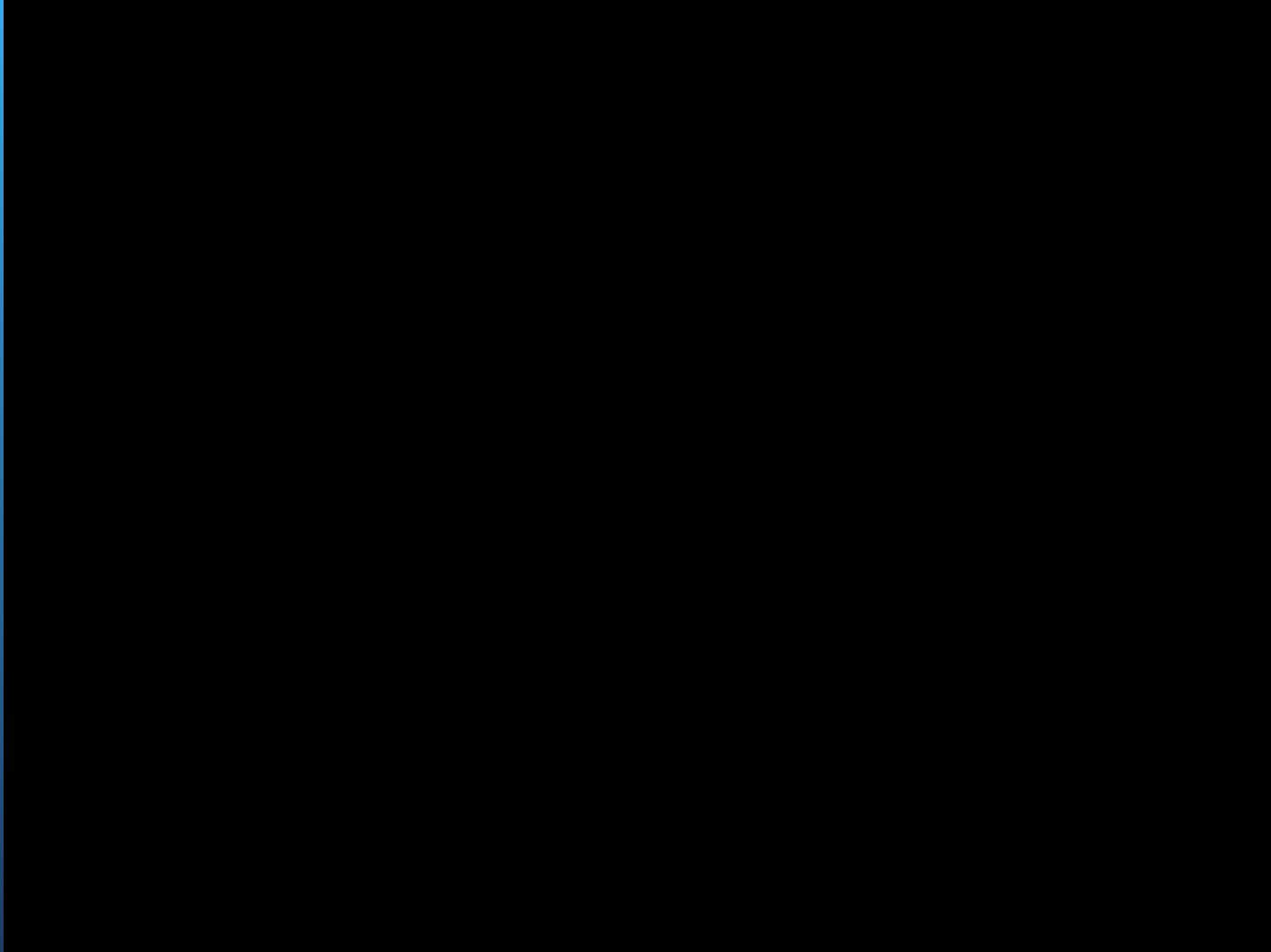
# Shark exhibit in Czech Republic



# Reef aquarium with **FISH FOCUS**



# Reef aquarium with CORAL FOCUS



# EcoSystem Aquarium Laboratory & showroom





Any questions please see  
me at my booth #12

**THANK YOU**