



Newsletter

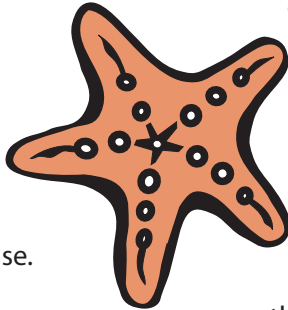
October 2004 pg. 3



IMAS Digital Library

IMAS is now video taping all of their meetings and events for future reference and individual purchase.

Thanks to 2 of our talented members they are taking these recordings and transferring them into DVD format.



Right now we have 3 DVD's Available. These are:

- Mike Paletta Seminar
- Nano Reef tanks
- Utah Reef tour

Please contact IMAS for more info

Take Your Fish to Work

You can take your saltwater fish anywhere when it is embroidered on a garment of your choice. IMAS will have a few garments available for purchase at the November meeting. These will have an embroidered flame angel with the IMAS name. These are a great way to support our local reef club as well as showing others that you are a saltwater addict too! A catalog will be available for personalized orders as well. Winter is coming, how about a new fleece jacket with this flashy logo?

Water Movement in the Aquarium cont.

2 powerheads that alternate their on off cycles so that the water movement switches directions just like the waves in the ocean. Normal powerheads create a small volume of high velocity water, which is not natural. Plus this high velocity water if it is directed at a sessile creature can damage it with the force of the water. There are now a few powerhead type devices such as the RIO SEIO pumps and Tunze Streams, which create a large pattern of lower velocity water, and end up moving much more water in a more natural pattern. These powerheads are much better at moving all of the water in your aquarium in a much more natural manner, rather than using a normal pump impeller setup they use more of propeller like a boat to move the water. You can also create a wave type of water movement in your aquarium with multiple outlets on your return pump and valves to switch between them. The most common manner of doing this is with a motorized 3 way ball valve, What these valves do is move the water input between 2 different outputs. These outputs are normally placed on both ends of the aquarium and create a wave type of movement between them as the water is switched from one outlet to the other. These devices work very well, the only down side is the cost, they can be very expensive. There are also water movement powered switching devices such as the SCWD which will change the output of water via the flow of the water through the device. These devices are much less expensive than motorized ball valves and require no other controls, but they can and normally will jam up during use. This jamming is caused by some of the living creatures that will grow in your plumbing and the calcium carbonate precipitation that is normal in our aquariums. With regular cleaning SCWDs and other water powered devices can work for quite a long time.

There are many other devices that can be used to create a surge of water movement in your aquarium. These surge devices can be of many different designs, one of which is the dump buckets. Dump buckets are a highly efficient way to create water movement. Water is pumped into a tilt-able tray above the waters surface, as the tray fills the center of gravity of the tray is changed so that when it is full of water the bucket tips over dumping the water into the aquarium. These devices do a very good job of creating a wave in your aquarium, but they are noisy and take up quit a bit of space.

Another type of surge device uses either a siphon or a valve to allow water to drain from a reservoir into the tank normally via a large diameter pipe creating a very rapid surge of water in the aquarium. These devices can work very well to help create lots of natural currents in your aquarium, the biggest downside to them is that they do create a lot of bubbles in your aquarium with the normal designs, and when they drain they can create a flushing sound. Personally I really like this type of a surge device and have many in operation currently.

cont. page 4