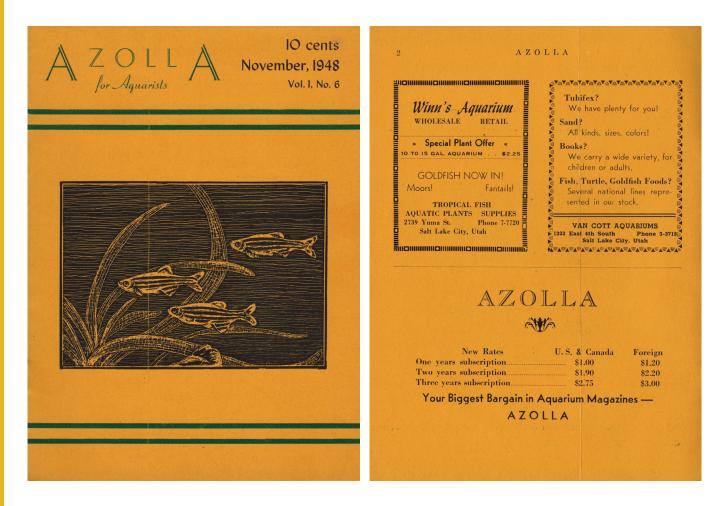


The Illustrious Pemco Aquarium

By Gary Bagnall

In the beginning stages of my interest in 19th century public aquaria I found the following quote from James G. Bertram's book "The Harvest Of The Sea" (London, Third Edition, 1873): "It may be interesting, by the by, to note here that in America they have started traveling shows of living fish, which visit inland towns, and delight hundreds who never before saw a lobster or an aquatic sheep's head." While I initially thought this might make a nice little piece of "trivia" to file mentally away, on-going research has shown that this traveling aquarium concept deserves more attention. When I first wrote on this topic 20 years ago (Finley, 2002) little did I realize that the piece would lie untouched for so long. But the interest was always there and slowly materials on the topic accumulated. Thanks must go to the MOAPH for the encouragement to now provide an update on the topic. Now, as it was 20 years ago, it is beyond this article to examine the whole history of such traveling aquaria, but I can provide additional information on what is, without question, the apex of such ventures – the aquarium of William Cameron Coup's New United Monster Shows, which was a circus-based venture that was on the road from 1879 to 1882.



AZOLLA

The Making of an Aquarium

Mr. Manuel Wolfe and Mr. Martin Horowitz, Co-partners of Patt Engineering and Manufacturing Company have recently moved to their new location with greatly improved surroundings. They are considered the largest manufacturers of aquariums on the West Coast. Their product is the well-known "pemco line". "The Making of An Aquarium" was written with and through their cooperation.



"Shears, spot welding devices, a punch press, etc., were all lying around in orderly confusion."

The purchase of another aquarium started us off on a discussion of just how the were made. When I ventured the opinion that they were just five pieces of glass held together by some stainless steel strips, a friend of mine who is responsible for my interest in tropical fish laughed and offered to take me along on one of his next visits to an aquarium manufacturer. He said he would show me what it really takes to build a "fish house".

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Came the day, and my friend Al took me to the new headquarters of Patt Engineering and Manufacturing Company of Los Angeles.



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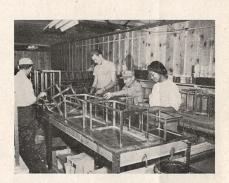
"The tank is then scraped, cleaned and polished."

Continued from page 4

leakproof tanks. The assembly procedure is standard. A fter the frame is made the two sides pieces of glass are set in. Then two end ones are placed and last comes the bottom. In this manner, the bottom piece can be set in very tightly and consequently completely seals the tank.

Again we moved on. The number of machines and pieces of equipment necessary for the efficient and continuous manufacture of various size and shapes of aquariums was surprising. Shears, spot welding devices, a punch press, brakes, heating tables, glass racks, bins and other items were lying around in orderly confusion and available for immediate use. Extra heavy glass, highly polished stainless steel and Pecora cement, which is claimed to be one of the best on the market, are the materials that go into the making of an aquarium tank, because each tank must be designed strong enough to withstand the expected water pressure with absolutely no leakage or breakage. The tanks are tested by visible inspection. After having manufactured thousands of aquariums the "pemco" staft can detect any flaws existing. Any questionable tanks are sent back to be reworked.

The number of operations require to complete even one aquar-



"The stainless steel must be cut, notched, formed and spot welded."

He said they were considered the largest maunfacturers of aquariums on the West Coast and as they were now centrally located in L. A. were very easy to reach. We entered the attractive"pemco"

We entered the attractive"permco" showroom where a vast assortment of aquariums in all shapes and sizes were on display. They ranged from one to fifty gallon size. Predominating were stainless steel ones, but also manufactured were some of copper, brass, monel metal and steel. The larger jobs, on special order were not available for inspection as they go right out as soon as completed. Mr. Horowitz, the company manager, described one of these "supers" for a docter's office that must have been a beauty six feet long and built right into the reception room. Another special order was a 125 gallon size. Swimming pools for fishes!

We moved on to see just how "five pieces of glass held together by some stainless steel strips" made an aquarium. The factory part was a cool, air-conditioned work room. It had to be kept so, not only for the comfort of the employees but also to maintain the proper temperatures to seal the glass into the stainless steel. This process is an exclusive "pemco" one which makes possible the production of

Continued on page 9

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ium are surprising to the exetnt that even regular stock size tanks seem to be custom built. The stainless steel must be cut, notched, formed and spot welded. The four sides of glass and the extra heavy bottom glass (All "pemco" aquariums over twenty gallons in size have, in addition to the glass bottom, a solid sheet of stainless steel soldered in. This provides double protection and also prevents any ozing of the cement.) are then sealed in after which the tank is scraped, cle a ned, polished, and carefully tested against possible leakage. All this just to make a simple aquarium! When we discussed the tronical

When we discussed the tropical fish hobby itself I was quite surprised to learn how wide spread the interest in it was and how many different people enjoy it. For instance P att Engineering ship their product all over the world and several seem to always end up in various remote, isolated spots. They go to schools, educational institutions, and research laboratories. They are placed in resturants, offices, and hotels. You will find them in homes, hospitals, rehabilitation centers, and child care centers. The quiet and soothing effects of aquarium fish in hospitals and rehabilitation centers is well known, and the enjoyment received from them in the home is an established fact.

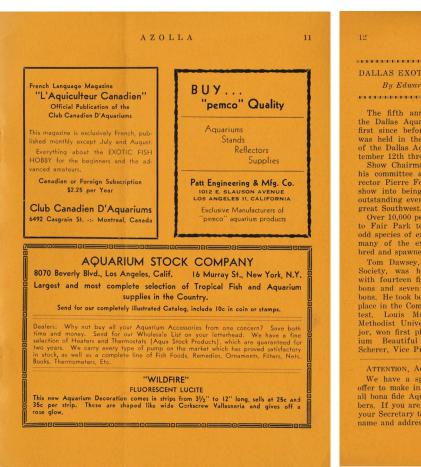
an established fact. Before leaving the factory, I asked Mr. Horowitz if he would satisfy my curiosity further and



tell me what prompted him to begin the manufacture of aquariums on a mass production basis. He replied that he had started out as a fish fancier and after his discharge from the army, his search for a leakproof aquarium led him from one place to another with little success. He and his friend (now partner) decided to make one for themselves. This was followed by several more plus some for their friends. Gradually they found that they were beginning to manufacture a quariums for a growing trade. More and more hobbyists desired their product. The next logical step was to experiment with different methods and to acquire the proper equipment. In 1946 "Patt Engineering and Manufacturing" became a company. They have found through experience that a primary goal is a quality aquarium. In other words the best sales results they explained, were obtained by providing for several years ago; a good, attractive aquarim.

> AQUARIUM OF HISTORY

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AZOLLA ----ciety, was second place winner in the Aquarium Beautiful Contest, Bob LeClerc took first place for the DALLAS EXOTIC FISH SHOW Bu Edward A. Wiggin best fish shown and also Grand Prize for the best pair of fish ex-hibited in the entire show. They The fifth annual exhibition of the Dallas Aquarium Society, the first since before World War II, were a pair of Aequidens portale grensis. was held in the main auditorium of the Dallas Aquarium from Sep-

of the Dallas Aquarium from Sep-tember 12th through the 19th. Show Chairman, Glenn Scherer, his committee and Aquarium Di-rector Pierre Fontain sparked the show into being one of the most outstanding ever to be held in the most Schuberget Over 10,000 people journeyed out to Fair Park to see the hundred odd species of exotic fish. A great many of the exhibited fish were bred and spawned by their owners.

Tom Dawsey, President of the Society, was high point winner with fourteen first place blue rib-bons and seven second place ribbons. He took both first and second place in the Community Tank Con-test. Louis Moore, a Southern Methodist University biology major, won first place in the Aquar-ium Beautiful Contest. Glenn Scherer, Vice President of the So-

ATTENTION, AQUARIUM CLUBS! We have a special subscription offer to make in about ten days to all bona fide Aquarium Club Members. If you are interested request your Secretary to send us your club name and address.

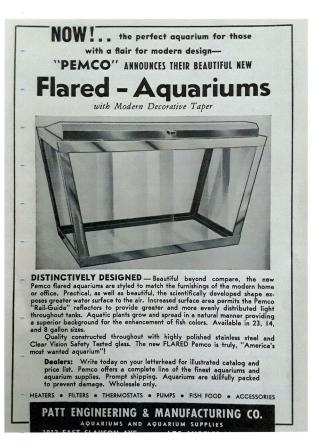
The Society was fortunate in having two internationally known judges, C. Basil Jordan and John Rosenfield. Back in 1936, Mr. Jor-Rosenfield. Back in 1936, Mr. Jor-dan imported the first Blind Cave Fish, Anoptichthys jordani, ever to enter this country. The fish, when finally identified, was named for Mr. Jordan by Carl Hubbs and William Innis. John Roseneld, in-ternationally famous stage and screen critic of the Dallas Morning Naws indend the Acausium Beau. screen critic of the Dallas Morning News, judged the Aquariums Beau-tiful. He has long been an exotic fish fancier and since judging this show, has become a member of the Society and will edit the monthly Guppy Gossip. Other Aquarium Societies are in-vited to exchange publications. Ad-dress communications to Mr. Pierre Fontain, Director Dallas Aquar-ium, Fair Park, Dallas, Texas.

FISH NEWS NEVADA AQUARIUM SOCIETY

Thanks for the Fish News from the Nevada Aquarium Society. We the Nevada Aquarium Society, we received both copies and enjoyed both of them. Should be interested in receiving future copies as they become available.

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