

BIG DIAMOND

HILLSBORO
LIGHTHOUSE
PRESERVATION
SOCIETY

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INSIDE THIS ISSUE

Lighthouse Restoration	3
Fresnel Lens Cleaning	3
Memorial Day Ceremony	5
Barefoot Mailman Fundraising	5
Flat Stanley	11
Lighthouse Tour App	12
Judy Knoebel	13
Barefoot Mailman part of Artificial Reef	16
John Evdokimoff, Jr.	16

HLPS MUSEUM OPEN

A museum dedicated to Hillsboro Lighthouse history has opened its doors.

The Hillsboro Lighthouse museum opened in January 2013 for three days a week, and on tour day Saturdays. It is open on Tuesday, Thursday, and Saturday from 10:00 a.m. until 2:00 p.m. and from 9:00 a.m. until 3:30 p.m. on tour Saturdays. More than 1,000 visitors from our local communities, Canada, and Europe have stopped

by to enjoy the historical displays, photos, articles, and a scale model of the Hillsboro Light constructed by Harvey Villa that is currently on loan to the Museum. Also on display are several story boards which were designed by our Hillsboro Lighthouse Historian, Hib Casselberry.

Please consider donating any historical items or artifacts that you might have concerning the Hillsboro Light or Hillsboro Inlet. HLPS is always working to improve the displays.

(Continued on page 15)

UNTOLD STORY OF THE HILLSBORO LIGHTHOUSE – PART 1

On May 29, 1992, the giant Fresnel lens came to a loud and violent stop at Hillsboro Inlet Lighthouse.

What really happened?

By Art Makenian, HLPS President

It was a calm, dark evening like any other at the Hillsboro Lighthouse with the giant lens rotating at one and a one-half revolutions per minute, producing a light beam precisely every 20 seconds. The 1,000-watt GE studio lamp was shining at the center of the gigantic Fresnel lens, amplifying that light to 5.5 million candelas, creating a beam visible up to 28 nautical miles far out at sea. EM1 Mike D. Helms, the Coast Guard Facility Manager of the USCG Hillsboro Inlet Light Station was residing with his family in the seaside cottage, when all of a sudden he heard a very loud metal grinding noise and the entire lighthouse started resonating. His first reaction was

to rush to the lighthouse and switch the master circuit breaker off, thus cutting all the electrical power to the lighthouse. Of course, silence prevailed. He climbed the 175 steps up in the lighthouse up to the watch room, where all the mechanical moving parts are located, to investigate the source of that noise. In the evening light he could not see any abnormalities, the lens and the turning mechanism appeared normal.

Early the next morning, Mike called The Aids to Navigation Team (ANT Miami) Chief BMC Charlie Pentalakos, who was technically responsible, since the lighthouse is an active Aid To Navigation. Chief Pentalakos along with two of his

team jumped in their truck and headed up to the Hillsboro Inlet Light Station, a 53 mile journey north of USCG Station Miami Beach where they were stationed.

Upon arrival to the Hillsboro Inlet Lighthouse, Mike Helms debriefed the event he experienced the night before. The Chief and his ANT crew then proceeded to climb up the light tower to perform a thorough inspection of all rotating mechanical parts. Again they could not pinpoint any visual anomalies. Based on their inspection, they decided to turn the motors back on to see if the problem persisted. After overriding the photocell

(Continued on page 4)

2014 TOUR DATES

2014
Tour
Dates

See Page 3

FROM THE PRESIDENT

As part of Viva Florida 500, the Broward County Centennial, Hillsboro Beach's 75th Anniversary and the 150th Anniversary of the Barefoot Mailman, the Hillsboro Lighthouse was selected as the official host of the Florida Lighthouse Association's 2013 "Lighthouse Congress." Events took place at various locations in Broward County, Florida from Friday, October 11 through Monday, October 14, including three days of tours at the Hillsboro Inlet Light Station.

Below is the welcome speech given to FLA Members at the Hillsboro Club on October 12, 2013.

Welcome members of Florida Lighthouse Association and thank you for choosing our lighthouse for your Third Congress. The Hillsboro Lighthouse Preservation Society takes great pride hosting this great event, and we hope we will give you good memories to take back with you, so you will keep coming back and visit us again.

Our Society is very proud to preserve the youngest of the tall lighthouses in Florida which also happens to be the world's strongest light beam of any lighthouse, as that beam projects 28 nautical miles which is 32.2 Statute miles out to sea. We also have the one and only 9 feet in diameter Second order Fresnel lens that lights up every night. Not too many lighthouse enthusiasts are knowledgeable about these facts. After lunch if you decide to climb up to the lantern room, you will be seeing something very unique and special. I intend to be there with you to make few pointers about the lens, and hope you take our story back with you to share it with your family and friends.

Where we are today is the result of the tenacious and persisting attitude and hard work of two men, Harry Cushing and the late David Butler, the first and the second presidents of HLPS. These two men, with the guidance of Tom Taylor, successfully convinced the Coast Guard that this rare architectural masterpiece that had pushed Professor Fresnel's physical theory to the extreme limits, did not belong on a museum floor, but belonged on top of the lighthouse to shine every night half way out to the Bahamas. Rear Admiral Sanders, the Commandant of U.S. Coast Guard Seventh District agreed with Harry and David, and what we have today is the result of these smart mens' decision. Perhaps we will never know how many lives have been saved during the past 100 years by this light and all of the other lighthouses, but we do know that there are many who lived to tell us their stories. A lighthouse is a universal symbol of hope.

Today, HLPS is very proud to have the Coast Guard Waterway Management's trust for allowing us to operate, maintain and preserves the Hillsboro Inlet Lighthouse. When I first set foot in this lighthouse as a contractor's observer 16 years ago, it was unimaginable to think that we would have had this responsibility, yet here we are. From July 2012 to this day, the Hillsboro light experienced only one outage due to an electrical storm power interruption.

Once again thank you for being here today. Enjoy your stay.

Art Makenian

FROM THE EDITOR

This issue comes after a long delay. For that, the editor sincerely apologizes. The reasons don't matter...but the real reasons do matter.

HLPS, as an all volunteer organization, is only as strong as the volunteers in our organization. In late 2012, HLPS decided to move from a quarterly newsletter to a biannual edition, to alleviate the time constraints of managing four newsletters a year. As it turns out, with our limited volunteer staff, managing two editions a year was even more difficult!

So, you hold in your hands the Winter 2013 issue of Big Diamond. Next year, we will be moving back to a shorter, more manageable quarterly newsletter.

I apologize for the lengthy delay in getting this issue of the newsletter together, and despite the gap between editions, hope you will find this issue of interest.

-Editor

The mission of the Hillsboro Lighthouse Preservation Society is to promote the history of the Hillsboro Inlet Light Station and the Hillsboro Inlet area through preservation of structures and artifacts, education and public access tours.

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LIGHTHOUSE RESTORATION UPDATES

HLPS member volunteers have given many hours toward restoring the tower

Since the United States Coast Guard turned over maintenance to the Hillsboro Lighthouse Preservation Society in June 2012, member-volunteers have been busy repairing, painting, refinishing and generally improving the overall health of the 107 year-old structure.

A list of updates of lighthouse restoration efforts over the last year include:

- An eight-foot section of the watch room

interior wall just above the floor level is now replaced with new metal.

- All four single hung windows at the service room are now repaired and reinstalled.
- Both lower and upper metal doors are now replaced and painted.
- All stairway cylinder section metal patches are now complete. Painting is in

progress across the entire interior of the lighthouse.

- All four drive shaft oil seals of the speed reduction gearbox have been replaced, along with the drive motor couplings spider inserts.
- 344 Fresnel lens glasses have been hand cleaned. ◇

FRESNEL LENS CLEANING

HLPS member volunteers hand clean entire lens

Fresnel lenses are optical lenses specially cut and shaped with many concentric rings to function like thicker or heavier lenses in focusing concentrated light. Classical Fresnel lenses, like the one in the lantern room of the Hillsboro Lighthouse, are considered an important historic feature of lighthouses, and represent a unique aspect of both the lighthouse and United States Coast Guard History.

As part of HLPS' commitment to preserving the Hillsboro Lighthouse, our volunteers completed 12 hours of service cleaning the lens, saving HLPS significant labor costs.

Due to its historical significance, fragility, and near priceless value, extreme care must be taken when cleaning the lens in the Hillsboro Lighthouse, including our member volunteers being required to remove all jewelry, watches and belt buckles prior to cleaning.

Our trained member volunteers used an equal combination of distilled water and isopropyl alcohol, along with a single drop of non-concentrated Woolite per quart of distilled water/isopropyl alcohol mixture, as noted by both the USCG and the U.S. National Parks Service guidelines.

See pictures on pages 8-10. ◇

2014 HILLSBORO INLET LIGHT STATION TOUR SCHEDULE ANNOUNCED

Eight tours slated for 2014, including lighthouse's 107th anniversary celebration

For people who love to visit lighthouses, a tour of the Hillsboro Inlet Light Station is an outstanding experience. Rarely do lighthouse lovers get to visit a lighthouse that is still an active aid to navigation. Hillsboro Lighthouse will be open to the public on selected Saturdays as listed below.

Enjoy a 30-minute boat ride along the Intracoastal Waterway from Pompano Beach to the lighthouse and, in your time on the grounds, you will get to walk in the footsteps of the original lighthouse keepers. We hope you enjoy your day with us as much as we will enjoy taking you on this adventure.

For more information, visit www.hillsborolighthouse.org/tours.html ◇

2014 TOUR DATES

- Saturday January 18, 2014 - Broward County Centennial
- Saturday February 8, 2014 - Hillsboro Beach 75th Anniversary
- Saturday March 8, 2014 - Hillsboro Lighthouse 107th Anniversary
- Saturday April 12, 2014 - Florida Lighthouse Day
- Saturday May 17, 2014 - National Safe Boating Week
- Saturday August 9, 2014 - National Lighthouse Day
- Saturday October 11, 2014 - Barefoot Mailman Day
- Saturday November 8, 2014 - Veterans Day



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UNTOLD STORY OF THE HILLSBORO LIGHTHOUSE – PART 1

(Continued from page 1)

sensor switch, the giant lens started rotating. After a while, the loud metal grinding noise started again and the entire surrounding started to shake. The metal to metal grinding noise could only come from the rotating heavy cast-iron float rubbing against the heavy cast-iron mercury reservoir called the trough.

The written remarks in the CG/ANT Log states: Lens is dragging on one side and stopping the lens. Of course, this was an unprecedented experience for the ANT Chief. Not knowing the cause or the extent of the damage, he decided to install a temporary airport type 190mm optic, which is a small rotating beacon secured on the seaward railing of the lantern room parapet. The 190mm optic was standard issue of the USCG Aids to Navigation hardware and was adjusted to operate with the same 20 second flash frequency, but with a much weaker light, visible only up to 5 nautical miles.

Repairing the metal rubbing problem was far beyond the ANT personnel's work scope capabilities. Removing and repairing the mercury containing reservoir called the trough and the float was restricted by the Environmental Protection Agency (EPA) because it contained mercury (commonly known as quicksilver, mercury is extremely toxic and must be handled with care). At that time, the inside of the watch room atmosphere test indicated high levels of mercury vapor.

Group Miami's immediate reaction was to restrict all personnel entering the lighthouse except for servicing the light or other related components installed in the light. The heavy iron works were within the repair capability of the Integrated Command System (ICS Miami) unit personnel. But because of the mercury toxicity, the issue was brought up to

a higher level of district command to Capt. Hadler, the Commanding Officer of District Seven OAN. Finally, the Civil Engineering Unit (CEU Miami) Commanding Officer Capt. Milo decided to stop planning for the lens repair. The big light was shut down for good on May 22, 1992.

Three years after the first incident, a contract was signed with Chemical Waste Management, Inc. of Pompano Beach for removal and disposal of the mercury and all its traces. Interestingly, the waste removal profile stated that two 5-gallons of liquid mercury and one additional 5-gallon of partially solidified mercury and waste were removed. I will be referring to this amount of mercury waste later on in this story.



Bronze Centering Bearing
Source: HLPS

What really went wrong that night when EM1 Helms shut down the lens? Two things happened. First, throughout the years, the mercury quantity depleted to far below minimum levels. In fact, we could not find any record in the entire Keeper's Maintenance Logs that the mercury level

was topped off. Physically, it was the mercury that created a tall ½ inch barrier between the stationary trough surface and the rotating float.

Considering a trough over five feet in diameter, a ½ inch gap is not much, but it is essential for a four metric-ton floating lens rotating system. Second, this critical gap between two heavy cast iron bodies was also protected by an adjustable centering steel conical pin inserted into a bronze cone device located at the center of the main vertical drive shaft that rotated the platform and the float carrying the giant lens (see pictures on next page).

The two questions that remained to be answered were: 1) what was the full and proper quantity of mercury that should have been in the trough? and, 2) what was the position of the centering pin in the center of the vertical shaft?

The 1906 Barbier Benard & Turen French manufacturer's operating and maintenance manuals were no longer available. But by simply measuring all the rotating parts and clearances, it gave us a close estimate of total weight and volume. A four metric-ton rotating optics, consisting of 2.5 ton of 340 glass prisms and bronze frame, sitting on a one-ton supporting flat cast iron platform, plus 500 kg vertical drive shaft and gears should be able to displace its own weight. Considering mercury has a density of 13.6, and calculating in metric units, I took the gap created by the trough and the float in three separate areas as shown in the following formulas: (a) the outer lateral gap, (b) the inner lateral gap, and (c) the flat bottom gap.

Since $\text{Volume} = \pi \times h \times (R_2 - r_2)$, therefore (a) = 18.8 liters, (b) = 18.8 liters and (c) = 21.4 liters, totaling 59 liters or 799.5 kg = 15.58 US Gallons.

Unlike previously reported, the correct weight
(Continued on page 6)

HLPS AND USCG AUXILIARY MEMBERS ATTEND BOCA RATON MEMORIAL DAY CEREMONY

Speech given by CG Auxiliary Boca Raton Flotilla 36 Commander Andrea Rutherford

With flags, uniforms and speeches, the City of Boca Raton and members of the Hillsboro Lighthouse Preservation Society and the USCG Auxiliary came together on Memorial Day to honor those who gave their lives in the nation's armed conflicts. Several hundred gathered at Veterans' Community Park under a blue sky dotted with white clouds to honor members of the military who never came home from foreign wars.

Boca Raton Flotilla 36 Commander Andrea Rutherford, gave the following speech:

Mayor Whelchel, Deputy Mayor Hanie, Mayor Abrams, distinguished guests, honored veterans, and fellow patriots.

On behalf of the United States Coast Guard and the Coast Guard Auxiliary, I salute the veterans being recognized on Memorial Day.

I have come to this ceremony over the years to reflect on the sacrifices made by soldiers and their families during times of conflict. It has been a personal day to remember and honor my own father, a World War II

Army veteran, along with all of my uncles.

During these ceremonies, I have particularly noticed the young people who attend, those who sit on chairs or ride in strollers, who march in bands and formations, or fold the flag, each of them learning from us, their parents and leaders and neighbors how much we value freedom and how terrible the

price has been to preserve it.

As some of you know, the Coast Guard is one of the nation's five armed services. But unlike the Army, Navy, Air Force, and Marine Corps, members of the Coast Guard perform their mission, fight their war, every minute of every day on the 90,000 miles of U.S. coastline.

(Continued on page 7)



Boca Raton Flotilla 36 Commander Andrea Rutherford

HLPS RAISES ADDITIONAL \$353 TOWARD BAREFOOT MAILMAN STATUE REPLACEMENT

Uses Indiegogo crowd funding site to spur donations

Crowdfunding is a way that non-profits can raise money to get a project or enterprise off the ground without having to secure a loan or approach foundations for elusive grants. The advantage of crowdfunding is instant access to a global fan base that can grow exponentially through social media.

To preserve the memory and commemorate the careers of the Barefoot Mailmen, and to honor the "legend" of the most famous Barefoot Mailman of all, Ed Hamilton, the Hillsboro Lighthouse Preservation Society (HLPS) created a fundraising campaign on Indiegogo to offset the costs of replacing the

concrete statue with a bronze version of the same. HLPS has repeatedly attempted to secure National and State Historical Funds.

The total cost of the project was \$45,000, and HLPS was still \$10,000 short of our goal when we took an attempt at crowdfunding \$5,000 toward the Barefoot Mailman Restoration Fund. While we were woefully short of our goal, HLPS doesn't have to repay the monies raised because crowdfunding isn't a loan.

Lessons learned from our very first attempt at crowdfunding is that our campaign needs to be set up so people want to donate money

toward a reasonable and attainable goal, and that we need to do better at leveraging the passion of family, friends and lighthouse fans as a way to raise a significant amount of money in a short period of time.

While the Indiegogo Barefoot Mailman Campaign is closed, you can still donate to HLPS to and the Barefoot Mailman Project by visiting our Web site at www.hillsborolighthouse.org and clicking on "Donate to HLPS."

Thanks to the many individuals who gave money toward the Barefoot Mailman Restoration Fund. ◇

UNTOLD STORY OF THE HILLSBORO LIGHTHOUSE – PART 1

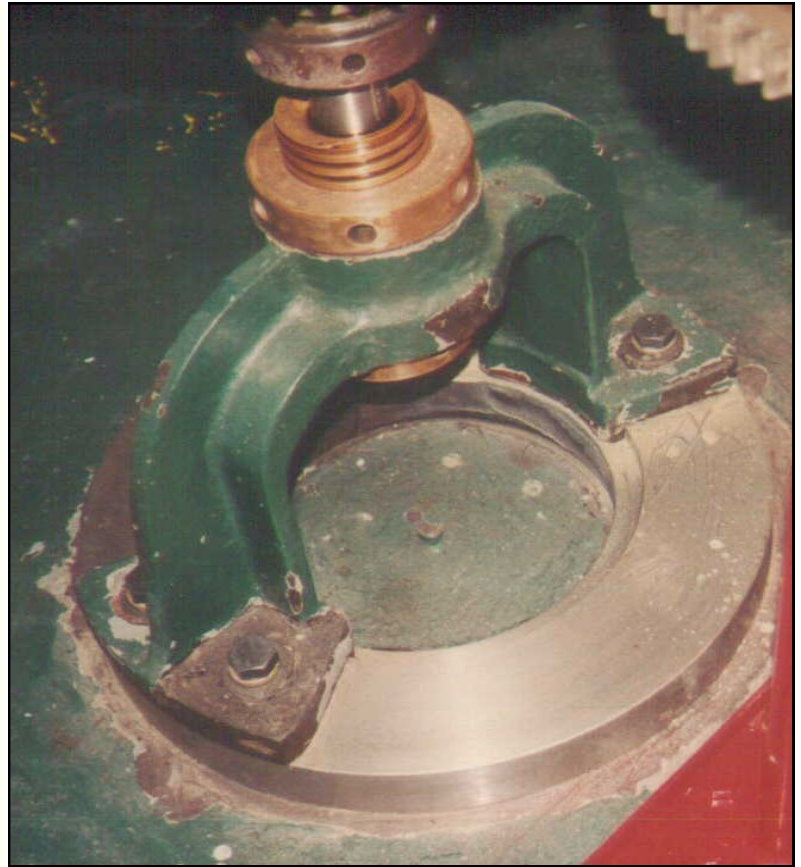
(Continued from page 4)

of the mercury should have been 1,760 lbs.

The above figures gave us the first answer. The mercury drained, or shall we say, removed, was just over one-half gallon short of the minimum required level. However, the more critical part in the report was the third 5-gallon containing partially solidified mercury and contaminants. This alone could have prevented the rotation of the float carrying the optics.

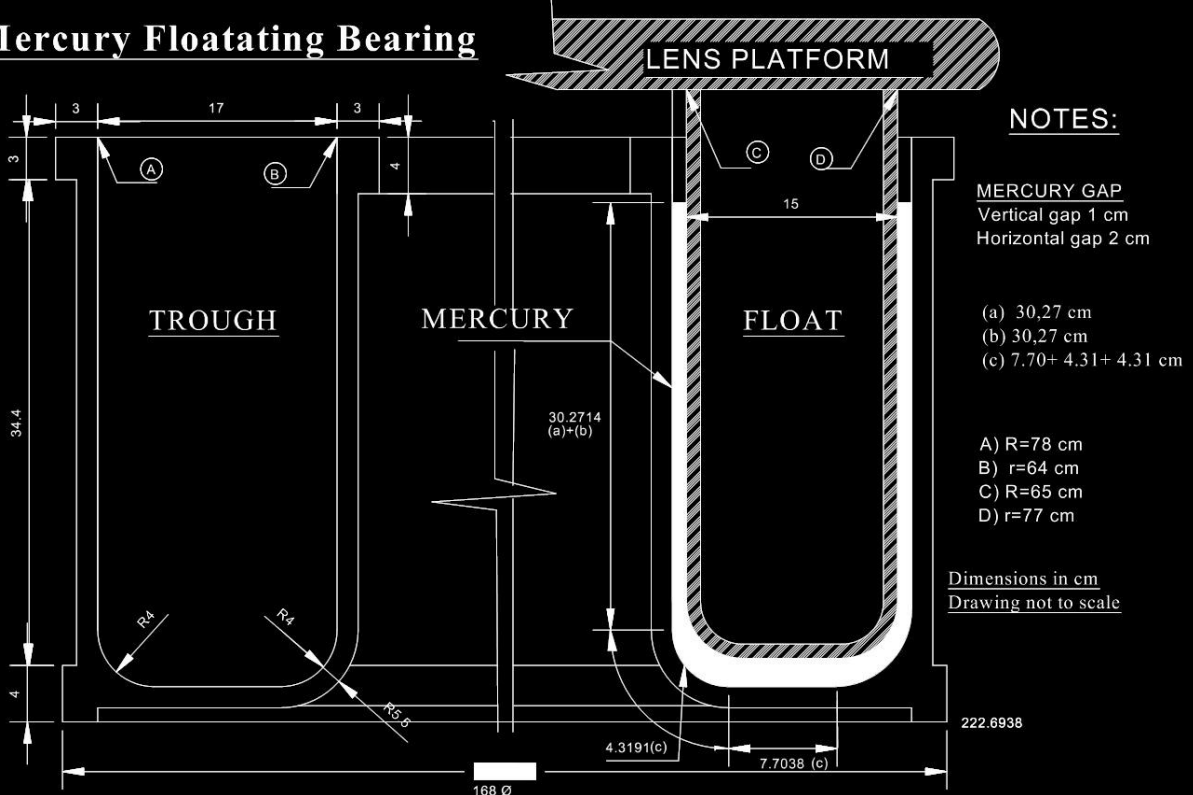
The French engineers considering the mercury depletion issue as a probability, incorporated in their design a redundancy of a centering bearing pin at the bottom of the vertical drive shaft, this centering pin could have avoided the rotating float and the stationary trough walls rubbing against each other if adjusted properly. Assuming no one had touched the centering pin adjustment since the seizure of the float in 1992, while disassembling the rotating system in 1998, I found the bronze collar nut backed off at least two threads, that had created a gap of ¼ inch between the steel centering pin and the bronze centering insert. The solid steel five-inch vertical drive shaft is approximately six feet in length. This of course was the second probability of the rotational failure.

Now we know what happened on May 29, 1992. These two conditions could have been corrected by first filtering the drained liquid mercury, and topping it off with an additional gallon, and second, by re-adjusting



Centering Horseshoe
Source: HLPS

Mercury Floating Bearing

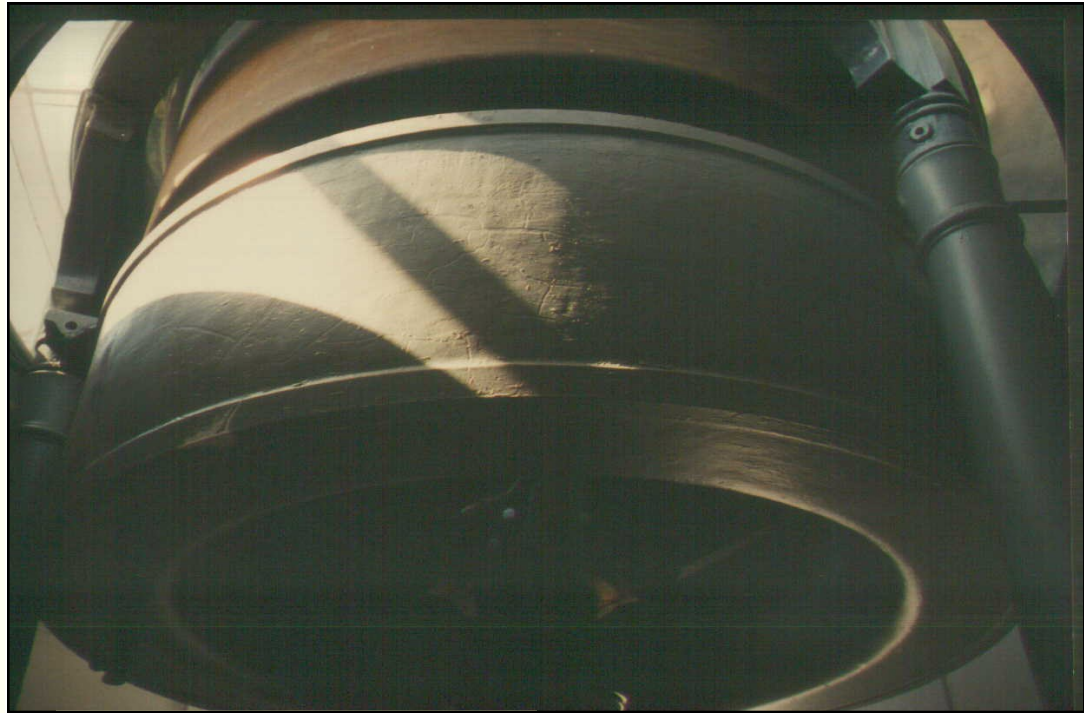


Mercury Float Bearing
Source: Art Makenian

(Continued from page 6)

the steel pin to fill the conical gap. By doing so, the Hillsboro Lighthouse mercury bearing floatation system would have been serving us today and many more decades to come. To overcome the EPA and OSHA strict regulations of hazardous material (HAZMAT) handling, suitable low cost protective gears could have been used.

In 1996, four years after the initial mercury incident had taken place, the Commandant of U.S. Coast Guard District 7 Rear Admiral John Lockwood contracted Parsons Engineering Firm of Fairfax, VA to evaluate and recommend the future disposition of the Hillsboro Lighthouse. Our late HLPS second President David F. Butler states in his book, "Parsons Engineering Firm recommended removal of the nine-foot Fresnel lens and transfer to a museum where it could be viewed by the public". Unfortunately, the Parsons report was based strictly on cost effectiveness. If the Coast Guard had adapted that concept, this beautiful architectural art treasure would have been laying in the center of a museum floor, just like its identical twin sister the White Shoal Lighthouse, whose second order Fresnel lens



Trough and Float
Source: HLPS

located at Great Lakes Shipwreck Museum in Michigan.

It should be noted that today, there are virtually hundreds of lighthouses around the

world, including our northern neighbors in Canada who have lighthouses operational with the original mercury bearing system.

To be continued.... ◇

MEMORIAL DAY SPEECH

(Continued from page 5)

They board freighters and ships looking for illegal goods; they jump out of helicopters into turbulent waters to save lives; they chase down armed drug runners on the high seas; and they coordinate oil spill responses.

What you might not know is that the Coast Guard has seen combat in virtually every conflict fought by the United States since 1790.

In WWII, it actively battled German submarines under the direction of the U.S. Navy and developed the first anti-submarine tactics, but at the cost of nearly 2,000 Coast Guardsmen's lives.

Since WWII, the Coast Guard has been limited to the peacetime tasks in which it specializes, and in conflicts, it continues to

perform the duties that are an extension of normal peacetime tasks.

The Coast Guard has served a role in Korea, Vietnam, Grenada, Panama, Desert Shield, Desert Storm, Kosovo, Enduring Freedom, and Iraqi Freedom. Coast Guard personnel, ships, aircraft, and cutters have been used to preserve the safety of other servicemen and women, as well as local civilians.

But it is their peacetime mission and duties that the public relies on. The Coast Guard heroes of these missions are often unsung, working quietly in the background. But there are exceptions.

For example, Margaret Norvell served as a lighthouse keeper for over 40 years on Lake Pontchartrain, Louisiana, in the early 1900s. She is credited with numerous rescues and

acts of heroism, including battling heavy seas and winds in her rowboat to rescue survivors of wrecks and sheltering nearby residents from severe storms. Just this month in Miami, the Coast Guard took possession of its newest Sentinel-class, Fast Response Cutter, named the "Margaret Norvell," in her honor, and is home-ported in Miami to support operations along our coastline and the Caribbean. This is the first Coast Guard cutter to be named after a woman.

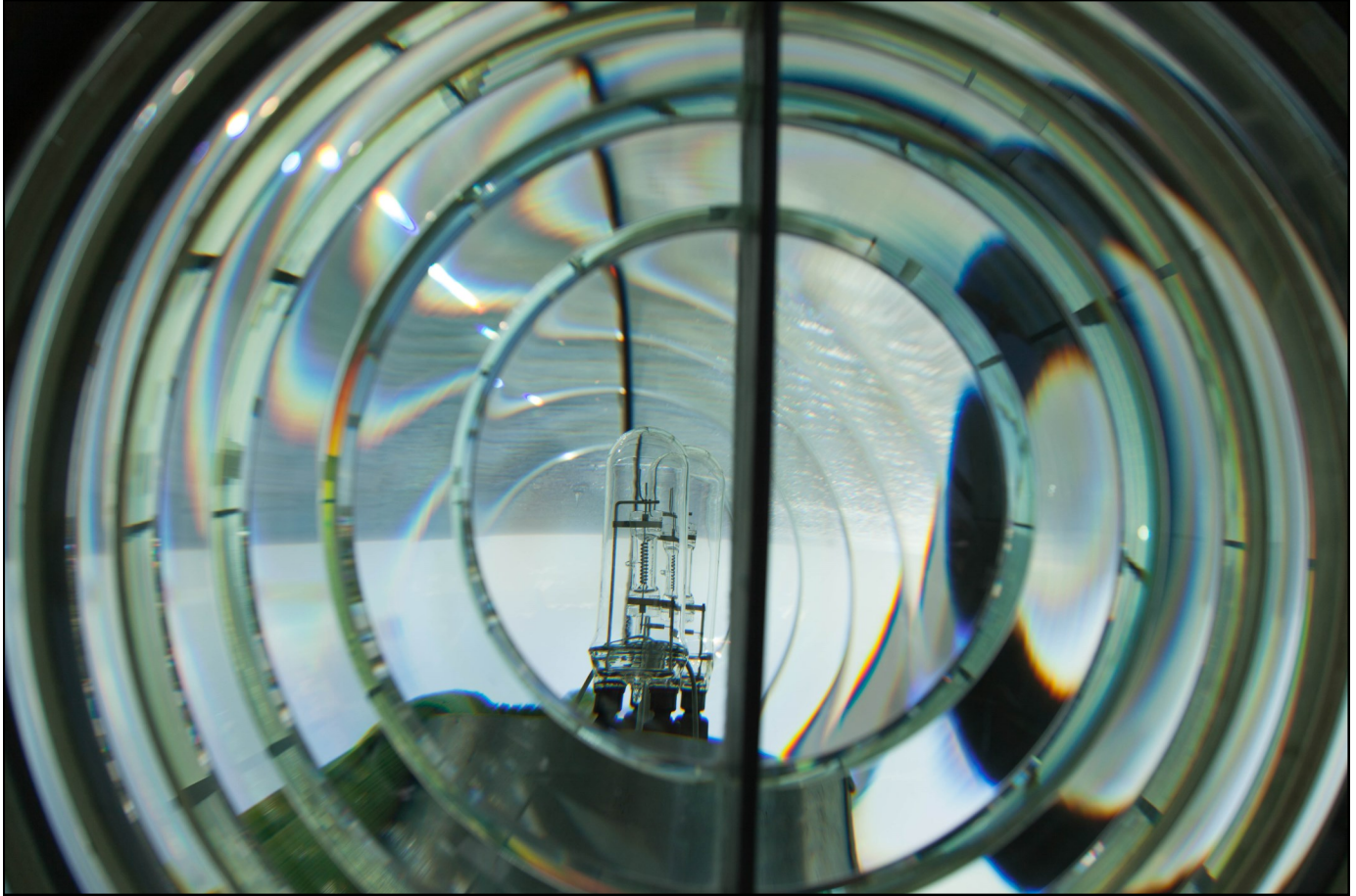
In this life-saving tradition, the dedicated men and women in the Coast Guard continue to perform their mission on our waterways. It is highly fitting to remember these veterans who stand side by side with veterans from other armed services who have served to keep our county safe. ◇

FRESNEL LENS CLEANING

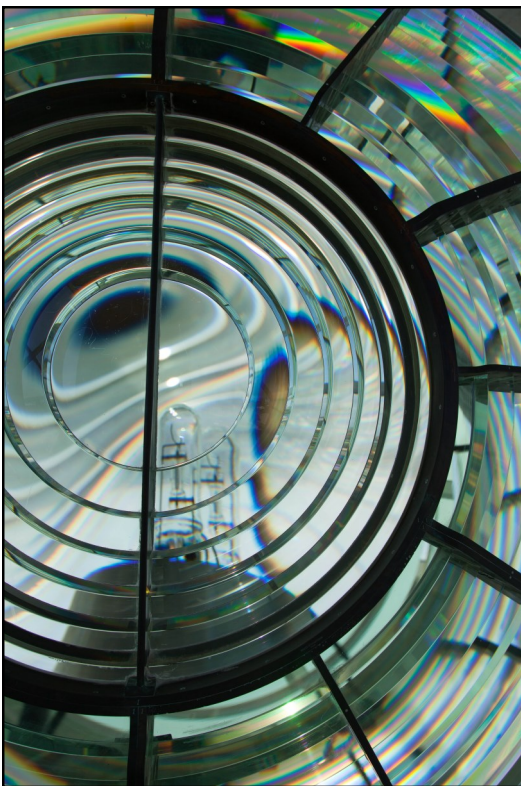


HLPS Volunteer Ken Herman
Cleans the Lighthouse Lens
Source: Ken Herman

FRESNEL LENS CLEANING



FRESNEL LENS CLEANING



FLAT STANLEY VISITS HILLSBORO LIGHT STATION

Part of Global Literacy Project developed in 1995



Flat Stanley is a 1964 children's book written by Jeff Brown (January 1, 1926 – December 3, 2003) and originally illustrated by Tomi Ungerer, featuring a character named Stanley Lambchop. In the book, Stanley Lambchop and his younger brother Arthur are given a big bulletin board by their father to display pictures and posters, which is hung on the wall over Stanley's bed. During the night the board falls from the wall, flattening Stanley in his sleep. He survives and makes the best of his altered state, and soon he is entering locked rooms by sliding under the door, and playing with his younger brother by being used as a kite. One special advantage is that Flat Stanley can now visit his friends by being mailed in an envelope.

In 1995, London, Ontario, Canada third-grade schoolteacher Dale Hubert started The Flat Stanley Project, meant to facilitate literacy and letter-writing by schoolchildren to each other, as they document where Flat Stanley has accompanied them. The Project provides an opportunity for students to make connections with students of other member schools who have signed up with the project. Students begin by reading the book and becoming acquainted with the story, then create paper "Flat Stanleys" (representative drawings of the Stanley Lambchop character), keeping a journal for a few days, documenting the places and activities in which Flat Stanley is involved. Each student's Flat Stanley and its respective journal are mailed to other people who are asked to treat the figure as a visiting guest and add to his journal, then return them both after a period of time.

In 2005, more than 6,500 classes from 48 countries took part in the Flat Stanley Project.

On April 20th, 2013, Flat Stanley visited the Hillsboro Lighthouse, sent to HLPS by a first grader at Hopewell School in South Glastonbury, Connecticut.

Flat Stanley's journal included the following information:

Flat Stanley visited the Hillsboro Lighthouse in Pompano Beach, FL, which sits on a tract of land awarded by the English Crown to Wills Hills, the Earl of Hillsborough, who served as Britain's Secretary of State for the original American Colonies from 1768 to 1772. Hillsboro Beach Inlet, and the Lighthouse all still carry the Earl's name, though the spelling has been shortened a bit.

Flat Stanley found out that the octagonal iron pyramidal tower was built at Russel Wheel & Foundry Co in Detroit, Michigan, and was moved by train and boat to the Florida in 1906, and was first lit on March 7, 1907. The tour guide from the Hillsboro Lighthouse Preservation Society, which keeps the lighthouse in good order, told Flat Stanley that the lighthouse has a second-order bivalve Fresnel lens that emits a light measuring 5.5 megacandelas from 136 feet above sea level.

Flat Stanley had to climb 175 steps on a circular iron staircase to get to the top of the lighthouse, which is still used as a coastal navigational aide and as a support to local water traffic. ◇



MY GUIDES PRODUCES HILLSBORO LIGHTHOUSE ANDROID APP

App narrates a self-guided tour for HLPS

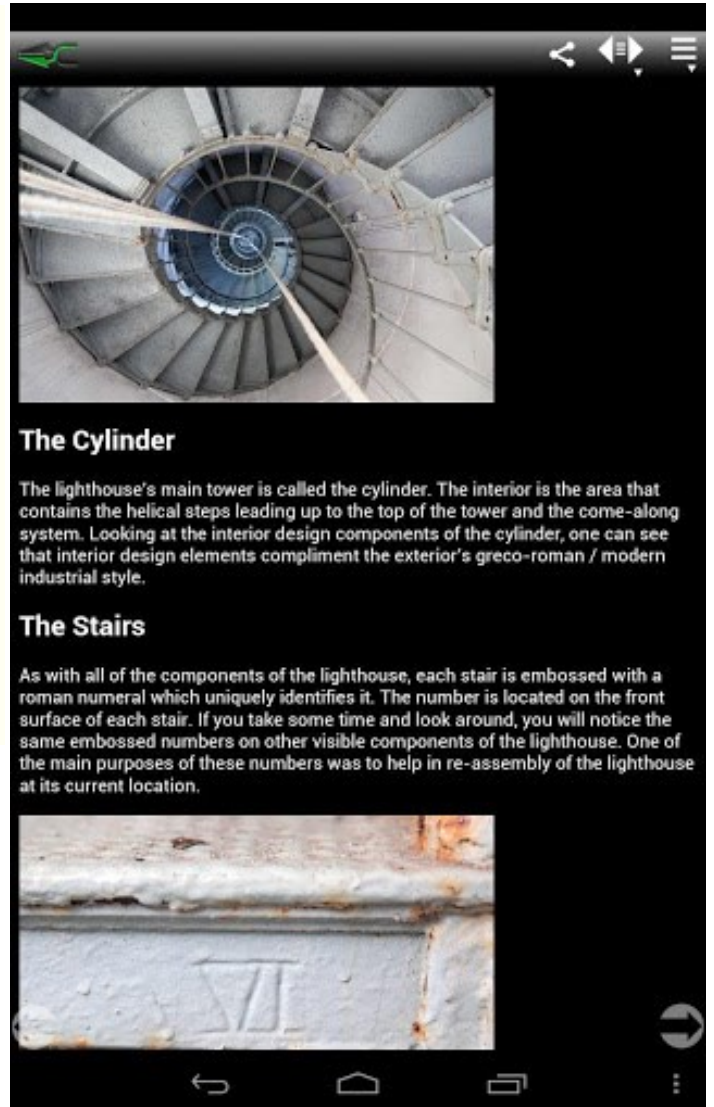
My Guides is a company that brings together a distinctive collaboration of software, museum, marketing, and end-user experiences to create self-guided tours and guides.

Recently, the My Guides team announced the newest release of the Hillsboro Lighthouse Preservation Society Android app that contains three (3) tours:

- The Lighthouse History tour
- The Lighthouse Grounds tour
- The Lighthouse Tower tour

On March 29, 2013, the app was reviewed by *The App Magazine*, parts of which are reprinted below with permission from Jordan Brown.

The Hillsboro lighthouse is one of the most iconic lighthouses in the United States. It towers over one hundred forty two feet above the Hillsboro Inlet in Pompano Beach, Florida. The Hillsboro Lighthouse is truly a remarkable site and the HLPS app for Android by My Guides gives its users very informative and detailed information about the Hillsboro Lighthouse and the surrounding grounds. The app features three different tours including a lighthouse history tour, a lighthouse grounds tour and a lighthouse tower tour. All of the tours



included with the app are designed to be self guided and the user can learn about the Hillsboro Lighthouse at their own pace and time.

The App Magazine Overall Review:

The Hillsboro Lighthouse Preservation Society app by My Guides is a great way for people to learn and take self guided tours of the Hillsboro Lighthouse and grounds. The app is professionally done and the navigation is very clear and easy to understand. Learn about the Hillsboro Lighthouse at your own pace with this very informative and educational travel related application.

The App Magazine Overall Rating: 4.7/5 Stars

Available at Google Play Store.

Website: <http://www.my-guides.com>

Requirements: Available for Android compatible devices.

Requires Android 2.1 and up

Developer: My Guides

Price: FREE! ♦



JUDY KNOEBEL VOLUNTEERS HER EXECUTIVE SKILLS ALMOST EVERY DAY OF THE WEEK AND LOVES THE CHALLENGES

Making a Difference

By Phyllis J. Neuberger – Pompano Pelican Staff

This article is reprinted with permission from The Pelican Newspaper, which was founded in 1993 by Anne Hanby Siren to serve as a source for community news and events.

How does a newly retired, successful business woman spend her free time in a city she barely knows?

Judy Knoebel seems to have found a perfect answer to making new friends while utilizing her talents.

Having spent much of her successful 31-year career with AT&T in New Zealand; Brussels, Belgium; Geneva, Switzerland; and Atlanta,

the manager. The museum is located at 2700 North Ocean Blvd. in Pompano, in a 400 square-foot space that will display more than 100 years' worth of artifacts. There will also be an education room where public programs will be organized. "This is an incredibly exciting time for the Hillsboro Lighthouse Preservation Society as we finally found a place that will allow for our continued growth," said society president Art Makenian.

Knoebel says, "We hope to be open from 9 a.m. to 2 p.m. three days each week if and when I succeed in getting enough volunteers to keep it open.

around the country and like to have their passports stamped as they do so. "We will be showcasing historical artifacts, letters, maps, documents and history of the lighthouse, its keepers and its famous lens. I became involved with this preservation group just two years ago when I helped with data entry. Now I'm a dedicated member of the Hillsboro Lighthouse Preservation Society."

As she began her new life, Knoebel's first volunteer choice was The Bonnett House in Fort Lauderdale, where she has now volunteered for 12 years as a greeter and tour guide.

"As I drive six visitors around in a golf cart type vehicle, they and I enjoy the 37 acres of nature and watching the people and the monkeys," she says.

"Monkeys?" she was asked. With a laugh, Judy responds. "The story goes that there was a monkey bar on the beach in the 50s. When the bar caught fire, the monkeys settled in Birch State Park and the Bonnett House. The monkey population at the Bonnett House is diminishing because of inbreeding and poaching."

Being a history buff, Knoebel was drawn to the Pompano Beach Historical Society where she now has been a member for over 10 years, serving as treasurer for the past seven years. She can be found at the Pompano Green Market from 8 a.m. to 1 p.m., every Saturday. The Historical Society began the Green Market, featuring produce from local farms and home made products, about 10 years ago. Now, the society has a co-sponsor, the CRA and a new location at Cypress and Atlantic where 40 vendors sell their wares every week. Visitors enjoy music, special events and shopping. Judy sits at the Society's table which sells a few historical products from the Society and farm bureau nuts, jellies and jams-all from Florida farms.

She says, "We are currently revitalizing our oral history program to capture the memories

(Continued on page 15)



Judy Knoebel and Mr. Pickle at the Pompano Green Market

Source: Judy Knoebel

GA, choosing to settle down in Pompano Beach meant starting over in a new world.

"Volunteering was a way to make new friends and get the feeling of really living in the area. It works well for me, and like most volunteers, I receive more than I give."

The Pelican interviewed Knoebel when she had just returned from the barely opened, Hillsboro Lighthouse Museum where she is

The Green Market brings smiles to many faces, including volunteer Judy Knoebel's mascot who roams the market on Saturday mornings.

"Just today I had visitors from here and from Minnesota. We will also open by appointment for group visits and for passport stamping." She explains that members of the U.S. Lighthouse Association visit lighthouses

Hillsboro Lighthouse Museum (October 12, 2013)



HILLSBORO LIGHTHOUSE MUSEUM

(Continued from page 1)

The lighthouse museum is located in Pompano Beach's Hillsboro Inlet Park at 2700 N. Ocean Blvd. (A1A) and is just south of the Hillsboro Inlet Bridge on the ocean side of the road. The museum is located on the "back" side of the restrooms building and faces the Inlet and the bridge. The entrance is on the A1A side of the building. Bright yellow signs are posted around the park whenever we are open. Currently a small

contingent of volunteers have been keeping the museum open but we need help to maintain our current hours and to expand to five days a week. Volunteers are needed for either two or four hour sessions on Sunday, Tuesday or Thursdays between 10:00 a.m. and 2:00 p.m. You can request a minimum of two sessions per month and specific schedules. On-the-job training will be provided by existing volunteers and includes welcoming visitors, describing the displays, and answering questions. We have a

Frequently Asked Questions job aide and lots of great reading material.

If you love history and/or lighthouses this is the place for you—even on a quiet day you will enjoy just being there.

Please contact Judy Knoebel, Museum Manager at museum@hillsborolighthouse.org or 954-609-7974, if you are interested in helping at the museum or if you have items to donate. ♡

JUDY KNOEBEL

(Continued from page 13)

of our pioneers before we lose them all. I'm helping by taping interviews. These people are a wonderful resource for early city history."

Dan Hobby, Executive Director of Pompano Beach Historical Society and Sample-McDougald House, says, "Judy is the personification of the saying that if you want to get a job done, give it to a busy person. She is always on the go, from one good cause to another, and when she takes on a task you can be sure that it will be completed. We're extremely fortunate to have her involved with the Pompano Beach Historical Society and the Sample-McDougald House."

Knoebel also sits on the Pompano Beach Historic Preservation Board. She says, "Our main focus is to identify, document, and register historic buildings and places to make sure they don't disappear. We just did the Ali Building and the Fire Museum. The group is also focusing on developing an historic map so that visitors to Pompano Beach can drive around and see each historic site (sic) on the

map. Members meet monthly each bringing input on assigned aspects of the preservation goals."

Still another recipient of this volunteering lady is Insight for the Blind where Knoebel has given over 1,500 hours in the past eight or nine years. "Every Friday morning I'm at the office at 1401 NE 4th Ave. in Fort Lauderdale from 9:30 a.m. to 1:30 p.m. I am a reader and recorder of magazines and books. I also monitor. Whenever I hear people with radio voices, I try to recruit them, and it's satisfying to later hear about their successes at Insight."

Matt Corey, President and CEO of Insight writes, "In the true spirit of volunteer-ism, Judy is always eager and willing to do what will help us the most and does so with a smile. I know that she is involved with many charities, so we feel lucky that Insight is where she shows up every Friday morning at 9:30."

Two years ago, Knoebel was honored for her service and given an engraved medal during Insight's 35 years of producing Talking Books

for the Blind. Insight is the largest all volunteer studio in the United States recording materials for children and adults. Insight has grown from a single booth, recording studio to a facility with six sound recording studios and 13 reviewing booths, recording specified books and magazines in both digital and analog formats requested by the National Library for the Blind, located at the Library of Congress in Washington D.C. To donate or volunteer, call 954-522-5057.

In addition to all of this, Knoebel has written the newsletter for Friends of the Fort Lauderdale Museum of Art for years. She still loves to read to pre-schoolers at Education Station in Beacon Light Shopping Center. This is done in conjunction with the Broward Library System's Prime Time Reading Program. In her limited spare time, this consummate volunteer reads, communicates on the computer and meets with friends for lunch, dinner or book club. Thank you for raising the bar on volunteerism, Judy Knoebel. The things you do for the community make a big difference. ♡

**DID YOU
KNOW...**

The first U.S. lighthouse was built on Little Brewster Island at the entrance to Boston Harbor in 1716. Blown up by The British in 1776, the replacement tower, dating to 1783, still functions as a navigation aid. Known as Boston Harbor Light, it is the only U.S. lighthouse that is still manned.

BAREFOOT MAILMAN STATUE TO BECOME PART OF ARTIFICIAL REEF

Dixie Divers working with City of Deerfield Beach

The original Barefoot Mailman Statue, which sat on the Hillsboro Lighthouse property overlooking Hillsboro Inlet for over 10 years, is finally on its way to becoming a permanent part of a shallow water artificial reef off the coast of Deerfield Beach.

In 1973, the ten foot tall stone statue by artist Frank Varga was erected in front of The Barefoot Mailman restaurant in Hillsboro Beach. When the restaurant went out of business, the town moved the statue in front of the Town Hall. In 2003, the statue was moved to the Hillsboro Inlet Light Station, where it suffered at the hands of Mother

Nature and the occasional vandal. In March 2012, HLPS replaced the 39-year old ailing concrete statue with a permanent bronze version on a granite marker, intending the original to become part of an artificial reef.

Arlton Pavan, owner of Dixie Divers in Deerfield Beach, has moved the statue to his store on Federal Highway as he works with the City of Deerfield Beach on adding the Barefoot Mailman statue to a proposed artificial reef, giving snorkelers the ability to see the statue "drowned" underwater.

Artificial reefs are structures placed on the sea bottom to gather fish, and are typically large,

permanent structures set in rather shallow water, usually made of concrete, metal, and plastic pipes – and lately, with statues. One of the most famous underwater sculpture reefs in the world is the Museo Subacuático de Arte in Cancún, Mexico, which boasts of nearly 500 statues, the first ones placed in 2009, designed and placed in a way that is minimally disruptive to the sea floor and to the surrounding natural reefs. As with all artificial reefs, the hope is that eventually they acquire enough coral, seaweed and algae as a base, ultimately having the coral completely overtaking the statues, leaving only suggestive shapes. ◇

JOHN EVDOKIMOFF, JR. - BOATSWAIN MATE 1

Hillsboro Lighthouse 1959-1961

By Tim Williams

My Dad was John Evdokimoff, Jr. He started with the USCG during WWII and served in the Aleutians when the Japanese occupied some Alaskan Islands. He then served Icebreakers for eight years, and was transferred to the Miami Beach USCG station in the 1950s to command a forty-foot Crash Boat to rescue boaters. When I was 11, my 6' 8" father secretly married my 5' tall mother named Loretta, known to everyone as Tiny, and we lived at the Penthouse of the Regal Hotel of South Beach.

Later we moved to Dodge Island off of the MacArthur Causeway. Going to school was interesting as a Coast Guard Boat picked me up every morning and took me to school at South Beach Elementary on Miami Beach. When the City of Miami took back our lease of Dodge Island so they could make it the Port of Miami, my Dad John was transferred to Hillsboro Inlet Lighthouse and we joined him when the school term was over.

Hillsboro Inlet Lighthouse was the most beautiful place I ever lived. There was a crew of four guys to take care of the facility, monitor the radio room, keep the grounds nice and maintain the light.

Fishing was great! I would walk 100 feet to

the inlet sea wall and scoop up some shrimp for bait, and then I would walk to the beach and catch deep sea fish off the beach. Every day we caught snapper and what we didn't eat, our cats did. I once caught a huge Mako shark, and I also collected thousands of beautiful sea shells.

One other thing about living at the light was the antique phone that we had to crank - it was on the back of the door facing the light. It was fun because we were answered by a lady who always asked how everything was at the light. I once asked her how she knew it was us and she said we had the only phone in the county that still worked that way.

The Commandant of the Coast Guard would often come and stay for a week, arriving with three helicopters and more than a few Philippine servants, who lived in a house by the gate. We played basketball and talked with them in the radio shack while they chatted with people all over the world.

I loved playing host and freeing my Dad up to do his job. I took hundreds of visitors to the top of the light as their guide, and we used to play at the top of the light and often with drops of mercury - which we were told was harmless then!!

Another fun event was sea turtle season - I would patrol the beach to watch for turtles coming ashore to lay their eggs. We always had a couple of dozen each year. I would watch them dig their false holes and then their real nest to lay their eggs. Shadows made the turtles seem large. We were always watching out to prevent poachers of the turtles and their eggs. One time I was even shot at but I protected them. Later we watched when they hatched. Sometimes the baby turtles went west toward the inlet. I would grab thousands of baby turtles on our driveway and throw them off the beach as far as I could so they would get past some of the predators offshore.

In 1960, we didn't have much notice of hurricanes. I went to Pompano Beach Junior High as usual in the morning, and caught the school bus at the boats on the Pompano side of Inlet. I was always first on the bus and last off, so I assisted bus driver. That day, the school let us out a little early due to the weather warning. We reached the bridge and there was a long line of cars and the bridge was closed. I told the bus driver that the tender guy was a friend and he would open the bridge for me. The driver drove up to the

(Continued on page 17)

JOHN EVDOKIMOFF, JR. - BOATSWAIN MATE 1

(Continued from page 16)

bridge in left lane - I told her to let me out - but she insisted in driving me to other side of bridge, so the tender guy moved the bridge for us and let us across - but no one else. I got to the lighthouse to find that everyone east of U.S. 1 had been ordered out of Broward County, and that the entire lighthouse crew had been ordered to Miami, so my Dad and I were the only people left in the area.

Dad had put a big rope from our home to the radio station and another from the radio station to the lighthouse. Hurricane Donna became bad and my Dad feared our house would blow away so we retreated to the radio station by using the ropes. While at the radio station we got a message from Coast Guard headquarters in Miami that the weather instruments on top of the light were not working and we had to fix them immediately. Dad and I pulled ourselves on the rope to the lighthouse in the midst of the hurricane - we were sand blasted the entire time.

When we got to the lighthouse door, with great difficulty, Dad got the door open. Inside the noise was awful as we climbed to the top with some tools - I only climbed half way to the top to hand items to Dad. While on top of the light, we watched a new million dollar glass house built across the inlet just blow away. Then we had to go back in the midst of the storm to the radio shack to see if the fix on the weather instruments was working.

After the Hurricane, we found many changes. The Coast Guard had built a new "hurricane proof" building which we were told we could not move into until the Commandant had commissioned it...it was completely gone. The old (falling down) buildings were still there. Later engineers said the old turn-of-the-century buildings had breathed and thus survived. The dock, which was in eight feet of water was now under sand. Our little bay on the inlet side was gone. The grounds were covered deep in sand.

Dad had to get three estimates for every repair but got everything back to ship-shape. One interesting observation was the bee

hives had survived; however many kinds of local insects were attacking the hives. I told Dad about this and he tried to call the beekeeper but got no response. The insect world conquered the hives as it was the only food around for them.

The following summer we were given just two weeks' notice that we were going to Puerto Rico. We had three generations of cats and had to find homes for the kittens. Our vet called the radio station in Ft. Lauderdale and dozens of folks came for a 'lighthouse kitten' and they were all given away to good homes in one weekend.

Two days before the move we were ordered to go to New London CT, where Dad worked at the Customs House as a Chief Petty Officer. Later he became the first Super Chief in the Coast Guard.

Living at the Hillsboro Lighthouse was the best time of my life. The down side was no other children lived nearby. I became good friends with the boat captains across the inlet and many in the community. ♡

NEW MEMBERS & RENEWALS

Acosta Family
Adams, Joshua
Ado, Harriet
Agvi, Sharon
Ahimsa, Ret
Albin Family
Aldrich Family
Alexander, Family
Allen Family
Amato, Jeanne
Anderson, Michael
Ara Family
Arcila Family
Arena, Kenneth *
Arial, Jean-Marie
Arndt Family
Atary, Podberesei
Atkinson Family
Austin Family
Auten Family
Bailey, Glenda
Band, William
Barr, John & Judy
Barras Family
Barrett Family
Barrix, Dr. Scott C.
Bartholomew Family

Bayley, Jim & Kay
Bean, David *
Beauchamp Family
Belanger, Roger & Patricia
Benias Family
Benitez Family
Beran Family
Besore, Alan
Bettner, Steven & Jean
Bienkowski Family
Binder Family
Bircher Family
Bishop-Mora Family
Blough, Sue S.
Blount Family
Bohan, Gregory T.
Booty Family
Bopp, Terry & Kathryn
Bowling, John & Marilyn
Boyle Family
Bradley, William
Brassord Family
Braswell, Don & Pam
Braucher, Eileen(DAR)+
Brede, Kenyon & Karen
Briggs, Marie
Brohammer Family

Brooks, Charles & Ruthie
Brubaker, Gail
Buenner Family
Bujnicki Family
Bundy Family
Bunting Family
Buquo Family
Burch, Nancy
Burkett, Pat & Jackie
Burrows, Roland
Bustetter Family
Butts, Bonnie
Caliste Family
Campbell, Keith*
Campbell, Mr. & Mrs. Richard
Camphire Family
Cangiano, Joe & Susie
Canzio, Lynne
Capablanca, Mr. & Mrs. Fernando
Capocefalo Family
Cardenas, America
Carley, Shirley
Carney, Chad
Caslavsky Family
Casper, Dawn
Castro, William & Elvira
Catanese Family

Cerez, Hilda
Chaplin, Carrie
Chapman, Steve & Libby
Charles, John
Chavez, Albert
Christo, Antoinette
Christos Family
Chromik, James
Clark Family
Cleary, Scott
Cleveland Family
Clifford Family
Cline, Daniel & Debra*
Coatti, Aldino & Kristine
Cochran, Tom
Coffin, Elie
Cohen, Jeffrey & Marilyn
Coleman, Martin E.
Coleman, Mr. & Mrs. Forrest
Collins, Family
Columbo Family
Congdon, Jane
Connolly, Patrick
Connor, Chris
Cornelius Family
Corsin Family
Corson, Scot & Tracee

NEW MEMBERS & RENEWALS

Cotton Family	Fulton Family	Ingles, Joe & Briana	Lusk, Diane
Cottrell Family	Galanska Family	Iwasz Family	Lynch Family
Couch Family	Giles, Doug & Linda*	Jaspert, Mark & Valerie	MacIntyre Family
Craig, Dr. James & Roberta	Goebel, Jacklyn Sue	Jenkins Family	Majewski, Patricia
Crandall Family	Goebel, Sue	Jennette ,Jason	Maljean Family
Creber Family	Goldfarb, Jill	Jenofsky, Chad	Mari Family
Creighton, Pete	Gonzalez Family	Jensen, Lisa	Marks Family
Crenshaw, Ken & Dianne	Gonzalez, Deborah	Johnson, Carlita	Marsdew Family
Csulak Family	Gordon, Nanette	Johnson, Dale & Pat	Marsh Family
Culley, John	Gosa Family	Johnson, David & Leticia	Martell, Richard
Czocher, Jim & Joyce	Gragg Family	Johnson, Marvin	Martin Family
Dailey, John & Beth	Green, Janet	Johnson, Scott	Martin, James
Dalsimer, John & Dianne	Green, Patricia	Kanji, Amin & Fahra	Mason-Largey Family
Dalton Family	Greenburg, Dr. Larry	Kaplan, Mr. & Mrs. Drew	Massey Family
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Darby Family	Griffeth Family	Kasprzak Family	Maxson, Lindsey
Davis, Larry	Grogan, W.R.	Kebe Family	May Family
Desjean Family	Gruenbaum Family	Kendall, Margaret	Mc Clung Family
Diaz Family	Grundler Family	Kennemer Family	Mc Kernen, Ray & Donna
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Dodge, Daniel R.	Gujarathi Family	Kiene Family	McGinn, John
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Domashinski Family	Haheer, Grace	King, Susan	McHolme, Bonnie
Dominquez Family	Hale, Priscilla Curry	Kissel, Tom	McKay Family
Dones Family	Hamel Family	Kliza, Nancy & Gary	McShane Family
Donn, Karen	Hamilton, Jeffrey & Mary Lou	Kloft Family	Mechutan, Douglas
Drake Family	Han, Dongho	Knight, Bob	Meier Family
Drouillard Family	Hanley, Peter	Knupp Family	Meisel Family
Dughi Family	Hanna, Nancy	Kohler Family	Melbourne, John
Dulac Family	Hans, Steve & Deborah	Konen, Karen	Meleski, William
Dunn, Karen	Harker Family	Korte Family	Menagh Family
Duva Family	Harris Family	Kraft, Brandy	Merritt, Norm & Jane
Dwyer, George & Debbie	Hassett Family	Kramer Family	Michaelian Family
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Ecker, Ron & Chris	Heitzler, Dean & Betty	Kreitzer, Barbara	Mills, Bob & Sharon
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Enfield Family	Hicks, Kathy	Lace Family	Mooney, Tristin*
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Ewen, Alicia R.	Hitt Family	Landers Family	Morejon Family
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Fardette, Carol	Hoerter Family	Langford Family	Morgan, David
Fardette, Petrine	Hoffman Family	Langston Family	Morgenthien, Maureen
Fennell Family	Hoffman, David	Larsen, Linda	Moriarty, Michael
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Freed Family	Hurwitz Family	Lopez Family	Murphy, Deb
Friedman Family	Hynes, Susan & John	Loree Family	Murphy, Joseph & Lisa
Fujimoto Family	Imon Family	Lubbers Family	Murphy, Sam & Wanda

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Murray, Rob & Joann	Reddy Family	Silverstein, Ruby	Valentini Family
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Nunez Family	Riehl, Heidi	Smith, Mr. & Mrs. Jason	Vo Family
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O'Neill Family	Robards Family	Smith, Roger	Vones Family
Olender Family	Roberts, Roger	Smith, Steve	Voyle Family
Olsen, Craig	Rodormer, George & Doris	Smith, Trey	Wade Family
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Pitt Mr. & Mrs. William	Schechner Family	Suggs Family*	Wilson, William
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Raines, Andrew	Shutt Family	Unger, Michael	* Business Membership
			** Life Members

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Carey, William	Fox, Sharon	King, Norm	Schwab, Thomas
Eaton, Ernest	Gabrielle, Mark	Loeb, Leanore	Seitel, Linda
Ecker, Ronald	Golly, Timothy J.	Noderer, Dave	Verra-Tirado, Monica
Ford, Dan	Hoczak, Stephen	Rabozzi, Ro	Wolf, Barbara



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Hillsboro Lighthouse was pleased to meet 98 year-old Florence Clinton Simpson of Covington, Virginia at the August 2013 tour. Mrs. Clinton-Simpson has been collecting lighthouses for years but this was her first in-person lighthouse visit.