

# BIG DIAMOND

HILLSBORO  
LIGHTHOUSE  
PRESERVATION  
SOCIETY

December 2014  
Volume 17, Number 2

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## DAUGHTERS OF THE AMERICAN REVOLUTION DEDICATE MARKER

### *Hillsboro Inlet Light Station now a National Monument*

By Kim Zeman, co-Chairman of Historic Preservation for Daughters of the American Revolution

On Saturday, August 9, 2014, the Lighthouse Point Chapter, Daughters of the American Revolution (DAR) dedicated a historic marker honoring the Hillsboro Inlet Light Station.

The marker was placed in the Hillsboro Inlet Park at 2700 N. Ocean Boulevard (A1A) in Pompano Beach. The dedication ceremony was attended by 150-plus people.

The colors were presented by the Naval Sea Cadets Team Spruance, led by Lt. Cmdr. Allen Starr, Pam Smith-Gondek, State Chairman Flag of the United States of America, led the pledge of allegiance and Mary Allen, mezzo soprano, State Chairman Women's Issues, sang the National Anthem.

Speakers included Lighthouse Point DAR Chapter Regent Kristin Barclay,

Florida State Society Regent Cynthia Symanek, Pompano Beach Vice-Mayor George Brummer and U.S. Coast Guard 7th District Chief of Staff Captain Melissa Bert, who informed us that many lighthouse keepers had been women. The 7th District has jurisdiction over the Lighthouse and its grounds.

*(Continued on page 4)*

## UNTOLD STORY OF THE HILLSBORO LIGHTHOUSE – PART 3

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

*The 1996 Parsons engineering report of Fairfax, Virginia to the Coast Guard 7th District recommended removing the classic lens from the Hillsboro Lighthouse and placing it in a museum in Fort Lauderdale. That plan never materialized. On February 28, 1999 a newly installed bearing failure demoralized not only the Auxiliary Volunteers, but also the Coast Guard personnel in charge of the lighthouse's 1998 rehabilitation project, and also the newly formed Preservation Society founders Harry Cushing and David Butler.*

### **What really happened?**

By Art Makenian, HLPS President

We all knew the lack of integrity of the failed bearing - we were also aware of the design flaws and construction deficiencies - but to fail so soon surprised us all. Emotions were set aside in so far as there was a lot of money and labor spent by the Coast Guard to

make this failed classic Fresnel lens operational. Based on experience and technical knowledge of both David Butler and myself, I knew that the Fresnel lens could be operating again with relatively very little funds. We both agreed to come up with a plan to

present to the Commanding Officer of the Coast Guard Civil Engineering Unit (CEU Miami), CDR Dale Walker, and LT Scott Wagner, the Coast Guard engineer in charge of the lighthouse renovation

*(Continued on page 6)*

## 2015 TOUR DATES

HLPS announces first  
-ever Sunday dates  
as part of 2015  
lighthouse tour  
schedule!!

**See Page 3**

## FROM THE PRESIDENT

Since last April, we have faced many challenges including meetings and negotiations in signing contracts, agreements and licenses. I am pleased to say that everything agreed upon and signed was in favor of lighthouse improvement, our members and the general public's interest. Our new Coast Guard license is now extended through 2019, which includes 12 public tours a year, unlimited private tours and special events.

On the financial side, four of the municipalities surrounding the Hillsboro Inlet have agreed to share our yearly reoccurring expenses to allow us to spend more on lighthouse renovation and preservation. This came at a very appropriate time when the State of Florida Bureau of Historic Preservation announced that our request for a grant for \$50,000 was approved as a matching grant for the 2015 fiscal year. The grant is specifically earmarked to replace the damaged glazing in the lantern room. Although our portion of the matching grant could be in volunteer labor form, still at least 12% of the total amount must be in liquid assets or cash. The cities of Pompano Beach and Lighthouse Point, and the towns of Lauderdale by the Sea and Hillsboro Beach equally approved \$4,200 from their 2015 fiscal year budget.

As a first for the Hillsboro Lighthouse, we are undertaking a huge task by replacing all the damaged and non-authentic and temporarily installed diamond-shaped glass panes in the lantern room, which will be retrofitted without interrupting the daily lighthouse operation. All the suppliers for this huge renovation will be from local merchants.

Your Preservation Society is fully committed to restore this light and keep it operational for at least another one hundred years.

Anyone who would like to volunteer to be part of this historic team and enjoy a sense of civic accomplishment, please email us at [info@hillsborolighthouse.org](mailto:info@hillsborolighthouse.org). Have a happy holiday season and hope to see each of you on one of our tour dates next year.

*Art Makenian*



Lighthouse Relighting Team from "What Really Happened" Story on Page 1

(L to R): Joseph G. Poses, Jerry S. Edelman, Dr. Arthur Hockey, John B. Deam, Dr. Don Traphagen, Arthur A. Makenian.  
Missing: Seymour Skip Gross

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.

### OFFICERS & BOARD

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[president@hillsborolighthouse.org](mailto:president@hillsborolighthouse.org)

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Director/Editor  
[editor@hillsborolighthouse.org](mailto:editor@hillsborolighthouse.org)

=====

**Edward J. Chandler, Esq.**  
Counsel

### STAFF VOLUNTEERS

**Hibbard "Hib" Casselberry**  
President Emeritus/Historian  
[historian@hillsborolighthouse.org](mailto:historian@hillsborolighthouse.org)

**Judy Knoebel**  
Museum Coordinator  
[museum@hillsborolighthouse.org](mailto:museum@hillsborolighthouse.org)

**Ken Herman / Stephen Hoczak**  
HLPS Web Masters

**Jennifer Burns**  
Media Coordinator  
[media@hillsborolighthouse.org](mailto:media@hillsborolighthouse.org)

# HLPS ANNOUNCES 2015 HILLSBORO LIGHT STATION TOUR SCHEDULE

## Sunday Tour Dates added as part of expanded 2015 Schedule

An expanded schedule of Hillsboro Lighthouse Tours is on tap for 2015, including three first-ever Sunday tour dates.

Hillsboro Lighthouse Preservation Society, now in charge of maintenance of the 107-year old light, has signed an agreement with the U.S. Coast Guard to offer lighthouse lovers of all ages access to the Hillsboro Lighthouse beginning with the first tour on Sunday, January 11, 2015.

Future dates are scheduled for the light station in support of Florida Lighthouse Day (April), National Safe Boating Week (May) and Barefoot Mailman Remembrance Day (October).

Issuing a statement to confirm the dates, HLPS President Art Makenian said, "We're very proud to expand our tour schedule to showcase the Hillsboro Lighthouse twelve times in 2015, and are excited to offer Sunday tours for the first time in HLPS' 17-year history. Since the USCG ceded maintenance to us, our member-volunteers have worked tirelessly to improve the condition of the lighthouse that we all love."

The lighthouse is only accessible by tour boat, and tour boats will be leaving from two locations depending on the specific tour date – Sands Harbor Resort and Marina, located at 125 N. Riverside Drive in Pompano Beach or the William J. Alsdorf Boat Launching Park, located at 2974 NE 14th Street, also in Pompano Beach.

All dates and times, and the tour boat location are subject to change, including cancellation due to inclement weather. Updates to the schedule can be found at HLPS web site at [www.hillsborolighthouse.org/tours](http://www.hillsborolighthouse.org/tours).

| Date **               | Tour Boat Dock      | Sailing Times |        |         |         |         |        |        |        |
|-----------------------|---------------------|---------------|--------|---------|---------|---------|--------|--------|--------|
| Sunday January 11     | Alsdorf Park        | 8:30am        | 9:30am | 10:30am | 11:30am |         |        |        |        |
| Saturday February 7   | Sands Harbor Resort | 8:30am        | 9:30am | 10:30am | 11:30am | 12:30pm | 1:30pm | 2:30pm | 3:30pm |
| Saturday March 7      | Sands Harbor Resort | 8:30am        | 9:30am | 10:30am | 11:30am | 12:30pm | 1:30pm | 2:30pm | 3:30pm |
| Saturday April 18     | Sands Harbor Resort | 8:30am        | 9:30am | 10:30am | 11:30am | 12:30pm | 1:30pm | 2:30pm | 3:30pm |
| Saturday May 9        | Sands Harbor Resort | 8:30am        | 9:30am | 10:30am | 11:30am | 12:30pm | 1:30pm | 2:30pm | 3:30pm |
| Sunday June 7         | Alsdorf Park        | 8:30am        | 9:30am | 10:30am | 11:30am |         |        |        |        |
| Saturday July 11      | Sands Harbor Resort | 8:30am        | 9:30am | 10:30am | 11:30am |         |        |        |        |
| Saturday August 8     | Sands Harbor Resort | 8:30am        | 9:30am | 10:30am | 11:30am | 12:30pm | 1:30pm | 2:30pm | 3:30pm |
| Saturday September 12 | Sands Harbor Resort | 8:30am        | 9:30am | 10:30am | 11:30am |         |        |        |        |
| Saturday October 10   | Sands Harbor Resort | 8:30am        | 9:30am | 10:30am | 11:30am | 12:30pm | 1:30pm | 2:30pm | 3:30pm |
| Sunday November 8     | Alsdorf Park        | 8:30am        | 9:30am | 10:30am | 11:30am |         |        |        |        |
| Saturday December 5   | Sands Harbor Resort | 8:30am        | 9:30am | 10:30am | 11:30am |         |        |        |        |

\*\* March 7 is the 108th Anniversary of Hillsboro Lighthouse, April 18 is Florida Lighthouse Day, May 9 is in recognition of National Safe Boating Week, August 8 is National Lighthouse Preservation Day and October 10 is Barefoot Mailman Remembrance Day.



[www.facebook.com/hillsborolighthouse](http://www.facebook.com/hillsborolighthouse)



## DAR DEDICATION MARKER

*(Continued from page 1)*

In addition to a brief history of the Lighthouse given by DAR Florida State Society Historian Carol Sullo, letters and proclamations from the office of the President General, National Society, DAR, Florida Governor Rick Scott, Florida Senators Bill Nelson and Marco Rubio and Pompano Beach Mayor Lamar Fisher were read by Chapter Historian Megann Brauer and State 2nd Vice Regent Dawn Lemongello.

A check for \$500 was presented to the Hillsboro Lighthouse Preservation Society (HLPS) President Arthur Makenian on behalf of the Lighthouse Point Chapter by DAR Treasurer Eileen Brauer.

"I'd like to thank the City of Pompano Beach

for being such a staunch supporter of our endeavors," said Makenian, an engineer, and president of the Hillsboro Lighthouse Preservation Society. The past commander of Coast Guard Flotilla 36 in Boca Raton, Makenian recruited a group of retired engineers and one retired physician to dismantle and renovate the massive lens long before the Daughters of the American Revolution decided to put it on a national map. "I want to assure you," he added, "the light still comes on every night."

Kim Zeman, Chapter Registrar and co-Chairman of Historic Preservation, served as Mistress of Ceremonies and thanked all of those who contributed to making this marker a reality. Kathleen Dempsey, Curator and co-Chairman of Historic Preservation also presided over the ceremony, along with

Chapter Chaplain Joel Hursting. The marker was blessed by Fr. Bernard Pecaro, Rector St. Martin Episcopal Church and member of U.S. Navy Chaplain Corps Reserve.

Following the ceremony, cookies and punch were served at the HLPS Lighthouse Museum located in the park, and guests were shuttled to the lighthouse grounds by boat and treated to a very nice luncheon at a historic keeper's cottage. Lunch consisted of tea sandwiches, sausage and cheese, crudités and other fare along with mini cupcakes for dessert and beverages. Sarah O'Connor served as the hostess committee chairman. Guests were also able to tour the grounds, climb the stairs to the top of the lighthouse for the stunning view, visit the Barefoot Mailman statue and

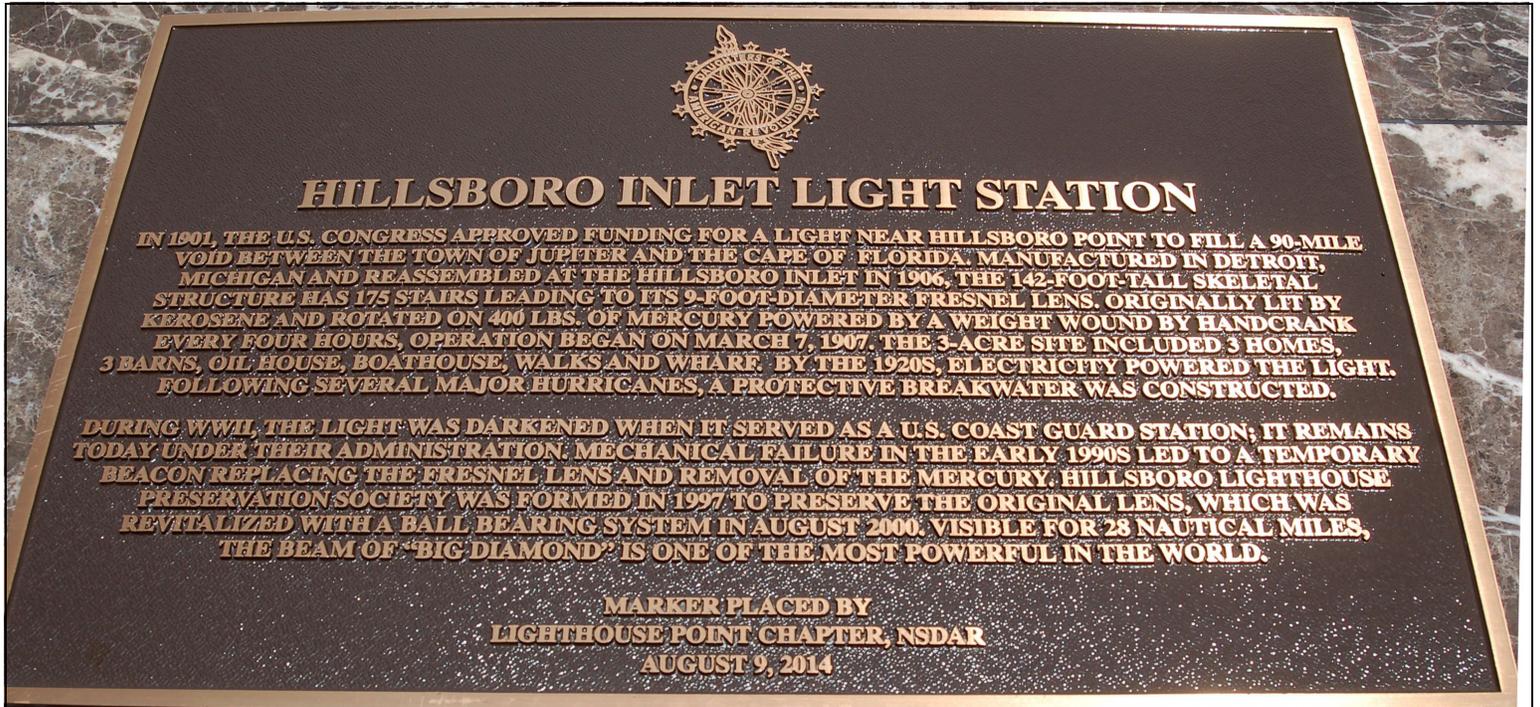
*(Continued on page 5)*



Kim Zeman, co-Chairman of Historic Preservation for DAR and USCG 7th District Chief of Staff Captain Melissa Bert

Source: DAR

### DAR DEDICATION MARKER



(Continued from page 4)

hear about the mail's historic journey through this area and see the commemorative brick patio. All who attended were most impressed with the events of the day.

Members of the Lighthouse Point Chapter of the DAR spearheaded the year-long project for approval of the marker which was sanctioned by the National Society of the DAR. This national historic recognition was accomplished with the cooperation of Pompano Beach city officials, local historians, the U.S. Coast Guard, and the Hillsboro Lighthouse Preservation Society.

The DAR is a national non-sectarian, non-political, non-profit service organization based on an ancestor's patriotic service in the American Revolution. Members foster education, patriotism, service to veterans and support of active duty troops, and historic preservation. The chapter name and its symbol are derived from the historic Hillsboro Lighthouse, also known as "The Big Diamond." DAR membership information is available by emailing Kim Zeman at [KimZDAR@yahoo.com](mailto:KimZDAR@yahoo.com) or by calling (954) 614-1715.



## UNTOLD STORY OF THE HILLSBORO LIGHTHOUSE – PART 3

*(Continued from page 1)*

project. After consulting with the Aids to Navigation (ANT) Miami Chief Dennis Dever with our plan, David started his search for a 60-inch diameter thrust bearing that would fit into the existing mercury cast iron trough. I in turn started to explore the possibility of disassembling the French built lens rotating mechanism weighing over 4.5 metric tons built by Barbier Bennard et Turren over one hundred years ago. This task was essential to have a 60-inch one-piece bearing installed in the existing mercury reservoir.

Once again we successfully convinced the officers of CEU Miami of our plans, and we even agreed further in assuming total responsibility of finding an off-the-shelf commercial bearing or designing a new custom built ball bearing and installing it in the trough at a reasonable cost.

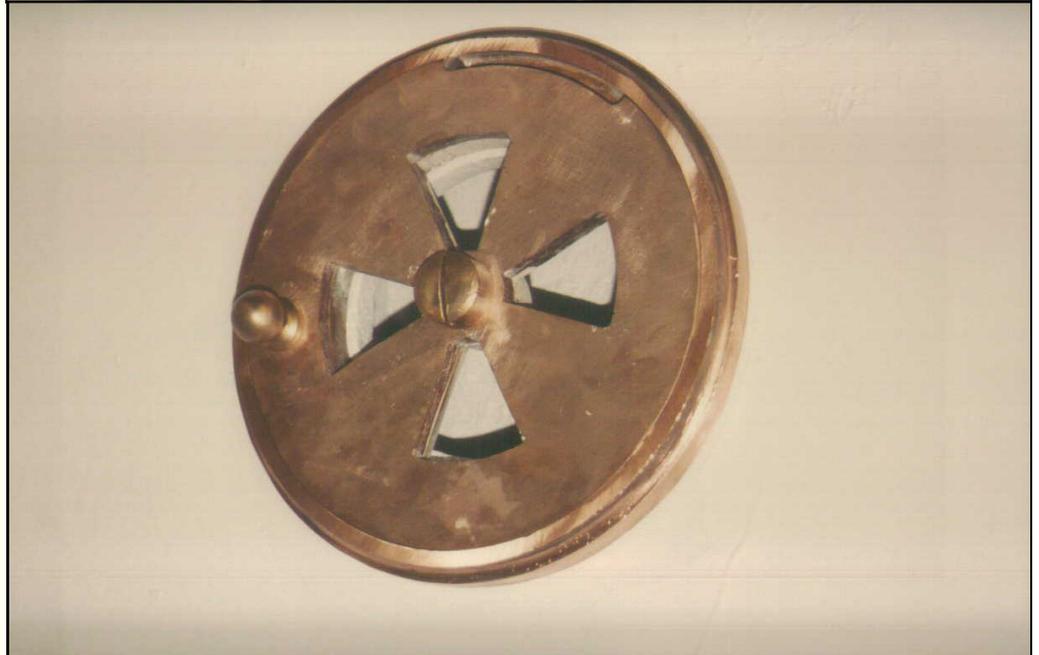
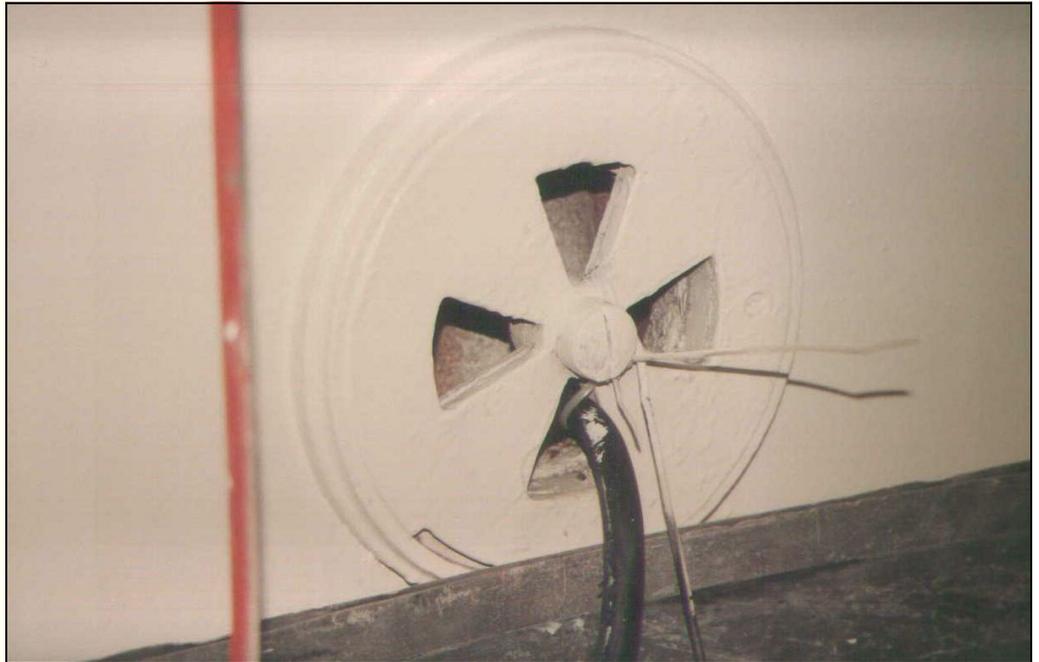
In March 1999, the failed bearing races were removed and inspected closely for the reason of failure. Clearly the V groove concept of the races having all thirty-six 1.5 inch balls overstressed a minimal point of contact, which created a scorching pattern. There was also strong evidence that the races were not hardened and tempered after machining. The Teflon caging had also failed, creating Teflon particles that interfered in the race groove surfaces and ball contact. All failed bearing parts were shipped back to Coast Guard Group/ICS Miami Beach. The lighthouse watch room was full of disassembled rotating mechanism parts, tools and components. Our Coast Guard Auxiliary team was willing to continue their productivity by stripping multi layers of paint from solid bronze components in the watch room, and polishing them back to their original bright bronze shine.

While that was going on, David and I were busy exploring a half-dozen different commercial bearing manufacturers. It was

on May 14, 1999 when David Butler received a letter from a field District Sales Engineer Edgar San Jose that Torrington Bearing Company had a 60-inch thrust ball bearing on their production line used for the giant General Electric windmill generators.

This prompted David to ask Edgar for a faxed drawing of that subject bearing. I still remember David's call the next morning. He rushed to the lighthouse to show me the fax and the specifications of the bearing. The

*(Continued on page 7)*



Before and after pictures of air vents

Source: HLPS

## UNTOLD STORY OF THE HILLSBORO LIGHTHOUSE – PART 3

*(Continued from page 6)*

size of the Torrington bearing was an axial load ball bearing, but it fit just perfectly into the center of our mercury trough, with the 3.5 inch height to be dealt with at a later date. This new offer from Torrington prompted us to call and request a meeting with CDR Walker and LT Wagner at CEU Miami. That meeting took place on May 17, 1999, at 10:00 AM. Present at that meeting were five of us, including Chief Dever.



Making do with household tools while trying to repair the lighthouse  
Source: Art Makenian

We all agreed during that meeting that I would start further disassembling and dropping the heavy trough and the vertical drive shaft, while David would build a Plywood Styrofoam model of the bearing in his garage. If David's model fit between the frame posts, then the Coast Guard would place a purchase order to Torrington.

Planning to take apart rusted steel and cast iron heavy pieces put together in 1906 (96 years previous at that time), and weighing anywhere from 200 to 1,000 pounds was a difficult task. To make it even more difficult, it was located 125 feet above ground level at the top of 175 steps, so only small primitive hand tools could be carried up.

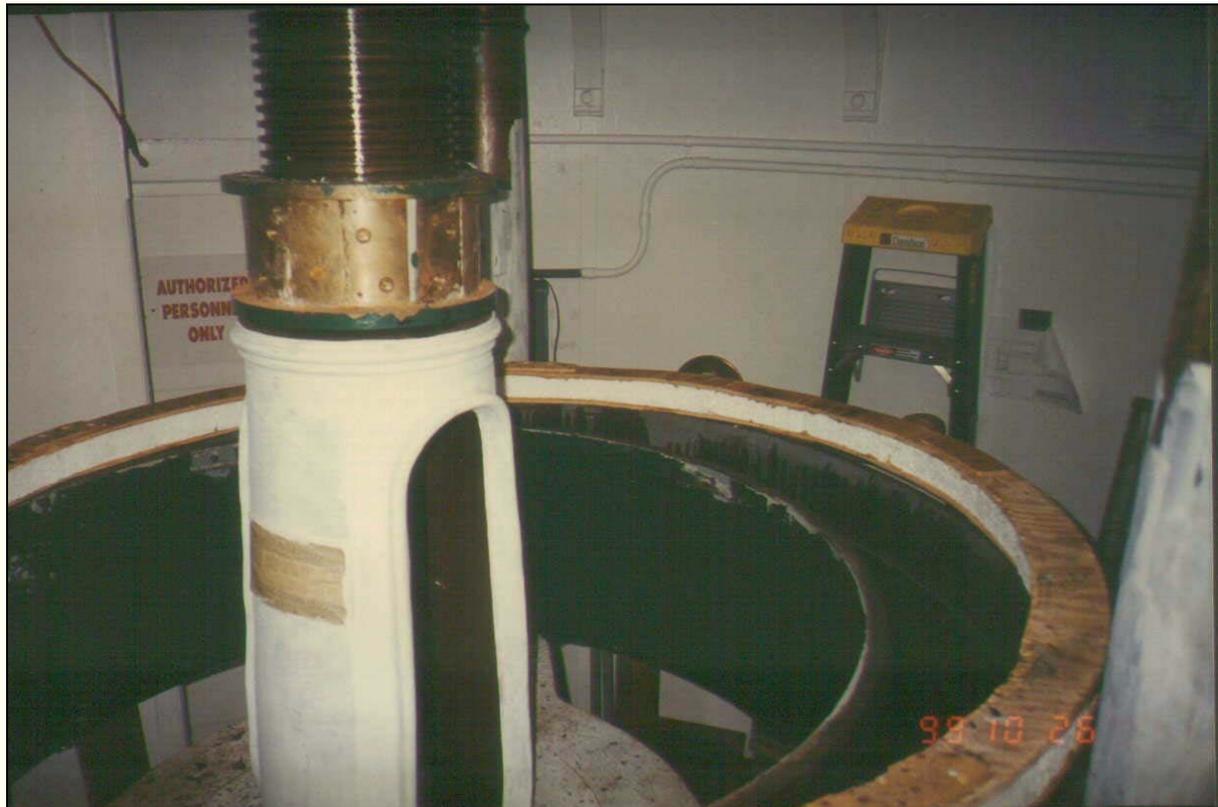
It was June 1, and the south Florida summer heat was affecting the productivity of our six retired Coast Guard Auxiliary volunteers as the temperature at mid-day in the lantern room was reaching above 115 degrees, but our volunteer team was determined to have the light fixed - this time permanently. By cutting work days to four hours, it made the work environment more tolerable, and yet somehow, despite the heat, all of us kept looking forward to the next day to get together and go back to work. Before the month of June was over, David's Plywood/Styrofoam model fit in the trough as planned with only one inch of space to spare between the frame posts of the superstructure.

Now that all of our self requirements were met, on August 9, 1999, David and I officially requested from the Coast Guard to purchase the Torrington bearing. It took the Coast Guard two weeks to have the approvals, and on August 20, 1999, an order was placed with Torrington Company, for a P/N U4339-A bearing, at a price of \$19,538.00, to be delivered in 12 to 14 weeks.

While waiting for the bearing to be delivered, the Auxiliary team undertook the task of stripping the original paint down to the bare metal of the French-built turning mechanism. After applying a lead-free base primer, several coats of high quality industrial enamel paint were applied that matched the original factory green colors of 1906.

The new bearing arrived in Miami Beach from Charlotte, North Carolina

*(Continued on page 8)*



Model of the replacement bearing  
Source: Art Makenian

## UNTOLD STORY OF THE HILLSBORO LIGHTHOUSE – PART 3

*(Continued from page 7)*

on November 15, 1999. ANT Miami Chief Dennis Dever wasted no time in loading the crate in the back of his truck the next day, bringing it over to the lighthouse. Here we were - six senior citizens watching Chief Santa unloading the big toy from his truck - it

Each 60-inch diameter bearing race weighed over 200 pounds, - much wider than the spiral stairway center opening to the top of the lighthouse, and hoisting it up from the inside of the lighthouse was out of question due to the weight. The only other choice left to us was to hoist all three rings externally as we had done before - and we knew what it

process by handling a tether line from the ground. He not only accepted to help, but he offered his son-in-law to handle the opposite side tether line.

When the third and final bronze caging ring was going through the hoisting process, the rope attached to the hoisting truck hitch came loose about mid-elevation, and the caging fell down to the ground. The bronze caging was twisted and buckled beyond repair.

There were at least sixteen people present when that ring hit the ground.

In spite of being in a state of shock, I still managed to look at all the faces there surrounding me - they all looked back at me but nobody knew what to say. Since this was a serious incident, and I was in charge of the operation, I felt obliged to continue the administrative process of writing an incident report.

Not to forget, the Chief of Staff of District Seven of US Coast Guard witnessed everything from a front row seat. Later that day, Captain and Mrs. Annette Yarbrough came over and told me not to worry, and that he would make sure that another bronze caging would be ordered immediately. That kind and considerate offer helped soften my troubled mind.

Comparing the shock of the first bearing failure, this was even worse, since a new bronze caging could take several months to be remanufactured and delivered. Torrington promptly came up with an offer for a new bronze caging for \$8,500 to be delivered in 10 weeks.

The new bronze caging arrived sometime in March, but by now BMCS Dennis Dever, our dear friend and mentor, had gone to his new assignment in Cape May, New Jersey. Our volunteer team knew that without Chief Dever's vision, none of us would be here working to save the Hillsboro Inlet Lighthouse from darkness. The new officer in charge of ANT Miami now was BMC Hilary "Eddy" Lawrence, who supported our team's

*(Continued on page 9)*



Bearing arrival  
Source: Art Makenian

was like a Christmas morning with a brand new toy.

Immediately, the bearing was unpacked and inspected for shipping damages. At a glance, anyone could tell that this was a quality-built product. The Torrington bearing consisted of an upper race with a highly polished spherical groove, a solid bronze center caging with ball retaining holes, and a lower race with a highly polished spherical groove. Thirty chromium bright balls, two inches in diameter, were packed in a separate box and completed the assembly. The bearing would be submerged in a special synthetic high viscosity oil lubricant.

1999 was coming to an end - we were now in mid-November - and our optimistic team was entertaining the idea to have the light operating by Christmas or the New Year. But, that was only a wishful thinking.

took to do it. Making things easier was the fact that the necessary blocks, pulleys and ropes were still present from the first failed bearing installation! However, since this task required more physically fit labor, I requested from the Chief to have his assistance during the hoisting and the installation phase. Chief Dever brought five members of his ANT team to supplement our six volunteers, and together we hoisted both heavy bearing races successfully to the top gallery.

The Chief of Staff of USCG District Seven, Captain Larry Yarbrough and his family were staying in the #2 Lighthouse Keeper's Cottage that week, while all this mid-morning hoisting was taking place, and we were pleased to have a captive audience on the scene. Being short of manpower, I asked this kind man (not knowing who he was), if he could assist us in the bearing hoisting

# UNTOLD STORY OF THE HILLSBORO LIGHTHOUSE – PART 3

(Continued from page 8)

endeavors for many years to come.

The installation of the new Torrington bearing continued through mid May. Since this was a new experience to all of us, including the Coast Guard and the suppliers, several pre-planned specifications had to be rewritten or modified to accommodate the new prevailing conditions. For example, the specified lubricating oil viscosity was so dense that the drive motor could not keep up with the additional torque required to rotate the lens. It took us an additional three weeks to drain 50% of the synthetic oil and dilute it down with compatible, but thinner viscosity oil, accomplished only by coordinating with Mobil Oil engineers, Torrington and CG-CEU. The compatible synthetic thinner viscosity diluting oil had to be special ordered all the way from Alabama.

In mid-June we were ready to give a full load test to the new bearing at least for two weeks. And the lens was continually rotated without the light coming on. Having done that, once again we dropped the mercury trough to physically check the condition of the new bearing. Since the bearing was drowned in oil, our visual check was limited, so we took a small amount of oil sample and send it to Mobil Oil Co. lab for metal content analysis. One week later, I received the results of the test confirming to no metal (PPM) particles content.

The 4th of July was only a week away, and we all had agreed to bring the Hillsboro Inlet lighthouse back online with a big fanfare, but there was not enough time for a press release and proper set up for the reception ceremonies. The next appropriate day was National Lighthouse Day in mid-August. So collectively we chose Friday, August 18 for the big relighting celebration.

Again, the City of Pompano Beach Parks and Recreation Department set up a stage and a podium for us at the yardarm empty lot across the Inlet. The Master of Ceremonies was HLPS President Harry Cushing, with the main speakers Bill Griffin, the Mayor of the City of Pompano Beach, Captain Larry Yarbrough, USCG Chief of Staff District 7, David Butler and myself.

Once again the countdown started from ten to one at exactly at 8:00 pm the new light came on and started turning to produce the 20-second signal, and once again the Hillsboro Inlet Lighthouse became the most powerful lighthouse in the United States. It's been 14 years and 4 months now, and the new light comes on every night to send its signal far out at sea to every helmsman and mariner.

The relighting team (see picture on Page 2) acknowledgement plaque, the Light Keepers' monument and the Relighting Team Bell monument that was erected and dedicated Hillsboro Lighthouse Centennial ceremonies on March 7, 2007 is located at Pompano Beach Hillsboro Inlet Park, 2700 N. Ocean Boulevard in Pompano Beach.



Lighthouse Bell Monument (L)

Relighting Team Plaque (R)

Source: Art Makenian



*This 3-part history is dedicated to my great friend David Butler who passed away prematurely on September 9, 2003. David, in his retirement years, served as a Commissioner and technical advisor to the Hillsboro Inlet District, President of Pompano Beach Historical Society and also briefly as the President of Hillsboro Lighthouse Preservation Society. His book "Hillsboro Lighthouse" is sold in the HLPS Museum and on our website [www.hillsborolighthouse.org](http://www.hillsborolighthouse.org) or via [giftshop@hillsborolighthouse.org](mailto:giftshop@hillsborolighthouse.org).*

**David F. Butler will be a permanent part of Hillsboro Inlet History.**

**NEW MEMBERS & RENEWALS**

|                            |                            |                                   |                           |
|----------------------------|----------------------------|-----------------------------------|---------------------------|
| Abramson, Andrew           | DeMars, Mark               | Jones, Mel                        | Muller, Anita             |
| Aebersold, Robert          | Desjean, Robert & Cathie   | Jones, Mike & Pat                 | Muller, Brittany          |
| Aldrich, Joe & Gloria      | Deveroavx, M.              | Jones, Rita                       | Murphy, Robert            |
| Allendorph, Mark & Judy    | Dipierro, Michael          | Joseph, Yves G.                   | Murphy, Simone            |
| Alley, Steve               | Dobbs, Tim & Tricia        | Juris, Diana                      | Murray, Susan             |
| Almeida, Mr. & Mrs. Daniel | Doran, Lisa                | Kalpakjian, Lisa                  | Nickelson, Kim            |
| Alpert, Richard            | Duvall, Michael            | Kane, Janice                      | Nilson, Rich              |
| Anderson, Janet            | Dyckman, Denise            | Kean, Joanne                      | Noble, Pat                |
| Arndt, Jeff                | Duryea, Jamie              | Keating, John                     | O'Connor, Tom             |
| Arnel, Elyse               | Eades, Donna               | Keller, Theresa                   | Olivia, Amber             |
| Armstrong, Tarin           | Eaton, Rhonda              | Kempisty, Karen                   | Olsson, Ann               |
| Astrolio, Joy              | Ebrahim, Frederico         | Kephart, Doreen                   | Orme, Priscilla           |
| Audet, Karen               | Elder, Joan                | Kibler, Rich & Susan              | Ortega, Juan              |
| Augustyne, Robert          | Enderby, Ralph             | Kiernan, Rose                     | Osmun, Arley              |
| Aycock, James & Tobi       | Ernsberger, Marina*        | King, Crystal                     | Page, Maysville J.        |
| Backer, Keith              | Eschbach, Mike             | Kingsley, Alan                    | Palmer, Neil              |
| Baier, Nicole              | Ferguson, Claudia          | Kinsman, Bill                     | Parcover, Elrina          |
| Barrix, Scott C.           | Ferguson, Sam              | Kirchoff, AJ                      | Pardue, David B.          |
| Bass, Michael              | Flores, Ianca              | Kjos, Dimitri                     | Perkins, Frank & Patricia |
| Basso, Louis & Annmarie    | Fogg, Michael              | Konen, Karen                      | Parot, Shawn              |
| Benn, Patricia             | Garcicia, Diane            | Kovalick, Linda                   | Parrish, Craig & Ann      |
| Bennett, Ashley            | Garito, Barbara            | Kubin, Pat                        | Petre, Kallee             |
| Blanco, Fernando           | George, Shayen             | Lake, Lynn                        | Phillips, Shirley         |
| Bock, Rebecca              | Gero, Terry                | Lancione, Cindy                   | Plunkett, William         |
| Bonavito, Annette          | Gies, David                | Lavigne, Robert & Susan           | Pollari, Cindy            |
| Bookbinder, Fortuna        | Gifford, Nancy             | Ledo, Kenneth                     | Powell, Joanne            |
| Booty, Shannon             | Giles, Linda*              | Lee, Christine C.                 | Power, Danielle           |
| Boyce, Charles & Iliyana   | Golly, Tim                 | Lemak, Cindy                      | Premock, Melissa          |
| Boyden, Lorelei            | Gomez, Yolanda             | Lesnett, Michael*                 | Prochaska, Eve            |
| Boyle, Timothy             | Gordon, Brenda             | Lessieu, Anne                     | Pryor, Paul               |
| Brown, Ray & Ratana        | Graham, Linda              | Leymann, Linda                    | Pustizzi, Lois            |
| Brown, Susan Abenilla      | Gripp, David               | Liberator, Robert                 | Rambus, Elizabeth         |
| Budnik, Edmund             | Grizzaffi, Carlo & Paula   | Litchfeld, Diane                  | Reynolds, Patricia        |
| Burke, Kathleen            | Gruneisen, Donald & Lois   | Longstreth, Richard               | Raube, Robert             |
| Burley, Lance & Guylaine   | Groban, Blanche            | Lopez, Mario & Olga               | Rindom, Traci             |
| Burns, Glenn               | Gross, Allen               | Lopez, Richard                    | Rogers, Stephen & Rebecca |
| Bywalec, James             | Haggerty, Nina             | Lowrance, Richard & Lisa          | Rohling, Richard          |
| Calhoun, Michael           | Halaby, Ingrid             | Lyons-Evans, Ryan                 | Roohey, Sean              |
| Carpenter, Garrett         | Haliburton, Bill           | Mack, John                        | Root, Hugh                |
| Carroll, Donna             | Hamilton, Lesley           | MacIntyre, Jennifer               | Ruggiero, Ken             |
| Carroll, Tara              | Hartlieb III, Kurt & Katie | MacRae, Mark                      | Ryan, Bettye              |
| Caskey, Norma              | Hatton, Tricia             | Makielski, Joel                   | Saavedra, Mary Jane       |
| Castro, Sophia             | Haugen, Lisa               | Marchilow, Capt. Lee              | Salem, Sammy              |
| Cavrudatz, Steve           | Hayes, Cynthia             | Marcus, Dan & Anita               | Sanchez, Rita             |
| Chamberlain, Thad R.       | Hecht, Michelle            | Mathieson, Alex                   | Sanders, Ruth             |
| Childers, Lisa             | Heifler, Hal & Anne        | May, Jacqui                       | Santuccio, Tom            |
| Chuck, Karl                | Hernandez, Pamela          | McClung, Jon & Tami               | Scartine, Diane           |
| Collins, Fred              | Hignite, Chuck             | McDerment, Frank & Monica         | Schiffer, Steffi          |
| Conforte, Julian & Denise  | Hill, Tony                 | McGinn, Kay                       | Schnell, Eleanor          |
| Connell, Kipper            | Helvie, Arlene             | McInnes, Jennifer                 | Schneider, GERALYN M.     |
| Connely, Marie             | Hertzler, Anne & Hal       | McLane, John M.                   | Schoepp, Steve            |
| Coons, Daryl               | Hoddenbach, Yvonne         | McMahon, Kim                      | Schwab, Thomas & Mary     |
| Cragg, James & Carol       | Hodes, Lindsay             | McPhail, Erin                     | Sgueros, Louis            |
| Crockett, Regina           | Hoffman, David R.          | Menkes, Howard                    | Shaffer, Jillian          |
| Crowell, Charles & Marg    | Hoffman, Heather           | Meyer, George & Marilyn           | Sharon, Joanie            |
| Crawford, Sandra           | Holloway, Billie           | Miller, Marci                     | Sherlock, Patrick         |
| Croston, Jobe & Barbara    | Hubbard, Ken & Jennifer    | Moavero, Leila                    | Shing, David & Diane      |
| Cusick, Antoinette         | Hughes, William K.         | Molitor, Lynn                     | Shiver, Matt              |
| Czocher, Jim & Joyce       | Hunter, Murray             | Monteson, Patricia                | Shortz, Amy*              |
| Davidson, Will & Jane      | Inouye, K. Denis           | Moore, Debra                      | Sigerson, David K.        |
| Dawson, Doug & Sue         | Iossi, Rick                | Morales, Majorie                  | Slack, David              |
| Day, Cindy                 | Jackson, Misty             | Morgan, Maria                     | Smith, Darlene            |
| Defauwz, Mark              | Jacob, Robert              | Morris, Robert P. Jr. & Denise K. | Smith, Gordon             |
| Defronzo, Donna            | Jennings, Gayle            | Moyer, Bob                        |                           |

(Continued on page 11)

**NEW MEMBERS & RENEWALS**

*(Continued from page 10)*

|                     |                     |                         |                         |
|---------------------|---------------------|-------------------------|-------------------------|
| Smith, Lee          | Teeters, Sheila     | Wallat, Mark & Lidonna  | Willis, Keith           |
| Smith, Ruth         | Tenberg, Lindsey M. | Wambold, Kristen Leanne | Wilschke, Carole        |
| Sonnenberg, William | Tessler, Marsha     | Ward, Rosina            | Wilson, Hailey          |
| Sorbo, Tina         | Thifault, Martin    | Ward, Susan             | Wittig, Douglas         |
| Soto, Andrew        | Thomas, Marjorie    | Ward, Vanessa           | Wogman, Tracy           |
| Sotor, Sydney       | Thompson, Kari      | Waslesci, Marilyn       | Wolf, Michael           |
| Spencer, Debbie     | Torebka, Doreen     | Watson, Kathleen        | Wolf, Nina              |
| Springer, John      | Toussaint, Paula    | Weeden, Carolyn         | Worsdell, Lowell & Judi |
| Starr, Oren         | Trace, Brooke       | Weikel, Mary            | Wright, Robert          |
| Steinlein, Fred     | Tuell, Rebecca      | Weldon, Gregg           | Wyatt, Deborah          |
| Stuchell, Susan     | Tulloch, Lena       | Weis, Stacy             | Yalowiec, Lee & Linda   |
| Suggs, Rosalee*     | Tupek, Al & Karen   | White, Douglas          | Yarmolenko, Lara        |
| Tafari, Robert      | Valenti, Katalin    | White, Margaret         | Yastine Family          |
| Talbott, Genora     | Van Courer, Linda   | Wida, Tom               | Yeager, John            |
| Taschereau, Pierre  | Vaughan, Ray        | Wiggins, Carol          | Yen, Leo                |
| Tebbetts, Terry     | Vega, Danita        | Wilczewski, Edward      | Young, William          |
|                     | Villegas, Jose      | Wilk, Doris             | Zager, Jeff             |
|                     | VonStaten, Sandra   | Williams, Maxine        | Zutty, Marilyn          |

- + Organization
- \* Business Membership
- \*\* Life Members

**MONETARY AND OTHER CONTRIBUTIONS**

|                                      |                         |
|--------------------------------------|-------------------------|
| Daughters of the American Revolution | Lighthouse Scenic Tours |
| Hib & Martha Casselberry             | Bill & Judy Hoffman     |

**IN MEMORY OF JACKIE GLAFF**

|                         |                        |
|-------------------------|------------------------|
| Shawn & Cynthia Malaney | Patty Smith            |
| Eric Nystrom            | Stephen & Donna Schorr |
| Robert & Janice Kane    | Tara Glaff Mager       |

**IN MEMORY OF JAY BARNES**

|                             |                           |
|-----------------------------|---------------------------|
| Mac-Hugh & Associates, Inc. | Robin & Margaret Thompson |
|-----------------------------|---------------------------|

**SPECIAL THANKS TO POMPANO BEACH HIGH SCHOOL INTERACT CLUB**

|              |           |          |
|--------------|-----------|----------|
| Ms. Jennifer | Dylan     | Nicole   |
| Adam         | Glorianna | Sarah    |
| Duncan       | Kendall   | Sarah H. |

**SPECIAL THANKS TO RAMBLEWOOD MIDDLE SCHOOL**

|        |       |
|--------|-------|
| Camila | Suria |
|--------|-------|



The world's first stone lighthouse tower at sea was the Smeaton Eddystone lighthouse, built in 1756-1759 approximately 9 statute miles (14 km) south of Rame Head, United Kingdom, and was the third of four lighthouses built on the rocks. John Smeaton is today known as "The Father of Civil Engineering." He invented many new engineering designs for his lighthouse, including the dovetailing of rocks, marine (hydraulic lime) cements and special cranes to lift rocks out of a boat and onto the reef.

Smeaton's lighthouse was 59 feet (18 m) high and had a diameter at the base of 26 feet (8 m) and at the top of 17 feet (5 m). It remained in use until 1877 when erosion to the rocks under the lighthouse caused it to shake from side to side whenever large waves hit. The foundations and stub of the Smeaton tower remain, close to the new and more solid foundations of the current lighthouse which was built in 1882.



## Return Service Requested

Hillsboro Lighthouse Preservation Society, Inc.  
P. O. Box 326  
Pompano Beach, FL 33061-0326  
[www.hillsborolighthouse.org](http://www.hillsborolighthouse.org)

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