

Official Newsletter of
Hillsboro Lighthouse Preservation Society

Big Diamond

VOL. 12 No. 2

www.HillsboroLighthouse.org

May 2009

MAY 23rd & JULY 25th NEXT TWO LIGHTHOUSE TOURS

The handsome and sturdy new boat dock built at the Hillsboro Inlet Light Station by the Hillsboro Inlet District has made it possible for our organization, through a joint effort with the U.S. Coast Guard, to have six tours in 2009. Since the weather on tour dates makes a big difference in your enjoyment and our success, we look forward to balmy breezes and sunny skies on both Saturdays May 23rd and July 25th (note these dates on your calendar).

☺ those of you who joined HLPS on the morning of the March tour, we are extending your membership an extra three months since the rain interfered with our activities.

Again we ask you to park at the Pompano Beach City lot, across the street from the Sands Harbor Hotel at 125 N. Riverside Dr., Pompano Beach, FL 33062. The lot is one block north of Atlantic Blvd. on N. Riverside Drive on the east side of the street. Walk west across the street to the Sands Harbor Hotel's north dock where you will find

the HLPS tables to check in and receive a wrist band to board the chartered 49 passenger boat that will shuttle to and from the Light Station beginning at 9:00 AM with the last trip to the Lighthouse at approximately 2:45 PM. The Lighthouse Station closes at about 4:30 PM and all remaining guests will return to the Sands Harbor Hotel at that time. Volunteers will be available to answer questions you may have and Coast Guard Auxiliary members will be stationed at the tower door to usher you inside where you can view the unique staircase, each tread having a Roman Numeral number. If you are not able to climb up to the top, go up a few steps to the first window for a better view. A trip to the top gives you a chance to go out on the observation deck for a spectacular view of Broward County. On a clear day you can see Port Everglades to the South, Boca Raton Inlet to the North and tall buildings as far West as Coral Springs. ----- Checks or cash only for membership, renewals and gift shop purchases.



Aboard the Coral Princess: First Mate Bjorn Toths left, Captain Jeff Torode center, Dr. Ray Macallister, Professor Emeritus, Ocean Engineering FAU



Waiting to climb the Lighthouse Tower

AN OVERVIEW OF OUR LIGHTHOUSE

by. Art Makenian

Construction of Cast iron plate lighthouses were introduced in early 1800 replacing most of the new conventional masonry constructions. Later in that century, a new design concept of skeletal towers was introduced that proved to be better for high velocity wind resistance and less costly on construction for materials and labor. An additional advantage was the ability to relocate the entire structure by dismantling and reassembling to a new location to overcome coastal land erosion. Our State of Florida boasts a dozen skeletal lighthouses built onshore and offshore.

The architectural design of the Hillsboro Lighthouse skeletal tower concept was introduced first in Britain in the mid 19th century at the height of the Industrial Revolution. Since iron and metal foundries were in abundance throughout the industrialized world, production costs for cast iron structures were relatively inexpensive. Unlike steel, cast iron has better resistance to the salt water environment thus making it ideal for lighthouse structures. The new octagonal design concept was based on mass production of components that were built to enter into each other to form an assembly. Later multiple assemblies were attached together to conform to the client's structural elevation requirements. In modern terms this is called Modular Design Concept. These sections resembling a massive scaffolding surrounded a giant cylinder that contained the spiral stairway of 22 to 33 feet tall. The sections were completely assembled cold at the foundry to make sure all parts and sections were coherent and adaptable to each other. After inspection, they were disassembled, painted and shipped in small sections to the client's desired site for assembly.

It is estimated that the Hillsboro Inlet Lighthouse is one of twelve built from the same basic drawings throughout the world. Since most of the foundries are long gone, it makes it difficult to have an accurate final count. Five of these lights were built here in this country. Sadly, only three out of five of these lighthouses are still standing and are still in service either with their original optics and support mechanism, or modified with weaker, less costly plastic components.

See and compare the Cape Charles Lighthouse located in Virginia with seven structural sections, our Hillsboro Lighthouse, with five identical sections and Rawley Point Lighthouse located in Wisconsin with only four. Between 1892 and 1906 five of these Lighthouses were built by Russell Wheel and Foundry of Detroit, Michigan.

Most tall lighthouses have five principle sections. Starting on top is the Lantern Room, below is the Watch Room and the Gallery, below that is the Service Room which is mounted on top of the superstructure. The Vestibule is located at the ground level to allow egress to the cylinder where the spiral stairs are located. In our next issue we will write about our Lantern and Watch Rooms that house the light optics and the rotating mechanism.

(continued on Page 3)



Hillsboro Inlet, FL



Cape Charles, VA



Rawley Point, WI

(continued from Page 2)

Below, is a list of these five Lighthouses erected at their original locations.

*1894 * Rawley Point Lighthouse, Wisconsin, 113 ft. tall. Original optics 7ft. Third Order Fresnel lens until 1952. Replaced when a piece of the lens was broken.

*1895 * Cape Charles Lighthouse, Virginia. 191 ft. tall. Original optics, 8 ft. Beehive First Order Fresnel lens now on display at Mariner's Museum, Newport News, RI.

*1896 * Hog Island Lighthouse, Virginia. Demolished in 1948, 191ft. tall. Original optics, 10 ft. Beehive First Order Fresnel lens now on display at Portsmouth Seawall, VA.

*1903 * Cape Fear Lighthouse, North Carolina. Demolished in 1958, 155 ft. tall, Original optics First Order Fresnel lens partly vandalized only half of it on display at Bald Island, NC.

*1907 * Hillsboro River Inlet, Florida 147 ft. tall. Original optics 9 ft. Bivalve Second Order Fresnel lens still operational with its original lens configuration.

Read David F. Butler's book, *Hillsboro Lighthouse*, for more details. The book is available at our website, www.HillsboroLighthouse.org and our HLPS gift shop at any of our tours.

Editor's Note: The six Florida Reef Lights built between 1852 and 1880 are also all of cast iron pipe construction, but different earlier designs than the above described.

Florida Keys Reef Lights by Paul Bradley



FOWEY ROCKS
1878



CARYSFORT REEF
1852



ALLIGATOR REEF
1873



SOMBRERO KEY
1858



AMERICAN SHOAL
1880



SAND KEY
1855

President's May '09 Letter

By now, you should be aware that our Lighthouse tours have increased to SIX a year. On April 25th, we celebrated Florida Lighthouse Day at the Hillsboro Inlet Park in Pompano Beach. We hope that this will be an annual social event in the years to come. Like in the past, we plan to participate in many of the local holiday and waterway parades. So pass the word around to all your friends, neighbors, business associates and out of town guests. Tell them that something out of the ordinary and interesting is going on.

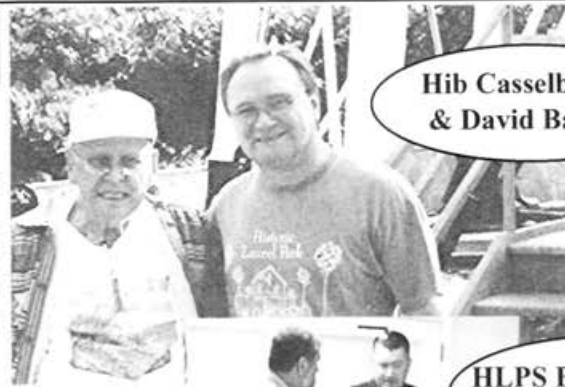
March 21st was our second lighthouse tour of the year. Our normal shuttle boat, M/V Aqua View trips were augmented by M/V Mizner's Dream that originated from the Boca Raton Resort and Club. In spite of heavy rain and gusty high winds, our well spirited guests were very happy and grateful for the tour. However, the weather conditions forced us to terminate the tour two hours early.

Have you visited our website lately? There are many new features, stories and photos of great interest, and while there, please visit our gift shop for some great souvenirs. - **Art Makenian**

HLPS Activities This Winter

David Baber, Broward's Preservation Officer, Visited Lighthouse Station

David took our January tour and learned about this 103 year old Lighthouse Station with Hib Casselberry, senior tour guide. David most likely would be the man to oversee any digging on the Station. We may be moving the Barefoot Mailman statue & its foundation to a new location, away from the reach of vandals.



Hib Casselberry & David Baber

Pruetts Attend HLPS Board Meeting

On Feb. 19th, the HLPS Board welcomed the visit of Commander James Pruett and his wife, Patricia. She is the manager of Hillsboro Inlet's Morale, Welfare & Recreation (MWR) and he is in the USCG 7 Dist. Legal Dept. who is working on our license to have the tours for the next several years.



HLPS Board Meeting w/The Pruetts

HLPS & FL Historical Society in Cocoa

Joyce, Hib, Dave, Eric & Jack from HLPS drove to Cocoa to attend a Powerpoint presentation by Neil Hurley, USCG Retired, on his latest book, *Florida Lighthouses during the Civil War*. Neil lives in Virginia and is the FLA Historian and an honorary member of HLPS. He brought his sons with him on this swing through Florida.



Neil Hurley with Sons

HLPS at FLA Meeting at Ponce Inlet Lt.

Joyce, Hib & Jack joined other FLA members Jan. 18th for FLA's Quarterly Meeting including a night climb of the lighthouse. We hoped to see a Cape Canaveral satellite launch, but it was delayed for several hours. That night it was too cold and windy at the top for both Jack & Hib.



Jack Burrie & Hib Casselberry

Our Video Shown at LBTS Women Club

The Lauderdale-By-The-Sea Women's Club invited Hib Casselberry to give a Florida lighthouse display and a video on Hillsboro Inlet Light. Pictured is LBTS Mayor, Roseann Minnet, & Women's Club President, Linda Collins, with Hib. The Mayor is having a proclamation drawn up for Florida Lighthouse Day.



Hib Casselberry with Roseann Minnet & Linda Collins

FL Auto License Tags Now Available

Here Jack Burrie & Art Makenian are showing the FL Auto Tag on the Burrie family car. Each County's auto license office has these tags available. The extra \$25.00 goes towards the restoration projects via Florida Lighthouse Association (FLA) grants. For more information go to the FLA website, www.FloridaLighthouse.org



Jack Burrie & Art Makenian



Tour Boat view from Tower



Moderator Dr. Ray McAllister



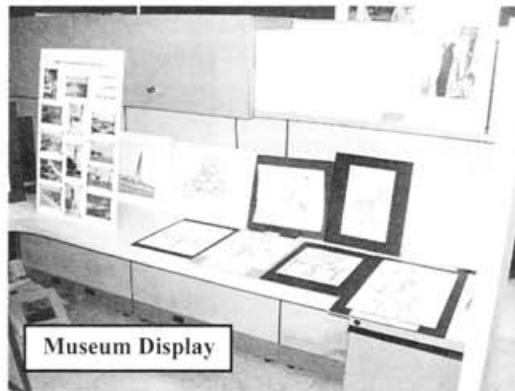
ANT Ft. Lauderdale
Art Makenian, FN Degado,
and MK3 Thompson



Eric, Jack & Hib at Cocoa



Boat Arrival at USCG Dock



Museum Display



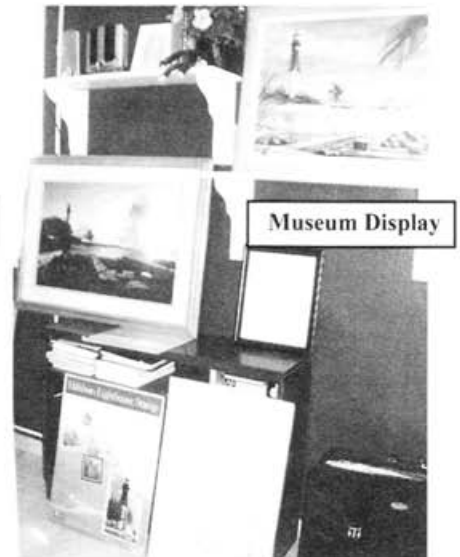
Diane, Art & Hib in Tower



C.G. Aux.
Raising Flags



Museum Display



Museum Display

NEW MEMBERS & RENEWALS SINCE H.L.P.S.'s JAN. - FEB. '09 NEWSLETTER

- | | | | |
|-----------------------------|-----------------------------|------------------------------|----------------------------|
| Aceto, Ana | Ellis, Ben & Jeannie, CRS | Kinghorn, Bonnie | Otto, Herbert & Mydat |
| Anton, Jeff & Katie | Real Estate Brokers, P.L. * | Kirby, EllenKnight, Bob | Palm Tree Doctor * |
| Bamann, Nancy | Evans, George & Maddie | Kohler, Joe & Sherry | ParvaiNEY, Peter & Donna |
| Bean, David | Fanning, Dennis & Linda | L.M. Wilson Plumbing, Inc. * | Picking, Rita & |
| Bisching, Bernard & Marilyn | Fowler, David | Lahr, James & Linda | Gary Vandervoort |
| Bowen, Mary | Franklin, Ron | LaMarca, Angelo | Pine, Tom & Marilyn |
| Brogan, G.M. | Frazier, Chris | Lewis, Alan & Barbara | Pompano Waterway |
| Burgess, Arthur & Gelsomina | Furst, Carolyn | Lund, Barbara | Development, LLC * |
| Burghy, Tracey & Charlie | Gilson, Jennifer & | Lush, Roy | Regal, Steve |
| Turgeon | Wayne Robbins | Lusk, Terri | Richter Family |
| Burns, Jennifer | Gloss, Martin & Len Rappa | Mahaney, Catherine | Roberts, Brad & Nadine |
| Butler, Susan | Glynn, Howard | Mahlie, Joe & Joanne | Sanchez, Theresia |
| Campbell, J. R. | Gold Coast Amateur Radio | Mahlie, John & Pamela | Sandell, Rich |
| Cash, Connacht | Association, Inc + | Majewski, Patricia | Schmidlin, Alice |
| Conklin, Jim & Betty | Gormley, Roberta | Martin, Robert & Jennifer | Siegel, William & Sandra |
| Corson, Scot | Grano, Tina | McCartha, Allen & Bobby | Southard, Karen |
| Cowdrey, Bob & Dot | Hagermann, Gary | McFadden, James & Kathleen | Stallings, John |
| Curry, Robert | Halla, Cherise | McIntyre, Richard & Donna * | Stone, Robert & Karen |
| Cutler family | Hartzfeld, Barbara | McMahan, Lisa | Stratman, Mike |
| D'Amico, Richard | Helf, Jim & Ann | McNab, Robert & Margery | Sullivan, John |
| DeMichiell, Nan | Hernet, Steven & Carol | Milford, Greg & Chris | Weingarten, Darlene |
| Deimel, Dorothy | Jeannin, Paul & Sandy | Miller, Ron | Williams, Lorraine |
| Desjean, Robert & Cathie | Johns, Tracey | Morse, Deborah | Wilson, Clara Emily |
| Devendorf, Dan & Anne | Keechl, Ken | Mulvey, Brian | Workman, Tom & Maureen |
| Diller, George | Kempf, Renee & Joe | Naples Walking Club + | Yarbrough, Larry & Annette |
| Dobre, Susan | Kennedy, Todd | Noble, Dick & Pat | Yerks, Joyce |
| Downie, Don & Rose | Kenoyer, Steven & Linda | Orlando, Angelo & Patricia | + = Organization |
| Elker, Ron & Chris | Kinder, Joseph | | * = Business Members |
| | | | ** = LIFE MEMBERS |

DONATION, MONETARY: Lauderdale-By-The-Sea Women's Club

THANK YOU, VOLUNTEER HELPERS Since Jan-Feb. 2009 Newsletter.

Newsletter Layout: Hib & Martha Casselberry **Publisher:** Minuteman Press of Ft. Lauderdale

Newsletter Mailing Jan-Feb.: Jeanne Amato, Suzan Baekkelund, Hib & Martha Casselberry, Art Makenian, Kelly Williams and Kim Zeman.

Jan. 24th & March 21st Lighthouse Tours: PUBLICITY: Jack Burrie, Hib Casselberry & Art Makenian.

Sands Harbor Hotel provided use of their dock, tables, chairs & umbrellas . **HLPS Workers at Sands Harbor Hotel dock:** Jeanne Amato, Suzan Baekkelund, Martha Casselberry, Dan & Travis Divendorf, & Linda Peck. **Narrator on the boat:** Dr. Ray Mcallister. **At the Lighthouse: Tables & chairs** provided by USCG Station Manager, Patricia Pruett. **Coast Guard Auxiliary:** Liz Clark, Scott Cleary (Flotilla 3-4), Ed & Marie Duda, Jerry & Gail Edelman, (Flotilla 3-6), Pat Feighery, Mike Sokasits, Tom Thayer and Tony Viana. **HLPS Workers at Lighthouse:** Jack Burrie, Hib Casselberry, Ed Dietrich, Joyce & Mike Hager, Art Makenian, Diane & David Shing, Bill Slager, Sheldon Voss & Matt Weyenberg. **HLPS Website Master:** Doug Matthes

SPECIAL EVENT COMMITTEE Attendees: Jack Burrie, Hib Casselberry, Dan Devendorf, Marty Falk (Gold Coast Amateur Radio Club), Joyce Hager, Art Makenian, Linda Peck, Diane Shing and Bill Slager.



Please Patronize HLPS Business Members

The following local businesses have joined HLPS at the business/corporate/company level of membership. We thank them for their generous support of HLPS and our projects. Please patronize their business.

- ***Atlantic Rehabilitation, Inc.** 5026-B North Federal Hwy, Lighthouse Point 33064, phone 954- 426-8884
- ***Ben & Jeannie Ellis, CRS, Real Estate Brokers**, PO Box 2103. Pompano Beach, 33061, phone 954- 401-6471
www.WaterfrontHomesAndLiving.com E-mail: WaterfrontHomes@bellsouth.net
- ***Beacon Images, Photographs by Von Staden**, Nicholas & Sandy Von Staden of Pompano Beach,
phones: 954-695-0918 & 954-401-0932, E-mail: nvonstaden@comcast.net
- ***Black Rhino Hurricane Shutters & Impact Glass** 432 S. Military Trail, Deerfield Beach, 33442
phone: 954-734-4411, www.BlackRinoShutters.com E-mail: Makenian@BlackRinoShutters.com
- ***Computer Ways, Inc.**, Dave Noderer, CEO, 10 Fairway Dr, Suite 133. Deerfield Beach, 33441
954-418-9799, www.computerways.com E-mail: daven@computerways.com
- ***Doc's Plumbing, Inc.** 1058 NE 43 Court, Oakland Park, 33334 phone 954-566-1100, Web: www.docsplumbing.com
E-mail: Dan@docsplumbing.com
- ***Golden Passport Photos, Inc.**, Joe Suggs, 1891 West Oakland Park Blvd., Ft. Lauderdale, 33311
phone 954-739-5190
- ***Helen S Fishing Fleet** Skip Dana, 2705 North Riverside Dr., Pompano Beach, 33062 phone 954-941-3209,
E-mail: Skiplisa@bellsouth.net
- ***James Balboni Maritime Photography, Inc.**, 2809 NE First Ave., Wilton Manors, 33334 phone 954-540-3500
E-mail: JB@JamesBalboni.com
- ***JenCo Plumbing Services**, Wayne Jenkins, 901 E. Sample Rd., Pompano Beach, 33064 phone 954-788-2802
E-mail: JencoPlumbing@bellsouth.net
- * **L.M. Wilson Plumbing, Inc.** Barbara W. Lippincott, office administrator, 862 S.E. First Ave., Deerfield
Beach, 33441 Phone: 954-480-9005, E-mail: bwlippincott@bellsouth.net
- ***Lighthouse Yachts**, Attn.: M. Glenn Curran, 2400 E. Commercial Blvd. #206, Ft. Lauderdale, phone 954-727-2204
E-mail: MgCurran@LighthouseYachts.com
- ***Martin Kidwell, CPA**, 950 N. Federal Hwy. #211, Pompano Beach, 33062 phone 954-784-0090
E-mail: Marty@Kidwellcpa.com
- * **NUVOX Communication Co.** Richard McIntyre Phone: 954-826-8562, E-mail: rmcintyre@NUVOX.com
- ***Pompano Waterway Development, Inc.**, Richard L. Niebling, 2629 N. Riverside Dr., Pompano Beach, FL 33062
Office/FAX: 954- 943-9738 Cell: 866-678-5997 E-Mail: NieblingRichard@gmail.com
- ***Palm Tree Doctor**, William & Linda Giles, 430 S. Dixie Hwy W, Pompano Beach, 33060 phone 954-946-3600
E-mail: Linda@Palmtreeedr.com
- ***William A. Webb & Associates, CPA**, 404 E. Atlantic Blvd., Pompano Beach, 33060, phone 954-782-5250
E-mail: Bill@webbcpa.com

LONG TIME HELPER AT LIGHTHOUSE, GEORGE COUSINS

A World War II U.S. Coast Guard veteran, died 31 March 2009. He was the First Mate on the *China Clipper*, our president, Arthur Makenian's yacht. He, among many other Coast Guard Auxiliary members, helped at the Hillsboro Lighthouse. Our condolences go to his wife of 26 years, Sylvia, son, George Jr. and many relatives and friends. HLPS was represented by Art Makenian and Hib Casselberry at his funeral.



“Barefoot Mailman & Hillsboro Lighthouse” by Bill Slager, Photographer

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FIRST CLASS MAIL

If there is a red mark around your expiration date, please send in your renewal payment and form

Membership Category and Dues Expiration Date.