



THE PROPAGATOR

8 Donner St.
Holmdel, NJ 07733
Editor: Bob Buus, W2OD

APRIL 2016

UPCOMING GSARA MEETINGS

The next GSARA meeting will be on **Wednesday, April 6 at 7:30 PM** at the Red Cross. Hopefully Ray, WA1FFT will be able to describe how he won the ARRL DX Contest. Bob, W2OD will talk about amateur exams in the early 1950s. Light refreshments will be served.

The second meeting in April will be held on **Wednesday, April 20 at 7:30 PM** at the Red Cross. This will be a regular business meeting. Refreshments will be served and guests are always welcome.

GSARA NET 8:30 PM TUESDAYS

GSARA members meet on the Asbury Park repeater every Tuesday at 8:30 pm. In the five sessions in March we had 31 check-ins for an average of 6.2 per session. The following 15 members checked into this net at least once (number of check-ins in parenthesis):

K2ARK (5), W2OD (5), N2HGI (4), KC2YNL (4), KA2F (2), W2UTR (2) K2ARV (1), N2BMK (1), K2CYS (1), KD2EPA (1), KD2KOA (1), W2LAF (1), N2LXM (1), KC2YWL (1) and KA2ZSI (1).

Mark your calendar so you remember to participate. The more participation, the more fun!

VE TEST SESSION APRIL 23

The GSARA monthly test session will be held on Saturday, April 23 at 11 am at the Red Cross. The fee is \$15 and you should bring the original and a copy of any amateur license presently held and the original and one copy of any credit (CSCE) forms that you have (copies will be sent in with your test results). Also bring 2 forms of ID with one being a photo ID. For more information, contact Rich Bilon, N3RB at 732-972-1397 or n3rb@arrl.net.

WELCOME NEW MEMBERS

Please welcome Father Dave Swantek, KD2KOA to the GSARA. He recently passed his Technician exam and is a Catholic priest from Point Pleasant. Father Dave is familiar with the GMRS citizen's radio service. Please add to your roster:

KD2KOA, Fr. Dave Swantek
512 Church Road
Point Pleasant, NJ 08742
610-324-3984
Dblues0@yahoo.com

Please also welcome Mack Szymanski, KD1FAK from New Britain, CT. Although he has held the Polish call SP3VAQ since 1989, he recently passed the Technician exam in this country. Please add to your roster:

KD1FAK, Mack Szymanski
125 Thorniley St.
New Britain, CT 06051
908-290-1832
Sp3vaq@wp.pl

Please also welcome Wesley Klimkowski, KD2KGN from Elizabeth, NJ to the GSARA. He has held the Polish call SP3WWE since 1992 but recently passed his Technician exam in this country. Please add to your roster:

KD2KGN, Wesley Klimkowski
Apt. 4C
953 South St.
Elizabeth, NJ 07202
902-868-3684
Sp3wwe@wp.pl

Please change the call of new member Luke Ferrone (see March *Propagator*, p. 5) from KD2KGO to **W2LAF**

GSARA OFFICERS

President	W2HTS	Howard Suffill	460-1885
Vice Pres.	K2REM	Rem Hunnewell	889-6692
Secretary	W2OD	Bob Buus	946-8615
Treasurer	KA2F	John King	942-7705
Engineer	W2EPD	George Graulich	255-7916
Webmaster	K2CYS	Cy Stanway	768-7773
Publicity	NJ2H	Bill Shockley	207-4466
Repeater	N2LXM	Jeff Harshman	922-0816
Radio Room Phone		732-493-9100, X1252	
Trustees	W2KQ	Joe Dreifuss	493-4236
	W2OD	Bob Buus	946-8615
	W2HAM	Lou Russo	842-6431

FRIDAY BLUE SWAN LUNCHEONS

A number of local radio amateurs meet each Friday at the Blue Swan Diner on Highway 35 south in Ocean Township at noon. Anyone interested in amateur radio is welcome to join us in the sun room at the north end of the diner.

PATCHES

We have GSARA patches available at all meetings and they cost \$3.

OUTGOING QSL CARDS

If any GSARA members wish to combine their QSL cards that are going through the outgoing ARRL Bureau, please bring them to the next GSARA meeting along with the label from a recent QST Magazine (you must be an ARRL member to participate in this program). Ray, WA1FFT will then send them on to ARRL at no charge to GSARA members. It couldn't be much easier than that to QSL. You are registered at the W2 incoming bureau, aren't you?

PROPAGATOR NOW ON THE WEB

The *Propagator* is available as a PDF file at:

<http://www.gardenstateara.org>

Click on "The Propagator" and then select the month you want.

GSARA HOMEPAGE

<http://www.gardenstateara.org>

HUDSON DIVISION HOME PAGE

<http://www.hudson.arrl.org>

EDITOR'S NOTES

When I first heard about the FCC's ban on amateur radio (see page 7), I was quite upset. However, upon further reflection, this action is a year away and I think there is a good chance that the ARRL will buy several of the popular amateur HF bands and permit ARRL members to continue operating although there may be a fee per contact. We'll just have to wait and see what happens but I doubt if it signals the end of amateur radio in this country.

I still have about 5 or 6 customizable meters left. If you are interested, please let me know the voltage or amperage range desired and I can make it up for you. The price is right – FREE - thanks to Jeff, N2LXM.

Congratulations to Ray, WA1FFT on winning the ARRL DX contest last year (see page 6). I hope that he can be at the upcoming April 6 meeting and give us a few words about how he achieved this enviable position.

When I dug up my 1950 and 1953 License Manuals, it brought back memories of what the exams were like 60 years ago. I'll share it with you at the April 6 meeting.

As I was reading the book "Amateur Radio Astronomy" (reviewed on page 7) I was particularly impressed with the references to former GSARA member and my good friend Dick Turrin, W2IMU (SK). Prior to Dick's death, he and I had outlined a book about moon bounce that the two of us were going to write. Unfortunately, we never got around to it but this book is a good representation of the type of book we had planned. I really enjoyed reading it and it brought back many fond memories of moon bounce activity on 1296 MHz in the 1970s.

As always, I appreciate feedback or material for *The Propagator*. The deadline for the May issue is April 15.

73 de Bob, w2od@arrl.net

ANNUAL WHITE ELEPHANT SALE

The sale on March 3 was enjoyed by about 40 attendees and we made a small profit of \$81. Participation by GSARA members was excellent. It is recommended that we hold future sales on a weekend to promote better attendance.

MINUTES OF MARCH 16 MEETING

By Bob Buus, W2OD, Secretary

President Howard Suffill, W2HTS called the meeting to order at 7:30 PM at the Red Cross. There were 16 members present. After the pledge to the flag, all present introduced themselves.

Secretary's Report

There was no meeting on March 2 due to the White Elephant sale. The minutes of the February 17 meeting was published in the March Propagator. A motion was made by Joe, W2KQ and seconded by Art, N2AJO to approve the minutes as published. The motion passed unanimously.

A letter to GSARA was received from Paul Roman requesting GSARA assistance in providing communication assistance for the Twin Lights Bike Ride tentatively scheduled for Sunday, September 25. The club will provide the requested assistance and President Howard, W2HTS will coordinate with Paul Roman. As the date draws near, it will be publicized in The Propagator.

Treasurer's Report

Treasurer John King, KA2F made his Treasurer's report. A motion was made by Joe, W2KQ and seconded by Art, N2AJO to accept the report. The motion passed unanimously.

New Members

Secretary Bob, W2OD read applications for membership for three new members.

Father Dave Swantek, KD2KOA from Point Pleasant is a Catholic Priest who passed his Technician license.

Wesley Klimkowski, KD2KGN from Elizabeth was first licensed in Poland as SP3WWE in 1992 and now has his Technician license in this country.

Mack Szymanski, KD1FAK from New Britain, CT was first licensed in Poland as SP3VAQ in 1989 and now has his Technician license in this country.

A motion was made by Joe, W2KQ and seconded by Ralph, KC2YNL to accept these three new members of GSARA. The motion passed unanimously.

White Elephant Sale

Joe, W2KQ reported that the White Elephant sale on March 2 was successful. Although we made only \$81 from the sale, we had a decent turnout with local hams attending who we don't usually see at our meetings. There was left-over donated gear which will be saved for the club table at the May Hamfest. Joe recommended that next year's sale be held on a weekend afternoon rather than on Wednesday night. Joe thanked all GSARA members who worked to make this sale a success.

Hamfest Committee

Rem, K2REM reported that he has been unsuccessful so far in getting a food vendor to serve at our May 15 Hamfest. New tickets have been printed and flyers are at Cheap Ham and KJI Electronics for distribution. Additional flyers are available from Rem for anyone going to other hamfests or have other ways of distributing them.

Old Business

GSARA must get rid of the old military surplus generator sitting in back of the Red Cross. Rem, K2REM will check to see if he can find someone willing to take it.

Last year, Cy, K2CYS proposed an award to the GSARA member who has most improved his or her CW ability. It is now time to present such an award. A motion was made by Joe, W2KQ and seconded by Hunter to authorize up to \$50 for this award. The motion passed unanimously.

New Business

The battery in the Uninterruptable Power Supply in the shack has failed. A motion was made by Rem, K2REM and seconded by Joe, W2KQ to authorize payment of \$17.27 for a new battery.

John, KA2F asked if GSARA members would be interested in going up to the W1AW station at ARRL Headquarters to operate for an afternoon. Some interest was expressed so John will look into this further.

John, KA2F also asked if members would be interested in operating W2GSA from Sandy Hook as part of the National Parks on the Air this year. He will also look into this.

Announcements

The new W2GSA QSL cards were shown at the meeting and those wishing to take one were invited to do so.

The W2GSA repeater still announces the time in EST. Rem, K2REM agreed to change it to DST.

Close

The door prize of \$14 was won by Tony, KA2ZSI. There being no further business, a motion was made by Hunter and seconded by Samuel, W2SHS to close the meeting which was adjourned at 8:23 pm.

HARRY POLHEMUS, KN2B - SK

Harry Gant Polhemus, KN2B of Manahawkin, NJ, passed away peacefully at home on February 29, 2016. He was 86. Harry is predeceased by his first wife, Maryann Polhemus (1991).

Mr. Polhemus was a past member of the GSARA and was an avid Ham Radio operator with the call KN2B. For several years, he organized and ran a special amateur radio operation from Treasure Island. Harry is the one who came up with the name of this newsletter as *The Propagator*. He was also a member of the Manasquan Fishing Club.

He is survived by his beloved wife Frances Diane Polhemus; his daughters Judy Moscaritolo and husband Mike of Cliffwood Beach, NJ; Sue Polhemus of Belmar, NJ and his son Richard Polhemus of Belmar, NJ. He is also survived by his step-daughter Sheri Berry and husband John of Freehold, NJ. His grandchildren Frank and Steven Moscaritolo and his step-grandchildren Matthew Berry, Specialist Michael Berry and wife Karisa, Melanie D. Miller and Dennis Robinson. A funeral mass was celebrated Tuesday, March 8th at St Mary's RC Church in Barnegat, NJ. Cremation was private. With sincere gratitude we would like to thank the Stafford Twp. Police Dept. and paramedics along with Monsignor Ken for their kindness and compassion. Arrangements are under the direction of Polhemus Cremation Services, 203 Main Street, West Creek, NJ. For more information or to send condolences, please visit www.polhemuscremations.com

STEVE ROSEN, KB2PGA - SK

Stephen (Steve) H. Rosen, KB2PGA from Lakewood passed away at Ocean Medical Center on March 22, 2016 with his wife Sharon of 48 years at his side. He was 74 and formerly lived in Glen Ridge and Little Falls, NJ.

Steve was born in Brooklyn, NY and grew up in Passaic, NJ. He was the only son of Florence (Carlin) and Max Rosen deceased. He attended Passaic Schools, Rutgers University-Newark and Seton Hall School of Law.

Steve is survived by his wife Sharon (Nealis), formerly of Matawan, NJ and his sisters and their families. He is also survived by his wife's family and many nieces, nephews, grandnieces and grandnephews from both families for whom he had great affection.

Steve was a veteran, having served as a medic in the U.S. [Army](#) Reserve and the National Guards of New Jersey and California from 1962 through 1973.

As a student at Rutgers, he was the founder of the radio station WNRU and editor-in-chief of the student newspaper "The Observer." After graduating law school, he worked for the Institute for Continuing Legal Education at Rutgers before opening his own practice in the 1980's. His passion for addressing injustices was never ending.

Steve's other passion was Amateur Radio. In his early teens he became a licensed radio ham operator and maintained that interest throughout his life. He was previously an active member of the Nutley Radio Club and was a current member of the Ocean Monmouth Amateur Radio Club in Wall.

Steve and his wife are long time members of Temple Ner Tamid in Bloomfield. At his death, he was President of the Brotherhood.

Steve was an active participant in research projects at Columbia University for the disease known as amyloidosis.

Funeral Services were at the Jewish Memorial Chapel in Clifton on March 25 with burial at Menorah Cemetery, Clifton.

Donations in his honor can be made to Temple Ner Tamid, 936 Broad St., Bloomfield, NJ 07003.

FRAME ABLE LICENSE CERTIFICATE

There is a web site that provides a frame able certificate of your call sign that includes the date of first issue, optional ARRL affiliation, and optional code proficiency endorsement. The site also can produce a replica of the latest license issue that includes call, ID number, date of issue, and date of expiration. Just supply the call letters, and the site does the rest.

The site also has several other features, such as call letter lookup, practice exam questions, and others. The web site URL is: RadioQTH.Net.

A sample of the certificate for my call is:



73, de Vince, KE2V

MS COAST THE COAST BIKE-A-THON

Please reserve 21-22 May 2016 for the MS Coast-the-Coast bike-a-thon. It's a whole new group organizing this for 2016 and your help will be appreciated. Thanks.

Tom Cosgrove
Past Captain RBVFA Squad, EMT-B
N2VFK
SKYWARN Spotter LME002

“FREQUENCY” TV SERIES PLANNED

The buzz from Hollywood is that a TV series based on the 2000 movie "Frequency" is in development and -- appropriately enough for a show featuring ham radio -- on The CW network. Amateur Radio served as a plot device in the movie and will play the same role in the TV series.

In November 2014, *The Hollywood Reporter* indicated that NBC had committed to a "Frequency" series, but those plans apparently fell by the wayside. Now, The CW has ordered a pilot episode of "Frequency," and, if the network does go forward with the project, the modern-day version of "Frequency," the TV series, would feature a young female police detective named Raimy, who uses ham radio to communicate through time with her deceased father.

Actress Peyton List is said to have landed to role of Raimy, reprising Jim Caviezel's movie character. Riley Smith would play her father.

When the original "Frequency" movie debuted, the ham radio theme and the chance to see vintage ham gear and real, glowing vacuum tubes on the big screen generated considerable interest within the community of "boatanchor" enthusiasts. ARRL worked with the film's producers.

From *The ARRL Letter*, March 3, 2016

LIFETIME AMATEUR RADIO LICENSE?

The FCC is seeking comments on a *Petition for Rule Making (RM 11760)* that asks the FCC to grant lifetime Amateur Radio licenses. Mark F. Krotz, N7MK, of Mesa, Arizona, filed his request with the FCC last November. He wants the FCC to revise § 97.25 of its rules to indicate that Amateur Radio licenses are granted for the holder's lifetime, instead of for the current 10-year term. Krotz noted that the General Radiotelephone Operator License (GROL) already is issued on a lifetime basis, and he maintained that not having to renew licenses would lighten the FCC's workload.

"It would be mutually beneficial for the FCC and Amateur Radio operators to update Part 97 to grant operator licenses for lifetime," Krotz said in his filing. "The FCC would benefit by reducing administrative costs."

In 2014, the FCC granted lifetime credit for examination elements 3 and 4, but applicants seeking relicensing under that provision still must pass examination element 2.

Individuals may [submit](#) comments via the FCC's Electronic Comment Filing System (ECFS).

From *The ARRL Letter*, February 25, 2016

RADARS ON AMATEUR HF BANDS

The International Amateur Radio Union Region 1 (Europe/Africa) Monitoring System (IARUMS) has reported a spate of over the horizon (OTH) radar signals on various Amateur Radio HF bands -- exclusive and shared. Many of these signals are being heard outside of the Region 1 confines.

A 50 kHz wide Russian OTH radar has been heard in the evening on 80 meters, often in the CW part of the band. An "often long-lasting" Russian OTH signal about 13 kHz wide is being heard on the 7000-7100 kHz segment of 40 meters, while some digital traffic (FSK or PSK), and a "Codar-like radar from the Far East" are being heard in the 7000-7200 kHz segment as well as non-amateur CW transmissions.

The same OTH radar being heard on 40 meters also is appearing on 20 meters, along with digital traffic in FSK or PSK and on CW and broadband OTH radar signals from China. Some monitoring reports are intriguing, such as this one on 14.280 MHz from IARU Region 1 Monitoring System Coordinator Wolf Hadel, DK2OM: "Female voice with encrypted msgs -- figures -- 'SZRU' = Foreign Intelligence Service of Ukraine in Rivne - every Wednesday at 1005 UTC."

Broadband OTH radars from China, Australia, Cyprus, and Turkey have been monitored in 15 meters. On 10 meters, radars from Iran with FM CW and different sweep rates have been monitored, as well as fishery buoys on CW, and taxi operations on voice from Russia.

Voice traffic from fishing operations has been heard on all or most HF bands, as have a variety of broadcasters, including the third harmonic of Radio Tajik (4765 kHz) on 14.295 MHz, Radio Taiwan and Myanmar Radio, both on 7.200 MHz, and Radio Hargeysa in Somalia on 7.120 MHz

The February 2016 IARU Region 1 Monitoring System [newsletter](#) offers more details. There is an online [archive](#) of past issues. -- *Thanks to the IARU Region 1 Monitoring System*

From *The ARRL Letter*, March 17, 2016

RAY, WA1FFT WINS DX CONTEST

Our own Ray Irwin, WA1FFT took first place in the 2015 ARRL DX Contest. Congratulations!

FIRST AFRICAN-AMERICAN HAM

The computer hardware/software/do-it-yourself blog *Hackaday* has [profiled](#) Rufus Turner, W3LF (ex-K6AI) -- believed to be the first African-American radio amateur and one of the more fascinating personalities in US history. Born on December 25, 1907, in Houston, Texas, Turner "became fascinated by crystal diodes and published his first article about radio when he was 17," according to *Hackaday*. He went on to build what *Hackaday* described as "then the world's smallest radio set" in 1925, while still a teenager.

In the day when radio amateurs still were allowed to broadcast, W3LF became the first radio station licensed to an African-American. He broadcast with a 15 W in Washington, DC, and operated another radio station for his church.

Working with Sylvania in the 1940s, Turner helped to develop the 1N34A germanium diode. And in 1949, he wrote "Build a Transistor" for Hugo Gernsback's *Radio-Electronics* magazine ([May 1949 issue](#), p 38) -- at a time when transistors (aka "crystal triodes") not only were cutting edge but not commercially available. His meticulously described project involved the sacrifice of two 1N34A diodes.

In January 1950, his article, "A Crystal Receiver with Transistor Amplifier" appeared in *Radio and Television News*, along with plans for a three-transistor radio. This was in the days before such things had begun to appear on the market.

While he had attended Armstrong Tech in Washington, DC, and he became a licensed professional engineer, he veered into the non-technical sphere of academe later in his life, earning bachelor's and master's degrees in English, and in 1960 -- at age 52 -- becoming an English professor. Read [more](#). -- *Thanks to Hackaday, Southgate Amateur Radio News, Radio-Electronics*

From *The ARRL Letter*, February 25, 2016

GSARA WANTS YOUR QSL CARD

Garden State A.R.A. wants YOUR QSL Card for the Display of Member Cards in the Club Station. You can bring your card to a meeting, scan it and send a copy to ka2fwb2hdj@gmail.com, or mail it to John King, KA2F, 18 Carmel Way, Eatontown, NJ 07724.

FCC TO BAN AMATEUR RADIO

In a surprise announcement, the FCC said that it plans to eliminate the amateur radio service effective April 1, 2017. An FCC spokesman indicated that they are giving over a year's warning so that those amateurs nearly eligible for awards such as DXCC or WAS have time to complete the requirements for these awards before the ban takes place. The same spokesman said that "we are showing extreme compassion for the amateur's interests since we don't want 700,000 amateurs writing angry letters to the FCC and overwhelming our limited staff."

The driving force behind this decision is our country's balance of trade problems with China and Japan. FCC studies have shown that most of the equipment used by radio amateurs in the United States is imported from China or Japan. This ban will stop those imports. Those few U. S. companies (such as Ten-Tec and Elecraft) still manufacturing amateur equipment are expected to cultivate sales outside the country, thus further reducing our trade deficit problems. As the existing amateurs shut down their stations, they are encouraged to sell their used equipment outside the country to further improve our trade balance. The FCC is negotiating with the IRS to allow amateurs to deduct their incurred costs of shipping overseas from their taxes. Details are still being worked out but if implemented, will be a powerful incentive to sell used equipment outside the country.

This move will also allow the FCC to reduce staffing levels and reduce the federal budget. The FCC Licensing Bureau will eliminate at least two clerks who have been typing vanity call sign requests into the FCC computers. One of the clerks is quoted as saying "Thank God I can quit this !@# \$%^&* typing all day and enjoy my life with the enhanced pension and buyout package offered." The entire Enforcement Bureau will be eliminated. When asked about the effect on morale in his Bureau, the Enforcement Bureau Chief said "All of our staff are ecstatic over this news. Most have been so bored these past few years with nothing to do but look busy. The proposed buyout package will give each staff member a pension about 25% greater than their salary and most will be eligible for payment for unused sick days as an additional windfall."

The ARRL is understandably upset over this news and has threatened to go to congress to repeal the FCC decision. When asked about this threat, President Obama said, "I can't imagine any congressman being against improving our balance of trade problems except for some nut-case Republications. You can be sure I will veto such a measure as will my successor who told me so herself."

To further reduce the Federal deficit, the FCC is expected to auction off all amateur frequency bands. Details have yet to be worked out but it is expected that ARRL will be allowed to participate in this bidding for some or all of the bands.

BOOK REVIEW

By Bob Buus, W2OD

I just finished reading "Amateur Radio Astronomy" by John Fielding, ZS5JF and will add it to the GSARA library. I highly recommend this book to anyone interested in weak signal modes at VHF and UHF. This includes meteor scatter, moon bounce, troposcatter, and radio astronomy. The first five chapters cover the background and history of radio astronomy and are not particularly technical but very interesting reading. The later chapters give practical examples of implementing advanced, low receiving noise systems. The author, John Fielding, ZS5JF clearly knows his material and has lots of practical experience.

MFJ FOUNDER KEYNOTE AT DAYTON

"The Early Days of MFJ" will be the topic as MFJ Founder and President Martin Jue, K5FLU, keynotes the 31st annual Dayton DX Dinner, sponsored by the SouthWest Ohio DX Association ([SWODXA](#)). Held in conjunction with the 2016 Dayton [Hamvention](#)[®], the dinner will be on Friday, May 20, at the Marriott Hotel, 1414 S Patterson Boulevard, Dayton. MFJ's first product was an audio filter, which Jue began manufacturing in a small hotel room in downtown Starkville, Mississippi. Today, MFJ manufactures more Amateur Radio products than any other company in the world under the Ameritron, Hy-Gain, Cushcraft, Mirage, and Vectronics brands. For more information, [visit](#) the SWODXA events page.

From *The ARRL Letter*, March 10, 2016

HAMVENTION 2016 HAM of the YEAR

Nobel Laureate Joe Taylor, K1JT, of Princeton, New Jersey, has been named as the 2016 Dayton [Hamvention](#)[®] Amateur of the Year. Hamvention announced the recipient of the Amateur of the Year awards on March 18.

Taylor was awarded the Nobel Prize in Physics in 1993 for the discovery of the first orbiting pulsar, leading to observations that established the existence of gravitational waves. Licensed in 1954 as KN2ITP, Taylor served as a professor of astronomy at the University of Massachusetts from 1969 to 1981, and later as a professor of physics at Princeton University. Since his retirement, Taylor has been developing and enhancing digital protocols for weak-signal communication by Amateur Radio, including *JT65* and *WSPR*.

From *The ARRL Letter*, March 24, 2016

SOURCE OF BATTERY PACKS

Bioenno Power, a leading Santa Ana, California based manufacturer, offers you a variety of advanced battery solutions including LiFePO4 (Lithium Iron Phosphate) batteries for ham radio applications. We offer a full line of LiFePO4 battery products across a wide range of voltages from 12V to 48V with capacities ranging from 3Ah to 200Ah.

In addition, we also offer a variety of powerpacks (portable energy storage systems) and foldable solar panels for your field applications.

Feel free to contact us:

Bioenno Power
sale@bioennopower.com
888-336-7864

Since early 2012, Bioenno Power started to provide LiFePO4 batteries, powerpacks, LiPo batteries, and various other energy products that have been well tested. Local ham radio clubs such as the Orange County Amateur Radio Club (OCARC) have positively evaluated our LiFePO4 batteries, among others. These are among best performing batteries available at a competitive price!

Steve Huang
Sales & Marketing Agent

TEN YEARS AGO

From the April 2006 Propagator: Steve Jackson, N2WLH joined GSARA. Even though the 4 by 4 Sudoku puzzle of last month did not go over well, a 6 by 6 was presented this time. LoTW now supports WAS. Program for the March 1 meeting was Frank, W2XYZ giving highlights of his 8-day Caribbean cruise. Lorraine, KC2FDR (SK) related some of her adventures on cruise ships.

FIFTEEN YEARS AGO

From the April 2001 Propagator: Ray Lett, W2NXG (SK) joined GSARA. Leo Deeny, WA2ESZ became a silent key. A new repeater on 146.490/147.490 (1 MHz split) was put in operation in Brick and is part of the linked repeater system. The Middletown Amateur Radio Club was formed by past members of GSARA and meets at Croydon Hall in Leonardo, NJ. Marconi Chapter 138 of the QCWA will be operating WA2GM during International Marconi Day from the Fort Monmouth MARS station.

TWENTY YEARS AGO

From the April, 1996 Propagator: With Laurie Korkowski, N2XWA moving up from VP to President, a special election was held for a new Vice President and Jack Keating, WA2FVL won. Bruce McLeod, K2QXW created the first GSARA Home Page on the internet. Rich Krohn, N2SMV joined GSARA.

TWENTY-FIVE YEARS AGO

From the April-May 1991 Propagator: This is the last Propagator to be edited by Elena Worrall, N2ITL. Al Allen, K2LG (SK) will take over as editor. Leo Deeny, WA2ESZ (SK) moved to New Hampshire. GSARA members provided communication for the Super Cities Walk for MS at Brookdale College on April 7.

THIRTY YEARS AGO

From the April 1986 Propagator: Ed, KB2FE from Old Bridge will talk about slow scan television at the April 2 meeting. Members are asked to provide communications for the Walk for Mankind at Sandy Hook on April 27. John King, KA2F is coordinating.

NOTES ON CALENDAR (see next page)

Large Call letters denote birthdays e.g. **KE2V** on April 8. All times are EDST. Contests are listed in the April QST, p. 86.

April 3 and every Saturday, Sunday and Wednesday – **InfoAge Marconi Hotel** open from 1 to 5 pm on Marconi Road in Wall.

April 3 – **North American SSB Sprint**, 20, 40 & 75 meters from 7 pm to 11 pm. See <http://www.ssbsprint.com/rules>

April 4 - **Monmouth County ARES Net** meets on 147.045 +600, PL=67.0 at 7:30 pm

April 5 – **Old Barney VE Session** at 6:30 pm in Manahawkin. Contact Urb Le Jeune, W1UL at 609-296-5856 or urb@w2dec.com

April 5 – **Old Barney ARC Meeting** at 7:30 pm in Manahawkin, NJ. See <http://www.obarc.org>

April 5 and every following Tuesday – **GSARA Net** on 147.045 PL=67 at 8:30 pm.

April 5 and every following Tuesday – **QCWA News Net** on 147.045 PL=67 at 9:00 pm.

April 6 – **GSARA Program Meeting** at 7:30 pm at the Red Cross. Bob, W2OD will talk about amateur licensing exams in the early 1950s. Light refreshments will be served.

April 7 - **W1AW Qualifying Run** at 9 am (10-40 wpm). See April 2016 QST page 103 and www.arrl.org/qualifying-run-schedule

April 7 - **HCARC meeting** at 7 pm at Holiday City South Clubhouse in Toms River.

April 9 – **OMARC Meeting** at 9:00 am at the Diana Site on Marconi Road in Wall. Guests welcome.

April 11 – **144 MHz Spring Sprint**, all modes from 2 pm to 6 pm. See <http://www.sites.google.com/site/springvhfupsprints>

April 11 -. **Monmouth County RACES Net** meets on 147.045 +600, PL=67.0 at 7:30 pm.

April 13– **Holiday City VE Session** at 7 pm in Toms River. Contact is Larry Puccio, K2QDY at 732-349-2950 or e-mail at lpuccio1@comcast.net

April 14 – **JSARS meeting** in Riverwood Park Rec. Building, Rt. 527 and Riverwood Drive at 7:30 pm.

April 16-17 – **North Dakota QSO Party**, all bands, all modes from 1 pm Saturday to 1 pm Sunday. See <http://www.w0nd.com/ndqso15.pdf>

April 17 – **ARRL Rookie Roundup, SSB**, 3.5-50 MHz from 1 pm to 6:59 pm. See <http://www.arrl.org/rookie-roundup>

April 18 - **Monmouth County ARES Net** meets on 147.045 +600, PL=67.0 at 7:30 pm

April 19 – **222 MHz Spring Sprint**, all modes from 2 pm to 6 pm. See <http://www.sites.google.com/site/springvhfupsprints>

April 20 – **GSARA Meeting** at 7:30 pm at the Red Cross in Tinton Falls. Regular business meeting.

April 21 – **W1AW Qualifying Run** at 4 pm (10-40 wpm). See April 2016 QST page 103 and <http://www.arrl.org/qualifying-run-schedule>

April 21– **JSARS VE Test Session** at 7:00 pm Riverview Park Recreation Bldg., Rt. 527 and Riverwood Drive in Toms River. Contact Ed Genoino, WA2NDA at 609-971-2792 or wa2nda@comcast.net.

April 25 - **Monmouth County RACES Net** meets on 147.045 +600, PL=67.0 at 7:30 pm.

April 27 – **432 MHz Spring Sprint**, all modes from 2 pm to 6 pm. See <http://www.sites.google.com/site/springvhfupsprints>

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1 April Fool	2
3 NA SSB Sprint InfoAge	4 ARES/RACES 7:30	5 OBARC GSARA Net 8:30 QCWA News 9 PM	6 GSARA Mtg.	7 CW Qual. Run HCARC Mtg.	8 KE2V	9 OMARC Mtg
10 InfoAge	11 144 MHZ Sprint RACES Net 7:30	12 GSARA Net 8:30 QCWA News 9 PM	13 Hol. City VE	14 W2AOJ JSARS Mtg.	15	16 ND QSO Pty.
17 ND QSO Pty. Rookie Rndup InfoAge	18 ARES/RACES 7:30	19 222 MHz Sprint GSARA Net 8:30 QCWA News 9 PM	20 GSARA Mtg.	21 W2SHS CW Qual. Run JSARS VE	22 N2HGI	23 KD2EPA
24 InfoAge	25 W2OD RACES Net 7:30	26 GSARA Net 8:30 QCWA News 9 PM	27 432 MHz Sprint	28	29	30



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FIRST CLASS