

# THE Propagator



Garden State Amateur Radio Association

June 2018

## W2GSA

8 Donner St.,  
Holmdel, NJ 07733



### Editor:

Bob Buus, W2OD

### Design:

Cy Stanway, K2CYS

[www.gsara.club](http://www.gsara.club)

[www.w2gsa.org](http://www.w2gsa.org)

Please visit the club website and feel free to use our open repeater.



## MEETING INFO

The next GSARA meeting will be on Wednesday, June 6 at 7:30 PM at the Red Cross.

This will be a program meeting and the program will be a presentation by Urb Lejeune, W1UL who will talk about his Ham Cram website to help amateurs get or upgrade their license. Urb has been licensed for 68 years and contributed the article about the NJDXA early DX spotting activities elsewhere in this issue. Guests are welcome and refreshments will be served.

The second meeting in June will be held on Wednesday, June 20 at 7:30 PM at the Red Cross. This will be a business meeting with reports from the various committees and all of the 1st minute planning for Field Day. Don't miss it! Light refreshments will be served and guests are welcome.

## VE SESSION

The GSARA monthly test session will be held at the Red Cross on Saturday, June 23 at 11 am. 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 732-567-4396 or [n3rb@arrrl.net](mailto:n3rb@arrrl.net).



FIELD DAY IS  
THIS MONTH.  
JOIN THE FUN  
AND THE ACTIV-  
ITY! EVERY SKILL  
LEVEL WELCOME



## From the Editor

**Bob Buus W2OD**

When Mike Orr, N2MN joined GSARA last month, his call reminded me of an early famous amateur from Westfield, NJ named Charles Apgar, 2MN. The basic story was told by Phil Peterson, W2DME-SK many years ago

but his short version left out many details about how the Germans sent and received the high-speed CW signals. So, I dug into the details of the Sayville, Long Island station and the wire recorder technology of 1915 to come up with the story in this issue. There is no doubt in my mind that the U.S. Government did everything in its power to cover up the role that 2MN played in shutting down the Sayville station. I hope that you enjoy the article.

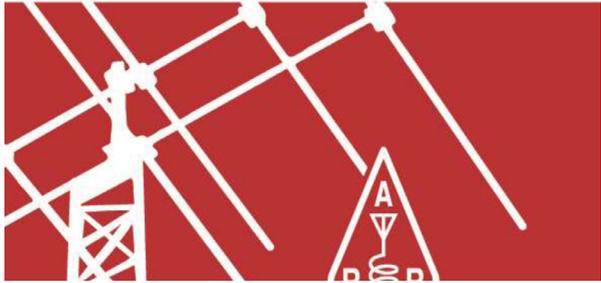
The article about the secret weapon of the NJDXA by Urb Lejeune, W1UL first appeared in the Holiday City ARC newsletter called "The Skyhook" and I enjoyed it so much that I asked Urb if we could put it in The Propagator. He graciously allowed it and I hope that you find it as interesting as I did. We all take DX spotting networks for granted today but it wasn't always so. DXCC was a pretty tough award back in the day.

BTW, Urb has a web site for studying for your amateur exams that I think could be useful to many of you. He has agreed to come to our June 6 meeting to talk about it. I think you will find it interesting and useful.

The OMARC Hamfest is coming up soon on June 2 and I hope a lot of you attend. We should support OMARC activities as many of them support ours.

Finally, it's not too early to start planning for Field Day. Last year was successful because we had lots of people participating. With more members this year, I hope that we can do even better. I especially encourage the newer Technicians to come operate the GOTA station. It will help you get the feel of operating on hf which is quite different from operating on the FM repeaters. Plenty of Elmering should be available and you'd be surprised at how much fun it can be.

As always, I appreciate feedback or material for The Propagator. The deadline for the July issue is June 15.



## Field Day is coming up on Saturday and Sunday, June 23 and 24.

GSARA will be operating two stations from the Red Cross with commercial power (Class 2F), from 2pm Saturday to 2 pm Sunday. These stations can operate either SSB or CW depending on the operator's

# Field Day 2018!



preference. We will also be operating a Get On The Air (GOTA) station for those more recently licensed.

All GSARA members are encouraged to participate in this annual fun-filled event. Since the stations are essentially already set up, there should not be a significant setup or take-down effort but we will need operators to keep both stations on the air for as much of the 24 hours as possible. Hopefully, a sign-up form will be available on the GSARA website so members can sign up to operate or log in time slots of their choice. We plan to be on the air continuously from 2 pm Saturday to 2 pm Sunday but to do that, we need lots of operators and loggers.



How can you best prepare for this event? I would recommend that you download the N3FJP logging program found at [www.n3fjp.com](http://www.n3fjp.com) and play with it on your home computer to get familiar with how to enter the required logging information. It's a free download for the first 30 contacts so you can play with it and then delete it (the program will be on all of the GSARA computers in the radio room).

You also might want to explore the capabilities of programming the function keys to send canned messages on either phone or CW. Proper use of these keys makes operation much simpler. Look into it!

If you have any questions, please contact our President Howard, W2HTS ([w2hts@arrl.net](mailto:w2hts@arrl.net)) or our Vice President Rem Hunnewell, K2REM ([rh@thetraindoctor.com](mailto:rh@thetraindoctor.com)). The more participation, the more fun!

# A NOTE FROM CY, K2CYS

## Propagator Publisher



I hope you are enjoying this edition of the Propagator. Did you know that there are two formats in which you can view it? The .PDF format is the usual way and that produces a full-color Propagator with live links. But this month I have added a little candy. If you download [Adobe Digital Editions](#), a free software from Adobe, and open up the EPUB link, you will have different experience. There are the same words and graphics, but there are some nice surprises, too. Give it a shot. I think you will like it.

*73, Cy Stanway - K2CYS*

## TOWER WORK COMPLETED

### By Chris Wantuck, W2NQB

The work to correct the leaning tower caused by the trailer settlement was finished on May 1. It was a complete success except for the rotor cable getting pinched in the winch cable and had to be repaired. Those in attendance were Denis, K2NPT; Art, K2NAZ; John, KA2F; Paul, WB2ERY; and me. Hats off to these volunteers who stepped up to the job that had to be done!



Denis, K2NPT and Chris, W2NQB winning the tower up.

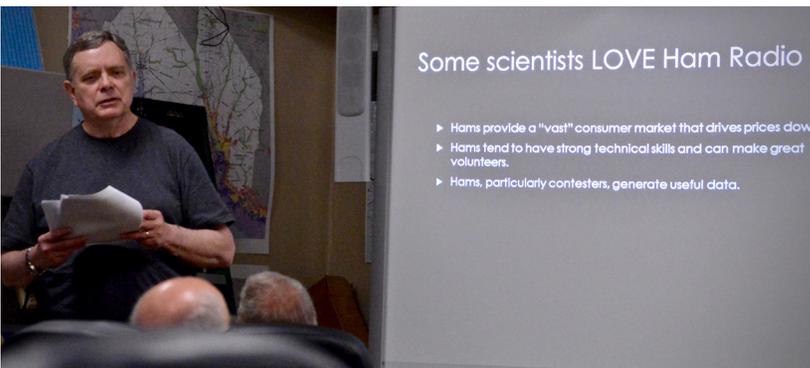
### VERTICAL ANTENNA FOR SALE

Alan Sherman, W2NIR has replaced his 6-band vertical antenna and is looking for a home for the old one. It is a Hy-Gain AV-620 and covers 6 through 20 meters. It's fully assembled and over 20 feet long. If interested, contact Alan at 732-229-4793 or ahs4jks@comcast.net. It's yours for a small donation to GSARA. And, if you're a nice person, Chris, W2NQB might be talked into delivering it to your QTH. Does it get any better than that?



# GSARA CLUB ACTIVITY PIX

Photos by Harry, KD2EJW



## Some scientists LOVE Ham Radio

- ▶ Hams provide a "vast" consumer market that drives prices down
- ▶ Hams tend to have strong technical skills and can make great volunteers.
- ▶ Hams, particularly contesters, generate useful data.

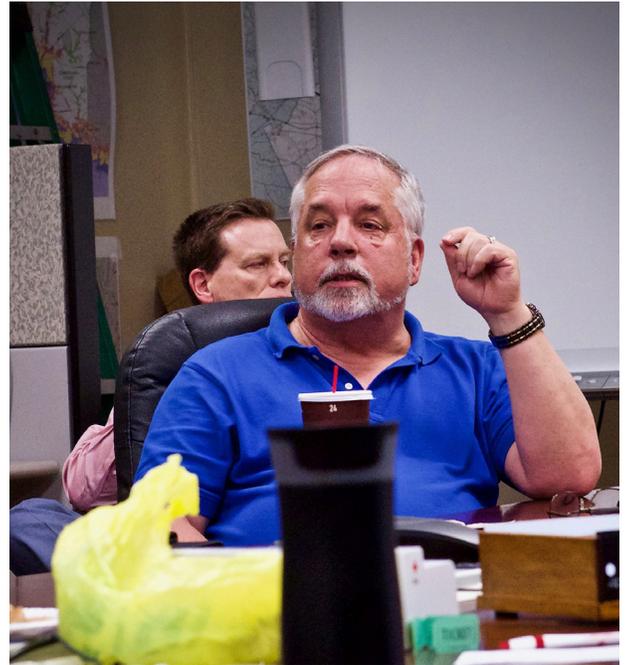
The first meeting in May was informative and well-attended. Blair, KD2EPA's, presentation on Space Weather was dynamic-scientific stuff but Blair put it in layman's terms so everyone took something away as well as hammering home the point that what we do as hams needs to continue, relating, I think successfully, how scientists gather data from our work. Above are some of the shots of this fun meeting.

**Have you not been to a meeting lately?  
You are invited!**

**You do not need to be a member of the club to  
join us (but we hope you become a member!)**



Denis pointing out the fine points of the revised Constitution



Art asking an important question about Field Day... what will we eat?

## ROSTER CHANGES

The new GSARA Roster dated May 4 was distributed to all members and is on our members only web site. Of course, as soon as it is distributed, there are some changes. Please note the following:

Luke Ferrone changed his call from W2LAF to NF3E.

Mike Schiafone changed his call from KD2PMC to K2MFS.

## Where are the meeting minutes?

Please go to this link to access the minutes at  
<https://www.gsara.club/meeting-minutes>

You can also access the latest roster at the above link

# Club Benefits

## W2GSA CLUB NET

The GSARA weekly net meets each Tuesday evening at 8:30 on the GSARA repeater. Everyone is welcome to hear news of upcoming club events and activities, reports of the latest club news and everyone can share what they have been up to. Please join us. The more participation, the more fun!



## GSARA.CLUB W2GSA.ORG

Have you seen the GSARA website lately at <https://www.gsara.club/>? Check it out often for updates, news, announcements and general club information. If you have not yet done so, send us a picture of your shack and a selfie for the Members; Shacks and Our Members page. There is also a new feature: there is a Members Only Page which will contain important links viewable by GSARA members only including the most current roster and, in the coming months, the previous month's minutes from the meeting. Send your selfies to Cy, K2CYS at [k2cys@arrl.org](mailto:k2cys@arrl.org). Do you have any other great ideas for the site? Let Cy know.



## QSL BUREAU

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). Either John, KA2F or Len, WA1PCY 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?



# WELCOME NEW MEMBERS

Please welcome Shannon Gilvary, KD2PUJ to the GSARA. Shannon just passed the Technician exam at the GSARA VE session in April. He is a programmer from Red Bank who is also interested in sailing and music. He is on the latest May 8 Roster on the members only web page. A warm welcome to Shannon!

## NJDXA SECRET WEAPON

By Urb Lejeune, W1UL  
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### Background

September 1957 witnessed the introduction of The North Jersey DX Association (NJDXA). This event encountered broadly based yawns. Little did they know. The DXCC Mixed Honor Roll in the September 1957 issue of QST contained only 21 calls and the Phone Honor Roll contained only 13 calls. There were no W2s on either list although NJDXA member W2AGW was one country off the honor roll and NJDXA member W2BXA led the second call area on phone.

By 1966 the mixed DXCC honor roll swelled to 149 of which 28 (19%) were NJDXA members. There were only two W2s non-NJDXA-members who were on the Honor Roll. How could the NJDXA

become a DX force of nature in such a short period of time? The answer is simple; we had a secret weapon, semi-private 2 meter channels.

### Two Meters

Shortly after the end of WWII the pre-war 2.5 meter band was assigned to broadcast TV. Hams were assigned the current 2 meter band obsoleting all pre-WWII VHF equipment. At the time huge amounts of surplus military electronic equipment became available in various "Radio Rows" around the country. However, that's a story for another time. If you're interested check out Wikipedia;

[https://en.wikipedia.org/wiki/Radio\\_Row](https://en.wikipedia.org/wiki/Radio_Row)

The SCR522 quickly became one of the more popular VHF transceivers. It was designed as an air-to-ground 125 to 150 MHz transceiver and its 832 final tube delivered about six watts of AM. Four switchable crystals provided the



ability to move around the band. Another popular “Radio Row” item was barrels of crystals, typically 25 cents each or 5 for a buck. Another very popular item was brand spanking new J38 keys in a box for 50 cents.

Most of the general 2 meter activity was in the lower MHz of the band. The early pre-NJDXA operators set up shop at the very high end of

the band where they were essentially undetected. There were two frequencies used, channel A for general DX chatting and channel D for serious DX-related communications. Channel D was barely inside the band and channel A occupied a spot slightly lower.

In the late 1950s, Gonset introduced the famous “gooney bird.” In the early 60s CD organizations were purchasing CD colored Gonset Communicators and routinely “loaned” the rigs to local hams for CD drills. All the 2 meter operation was simple because repeaters were still in the future.

### The NJDXA Secret Weapon

Simplicity was the keynote of the NJDXA channels. On channel A one might ask, “What’s happening on 40 meters.” The “secret” operation was a bit more complex. Every member of the NJDXA received a current DXCC wish list from Ted Marks, W2FG, at the club’s monthly meeting. It was an ARRL DXCC county list embellished with a letter designation and a telephone number for each member. To illustrate, my letter identification was “D” (I was W2DEC at the time.) Next to KA0 (That’s KA zero,

the prefix for Iwo Jima) Ted would place “D” and the letter designation of any other members needing KA0. Another list contained the phone number for “D.”

*“By the time you received the magazines the information in it was three months old!”*

Our alert protocol was a “single jingle.” If you heard some rare DX while in your normal listening phase you checked the wish list. If someone needed that

country, you called them on the “twisted pair.” You let it ring once. Phone calls outside your immediate area were expensive back then.

Here is an example of what typically happened. Bob, K2GMO hears KA0IJ and calls W2DEC on the phone, letting it ring once. W2DEC then goes to channel “D” and simply says, “W2DEC.” Bob would say KA0IJ 14035. That was it. Any additional communications shifted to channel “A”.



If a member was out of 2 meter range the “single jingle” the meeting took place on 14.295 MHz. Twenty meter phone

ended at 14.300 back then and all the DX activity took place at the low end of the phone band so 14.295 was a good hiding place.

### Epilogue

Hindsight is required to fully appreciate the effec-

tiveness of our clandestine operation. There was no internet, no spotting networks, no bulletins and propagation forecasting was in its infancy. The DX columns in QST and CQ were the only sources of public DX information. By the time you received the magazines the information in it was three months old.

In the 1950/1960 era any DXer worthy of the name spent at least 20 hours listening for every hour of transmitting. The leveraging effect of 30 sets of ears listening for you was dramatic. Contrast that with a good friend of mine who has various spotting networks running all the time. When he sees a country he needs, he turns on the rig, works the DX and goes back to whatever he was doing. After years of this operational mode honor roll status is within sight.

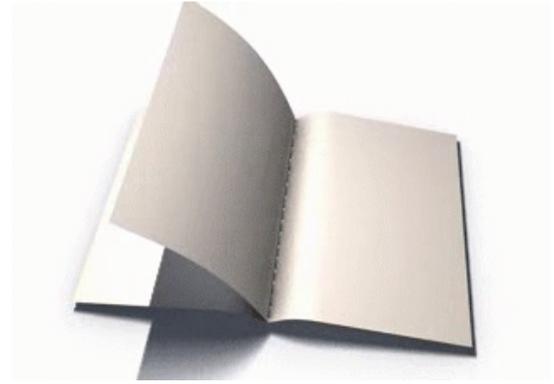
I'm not proclaiming "search and pounce" as the preferred method of DXing; however, the old way provided a fantastic sense of accomplishment because honor roll status required years of concentrated individual activity. It has been my experience that the greater the challenge, the greater the feeling of accomplishment when the task was finally completed.

73 Urb W1UL [urb@ham-cram.com](mailto:urb@ham-cram.com) 68 Years a ham!

## GET INSPIRED FOR FIELD DAY 2018!

# Receiving Antennas for the Radio Amateur:

## Book Review: Bob, W2OD

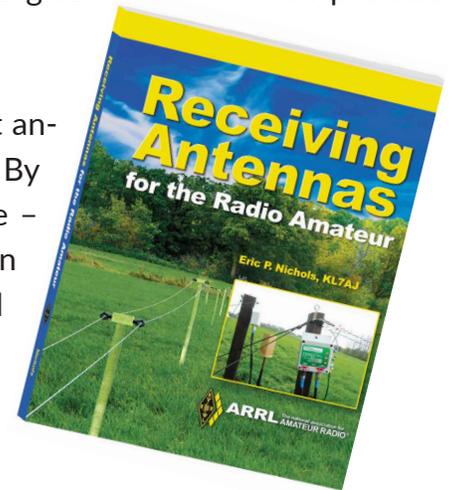


Book written by Eric P. Nichols, KL7AJ

This book was recently released by the ARRL so I decided to purchase it because I liked previous books by Eric Nichols. The book is a pretty fast read and not highly technical. I would particularly recommend this book to those who see no advantage in having a separate receiving antenna.

Although reciprocity is the rule for all antennas (the efficiency and pattern are the same for both transmitting and receiving), there are times when a separate receiving antenna will allow hearing signals that can't be heard on your transmitting antenna. This is because the prime criterion for transmitting is efficiency but the prime criterion for receiving is to optimize the received signal to noise ratio. This is especially true on the lower bands which are plagued with noise sources that can cover up the desired signal. A small, inefficient directional antenna can null out much of the noise to give improved receive S/N performance.

My biggest gripe about this book is that Eric refers to flag and pennant antennas without defining what they are and I wasn't familiar with them. By looking up his reference to a 2000 QST, I did find out what they were – simply small rectangular and triangular loop antennas with a termination to give unidirectional performance. It would have helped me if he had explained that with a sentence or two. I doubt if many hams know what flag and pennant antennas are since this one QST article of 18 years ago seems to be the only place they are described.



My other criticism is that Eric has Chapter 22 devoted to antenna projects but does not give much detail about how to build these projects. This would be a particular hardship for the newer amateur who might want to build one of the antennas described.

If you are wondering why any ham would want a separate receiving antenna, this book is for you. I am donating it to the GSARA library and it will be available for take-out after the June 6 meeting.

**73 de Bob, W2OD**

# ANNOUNCING 2018 INDUCTEES: CQ AMATEUR RADIO

## HALL OF FAME

(Xenia, Ohio - May 18, 2018) - The CQ Amateur Radio Hall of Fame has 11 new members for 2018, CQ magazine announced today. This brings to 321 the total number of members inducted since the hall's establishment in 2001.

The CQ Amateur Radio Hall of Fame honors those individuals, whether licensed hams or not, who have made significant contributions to amateur radio; and those amateurs who have made significant contributions either to amateur radio, to their professional careers or to some other aspect of life on our planet. The 2018 inductees (listed alphabetically) are:

Marlon Brando, FO5GJ (SK), iconic movie actor

David Brown, KC5ZTC (SK), NASA astronaut killed in 2003 Columbia disaster

Kalpna Chawla, KD5ESI (SK), NASA astronaut killed in 2003 Columbia disaster

Laurel Clark, KC5ZSU (SK), NASA astronaut killed in 2003 Columbia disaster

Ashhar Farhan, VU2ESE, pioneer in popularizing open-source Bit-X "semi-kits" using Arduinos for affordable QRP transceivers

Grady Fox, W4FRM (SK), SSB pioneer; worked on Manhattan Project during World War II and the camera for NASA's lunar landers

Wendell King, ex-2ADD (SK), African-American pioneer of broadcasting and college radio

Fred Lloyd, AA7BQ, founder of QRZ.com, the most widely-accessed amateur radio website

Mark Pecen, KC9X/VE3QAM, wireless communication and networking pioneer, inventor, cybersecurity expert

Carole Perry, WB2MGP, longtime advocate for youth in amateur radio; moderator of Dayton youth forum for more than 30 years

Ed Westcott, W4UVS, photographer who chronicled the Manhattan Project during World War II and later helped the FBI with its investigation of the Jonestown massacre

Two new members each are also being inducted into the CQ DX and Contest Halls of Fame at the respective Dayton DX and Contest dinners. Their names will be announced separately.

**R**oberto, AC2PD and Cy, K2CYS set up the computer and the radio with the Signalink interface to operate on SSTV. After a bit of finessing, Roberto made the first GSARA QSO with Tulsa, OK on Slow Scan (Scottie 1). If you have never tried SSTV, you can download the software from Ham Radio Deluxe or MMSSTV and give it whirl. It is tons of fun.

Below is a screen capture of Roberto's first SSTV QSO.



WANT  
TO KNOW  
MORE ABOUT SSTV? GO  
TO THIS LINK: <http://www.arrl.org/sstv-slow-scan-television>

# From the Archives



## FIVE YEARS AGO

From the June 2013 Propagator: Rem Hunnewell, K2REM joined GSARA. Ray Lett, W2NXG became a silent key. Two Yaesu FT-450D transceivers were purchased for the shack at the Red Cross. Hudson Director Mike Lisenco, N2YBB was guest speaker at our June 5 meeting.

## TEN YEARS AGO

From the June 2008 Propagator: Field Day was approved to use Dean Field at Fort Monmouth. Jim, K2EI has purchased an air cannon to get the antenna supports over the light stands at the ball field. Rich Krohn, N2SMV is the new Section Manager for NNJ. Ham astronaut Ron Parise, WA2SIR became a silent key at age 57.

## FIFTEEN YEARS AGO

From the June 2003 Propagator: Ray Lett, W2NXG will be operating a Kid's Day station in Aberdeen. Frank Gudicello, K2TVY was coordinating Field Day at Tatum Park. The 60-meter band is expected to become available later in the year. An article on how to operate on the 5 channels was presented.

## TWENTY YEARS AGO

From the June 1998 Propagator: Harry Landau, W2IX became a silent key at the age of 84. The QCWA awards banquet was attended by 134 people, many of whom were GSARA members. An updated GSARA roster was included which listed 139 members in good standing. Tony, KA2ZSI upgraded to General. Bob Curci, N2XR is coordinating GSARA Field Day at Tatum Park. Bob, W2OD just finished his stint as an expert witness for an international patent infringement suit at the Royal Court of London. Bob, W2OD updated his computer from Windows 3.1 to Windows 95 with plenty of problems.

## TWENTY-FIVE YEARS AGO

From the June 1993 Propagator: Guest speaker at the June 2 meeting will be Ed Kracum, WB2COP (SK) talking about "Getting Started in Packet Radio". Mark Rubin, WA2GRD donated a 35" CRT-type TV to GSARA. Charlie Gspann, W2ZEE (SK) was awarded the Public Service Award by Chapter 138 of the QCWA. Rich Moseson, NW2L handily won the election for NNJ Section Manager. The front page of the Two River Times featured amateur radio and emergency communications and had a picture of Phil Petersen, W2DME at his shack.

## THIRTY YEARS AGO

From the June 1988 Propagator: John Breza, N2IBT was voted in as a new member. Harry Landau, W2IX wrote an article about HT antennas. The “rubber ducky” is only 8% to 10% efficient while a half-wave antenna is over 50% efficient. Ken Proctor, N2DQD wrote a 3-page article about power supply hum and how to get rid of it.



## OMARC HAMFEST JUNE 2

Please mark your calendars and plan to attend the OMARC Hamfest being held on Saturday, June 2 at the firehouse at 700 Sixth Avenue in Spring Lake Heights. The event opens at 7:30 am (vendors at 7 am) and admission is \$5 with kids under 12 free. Besides lots of radio goodies for sale at bargain prices, there will be food and drinks for sale and a VE Test Session at 10 am in the meeting room. Call in is on 145.110, -600, CTCSS 127.3. For additional information call Joe Kruszewski, KC2SVS at 732-618-5328 or joekru1@hotmail.com. Don't miss this fun event! **[DOWNLOAD THE FLYER HERE.](#)**



## GSARA TUESDAY NIGHT NET REPORT



GSARA members meet on the Asbury Park repeater every Tuesday at 8:30 pm. In the 5 sessions in May, we had 55 check-ins for an average of 11 per session. The following 21 members checked into this net (number of check-ins in parenthesis):

N2HGI (5), K2NPT (5), W2OD (5), KD2EJW (4), W2MJP (4), KC2YNL (4), K2CYS (3), KD2EPA (3), WB2RPW (3), NF3E (2), KA2F (2), N2JFL (2), WA2JOE (2), AC2MB (2), N2MEP (2), W2NQB (2), N2BMK (1), AD7I (1), KB2MAB (1), KG2NV (1), and KD2OBV (1).

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

## NOW YOU KNOW

### **CHARLES APGAR, 2MN - COUNTERSPY**

By Bob Buus, W2OD

Charles Apgar was born in 1865 and the family moved to Bernardsville, NJ in 1876. After 3 years of high school and 1 year of college, Charles landed his first job in 1885 in New York in the treasurer's department of New York Life Insurance Company. As he moved up in the company, he married in 1894 and moved to Westfield, NJ. His first son, Charles, was born in 1900. Job pressures caused a nervous breakdown in 1902 and his doctor advised him to quit the insurance business and go into something less stressful. He sold pianos and cars until 1909 when he landed a job with the American Marconi Company research department. Meanwhile, his son, Charles died in 1904. Another son, Lawrence was born in 1907 and a daughter, Virginia was born in 1909. Virginia later became a famous Doctor who invented the 5-point Apgar test for newborn babies.

After joining the Marconi Company, Charles became interested in amateur radio and shortly after licensing was required in 1912, he obtained his license with the call letters 2MN. This was issued in New York City by the Chief Radio Inspector in the Department of Commerce, Lawrence Krumm. Krumm and Charles Apgar became good friends and in a social visit in April 1915, Charles showed Mr. Krumm an invention he had been working on for the past three years. It consisted of a radio headphone with a phonograph needle solders to its diaphragm. This assembly replaced the acoustic playback mechanism on an Edison cylinder phonograph player and could thus record radio transmissions on a wax cylinder.

In early 1914, the German company Telefunken upgraded their station in Sayville, Long Island from a 35 kW damped spark transmitter to a 100 kW continuous wave station using a Joly-Arco alternator at 9.613 kHz and magnetic frequency multipliers to bring the frequency up to 38.452 kHz. They also improved the antenna by adding 3 more 500-foot towers to produce a signal that could be heard throughout Europe. Telefunken also installed a machine that could convert letters typed on a keyboard to dots and dashes punched on paper tape. By playing the tape on a reader at very high speed, the Morse code messages could be sent at up to 150 wpm. This not only allowed many messages to be sent in short time, but by being at such a high speed, amateur listeners could not decode the message, thus giving a degree of privacy.

When World War I broke out on July 28, 1914, the U.S. Navy sent inspectors to all foreign-owned radio stations in the United States to assure American neutrality in all messages sent and received. The Navy was informed about the high-speed tapes used at Sayville and agreed that the system could continue to be used as long as the Navy had access to all message texts and the resulting punched tapes so they could assure that the text and the tapes contained the same information.

On May 7, 1915, the Lusitania was sunk off the coast of Ireland. The U.S. Secret Service had evidence that the ship was misdirected by false radio transmissions and also suspected that somehow the Sayville station was sending shipping information to the German U-boats. Not knowing much about wireless, the Chief of the Secret Service, William Flynn, contacted Lawrence Krumm for assistance in the investigation of the Sayville transmissions. Krumm remembered the recorder of Charles Apgar and asked him if he could record the high-speed transmission coming from Sayville. Charles agreed and starting on June 7, 1915 he recorded on wax cylinders the Sayville high speed transmis-

sion from 11 pm to 3 am each day. These were all sent to Flynn in Washington on June 21st.

After decoding the messages and comparing them to the punched tapes, it was discovered that the Sayville station was transmitting extra "errors" with interspersed extra dots and wider spaces in the standard messages. These hidden messages contained coded shipping information for U.S. ships and the Secret Service ordered the Navy to take over the Sayville station. Dr. Karl Frank, the manager of the station, spent the rest of the war years in a Federal prison in Atlanta and was deported to Germany after the war.

U.S. shipping losses dropped dramatically after the takeover of the Sayville station and this gave Charles Apgar great satisfaction. The New York World reported on July 8, 1915 that Charles Apgar's recordings were "the most valuable service ever rendered by an amateur radio operator in our country."

Then the cover-up began. Both the Secret Service and the Navy stated that Apgar's work played no significant role in cracking the secret transmissions. The Bureau of Navigation and the Department of Commerce also backed up the Navy statements that Apgar's contribution was insignificant. Nearly 10 years later, when he no longer worked for the Secret Service, Flynn wrote a letter to Apgar offering to publically give him the proper credit

which was denied to him during the war.

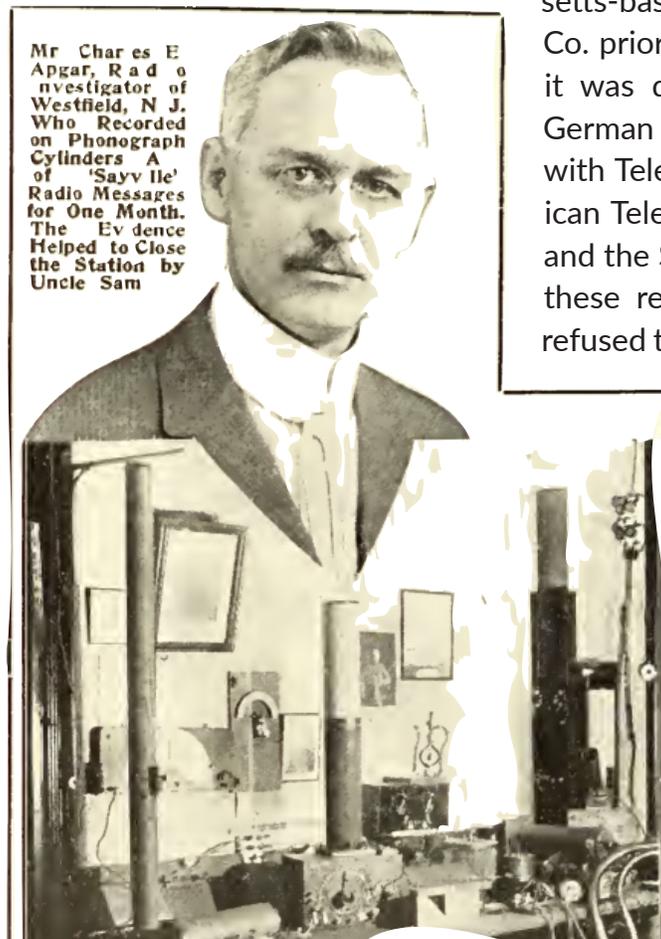
Charles died in 1950 and his famous daughter, Virginia died in 1974. 100 years after this event, Charles Apgar, 2MN was inducted into the CQ Hall of Fame in 2015 for his recording work.

How did the German U-boats slow down the high-speed transmission and receive their secret messages? They used wire recorders which were invented in 1899 and named Telegraphones by Valdemar Poulsen (who invented the arc transmitter in 1903) and marketed by the Massachusetts-based American Telephone

Co. prior to the war. After the war, it was discovered that all of the German U-boats were equipped with Telegraphones made by American Telephone. Both the Navy and the Secret Service tried buying these recorders but the company refused to sell to them. After threat-

ened with a lawsuit, the company delivered defective units to them so they were thwarted in their attempts to record the high speed transmission and play them back more slowly. Charles Apgar, 2MN bypassed this problem with his recordings on wax cylinders.

*So now you know!*



## GSARA Officers

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## GSARA Swag 'n Such

### GSARA Patches

We have GSARA patches available at all meetings and they are \$3. Show your GSARA pride!

### GSARA News

Keep up with GSARA news at the GSARA website:

[www.gsara.club](http://www.gsara.club)

[www.w2gsa.org](http://www.w2gsa.org)

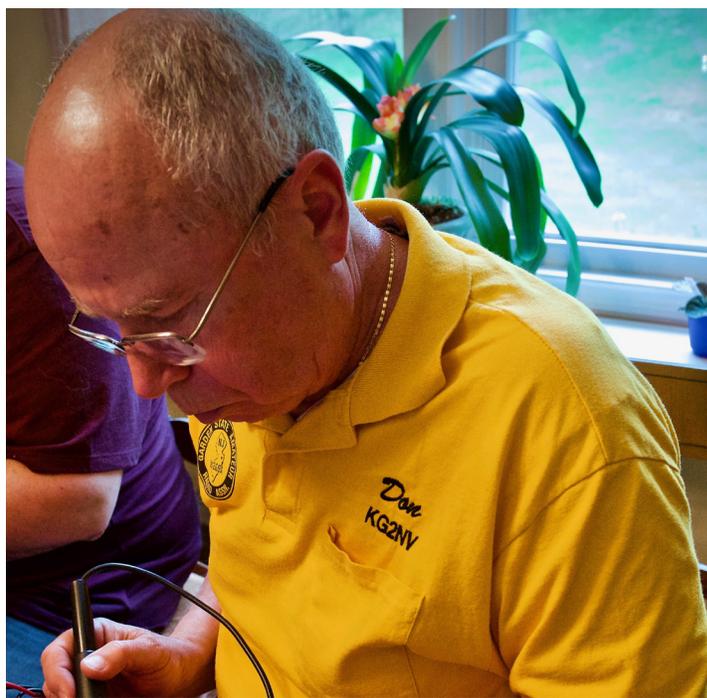
### Blue Swan Diner Eyeball QSO!

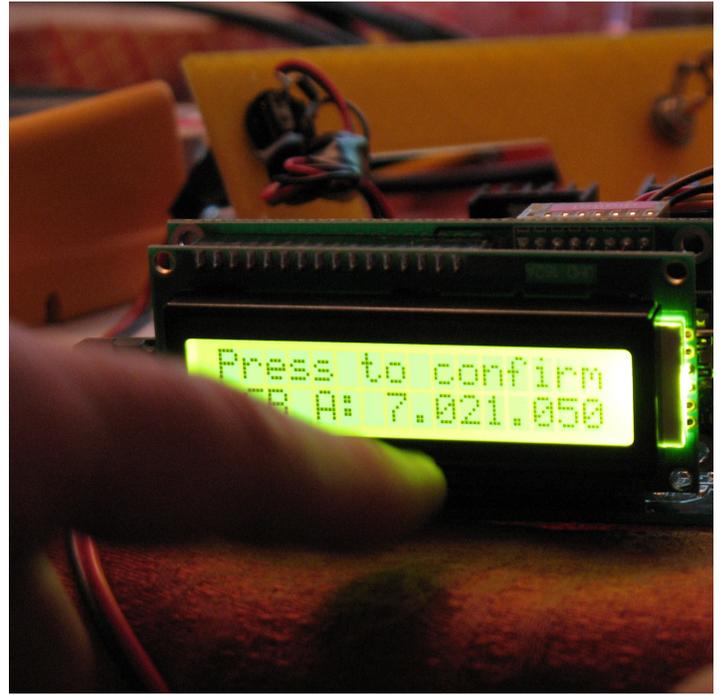
A number of local radio amateurs meet each Friday at the Blue Swan Diner on Highway 35 south in Ocean Township at noon. Anyone interested in amateur radio is welcome to join us in the back left corner of the diner.



## MICRO-BITX BUILD WAS A GREAT SUCCESS!

*It was rainy and cold outside but inside it was dry and warm as 8 GSARA members got together to build a microBitX all band transceiver. Under the watchful eye of Art and Ted, the radios got built and all were working to one degree or another! It was a lot of fun and now we all just need to hook up an antenna and get on the air!*





Many thanks to Harry and Chris for these wonderful pictures!

Many thanks to those who participated: Chris Wantuck, Don Pingitore, John Karpus, Art Olson, Cy Stanway, Harry Zuzuro, Blair Heath and Ted Copp

Have an idea for a club activity? Tell one of the GSARA officers and let's see if we can make it happen!

## NOTES ON CALENDAR (see next page)

- Large Call letters denote birthdays e.g. **K2ARV** June 1. All times are EDST. Contests are listed in the June QST, p. 82.
- June 1 and every Friday – **Lunch at the Blue Swan Diner** in Ocean at noon. Table at back left.
- June 2 – **OMARC Hamfest at Spring Lake Heights Fire Department**. 7:30 am to noon, \$5 admission. VE session at 10 am. Talk in on 145.110, -600, CTCSS 127.3.
- June 5 – **Old Barney VE Test Session** at 6:30 pm in Manahawkin. Contact Urb Le Jeune, W1UL at 609-296-5856 or [urb@w2dec.com](mailto:urb@w2dec.com)
- June 5 – **Old Barney ARC Meeting** at 7:30 pm in Manahawkin, NJ. See <http://www.obarc.org>
- June 5 and every following Tuesday – **GSARA Net** on 147.045 PL=67 at 8:30 pm.
- June 5 and every following Tuesday – **QCWA News Net** on 147.045 PL=67 at 9:00 pm.
- June 6 – **GSARA Program Meeting** at 7:30 pm at the Red Cross. The program will feature Urb Lejeune, W1UL who will talk about his Ham-Cram web page which is available free for those wishing to study for any of the amateur exams. Refreshments will be served.
- June 6 - **W1AW Qualifying Run** at 10 pm (10-35 wpm). See June 2018 QST page 96 and [www.arrl.org/qualifying-run-schedule](http://www.arrl.org/qualifying-run-schedule)
- June 7 - **HCARC Meeting** 7 pm at Holiday City South Clubhouse in Toms River.
- June 7 - **Monmouth County ARES/RACES Net** meets on 147.045 +600, PL=67.0 at 8:00 pm
- June 9 – **OMARC Meeting** at 9:00 am at the Firehouse on 600 Sixth Ave. in Spring Lake Heights. Guests are always welcome.
- June 9-10 – **ARRL VHF Contest**, all modes from 2 pm Sat. to 10:59 pm Sun. See <http://www.arrl.org/june-vhf>
- June 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](mailto:lpuccio1@comcast.net)
- June 14 – **JSARS meeting** in Riverwood Park Rec. Building, Rt. 527 and Riverwood Drive at 7:30 pm.
- June 16 – **Kids Day Contest**, Phone from 2 pm to 7:59 pm. See <http://www.arrl.org/kids-day>
- June 17 – **Father's Day**. Enjoy!
- June 18 - **Monmouth County ARES/RACES Net** meets on 147.045 +600, PL=67.0 at 8:00 pm
- June 19 - **W1AW Qualifying Run** at 7 pm (10-35 wpm). See June 2018 QST page 96 and <http://www.arrl.org/qualifying-run-schedule>
- June 20 – **GSARA Business Meeting** at 7:30 pm at the Red Cross in Tinton Falls. Refreshments will be served and guests are welcome.
- June 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](mailto:wa2nda@comcast.net).
- June 23 – **GSARA VE Test Session** at 11 am at the Red Cross in Tinton Falls. See page 1.
- June 23-24 – **ARRL Field Day**, all modes from 2 pm Saturday to 2 pm Sunday. See <http://www.arrl.org/field-day>

## JUNE 2018

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1 <b>K2ARV</b> <b>KC2RRP</b> Blue Swan lunch	2
3	4 ARES/RACES 8 pm	5 Old Barney ARC GSARA Net 8:30 QCWA News 9 PM	6 GSARA Mtg CW Qual. Run	7 <b>KD2PUJ</b> HCARC Mtg	8 Blue Swan lunch	9 OMARC Mtg  ARRL VHF
10 ARRL VHF	11	12 <b>KD2FHT</b>  GSARA Net 8:30 QCWA News 9 PM	13 Hol. City VE	14 JSARS Mtg.	15 <b>W2HAM</b> <b>W2IY</b> Blue Swan lunch	16 Kids Day
17 Father's Day	18 <b>KA2F</b> ARES/RACES 8 pm	19 CW Qual. Run GSARA Net 8:30 QCWA News 9 PM	20 <b>N2MN</b>  GSARA Mtg	21 <b>WB2KCV</b>  JSARS VE	22 Blue Swan lunch	23 GSARA VE Field Day
24 Field Day	25	26 <b>N2LXM</b> GSARA Net 8:30 QCWA News 9 PM	27 <b>W2HTS</b>	28	29 Blue Swan lunch	30 <b>KD2LUK</b>



G.S.A.R.A.  
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HOLMDEL, NJ 07733

First Class