

The Propagator

Garden State Amateur Radio Association

8 DONNER ST.
HOLMDEL, NJ 07733

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PUBLISHER: CY STANWAY, K2CYS

www.gsara.club



JUNE 2017



FROM THE EDITOR

BOB BUUS: W2OD

June is a busy month for SOME GSARA members. We have the BitX40 build at Cy's house on Sunday, June 4 at 10:30 am with about 10 members participating. Then the following Sunday (June 11) we have the

GSARA Hamfest with about 15 to 20 GSARA members participating.

Two weeks later, on June 23-25, we have our big operating event, Field Day, with maybe 20 participants.

So, a total of 45 to 50 members will be participating in our June activities (not counting attending meetings). Considering that we have nearly 100 active members, 45 to 50 participants sounds pretty good. If we look at who these participants are, it's the same few members participating in ALL of the activities. So the adage holds true that 10% of the members of an organization do 90% of the participation.

I guess we're normal. But I feel sad in thinking that so many of the members are missing out on the FUN of participating in these activities. The 10% are having a ball while the other 90% don't know what they are missing. Too bad.

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

73 de Bob, w2od@arrl.net

UPCOMING GSARA MEETINGS

The next GSARA meeting will be on Wednesday, June 7 at 7:30 PM at the Red Cross. The program will include a recap of the BitX40 Build, final preparations for the Hamfest and Field Day planning. Light refreshments will be served and guests are welcome.

The second meeting in June will be held on Wednesday, June 21 at 7:30 PM at the Red Cross. This will be a regular business meeting. Refreshments will be served.



GARDEN STATE AMATEUR RADIO ASSOCIATION



HAMFEST

Sunday, June 11, 2017
8 a.m. to 12 p.m.



MOESC parking lot
100 Tornillo Way. (off Shafto Rd.), Tinton Falls (07712)

Admission:

Vendors 7 a.m.

NO CHARGE first space, with purchase of admission

Limit 1 5.00 space per Car \$10.00 ea additional Space

Buyers 8 a.m. \$5.00 per person



- VE Session—Starts at 11:00AM
 - QSL Card Checking
 - Entertainment
- Food and hot and cold Beverages
 - 50/50s and door prizes
 - Demonstrations
- Talk-in—W2GSA REPEATER: 147.045 + PL 67

For

Additional Information and Pre-Registration

Rem Hunnewell K2REM 732-889-6692

Email to: HAMPFEST@GardenStateARA.Org



Anyone ever work this guy?!

VE TEST SESSION JUNE 11

The GSARA monthly test session will be held at the GSARA Hamfest on Sunday, June 11 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 732-972-1397 or n3rb@arrl.net

arrl.net.

Field Day - 2017
June 23 Setup – June 24-25 Operate

From Joe, W2KQ - In order to provide operating opportunities for as many members as possible, to get as much as possible out each band and mode, and to ensure a full 24-hours of operation, Field Day 2017 planning is based on scheduled hours, modes, and operators. Looking for both seasoned operators and those who haven't yet experienced the fun of making contacts on a 1000-foot antenna up 70 feet.

Select your mode and hour from the chart below and call Jim, K2EI, at 732-741-1613 or e-mail to k2ei@arrl.net.

Hour	Mode	Operator	-Logger-	Hour	Mode	Operator	-Logger-
1400	CW	Cy, K2CYS		0200	CW		
1500	Phone			0300	Phone	Rem, K2REM	
1600	CW			0400	CW		
1700	Phone	Mike, W2MJP	Jim, K2EI	0500	Phone	John, KA2F	
1800	CW			0600	CW		
1900	Phone	Art, N2AJD		0700	Phone		
2000	CW			0800	CW	Jay, W2FLK	
2100	Phone	Mike, K1MH		0900	Phone		Blair, KD2EPA
2200	CW			1000	CW		
2300	Phone	Marty, N2BMK		1100	Phone	Alan, W2NIR	
0000	CW			1200	CW		
0100	Phone	Joe, K2FSH		1300	Phone		

We will need help with antenna installation and tent/equipment setup Friday afternoon, and take down of everything Sunday afternoon. Please let Jim know of your availability.

1200 Fri Setup	Denis, K2NPT	Mike, W2MJP				Chris, W2NQB	Arek, K2KP	Jim, K2EI
1400 Sun Takedown	Mike, W2MJP					Chris, W2NQB	Jim, K2EI	Arek, K2KP

Updated May 4



MINUTES OF MAY 3 MEETING

By Bob Buus, W2OD



President Howard Suffill, W2HTS called the meeting to order at 7:33 pm. There were 16 members and four guests present. The guests were former member Joe Levantino, KB2FSH from Fair Haven, Mike Breslin, AC2MB from Brick, Paul Newland, AD7I from Middletown and George Wilner, K2ONP from Wall. After the pledge to the flag, all present introduced themselves.

Health and Welfare

- Tony, KA2ZSI is slowly recovering and is in a rehab home.
- Laura, N2HGI is housebound and quite weak but is on the Tuesday night nets.
- Len, WA1PCY is recovering at home and is getting his driver's license again.

Field Day

Joe, W2KQ asked for volunteers to help set up on Friday afternoon and Saturday morning. We also need more operators to sign up – especially CW operators. A sign-up sheet was circulated at the meeting.

New Members

An application for membership with payment of \$15 was received from former member **Joe Levantino, KB2FSH** from Fair Haven. Licensed since 1988, Joe holds an Extra Class license. He is on HF with a Kenwood TS450SAT and works both phone and CW. He is also on 2 meter FM with an Icom 2100H. Joe is a Communications Systems Engineer and hopes to increase his CW proficiency. He is also interested in Hiking, Biking and Fishing.

An application for membership with payment of \$15 was also received from **Mike Breslin, AC2MB** from Brick. Licensed since 2016, Mike holds an Extra Class license. He is currently on VHF and UHF but is interested in exploring HF and getting into the various digital modes. He is a Technical Project Manager for an alarm company and is also interested in motorcycles, electronics, computers and toys. He is a member of the ARRL.

A motion was made by Joe, W2KQ and seconded by Diana, KD2NAD to accept both members as active members of GSARA. The motion passed unanimously.

New Business

John King, KA2F made a report about GSARA participation in the Red Cross Drill called Gotham Shield which was held at the Red Cross on April 26. Five GSARA members participated and the drill was generally successful although out attempts at NVIS on 60 and 40 meters did not work. He will e-mail the complete report to all members. The report will also be in the June Propagator.

Announcements

Art, N2AJO represented GSARA at the NJ Marathon.

Howard, W2HTS announced that Norm Palmer has a TS-590 for sale.

Father Dave, KD2KOA is setting up an emergency communication facility at his church and hopes to interest some of the young people in amateur radio. This is thanks to the donation of radios and antennas. Diana, KD2NAD has passed her General and is planning on putting some sort of antenna up in the trees in her years. Joe, W2KQ offered an 80-meter trap dipole that he has.

Program

Bob, W2OD gave a presentation about vacuum tubes, outlining their history and operation.

Close

The door prize was won by Bob, W2OD. There being no further business, a motion was made and seconded to adjourn the meeting which was closed at 9:03 pm.

MINUTES OF MAY 17 MEETING

By Bob Buus, W2OD, Secretary

President Howard Suffill, W2HTS was absent so the meeting was called to order at 7:34 pm at the Red Cross by Vice President Rem, K2REM. President Howard, W2HTS and Hunter arrived at 8:00 pm. There were 17 members and one guest present. The guest was David Downie, father of Jake, KD2MGE from Fair Haven. After the pledge to the flag, all present introduced themselves.

Treasurer's Report

Treasurer John King, KA2F gave an updated report for the last two months. Last months report had errors. A motion was made by Bob, W2OD and seconded by Joe, KB2FSH to accept the report as read. The motion passed unanimously.

Secretary's Report

Bob, W2OD read the minutes of the May 3 meeting. A motion was made by Matthew, N2UG and seconded by Joe, KB2FSH to accept the minutes as read. The motion passed unanimously.

Bob also reported that we received a flyer about the OMARC Hamfest on June 3 in Spring Lake Heights. A letter was also received from Paul Roman requesting our services in providing communication for the Twin Lights Bike Ride on September 24, 2017. The Secretary was asked to respond to the letter by pledging GSARA support for this event.

Field Day

Jim, K2EI reported that the operating slots for phone are nearly filled up but we are in urgent need of more CW operators. Also, we need a few more people for setup on Friday afternoon and take down on Sunday afternoon.

Ft. Monmouth people have been very supportive and helpful in supporting our Field Day site at the old baseball field. We will be using one tent for a hospitality tent and expect visitors and dignitaries. Jake, KD2MGE suggested we reach out in a special way to young people. It was pointed out that we are not yet on the ARRL Field Day locator. Cy, K2CYS should be contacted to correct this. For safety purposes, there will be no cooking of food allowed at the site.

A motion was made by Marty, N2BMK and seconded by Joe, KB2FSH to authorize up to \$500 to meet all

Field Day expenses. The motion passed unanimously.

Hamfest

Rem, K2REM announced that the Hamfest is on for Sunday, June 11 at our usual MOESC site. Rem is looking for volunteers and will be finalizing the positions in the next few weeks. A motion was made by John, KC2YWL and seconded by Howard, W2HTS to authorize up to \$500 to cover expenses associated with the Hamfest. The motion passed unanimously..

New Business

Howard, W2HTS announced that GSARA will be operating at the Sea Girt lighthouse on lighthouse weekend on the third weekend in August. We will have two stations on the air and will operate from about 7 am to 5 pm. W2HTS has agreed to chair this event.

Announcement

The OMARC repeater on 146.110 now includes the Yaesu Fusion capability.

Close

The door prize of \$16 was won by Rem, K2REM. There being no further business, a motion was made by Marty, N2BMK and seconded by Ralph, KC2YNL to close the meeting. The meeting was adjourned at 8:20 pm.

GSARA NET

GSARA members meet on the Asbury Park repeater every Tuesday at 8:30 pm. Everyone is most welcome to join the net. It is a good way to meet people, say hi, and find out what is going on in the club from week to week. In the 5 sessions in May we had 41 check-ins for an average of 8.2 per session.

The following 14 members checked into this net (number of check-ins in parenthesis):

W2OD (5), KD2FSH (4), N2HGI (4), K2NPT (4), KC2YNL (4), N2BMK (3), KA2F (3), W2LAF (3), W2ZIM (3), N2AJ0 (2), K2CYS (2), W2MJP (2), W2HTS (1) and KD2KOA (1).

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

ARES/RACES NET CHANGES

The ARES/RACES net which used to meet on the W2GSA repeater every Monday at 7:30 pm is now meeting on the first and third Mondays of each month at 8 pm. All are welcome to check in.



HOW LOW CAN YOU GO?

Cy Stanway, K2CYS

W

hen I was but a wee ham radio tyke, we used to lament how it was impossible to break a pile up on some DX-pedition because we were not using the ‘California Killowatt.’ The California Killowatt, if you don’t know, is the alleged 1500 watts that the stations in California seemed to be using (since they were getting all the contacts) but it was more true that their ‘kilowatt’ (1000 watts) sounded more like 4000 watts!



The KX3 transmitting 1 watt

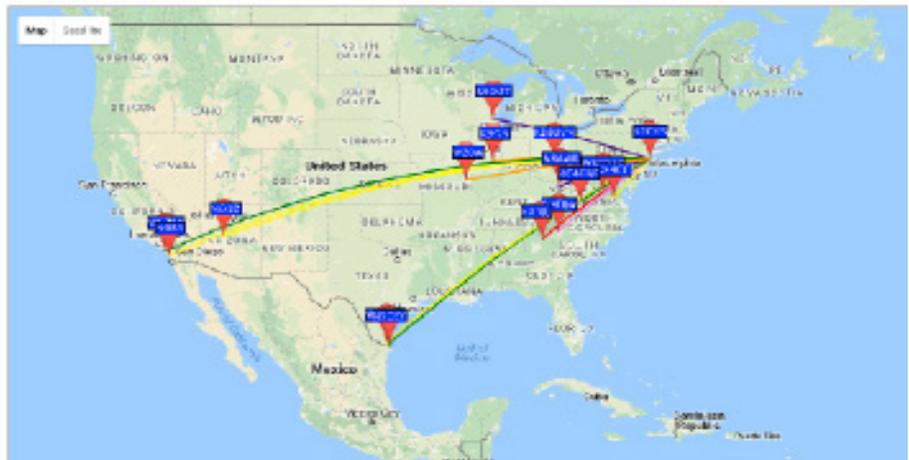
My, how things have changed.

Though high power is nice, especially for the long-haul DX stations or trying to run a wide area net, I have found more and more people experimenting with the polar opposite of QRO (high power) -- QRPp - very, very low power.

We are not talking 5 watts of low power. In the QRP (low power world), 5 watts is considered a lot of power! We are talking 2 watts, 1 watt, or 100 mW! And, it is in that area that I have begun to play around.

Most of us are familiar with PSK-31 which enable effective keyboard-to-keyboard communications with low power - usually 20 watts or so. As well, there are JT65 and JT9 - two very low-power modes originally designed to bounce signals off the moon. Each transmission in these modes is 42.8 seconds and effective communications can be had with 5 watts or less. Of course, each transmission is limited to 13 characters so this is not a high content QSO mode.

Lately, I have been playing with [WSPR](#) as have several people in the club. It is fascinating. Using very low power (about a watt, in my case) and with a simple dipole, I am heard around the world on 40 meters when conditions are right. There was an interesting article in the May 2017 QST (page 41) on the mode and so I decided to give it a try. I was amazed.



This is who heard me with that same 1 watt

I wired up the Rigblaster Advantage to the KX3, turned the power to about 1 watt, downloaded the [software](#), opened the [map](#), watched a quick [YouTube video](#) so I could get an idea of what I was doing, set up the software and waited 2 minutes. It was pretty impressive. The first time I saw my 1 watt signal was heard in Slovakia, I was, as they say in England, 'gobsmacked'!

Of course, it WSPR is not a traditional way of having a QSO. It is a tool for propagation. What did I learn? Well, one is that if I get up at 4 am I can work ZL and VK. I think I will hold off on that one for a while!

OMARC HAMFEST

The Ocean-Monmouth Amateur Radio Club (OMARC) will be holding their spring hamfest on Saturday, June 3 at a new location which is the Spring Lake Heights Fire Company No. 1 at 700 Sixth Avenue in Spring Lake Heights. This is one block from the Spring Lake railroad station on the Bay Head line. Doors open at 7 am for vendors and 7:30 am for buyers. Admission for buyers is \$5 with kids 12 yrs and under free. Food and Drinks will be available. There will be a VE session at 10 am. For more information, contact Joe Kruszewski, KC2SVS at 732-618-5328 or joekru1@hotmail.com.



OMARC HAS MOVED

The Ocean Monmouth Amateur Radio Club (OMARC) has moved out of the Diana site at the Infoage Learning Center. They now meet in Spring Lake Heights at the Firehouse at 600 Sixth Avenue. Meeting times are still the second Saturday of each month at 9 AM. Guests are always welcome.

NEW GSARA MEMBERS

Please welcome the following members to GSARA:

Joe Levantino, KB2FSH is a former GSARA member from Fair Haven. Licensed since 1988, Joe holds an Extra Class license. He is on HF with a Kenwood TS450SAT and works both phone and CW. He is also on 2 meter FM with an Icom 2100H. Joe is a Communications Systems Engineer and hopes to increase his CW proficiency. He is also interested in Hiking, Biking and Fishing.

Joe Levantino, KB2FSH
245 Cambridge Ave.
Fair Haven, NJ 07704
732-890-4949
jlevantino@gmail.com



Mike Breslin, AC2MB is from Brick. Licensed since 2016, Mike holds an Extra Class license. He is currently on VHF and UHF but is interested in exploring HF and getting into the various digital modes. He is a Technical Project Manager for an alarm company and is also interested in motorcycles, electronics, computers and toys. He is a member of the ARRL.

Mike Breslin, AC2MB
42 John McGuchin Dr.
Brick, NJ 08724
732-522-6511
Mikebreslin42@gmail.com

K2CYS WANTS TO HEAR FROM YOU



Cy, K2CYS is continually updating the club website at gsara.club. He wants YOUR projects to show (and show off) to everyone who comes to the site. What are you working on? What great ham radio story can you tell? Send him your text and maybe a picture or two for uploading the website.

Also, send him a picture of you in your shack (and show it off a bit). You may choose to be in the picture, if you wish, but it is not necessary. Send everything to k2cys@arrl.net

GSARA AND GOTHAM SHIELD

By John King, KA2F

GSARA participated April 26 to provide radio communication for the Red Cross during the Gotham Shield disaster exercise.

Here is a copy of the report filed with the Red Cross communications director.

Garden State Amateur Radio Association

Report on club activity in Gotham Shield Communications Drill

April 26, 2017 from 9 a.m. through 2 p.m.

at Tinton Falls American Red Cross

Club participants: Art, W2NAZ; Bob, W2OD; Diana, KD2NAD; Joe, W2KQ; John, KA2F.

Communications Activity

Joseph Dunphy K9MBA Communications Leader presented an overview of the emergency drill activities in the Greater New York City area, explaining that the drill event was the explosion of a 10 ton nuclear bomb over New York City, causing massive casualties and loss of traditional means of communication such as land wired telephone and internet and satellite and cell tower cell phone. The drill result then was the exclusive use of “battery” operated amateur radio repeaters and generator supplied power at all Red Cross facilities.

Garden State Amateur Radio Association members provided communication with other Red Cross and FEMA sites using 2 meter FM. Drill planners set up 4 key repeater locations to be used for emergency and tactical traffic:

- Mt. Freedom, WS2Q 146.895
- Morristown, NO2EL 145.370
- West Trenton, 146.670
- Waterford Works, WA3BXW 147.345
- Simplex, 146.520 (no Red Cross traffic heard here)

All these repeaters were accessible (good signal strength and about 80% quieting) from station W2GSA using the 2-meter vertical antenna atop the tri-band tower, at approximately 60 feet high. It was also possible to access the Waterford Works repeater using high power (150 watts) and the 2-meter yagi antenna atop the tower. All 2-meter communications were done using KA2F's personal radio (Yaesu FT-2100) at 50 watts output power, since all needed repeaters were in memory in this radio while the club Alinco/ Radio Shack radios did not have all of them. We attempted to use the 2-meter 150 watt amplifier with the Ft-2100 at reduced power but the attempt failed because the power supply was unable to carry the load, perhaps insufficient power supply amperage. (It was afterwards determined that the power supply was on 3 amps!!!!)

Approximately 20 messages were passed and recorded on Red Cross message and logging sheets by W2GSA/Tinton Falls Red Cross to and from Red Cross and ARES personnel at the various repeaters. The greatest volume of traffic was through Mt. Freedom to Red Cross in Fairfield and NY City. A Red Cross radio was lent to the station to monitor traffic on 888mHz, which is used exclusively by the Red Cross.

At Tinton Falls, Red Cross personnel operated in the DOCK room and this is where GSARA received instructions and filed reports and messages.

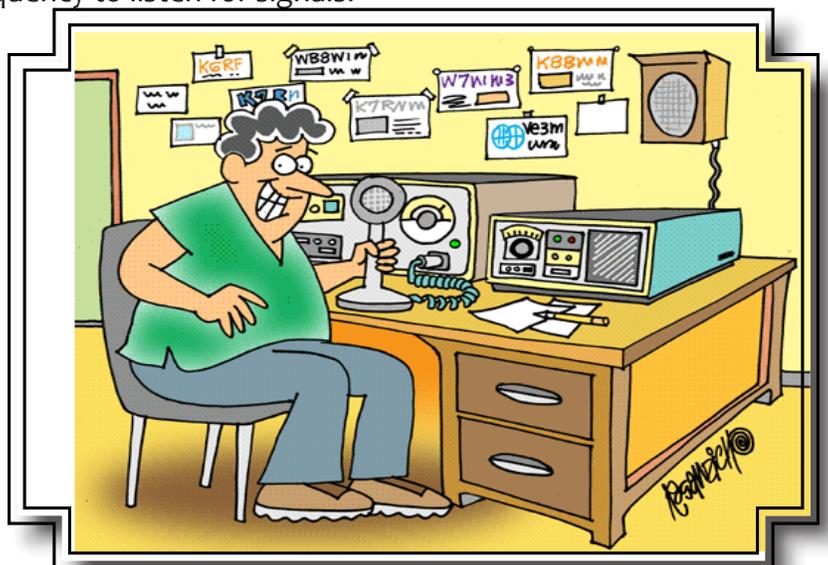
NVIS HF communication was tested without success between Tinton Falls, Brooklyn Navy Yard, and West Trenton on the following bands, 60 meter band (5.3305), 75 meter band and when these failed it was decided to try the 40 meter band. On the 40 meter band, Tinton Falls and West Trenton could not hear each other. However, a station in Maine (408 miles away) actually made 5-9 contact with West Trenton and Tinton Falls and even volunteered to serve as a relay station. It was decided to not do this in so far as the Maine station was not part of the official communications drill and further attempts at HF communication were discontinued.

However, it was duly noted that in future drills it would be a good idea to set up a few amateur stations 400 to 500 miles from New York City to serve as relay stations in the event of repeater failure. It was also suggested that experiments should be conducted for daylight and nighttime NVIS operation with specially made NVIS antennas.

It was noted that GSARA did not have a radio capable of transmitting in the 60 meter band, although the Yaesu FT-450D were tuned to the 5.3305 frequency to listen for signals.

It was very helpful to have met with Howard W2HTS on the Saturday before the Gotham Shield exercise when he explained which coaxes went to the tower top vertical and which went to lower 2-meter antennas.

All GSARA members worked well together and were very involved in and helpful to the whole communications drill.



- GSARA Patches are available at all meetings for \$3
- The Propagator is now on the web at the club web site at www.gsara.club
- Outgoing QSL cards can be sent to the ARRL directly from the GSARA Simply bring them to the next meeting with proof of ARRL membership and John, KA2F or Len, WA2PCY will send them on.
- Every Friday at noon anyone is welcome to join the group for lunch at the Blue Swan Diner in Ocean Township.

HEINRICH DANIEL RUHKORFF

By Bob Buus, W2OD

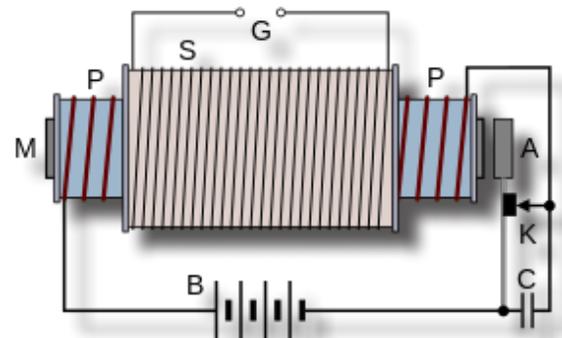
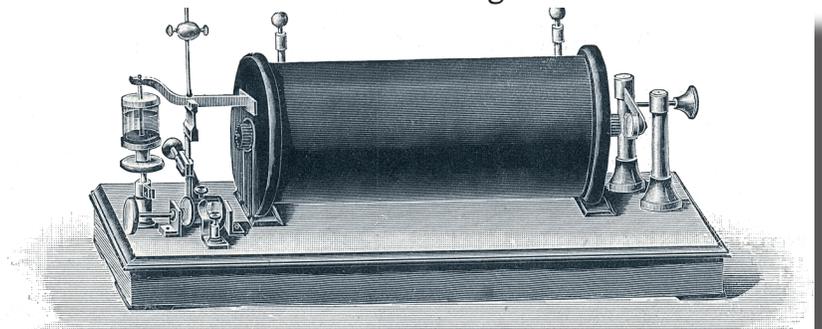
Born in Hanover, Germany in 1803, Heinrich Ruhmkorff became an instrument maker who gained a reputation for his quality electrical instruments. He is credited with inventing the induction coil but it was really invented by Nicholas Callan in 1836.

The induction coil is capable of converting a low dc voltage to a series of very high-voltage pulses. It does this by using two principles first observed by Joseph Henry and Michael Faraday. The first principle (demonstrated by Henry with his early experiments with electromagnets) is that if the current through a coil is suddenly interrupted, there will be a large spike of voltage across the coil.

Now if a secondary coil is wound on the same iron core as the primary but with many more turns of fine wire, the voltage spikes across the primary coil will be stepped up by the turns ratio to produce a series of very high voltage spikes. This is the transformer action observed by Faraday.

Referring to the schematic of the induction coil, note that the primary winding, P is wound around an iron core, M. Battery, B supplies current to the primary through interrupter contact, K. But as the core, M is magnetized by the current, armature, A is attracted to the core and contact K is opened. This abruptly stops the current in the core and a high voltage spike is produced across the primary. By transformer action, the secondary winding, S steps up this voltage spike to a higher value determined by the turns ratio between the primary and secondary. With contact, K open, the magnetic field collapses and the spring action of the armature allows the contact, K to again close and the cycle repeats.

External spark gap, G breaks down with a spark and protects the secondary winding from internal arcing. Capacitor, C was added across the contact to minimize burning and eroding of the contact K by the arc formed when it opens. Capacitor, C plays another important role not originally recognized. Without the



capacitor, the voltage spikes across the secondary are unidirectional pulses with one pulse per interrupter cycle. With C in the circuit, when K opens, an oscillation is set up at the resonant frequency of C and the primary winding, P. This damped oscillation in the secondary, S, if coupled to an antenna forms a spark transmitter of electromagnetic waves but this wasn't discovered until much later by Hertz and still later exploited by Marconi.

Such an induction coil was patented by Ruhmkorff in 1851 and would produce a 2 inch spark when excited by a simple voltaic pile (battery) Ruhmkorff further improved the induction coil with better insulation and an adjustable interrupter so he could produce 12 inch sparks by 1857. Ruhmkorff sold his induction coils to electrical experimenters so they could experiment with these very high voltages. One early application was to place the high voltage pulses from the induction coil across a gas-filled glass tube. Depending on the gas in the tube, various colors of light could be produced. These "Ruhmkorff lights" preceded Edison's lights by many years and were a predecessor to the fluorescent light invented many years later.

A later application of the Ruhmkorff coil was made by Henry Ford in his Model T design. This automobile used Ruhmkorff coils to produce the high-voltage spark for his internal combustion (gasoline) engine. They were called "Ford spark coils" and could produce nearly an inch-long spark from the 6-volt battery. Later automobiles used "points" to interrupt the current through an induction coil to produce the high-voltage spark for the spark plugs and was used until electronic ignition came along more recently.

So now you know.

"FREQUENCY," "LAST MAN STANDING" QRT

Hollywood Reporter reports that The CW television network has pulled the plug on the Amateur Radio-themed show "Frequency," which stars Peyton List as young police detective and radio amateur Raimy Sullivan. "Frequency was a combination of two of the season's most popular trends: time travel and movie reboots," Hollywood Reporter said, noting that the show had been averaging 1.5 million viewers.

As in the 2000 movie *Frequency*, Amateur Radio provides a connect over time with her NBC had initially expressed TV reprise, but ultimately

"Frequency" had joined real-life radio amateur Tim providing Amateur Radio fictional. News on May 10 canceled "Last Man Standing" after six seasons. Occasional scenes on "Last Man" showed Allen's character at his ham station.



quency that inspired the TV show, means for the protagonist to reconcile estranged father Frank Sullivan. interest in launching a "Frequency" passed on the idea.

ABC's "Last Man Standing," starring Allen as Mike Baxter, KAOXTT, in some small-screen exposure, albeit from Variety is that ABC has now

The show's producer is John Amodeo, NN6JA, and real-life Amateur Radio special events have been staged from the show's Hollywood set

From The ARRL Letter, May 11, 2017

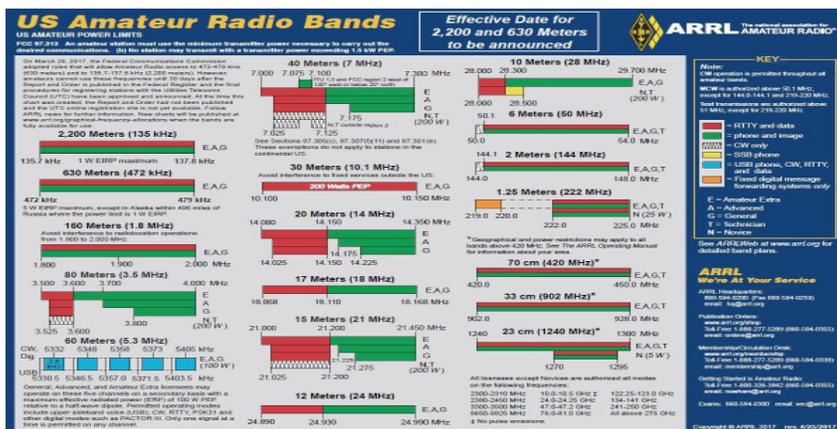
NEW ARDUINO BOOK AVAILABLE

The new book *More Arduino Projects for Ham Radio* by popular author and experimenter Glen Popiel, KW5GP, builds on the success of his *Arduino for Ham Radio*. His latest offering includes 15 completely new practical and functional Arduino projects for your station.

This time, Popiel branches out to use some of the newer Arduino variants and devices. Each project is complete and functional as-is, but the author leaves room for your personal touches and enhancements. That's part of the fun of the Arduino and Open Source communities -- building on the work of others, and then sharing your designs and innovations for others to learn, modify, and improve.

"When it comes to the Arduino, you're only limited by your imagination," Popiel said. *More Arduino Projects for Ham Radio* starts by building a solid foundation through descriptions of the many new Arduino boards and add-on components, followed by a collection of practical ham radio-related projects that showcase a wide variety of applications. There is something here for everyone.

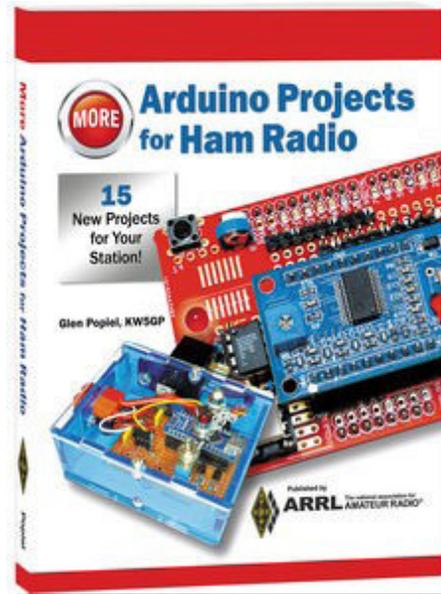
UPDATED BAND CHART AVAILABLE



More Arduino Projects for Amateur Radio is available from the ARRL Store or your ARRL Dealer. (ARRL Item No. 0703), ISBN: 978-62595-0703, \$39.95 retail, special ARRL Member Price \$34.95).

Call (860) 594-0355 or, toll-free in the US, (888) 277-5289.

From *The ARRL Letter*, May 4, 2017



SPRATLY ISLAND POSTPONED

An international Amateur Radio team has postponed its DXpedition to the Spratly Islands, planned for December 2017. The DXpedition, which will take place from Layang Layang Island (Swallow Reef -- AS-051) under Malaysian call sign 9MoW, now

will be on the air March 10-20, 2018.

Operation will be on 160 through 6 meters, CW, SSB, and digital modes. Layang Layang Island is approximately 15 acres, which includes "reclaimed" land. While the Royal Malaysian Navy maintains a presence on the reef, ownership -- as with all of the Spratlys -- is disputed. It is also claimed by the People's Republic of China, Taiwan, and Vietnam.

From *The ARRL Letter*, April 27, 2017

ARRL has revised and updated its "US Amateur Radio Bands" charts, and these are now available for download. These are PDF documents, available in color or grayscale presentations. The revised allocations charts reflect the new 630- and 2,200-meter bands, but also emphasize that these bands are not yet available for Amateur Radio use.

The effective date of the recent FCC

Report & Order granting these allocations has not yet been determined. Until the FCC sets a start date, it is not legal under an Amateur Radio license to transmit on either band. The FCC will publish a notice in The Federal Register "announcing such approval and the relevant effective date." ARRL will announce the UTC notification procedures and the effective date to use these new bands as soon as these are known.

ARRL will update the Amateur Radio frequency charts at that time. These reference guides are available for purchase in 11 x 17 and 8.5 x 11 formats in packs of 50 from the ARRL Store. Both include an ARRL Worked All States (WAS) map on the reverse side.

From The ARRL Letter, May 18, 2017

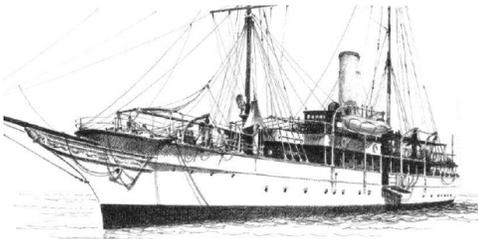


MIDWAY & KURE REINSTATED

On March 31, 2017, the DXCC desk announced the deletion of Midway Island and Kure Island from the DXCC entities list. The stated reason for this action was because of changes in the administration resulting from changes in Papahānaumokuākea Marine National Monument, formerly known as the Northwestern Hawaiian Islands Marine National Monument, of which the Midway Atoll National Wildlife Refuge and the Battle of Midway National Memorial, the Hawaii

State Seabird Sanctuary at Kure Atoll, and the Northwestern Hawaiian Islands State Marine Refuge, of which they are all included. After further review, it has been found that the deletion of these two entities is not supported by the changes that were made to the relevant administrations. Therefore, the deletions from the DXCC list should not have occurred, and the two entities, Midway Island KH4 and Kure Island KH7K, will return to the DXCC list as separate entities.

From The ARRL Letter, May 11, 2017



MARCONI SHIP SPECIAL EVENT

The resting place of the keel from wireless pioneer Guglielmo Marconi's floating laboratory -- the yacht Elettra -- will be the site of a special event in conjunction with the annual Museum Ships Weekend

Event, June 3-4, sponsored by the Battleship New Jersey Amateur Radio Station NJ2BB. Marconi named his youngest daughter after the Elettra, which means "electron" in Italian. The Elettra special event, under the sponsorship of the Guglielmo Marconi Foundation, will use the call sign IQ4FE. Members of the Italian Amateur Radio Association (ARI) Fidenza Radio Club will operate from the vicinity of the Marconi Museum in Pontecchio, where the vessel's keel is kept. -- Thanks to Cristiano Cornini, IW4CLV, ARI Fidenza Radio Club President

From The ARRL Letter, May 11, 2017

Let's get ready to build: June 4, QTH of K2CYS in Ocean Township (it's the house with all the antennas!)

FIVE YEARS AGO

From the June 2012 Propagator: Len Kline, WA1PCY rejoined GSARA after a long absence. Silent Keys included Steve Mendelsohn, W2ML; Jack Keating, WA2FVL; and Bernie Schreiberman, W2QFQ. QST is now available as a digital edition as well as printed paper copies. Field Day will be from the Red Cross using high power.

TEN YEARS AGO

From the June 2007 Propagator: Jim, K2EI was planning on erecting a 1000 foot loop antenna on top of the ball field light supports at Ft. Monmouth for Field Day. Paul Johnson, W2GMB became a silent key at age 97. Grace Schreiberman, XYL of W2QFQ passed away.

FIFTEEN YEARS AGO

From the June 2002 Propagator: President Shirley Holzberg, KC2APV passed her Extra Class exam (and subsequently changed her call to N2KQ). Field Day was at Tatum Park under Chief Engineer Frank Gudicello, K2TVY. The number of US Extra Class amateurs topped 100,000. The FCC proposed new amateur bands at 5 MHz and 136 kHz (we eventually got a few channels at 5 MHz). North Korea was on the air as P5/4L4FN.

TWENTY YEARS AGO

From the June 1997 Propagator: Kachina announced their 505DSP computer-controlled Transceiver (now called Software Defined Radio, SDR) at the Dayton Hamvention. Also announced were the Yaesu VX-1R and Alinco DJ-S11T compact HTs. Kenwood announced Sky Command and Yaesu rolled out the FT-920. The North Jersey DX Association celebrated its 40th anniversary with special event station W2JT/40.

TWENTY-FIVE YEARS AGO

From the June 1992 Propagator: Over 57 people attended the talk at the May meeting by Frank Gunther, W2ALS (SK) who talked about the early development of police radio. Chief Engineer Joe, WA2GSY (now W2KQ) made a plea for help with Field Day at Tatum Park.

THIRTY YEARS AGO

From the June 1987 Propagator: Recent upgrades included Dom Cafro, KB2CMF to Technician; Joe Sudyka, KB2CLZ to General; and Laura Clanton, KB2BMK (now N2HGI) to General. Chief Engineer Vince Rosati, KE2V made a plea for help with Field Day.

NEW NNJ SECTION MANAGER ELECTED

N

orthern New Jersey Section ARRL members have elected a new Section Manager. Ballots for contested seats in the spring election cycle were counted on May 23 at ARRL Headquarters.

In Northern New Jersey, Rob Roschewsk, KA2PBT, of Washington, outpolled incumbent SM Steve Ostrove, K2SO, 399 to 307 votes.

Roschewsk has been licensed since 1982 and is a computer server/network engineer. In his candidate statement, Roschewsk said his goal is "to promote the diverse facets of Amateur Radio, with a special focus on youth activities, building-making, contesting and public service."

Ostrove has been the Northern New Jersey Section Manager since September 2016, when he was appointed to complete the remaining term of Rich Krohn, N2SMV, who stepped down midterm.

New terms of office begin on July 1.



From The ARRL Letter, May 25, 2017

GSARA OFFICERS

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* * *

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W2HAM Lou Russo, 732-842-6431 russo62@verizon.net

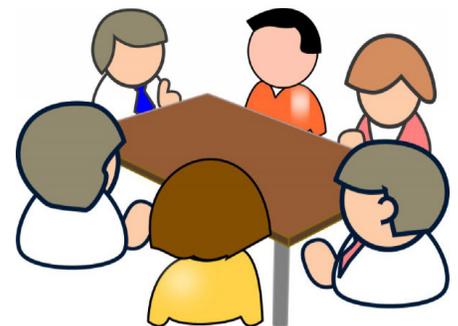
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gsara.club

w2gsa.org



NOTES ON CALENDAR (see next page)

Large Call letters denote birthdays e.g. K2ARV June 1. All times are EDT. Contests are listed in the June QST, p. 87.

June 1 - HCARC Meeting 7 pm at Holiday City South Clubhouse in Toms River.

June 2 and every Friday - Lunch at the Blue Swan Diner in Ocean at noon. Table at back left.

June 3 - OMARC Hamfest at Spring Lake Heights firehouse from 7:30 am (vendors at 7 am) to noon. \$5 admission.

June 4 - BitX40 build and picnic at Cy's house, 44 Lambert Johnson Drive in Ocean Township from 10:30 am.

June 5 - Monmouth County ARES/RACES Net meets on 147.045 +600, PL=67.0 at 8:00 pm

June 6 - Old Barnsey VE Session at 6:30 pm in Manahawkin. Contact Urb Le Jeune, W1UL at 609-296-5856 or urb@w2dec.com

June 6 - Old Barnsey ARC Meeting at 7:30 pm in Manahawkin, NJ. See <http://www.obarc.org>

June 6 and every following Tuesday - GSARA Net on 147.045 PL=67 at 8:30 pm.

June 6 and every following Tuesday - QCWA News Net on 147.045 PL=67 at 9:00 pm.

June 7 - GSARA Program Meeting at 7:30 pm at the Red Cross. The program will include a recap of the BitX40 Build, last minute arrangements for the Hamfest and Field Day planning. Refreshments will be served.

June 7 - WIAW Qualifying Run at 10 pm (10-35 wpm). See June 2017 QST page 101 and www.arl.org/qualifying-run-schedule

June 8 - JSARS meeting in Riverwood Park Rec. Building, Rt. 527 and Riverwood Drive at 7:30 pm.

June 10 - OMARC Meeting at 9:00 am at the Firehouse on 600 Sixth Ave. in Spring Lake Heights. Guests are always welcome.

June 10-11 - ARRL June VHF Contest, all modes from 2 pm Saturday to 10:59 pm Sunday. See <http://www.arrl.org/june-vhf>

June 11 - GSARA Hamfest at MOESC parking lot in Tinton Falls from 8 am (vendors at 7 am) to noon. \$5 per person admission. See page 2.

June 11 - GSARA VE Test Session at 11 am at the GSARA Hamfest in Tinton Falls. See page 1.

June 14 - 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

June 15 - JSARS VE Test Session at 7:00 pm Riverview Park Recreation Bldg., Rt. 527 and Riverwood Drive in Toms River. Contact Ed Gensino, WA2NDA at 609-971-2792 or wa2nda@comcast.net.

June 18 - Kids Day Contest, phone on all bands and repeaters from 2 pm to 7:59 pm Sunday. See <http://www.arl.org/kids-day>

June 19 - Monmouth County ARES/RACES Net meets on 147.045 +600, PL=67.0 at 8:00 pm

June 20 - WIAW Qualifying Run at 7 pm (10-35 wpm). See June 2017 QST page 101 and <http://www.arl.org/qualifying-run-schedule>

June 21 - GSARA Meeting at 7:30 pm at the Red Cross in Tinton Falls. Regular business meeting.

June 23-25 - Field Day. GSARA will be at the ball field at the old Ft. Monmouth. Set-up starts at noon Friday, continues into Saturday morning and operation starts at 2 pm and runs for 24 hours with take-down on Sunday afternoon. Volunteers are needed. See page 3.

JUNE 2017

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1 K2ARV KC2RKP HGARC Mtg	2 Eliar Swann Luncheon	3 OMARC Hmfrct
4 Hick40 Hmfrct	5 AMURGRACES 7:30	6 DHARC GSEAA Nat E:30 QCWA News 9 PM	7 GSARA Mtg CW Qual. Exam	8 JSARS Mtg	9 Eliar Swann Luncheon	10 OMARC Mtg VHF Contest
11 GSARA Hmfrct GSARA VE VHF Contest	12 KD2FHT	13 KA2ZSI GSEAA Nat E:30 QCWA News 9 PM	14 Hed. City VE	15 W2HAM JSARS VE.	16 Eliar Swann Luncheon	17
18 KA2F Kish Day	19 AMURGRACES 7:30	20 CW Qual. Exam GSEAA Nat E:30 QCWA News 9 PM	21 WB2KCV GSARA Mtg	22	23 Eliar Swann Luncheon Field Day Setup	24 Field Day
25 Field Day	26 N2LXM	27 W2HTS GSEAA Nat E:30 QCWA News 9 PM	28 -	29	30 Eliar Swann Luncheon	



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FIRST CLASS