

THE Propagator

Garden State Amateur Radio Association

W2GSA

APRIL 2020

**GARDEN STATE AMATEUR
RADIO ASSOCIATION**

8 Donner St.,
Holmdel, NJ 07733



Please visit the club site

www.gsara.club

www.w2gsa.org

**You are welcome to
use our open re-
peater.
(Analog FM)
147.045 +.600
PL 67 Hz
(C4FM) Node 43360**



Coronavirus COVID-19 may be all the news. But sometimes it is good to take a break from it all and do something both fun and safe. Try the 5 WATT NNJARES CHALLENGE! Below are the details

Saturday April 18th, Noon to Midnight

Rules: 5 watts Max power, HF or VHF. The use of the Internet is prohibited
The setting of schedules via radio is encouraged.

Exchange: Call, Six letter grid or Municipality and ARES appointment if any.

Suggested Frequencies: 146.58 simplex Primary, 50.130 SSB, secondary. You may schedule to use any frequency within your license privileges.

Score: Each contact is 1 point, contact with EC, DEC, ASEC, SEC or SM is 5 points

Bonuses: Give yourself 10 points if using non-commercial power, includes battery, solar, generator and vehicle mobile.

Give yourself 10 points if registered for ARES CONNECT.

Certificates will be awarded to the top five scores.

Logs: List of contacts, include frequency and mode. Logs can be submitted as a Word .doc, screen shot, an email list or scan of a paper log. The use of exterior antennas is encouraged!

Please share with your friends and club members!

Let's test our ability to communicate without repeaters and commercial power at 5 watts. Submit your log to: W2VTV@yahoo.com by May 2nd. Submissions to any other email will not be accepted.

Looking forward to working you!

73 John, W2VTV, SEC NNJARES





FROM THE VICE PRESIDENT DENIS COMMETTE, K2NPT

I'm unsure of what significant meaning this message would have since the world has changed rather dramatically over the past ten days so I'll go out on a limb and wish you and your families all the best today in these extraordinary times.

As Covid-19 continues to alter our daily lives and change the way that we see the world, we wanted to address a few items that pertain specifically to the Club. Until further notice, our regularly scheduled meetings have been canceled. In an attempt to conduct business and keep the membership informed, we are beta testing the Zoom video conferencing system. This is a free and relatively simple application to use and there will be more on this as testing continues and some details may have even preceded the April Propagator.

In order to maintain certain Club functions, the expenses that occur in this interim period, will first be approved by the officers and, when meetings resume, any and all expenses will be submitted to the membership. This is a digression from the normal way of conducting business; however, in the circumstances we find the club in, it seems appropriate.

In the hopes of normalcy being somewhere on the horizon, the field day planning committee is moving forward with plans to make field day 2020 even more exciting than last year. So, keep it on the calendar and we can all look forward to this polarizing event.

I remind us all that we will get past this moment and return to our lives in the months ahead.





FROM THE EDITOR

BOB BUUS, W2OD

The Corona Virus Pandemic has upended all of our lives and I hope that all of you are coping with it as best you can. I flew out to Arizona for a large family reunion only to find it cancelled after I got out there. So, I flew back earlier than planned and got home just in time to check in to the GSARA Tuesday night roundtable conducted by Mike, N2MEP, who did a great job of subbing for me. Thank you, Mike!

I find that the social isolation imposed on all of us by COVID-19 is easier to take with the knowledge that we have our amateur radio stations to get on the air whenever we feel alone or isolated. To be sure, we all have telephones and can always call a friend if we feel like chatting. But what if the other person is busy and doesn't have time for our idle chatter. That's the beauty of amateur radio. We can get on the air and call CQ to find someone to chat with. Or get on a repeater and see if someone is around to chat. If no one responds, try another repeater or go digital and find an interesting room to connect to. There are so many possibilities with amateur radio and they can all be fun!

Please note elsewhere in this issue that the 5 Watt Challenge is coming up on Saturday, April 18 from noon to midnight. The point is to see how many other 5 watt stations you can work using only 5 watts and no repeaters. Suggested calling frequencies are 146.58 FM on 2-meters and 50.130 SSB on 6-meters but all HF and VHF bands can be used. You get bonus points for operating without commercial power. The exchange is your 6-character grid square

or town. So plan to get on the air that Saturday and have some fun with QRP!

I encourage you to download the Zoom App on your computer so that you can participate in the April 1 GSARA telemeeting. If your computer is like mine without a camera or microphone, you'll have to add a usb camera and some sort of microphone/headset. The setup is simple and zoom gives you the capability to test your setup beforehand. We also have some trial sessions prior to the meeting where you can get help if you're having trouble. Try it, you'll like it!

So, how are you coping with the COVID-19 with amateur radio? I'd love to hear from you!

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



MEETINGS

VE SESSION

Everyone always welcome to the meetings

In view of the current NJ proclamations with regard to the Corona Virus, the regularly scheduled meetings of the GSARA club have been canceled until further notice. What we would like to try however, is to conduct the April 1 general meeting live via video conferencing using the Zoom App. This will serve two purposes: (1) allow us to discuss some important club business and (2) serve as a beta test prior to employing this system on all of our regularly scheduled meetings. We hope this will become a valuable asset to our members who, for one reason or another, are unable to attend a meeting and who would be able to join in through the medium of video conferencing.

The mention of video conferencing sounds like a daunting proposition but in reality, it is fairly straightforward. Simply go to <https://zoom.us/download> and download the Zoom App. Prior to the meeting, you will get an e-mail invitation to the meeting. When you wish to join the meeting, simply double click on the location link in the e-mail and when the Launch Application shows, click on "open link" and you should be in the meeting room.

Vladimir (AC2F), Art (N2AJ0) and Denis (K2NPT) have tested the system and were very satisfied with the performance. If you have any questions, they are available to try and answer them.

This is also a reminder that the April 1, 2020 meeting will be conducted as a business meeting via video conferencing.

Get your license this month!

If the NJ Social Isolation is still in effect, there will be no April 25 VE session. Otherwise, the GSARA monthly test session will be held at the Red Cross Regional Headquarters in Tinton Falls on Saturday, April 25 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@arrl.net.

IF YOU ARE LATE FOR OUR MEETINGS

As you may know, the Red Cross has increased the security for the building so the front door is always locked on meeting nights. Someone is posted at the door prior to the start of our meeting to let in attendees as they arrive. However, the door-watcher attends the meeting when it starts at 7:30 so no one is at the door after that. If you should happen to come in late for the meeting, there is a door bell button on the handle of the door which, when pushed, rings a bell inside the building. Hopefully, someone at the meeting will hear it and come let you in. If no one comes in a short time, ring the bell again and again until someone comes. Thank you.

WELCOME NEW GSARA MEMBERS

Welcome!

Please welcome our newest member to GSARA who will be voted in at our next meeting.



Bill Sloma, KD2MEG from Howell was first licensed in 1992 and holds an Extra class license. He is an instructor/Engineer who is also interested in photography. Bill is a member of the ARRL and requests active membership.

Please add to your Roster:

Bill Sloma, KD2MEG
96 Gristmill Road
Howell, NJ 07731

wjssloma@outlook.com

Welcome, Bill to the GSARA!



GSARA Digital Fusion Net



Thursday, March 5 at 8pm the first GSARA 2-meter Digital Net was opened with 15 check-ins. Cy, K2CYS, did a fine job as the net control and this was an impressive start to what we envision to be a weekly event. There were some technical difficulties in the beginning but once they were solved, the net proceeded and the communication was as sharp as expected from the fusion system.

Some very interesting questions and observations were proffered which made for a very interesting and educational net. Also, in use during the net was the NetLogger program which is a great tool for the net control and provides an overview of the entire net activity. This is a free program and be down loaded at the URL address below. In short, the inaugural net was a great success. 73 until next time.

<https://www.netlogger.org/>



HAMVENTION 2020 CANCELLED

For the first time in its 68-year history, Dayton Hamvention® will not take place this year, due to concerns about the coronavirus outbreak. The glum news was not entirely unexpected, given widespread cancellations of public gatherings and a national state of emergency.

“The Hamvention Executive Committee has been monitoring the COVID-19 pandemic. We have worked very closely with our local and state health departments. It is with a very heavy heart the Hamvention Executive Committee has decided to cancel Hamvention for this year,” Hamvention General Chair Jack Gerbs, WB8SCT, said in announcing the cancellation on March 15. “This decision is extremely difficult for us, but with around 2 months until the Great Gathering we felt this action necessary. More specific details regarding the closure will soon be posted. Thank you for your understanding in this time of international crisis.”

The Dayton Hamvention cancellation comes less than a week after the International DX Convention in Visalia, California, called off this year’s show. The Dayton Amateur Radio Association (DARA) sponsors Hamvention.

Since 2017, Hamvention has been held each May at the Greene County Fairgrounds and Expo Center in Xenia, Ohio. The international gathering attracted more than 32,000 visitors in 2019.

Hamvention’s announcement has caused the cancellation of other associated events. These include Contest University, the Contest Dinner, and the Top Band Dinner. The QRP Amateur Radio Club International’s “Four Days in May” event has also been cancelled. Presumably, the DX Dinner, sponsored by the SouthWest Ohio DX Association (SWODXA) and AMSAT Academy have also been called off, although no formal announcements have been made.

From the ARRL Letter, March 19, 2020



ARRL HQ. VISITS SUSPENDED

As part of efforts under way to help protect the health and safety of ARRL Headquarters employees and volunteers from the impacts of the coronavirus, ARRL suspended all tours and guest visits to Hiram Percy Maxim Memorial Station W1AW and ARRL Headquarters, effective Monday, March 16.

Out of an abundance of caution, this suspension will be in effect until further notice. We apologize for any inconvenience this may cause to our members and their guests who had been planning to visit us in Newington, Connecticut. We feel, however, that this is a necessary precaution and is in keeping with the guidance being provided by federal and local health professionals. We appreciate everyone’s patience and understanding as we all endeavor to deal with this difficult public health situation.

From the ARRL Letter, March 19, 2020



RED CROSS DRILL MAY 30

Red Cross-affiliated radio amateurs from many states and Puerto Rico are planning a nationwide Red Cross emergency communications drill for May 30.

The drill will consist of two parts. Part A will be a local optional drill held on VHF for participants to practice passing voice traffic with relay stations set up in local EOCs or via mobile stations parked strategically between Red Cross HQ and suburban shelters. Part B will be national in scope, with hams passing Red Cross forms using the ARC Message Utility technique on Winlink RF. Messages will be marked "DRILL" and will be sent to the Red Cross Safe & Well HQ in New York City as a clearinghouse. For further information, or to express interest in participating, contact Wayne Robertson, K4WK.

Actor Orlando Bloom tried to have a new tattoo done on his arm to honor the 9th birthday of his son, Flynn, but it inked out as FRynn not FLYnn.

Thanks to The ARES E-Newsletter

Shoulda checked with a GSARA CW op!

From the ARRL Letter, March 19, 2020

TUESDAY NIGHT GSARA NET REPORT

GSARA NET 8:30 PM TUESDAYS

In the first four sessions in March, we had 79 check-ins for an average of 19.75 per session. The following 30 members checked into this net (number of check-ins in parenthesis):

N2BCS (4), KZ2G (4), NA2J (4), K2MFS (4), W2NAZ (4), K2NPT (4), W2OD (4), WB2RPW (4), N2AJO (3), KD2EPA (3), N2FSB (3), AD7I (3), AC2MB (3), N2MEP (3), KC2NGH (3), KD2PYO (3), KC2YNL (3), N2DOM (2), AC2F (2), KA2IRQ (2), W2MJP (2), N2MN (2), KD2NAD (2), KD2OXR (2), KG2CM (1), K2CYS (1), KA2F (1), N2HGI (1), W2KQ (1) and K2RYU (1)..

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



SILENT KEYS

WILLIE MERVIN, AA2SV - SK

William H. Mervin, AA2SV passed away on February 20, 2020 at his home in Brick. He was 72. Born in Perth Amboy, he lived in Point Pleasant and has resided in Brick for the last 48 years.

Willie worked as a fisherman, welder and a fence installer prior to his retirement. He enjoyed listening to books, sports, especially baseball on the radio.

Willie was very active on the VHF repeaters in the area and held an Extra class license. He was an avid traffic handler proficient in both CW and phone. Blinded by an accident with an automobile tire blowing up in his face many years ago, he did not let it hinder his amateur radio activities. More recently, he had trouble with his throat so he could only talk in a whisper but he was well known on the local repeaters as "whispering Willie."

He is predeceased by his loving son, Jonathan William Merwin, age 35, in 2015 and his sister, Margurite. Surviving are his beloved wife, Debbie Merwin; his daughter, Amber and her husband, Matt; his daughter-in-

law, Anne Marie; his cherished grandsons, Kobyn and Jonathan; his brothers-in-law, Jack and Frank; his sister-in-law, Keryl; his cousins, Karen and Scott, Craig, Keith, Scott and Paige; in addition to extended family, many of his friends and fellow amateur radio operators.

Any donations may be made to Deborah heart and lung, Browns Mills, NJ.

Services to be announced.

Held under the direction of O'Brien Funeral Home, Brick.



Congratulations to Marlo KA2IRQ who just received his DXCC mixed award from ARRL for 144 DX Countries, all of which were from old fashioned QSL cards.

ABOUT THE CORONAVIRUS

Feeling confused as to why Coronavirus is a bigger deal than Seasonal flu? Here it is in a nutshell. I hope this helps.

Feel free to share this to others who don't understand.

It has to do with RNA sequencing, i.e. genetics.

Seasonal flu is an "all human virus." The DNA/RNA chains that make up the virus are recognized by the human immune system. This means that your body has some immunity to it before it comes around each year. You get immunity two ways: through exposure to a virus, or by getting a flu shot.

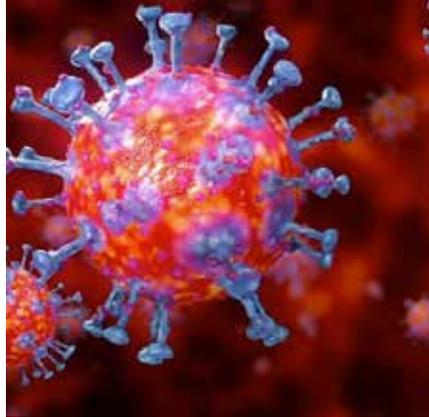
Novel viruses, come from animals - the WHO tracks novel viruses in animals, (sometimes for years watching for mutations). Usually these viruses only transfer from animal to animal (pigs in the case of H1N1) (birds in the case of the Spanish flu). But once one of these animal viruses mutates, and starts to transfer from animals to humans, then it's a problem. Why? Because we have no natural or acquired immunity. The RNA sequencing of the genes inside the virus isn't human, and the human immune system doesn't recognize it so, we can't fight it off.

Now sometimes, the mutation only allows transfer from animal to human, for years its only transmission is from an infected animal to a human before it finally mutates so that it can now transfer human to human. Once that happens, we have a new contagion phase. And depending on the fashion of this new mutation, that's what decides how contagious, or how deadly it's going to be.

H1N1 was deadly, but it did not mutate in a way that was as deadly as the Spanish flu. Its RNA was slower to mutate and it attacked its host differently, too.

Fast forward.

Now, here comes this Coronavirus. It existed in animals only, for nobody knows how long. But one day, at an animal market in Wuhan China, in December 2019, it mutated and made the jump from animal to people. At first, only animals could give it to a person. But here is the scary part: In just TWO WEEKS it mutated again and gained the ability to jump from human to human. Scientists call this quick ability, "slippery."



This Coronavirus, not being in any form a "human" virus (whereas we would all have some natural or acquired immunity) took off like a rocket. And this was because humans have no known immunity and doctors have no known medicines for it.

It just so happens that this particular mutated animal virus changed itself in such a way that it causes great damage to human lungs.

That's why Coronavirus is different from seasonal flu, or H1N1 or any other type of influenza. This one is slippery. And it's a lung eater. And, it's already mutated AGAIN, so that we now have two strains to deal with, strain S and strain L, which makes it twice as hard to develop a vaccine.

We really have no tools in our shed with this. History has shown that fast and immediate closings of public places has helped in the past pandemics. Philadelphia and Baltimore were reluctant to close events in 1918 and they were the hardest hit in the US during the Spanish Flu.

Be smart folks. Acting like you're unafraid is so not sexy right now.

Stay home folks, and share this to those that just are not catching on.

LOOKING BACK

A short stroll through the history of GSARA in the pages of past Propagators



FIVE YEARS AGO

From the April 2015 Propagator: Matt Capozzoli, N2UG and Anthony Manza, KD2IEC (now W2ARK) joined GSARA. Len, WA1PCY gave a talk about propagation at the March 18 meeting. Several members including Joe, W2KQ; Bruce, K2QXW (SK); Len, WA1PCY; John, KA2F; and Cy, K2CYS participated in the ARRL Centennial during 2014. Joe, W2KQ donated a single cup coffee maker to the radio room.

TEN YEARS AGO

From the April 2010 Propagator: Snow storms took all of the antennas off the roof of the Red Cross building. President Frank, W2XYZ is organizing a work party on March 6 to repair the damage. Show and tell at the March 17 meeting was very successful. ARRL signed a new Memorandum of Understanding with the Red Cross. Joe, W2KQ has organized a white elephant sale at the Red Cross on April 24.

FIFTEEN YEARS AGO

From the April 2005 Propagator: Kevin Wagner, KW2KGW (now W2FA) became a member of GSARA. Sid Weisberger, W2JFV became a silent key. Reimbursements for taking the ARRL Emergency Communications Courses is ending.

TWENTY YEARS AGO

From the April 2000 Propagator: Joe Dreifuss,

W2KQ worked the Czech Republic via the RS-13 satellite when the satellite was 20 degrees below the horizon at the European end. Mike DePersio, KC2Q is forming a Central New Jersey DX Association. The per page costs of printing the Propagator at Staples is going up because our quantities are going down. Bob, W2OD is going to try to print the copies himself on a laser printer. The QCWA Awards Banquet will be on May 7 at Gibb's Hall.



TWENTY-FIVE YEARS AGO

From the April, 1995 Propagator: GSARA donated a collection of 24 ARRL books regarding Amateur Radio to the Monmouth County Library. The first "Gate" for obtaining a previously held call sign was officially open in the FCC's Vanity Call Sign program. The Middletown Repeater has a new antenna on a new tower in Tatum Park with the new call N2DR.

THIRTY YEARS AGO

From the April, 1990 Propagator: GSARA had a booth at the 3rd annual Children's Peace Fair at Brookdale College. The 80 meter Novice band is being moved from 3700-3750 to 3675-3725 due to interference from Canadian phone stations. Alan Yorkins, WB2OPA has written a logging program called WB2OPA Log Master that runs on IBM-compatible computers.

BULLETIN BOARD

GSARA Swag

GSARA Patches

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

GSARA Hats and Shirts

Cost is \$21 for Hats and \$25 for Shirts, in your choice of Blue or Stone color.

To place your order, send Art artgold@verizon.net an email with your name, call sign, size (for shirts) and color. Payment will be due when hats and shirts are delivered.



Blue Swan Lunches

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.

ARES/RACES Net

Did you know that there is an ARES/RACES net on the W2GSA repeater on the first and third Mondays of each month at 8 PM local time? All are welcome. Check it out!

IF YOU ARE LATE FOR THE MEETINGS

The Red Cross has increased the security for the building so the front door is always locked on meeting nights. Someone is posted at the door prior to the start of our meeting to let in attendees. However, the door-watcher attends the meeting when it starts at 7:30 so no one is at the door after that. If you come in late for the meeting, there is a door bell button on the handle of the door which, when pushed, rings a bell inside the building. Hopefully, someone at the meeting will hear it

If anyone is looking for help with getting operational with digital modes (FT-8, PSK-31, Olivia, RTTY, etc.) please feel free to call on Paul, AD7I, if you would like some assistance. The best way to reach Paul is via email, ad7i@ad7i.net

The GSARA Propagator is designed in
InDesign CC 2020
Editor: Bob Buus, W2OD
Layout and Publishing: Cy Stanway, K2CYS
You are invited to submit articles and ideas

and come let you in. If no one comes in a short time, ring the bell again and again until someone comes. Thank you.

Club Perks



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!

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?

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 a Members Only Page which will contain important links viewable by GSARA members only including the most current roster and the previous month's minutes from the meeting. Send your selfies to Cy, K2CYS at k2cys@arrl.org. Do you have any other great ideas for the site? Let Cy know.

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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 2020 QST page 71. The W1AW CW Qualifying runs are shown each day as “CW” followed by the time and followed by “35” for 10-35 WPM or “40” for 10-40 WPM and the optional letter “R” at the end denoting that the speed decreases rather than increases. For complete Qualifying Run information, see April 2020 QST page 84 www.arrl.org/qualifying-run-schedule

April 1 – **GSARA Meeting** at 7:30 pm via Zoom teleconferencing. This will be a business meeting.

April 2 – **Holiday City ARC Meeting** at 7 pm at Holiday City South Clubhouse in Toms River. (probably cancelled)

April 3 and every Friday – **Lunch at the Blue Swan Diner** is cancelled until restaurants are again open to the public

April 4 – **North American SSB Sprint Contest**, 75 through 20 meters from 8 pm to midnight.

<http://ssbsprint.com/rules>

April 6 – **144 MHz Spring Sprint**, all modes from 3 pm to 7 pm. See <http://sites.google.com/site/springvhfupsj>

April 6 – **W1AW CW Qualifying Run (CW 4 pm 35)** at 4 pm (10-35 wpm).

April 6 - **Monmouth County ARES/RACES Net** meets on 147.045 +600, PL=67.0 at 8:00 pm

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

April 6 – **Old Barney ARC Meeting** at 7:30 pm in Manahawkin, NJ. See <http://www.obarc.org> (probably cancelled)

April 6 and every following Tuesday – **GSARA Net** on 147.045 PL=67 at 8:30 pm.

April 6 and every following Tuesday – **QCWA News Net** on 147.045 PL=67 at 9:00 pm.

April 7 - **W1AW CW Qualifying Run (CW 7 pm 35R)** at 7 pm (35-10 wpm).

April 8 – **Holiday City VE Session** at 7 pm in Toms River. Contact is Larry Puccio, K2QDY at 732-349-2950 mail at lpuccio1@comcast.net (probably cancelled).

April 9 – **JSARS meeting** in Riverwood Park Rec. Building, Rt. 527 and Riverwood Drive at 7:30 pm (probably cancelled).

April 9 - **W1AW CW Qualifying Run (CW 10 pm 40)** at 10 pm (10-40 wpm).

April 11 – **OMARC Meeting** at 9:00 am at the Firehouse on 600 Sixth Ave. in Spring Lake Heights (probably cancelled).

April 11-12 – **North Dakota QSO Party**, all bands, Phone and CW from 2 pm Saturday to 2 Ppm Sunday. <http://ndarrlsec.com>

April 12 – **Easter Holiday**

April 15 – **GSARA Meeting** at 7:30 pm via Zoom teleconferencing if held at all.

April 16 – **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 (probably cancelled).

April 18 – **5 Watt NNJ ARES Challenge**, HF and VHF from noon to midnight. See Article in this issue of *Propagator*.

April 18-19 – **Worked all Provinces of China DX Contest**, all HF bands, Phone and CW from 2 am Saturday to 1:59 am Sunday. See <http://www.mulandxc.org>

April 19 – **ARRL Rookie Roundup, SSB**, all HF bands from 2 pm to 7:59 pm. See <http://www.arrl.org/rookie-roundup>

April 20 - **Monmouth County ARES/RACES Net** meets on 147.045 +600, PL=67.0 at 8:00 pm

April 22 – **432 MHz Spring Sprint**, all modes from 3 pm to 7 pm. See <http://sites.google.com/site/springvhfupsj>

April 25– **GSARA VE Test Session** at 11 am at the Red Cross Regional Headquarters in Tinton Falls (probably cancelled).

APRIL 2020

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1 GSARA Mtg	2 HCARC Mtg	3	4 N.A. SSB Sprint
5	6 144 MHz Sprint CW 4 pm 35 ARES/RACES 8 pm	7 CW 7 pm 35R Old Barney GSARA Net 8:30 QCWA News 9 PM	8 KE2V Hol. City VE	9 JSARS Mtg CW 10 pm 40	10	11 OMARC Mtg. ND QSO Pty
12 Easter ND QSO Pty	13	14 CW 4 pm 35 Old Barney GSARA Net 8:30 QCWA News 9 PM5	15 CW 7 pm 40 GSARA Mtg	16 CW 9 am 35R JSARS VE	17 CW 10 pm 35	18 5 Watt NNJ China DX Contst
19 KD2RZK China DX Contst Rookie Rndup	20 W3CRW ARES/RACES 8 pm	21 W2SHS CW 9 am 35 Old Barney GSARA Net 8:30 QCWA News 9 PM	22 N2HGI 432 MHz Sprint CW 10 pm 35R	23 KD2EPA CW 7 pm 35	24 CW 4 pm 40	25 W2OD GSARA VE
26	27 KD2HIU CW 10 pm 40	28 Old Barney GSARA Net 8:30 QCWA News 9 PM	29 CW 9 am 35R	30 K2RLF CW 4 pm 35R		



8 DONNER STREET
HOLMDEL, NJ 07733

First Class