

THE Propagator

Garden State Amateur Radio Association



W2GSA

APRIL 2019

8 Donner St.,
Holmdel, NJ 07733



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www.gsara.club
www.w2gsa.org

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

(Analog FM) 147.045 +.600 -
(C4FM) Node 43360 PL 67 Hz



Well Deserved Honor

Congratulations to Chris, W2NQB, who was awarded the GSARA Ham of the Year Award for service to the club, its members and who is always present for club activities.

Chris shared with us his amateur radio history his background at the lunch and award ceremony on March 2. Chris comes from a family of hams and he shared his story of how he got licensed. You can read his remarks in the March 2019 Propagator at this link: <https://www.gsara.club/2019-propagator/>

There was even a sheet from the 70's attendance before wonderful lunch

bit of history as a GSARA sign-in was displayed with Chris in he had his ticket. It was a and a great afternoon.





Sending Our
SYMPATHY

The Garden State Amateur Radio Association is saddened to report that Chris Wantuck, W2NQB, became a Silent Key on Friday, March 8, 2019. Chris, just one week before his death, was honored by GSARA as their Member-of-the-Year for his outstanding contribution to the Club and to the membership. Aside from ham radio, his passion was the restoration of vintage vehicles. Chris also was an active net controller for the Rooster Net and former Chief Engineer at Fort Monmouth. Chris will be missed both personally and professionally. Rest in peace good friend.

The GSARA extends its deepest condolences to Bob Buus, W2OD, upon the death of his beloved wife, Janice. Janice Marie Buus, 81, died on March 4, 2019 at home surrounded by her family. Bob and Janice were married for 60 years. May she rest in peace and may good memories always go with those who loved her.



TRYING THE DIGITAL MODES

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



FROM THE VICE PRESIDENT

Denis Commette, K2NPT

The March presentation by Ed Efchak (WX2R) was very informative and well received by the membership. The theme that I took away from his presentation was, that for the hobby of ham radio and the GSARA Club, as well as all other clubs, to prosper, we must promote ourselves both to the public at large and to our own club members. There is a myriad of ways to do this and we have made this one of the priorities of the board. Of course, a valuable source of input for any initiative is always available and encouraged from our membership so please share any ideas you may have. Mike's (W2MJP) suggestion of an antenna build is one example so keep them coming.

As we usher in April, spring is upon us and our thoughts turn to some of the traditional spring activities such as Field Day. We have secured Joe Palaia Park as the venue for this year's field day. Mark down the dates of June 22 and 23 and please plan to participate with logistical support or on the radio. Even if just for an hour, your participation will be an asset to the club and a rewarding experience. We have some lofty goals for field day, the most important of which is participation. Please refer to the web site for more information and continuous updates.

The leadership team works for you the members and together we can continue to pump excitement into the club and to move our hobby forward.

The April presentation will be by Paul (AD7I) as he explains some basic antenna theory and will include a build of an antenna(s) which may be used for Field day. The program will be very informative and be a great way to supplement our Field day experience. Please plan to attend.

Our engineer continues to make progress with the updates and additions to the radio shack. One of the major goals has been to have a remote-control station that is available to all members with no additional purchase of software or hardware. Unfortunately, this is incumbent on the Red Cross IT department giving us access to required UDP addresses and this task has proven to be a slow process. So, we ask your patience.



This really is
a great ham
radio club!

To date, the Ham Help program has generated four responses, two in response to the letters that were sent out and two from reading about the program on the website. Paul is looking for someone in the Freehold area to be a mentor to a new ham who is looking to get on the air with a borrowed HF rig. If you can help, please contact Paul AD7I for the details. You will be doing a service to the club as well as to the new ham.

The next public event for the club will be the NJ Marathon on Sunday April 28. We will be asking for volunteers to provide radio assistance. More information on our participation will be made available as it becomes published. In the meantime, if you would like to volunteer,

please let Art or myself know via email or otherwise.

Lastly, as has been the continuing message, we would like to hear from the membership on your thoughts and ideas. The leadership team works for you the members and together we can continue to pump excitement into the club and to move our hobby forward.

Tuesday Net Report

The Tuesday night net meets every Tuesday on W2GSA repeater at 8:30 PM. Everyone is most welcome and, of course, you don't need to be a member of the club.

In the 4 sessions in March, we had 61 check-ins for an average of 15.25 per session. The following 28 members checked into this net (number of check-ins in parenthesis):

N2HGI (4), K2NPT (4), W2OD (4), WB2RPW (4), KC2YNL (4), N2FSB (3), KZ2G (3), KA2IRQ (3), N2MEP (3), W2MJP (3), W2NAZ (3), KD2PYO (3), K2CYS (2), AD7I (2), WA2JOE (2), K2MFS (2), N2AJO (1), N2BCS (1), N2BMK (1), W2CET (1), KD2EJW (1), KC2EPA (1), KA2F (1), AC2MB (1), K22MGE (1), KD2OXR (1), N3RB (1) and K2RLF (1).

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

73 de Bob, W2OD



FROM THE EDITOR

Bob Buus, W2OD

March has proven to be one of the worst months of my life. I was under a lot of stress during the last several weeks of my wife's life. After she died, my blood pressure soared to new heights. My doctor put me on a couple of blood pressure meds and I had an allergic reaction to them which put me in the hospital emergency room on St. Patrick's Day with life-threatening angioedema. I'm now trying a new blood pressure med but it isn't very effective so far. Everyone tells me to relax but it's easier said than done.

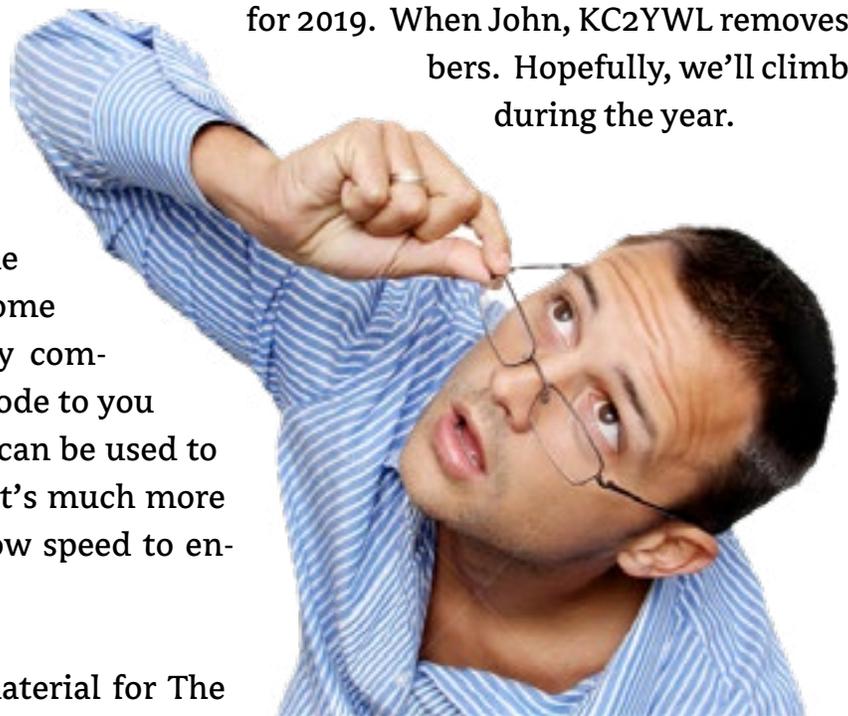
Anyway, to remove some of the stress, I decided to cut back on my contribution to the April Propagator. I had planned a "Now You Know" article about amateur call letters but it requires more research than I have time for this month so I decided to skip the article. Maybe I'll have it for next month when, hopefully, things may get back to normal or at least less frenzied.

I did finally get out an updated Roster which was sent to everyone and is on the GSARA web site. Please let me know if you find any errors in it. It shows 118 members but includes those who haven't renewed them, we will be below 100 members. Hopefully, we'll climb over 100 as new members join us

errors in it. It shows 118 members but includes those who haven't renewed them, we will be below 100 members. Hopefully, we'll climb over 100 as new members join us

Marlo, KA2IRQ is trying to drum up some interest in getting some of the members to meet on 40 meters for some CW practice. I know there are many computer programs that will send Morse code to you at whatever speed you want and they can be used to bring up your speed, but it's boring. It's much more fun to engage in a friendly QSO at slow speed to enhance your efficiency.

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

MEETING TIMES

The next GSARA meeting will be on Wednesday, April 3 at 7:30 PM at the Red Cross. This will be a program meeting and the program will feature our own Paul Newland, AD7I who will talk about constructing simple antennas for portable or Field Day use. Guests are welcome and refreshments will be served.

See page 15 for important Field Day information!

The second meeting in April will be held on Wednesday, April 17 at 7:30 PM at the Red Cross. This will be a regular business meeting. Be there! Guests are always welcome and refreshments will be served.

VE SESSION



Get your ham radio license this month!

The GSARA monthly test session will be held at the Red Cross Regional Headquarters in Tinton Falls on Saturday, April 27 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.

Working on a project you want to share with the club?

Send it to k2cys@arrl.net with a description and picture and we will get it into the Propagator.

Share the joy! Share the pride!

NNJ SM, BOB, KA2PBT UPDATE



After careful consideration, I have decided not to seek another term as NNJ Section Manager.

This has been time well spent. I've been introduced to some amazing clubs, met great people, and have forged friendships that I'm sure will continue past my tenure.

You will find the announcement opening nominations for Northern NJ Section Manager position in the February 2019 issue of QST, page 83 (or link to: <http://www.arrl.org/section-terms-nomination-information>)



I like to leave things better than I found them, and I believe that's true for NNJ. I've made meaningful Field Organization appointments, improved section communication through email, the website and social media. I've promoted and have attended many events and activities.

As for what's next? I plan on shifting my new found spare time to building things and "putting RADIO back into Amateur Radio." I'll continue with the 721MCB crew to promote youth and STEM activities that span the gamut of engineering and science including robots, race cars and maybe even a little aviation and rocketry. Feel free to drop me an email if you have a project you would like my help with.

Rest assured, I'm not abandoning my post and will serve as I have until the end of my term. I promise an orderly transition to the new administration.

BEST 73 DE KA2PBT

ARRL Northern New Jersey Section

Section Manager: Robert P Roschewsk, KA2PBT - ka2pbt@arrl.org

FIELD DAY 2019



SAVE THE DATE FOR GSARA FIELD DAY SATURDAY & SUNDAY JUNE 22-23

AMAZING OPPORTUNITY TO DO HAM RADIO ALL WEEKEND!

MENTORS WILL BE AVAILABLE FOR NEW CONTESTERS!

SITE IS JOE PALAIA PARK!

SEVERAL STATIONS!

**FAMILY PICNIC AT NOON ON JUNE 22 (CLUB WILL SUPPLY HOT
DOGS AND BURGERS - BYO POTLUCK SALADS, ETC.)**

CW/DIGITAL/SSB OPERATIONS!

GOTA (GET ON THE AIR) STATION!

WELCOME DESK!

WATCH THE CLUB SITE & PROPAGATOR FOR DETAILS



Matt, N2UG, watches presentation with club Engineer Phil, N2EDX. Denis pointed out that both of them have put in many hours updating the shack and Matt's work with wiring has saved the club money-in particular, the cost of a transformer.



Ed Efchak, WX2R, ARRL NNJ Public Information Coordinator, gives presentation on getting the word out about amateur radio.

Random Shots

Why is our coax 50 ohms?

I didn't know this but due to the geometry of air dielectric coax, it turns out that 30 ohms is the impedance that allows for maximum power and 77 ohms is the impedance of minimum loss. 50 ohms appears to be a compromise between max power and min loss. For the CATV people 75 ohms is magic because of minimum loss and because a 4:1 balun (2:1 turns ratio transformer) will get you to the impedance of a folded dipole (300 ohms).

<https://www.microwaves101.com/encyclopedias/why-fifty-ohms>

AMATEUR OF THE YEAR

Congratulations to NNJ's own Nathaniel Frissell, W2NAF on being the Dayton Ham-vention Amateur of The Year!

The Amateur of the Year Award is given to a ham that has made a long-term commitment to the advancement to amateur radio. This individual will have a history of ham radio contributions and has had a dedication to service, professionalism and the advancement of the avocation of amateur radio.

Nathaniel has been a licensed ham since 1998 and is the principal founder and leader of the Ham Radio Science Citizen Investigation (HamSCI), a collective designed to join professional scientific researchers and the amateur radio community together to help each other.

He is most noted for his leadership of the Solar Eclipse QSO Party (SEQP) during the August 21, 2017 Total Solar Eclipse, a contest-like amateur radio science experiment to study eclipse ionospheric effects.

Nathaniel is a Research Professor at the New Jersey Institute of Technology Center for Solar-Terrestrial Research where he is also a co-advisor to the NJIT Amateur Radio Club, K2MFF.

From Rob, KA2PBT, NNJ SM



In a somewhat unusual March 20th meeting, GSARA members shared funny stories, interesting ham radio stories, upcoming Field Day plans and events surrounding that weekend and so forth. Here, Blair shares a reflection of Chris, W2NQB.

WANT TO TRY SOMETHING REALLY, REALLY FUN? TRY THE NNJ 5-WATT CHALLENGE

This year's NNJ ARES 5 watt challenge will be Saturday April 13th.

Operating hours Noon to Midnight

Here are the rules:

5 watts Max power, HF or VHF.

The use of the internet prohibited.

The setting of schedules via radio is encouraged.

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

Suggested Frequencies: 146.58 simplex Primary, 50.130 SSB, 50.265 digital, 28.400 SSB, 28.120 digital 7.070 digital and 7.110 CW, 3.580 digital and 3.550 CW. 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 from the twelve NNJ counties.

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 April 27th. Submissions to any other email will not be accepted.

--

John S. Wyatt, W2VTV

SEC NNJ, Official Emergency Station



NEW TECHNICIAN LICENSE PROPOSALS

The FCC has invited public comments on ARRL's 2018 Petition for Rule Making, now designated as RM-11828, which asks the FCC to expand HF privileges for Technician licensees to include limited phone privileges on 75, 40, and 15 meters, plus RTTY and digital mode privileges on 80, 40, 15, and 10 meters.

Interested parties have 30 days to comment. The Technician enhancement proposals stemmed from the recommendations of the ARRL Board of Directors' Entry-Level License Committee, which explored various initiatives and gauged member opinions in 2016 and 2017.

"This action will enhance the available license operating privileges in what has become the principal entry-level license class in the Amateur Service," ARRL said in its Petition. "It will attract more newcomers to Amateur Radio, it will result in increased retention of licensees who hold Technician Class licenses, and it will provide an improved incentive for entry-level licensees to increase technical self-training and pursue higher license class achievement and development of communications skills."

Specifically, ARRL proposes to provide Technician licensees – both present and future - with:

- * Phone privileges at 3.900 to 4.000 MHz, 7.225 to 7.300 MHz, and 21.350 to 21.450 MHz.
- * RTTY and digital privileges in current Technician allocations on 80, 40, 15, and 10 meters.

The ARRL petition points out the explosion in popularity of various digital modes over the

past 2 decades. Under the ARRL plan, the maximum HF power level for Technician operators would remain at 200 W PEP. The few remaining Novice licensees would gain no new privileges under ARRL's proposal.

ARRL's petition points to the need for compelling incentives not only to become a radio amateur in the first place, but then to upgrade and further develop skills. Demographic and technological changes call for a "periodic rebalancing" between those two objectives, ARRL maintained in his proposal. The FCC has not assessed entry-level operating privileges since 2005.

The Entry-Level License Committee offered very specific data- and survey-supported findings about growth in Amateur Radio and its place in the advanced technological demographic, which includes individuals younger than 30. It received significant input from ARRL members via more than 8,000 survey responses. "The Committee's analysis noted that today, Amateur Radio exists among many more modes of communication than it did half a century ago, or even 20 years ago," ARRL said in its petition.

Now numbering some 384,500, Technician licensees comprise more than half of the US Amateur Radio population. ARRL stressed in its petition the urgency of making the license more attractive to newcomers, in part to improve upon Science, Technology, Engineering, and Mathematics (STEM) education, "that

inescapably accompanies a healthy, growing Amateur Radio Service.”

ARRL said its proposal is critical to develop improved operating skills, increasing emergency preparedness participation, improving technical self-training, and boosting overall growth in the Amateur Service, which has remained nearly inert at about 1% per year.

The Entry-Level License Committee determined that the current Technician class question pool already covers far more material

than necessary for an entry-level exam to validate expanded privileges. ARRL told the FCC that it would continue to refine examination preparation and training materials aimed at STEM topics, increase outreach and recruitment, work with Amateur Radio clubs, and encourage educational institutions to utilize Amateur Radio in STEM and other experiential learning programs.

From ARRL Bulletin 10, March 15, 2019



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? You don't have to be a member of ARES or RACES to check into the net. We all should be comfortable with checking into a formal net as we never know when we might be called upon to help with communications in an emergency. All are welcome. Check it out!

GSARA Swag

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

www.w2gsa.org

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.



FIELD DAY JUNE 22 & 23, 2019



Field Day 2019 is on the way.

It's a contest, a readiness drill, a science fair, a publicity exercise and a social event all rolled into one. It's the focal point of amateur radio events. And this year our challenge is to volunteer and participate on site with the club. And when you go to Field Day 2019, bring someone with you and convince them that amateur radio matters.

This year the GSARA will operate Field Day from Joe Palaia Park, located at the intersection of Deal Rd. and Whalepond Rd. in Ocean Township, NJ.

This is a beautiful, open park and will provide the ideal venue to conduct a successful and mem-



orable 2019 Field Day.

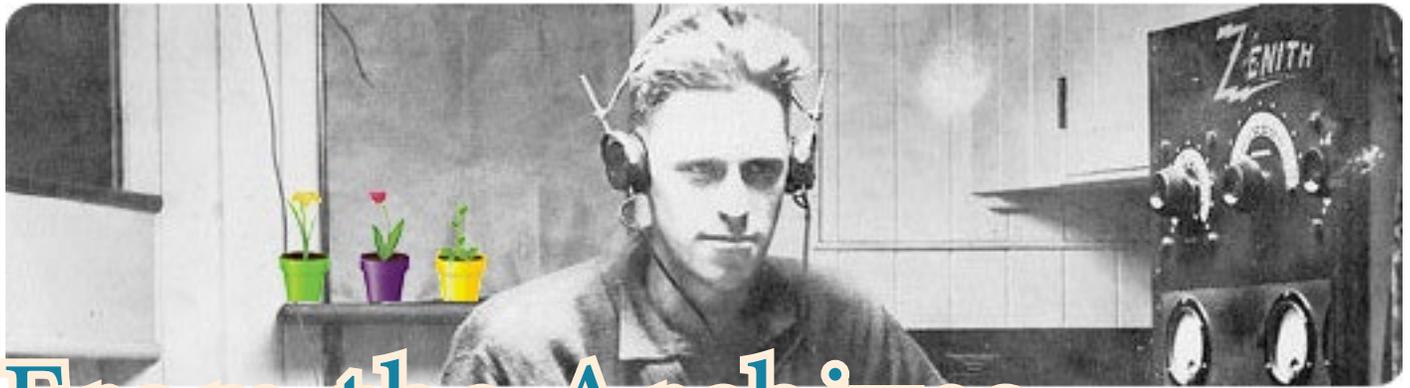
At noon time on Saturday, we will have a kickoff barbecue at the park site which is open to the entire membership, their families and friends. The Club will provide the barbecue grill, hamburgers, hot dogs and drinks but everyone is welcome to pack your favorite picnic dish and bring it along. Deserts and snacks for the group are always well received.

New this year will be more operating stations including: CW/SSB/Digital/Fusion and GOTA (Get On The Air) Station operating from several separate tents.

We plan a Public Relations campaign to introduce the public to Ham Radio. There will be a meet and greet table where the visitors will be invited to visit the site, ask questions, look around and even get on the air. Also taking advantage of the Field Day activities to use for advancement requirements will be Boy Scout Troop 124.



For those members new to Ham Radio or may not be familiar with the radios or logging program there will be pre-Field Day training presentations at member meetings and hands on opportunities to learn new skills. Each station will be staffed by an operator and a logger to lessen the workload and provide assistance to each other. We encourage everyone to participate even if you would only like to observe. The primary measure of success for Field Day 2019 will be the amount of participation. Also, we will try and score as many bonus and operating points as possible under a fun and relaxed atmosphere. Please join in! Look for a sign-up page on the web site in the near future. (<https://www.gsara.club/field-day-2019/>). Let's demonstrate that amateur radio benefits everyone.



From the Archives

FIVE YEARS AGO

From the April 2014 Propagator: There was an interesting 2-page history of the car radio. The Redman CB Shop in NJ was cited by the FCC for selling 11-meter power amplifiers not certified by the FCC. Radio Shack is closing 1100 of its 5100 stores. GSARA will celebrate the 350th anniversary of NJ by operating special event station N2J from the Red Cross. Charlie Williams, KB2YTM joined GSARA.

TEN YEARS AGO

From the April 2009 Propagator: Rich, N2S-MV will run a Winlink class April 9 at the Red Cross. Jeff, N2LXM will conduct a one-day Technician class at the Red Cross on April 4. Jerry Le Cardi, WB2OUL became a silent key at age 77. The Boy Scouts have updated the requirements for the Radio Merit Badge. An inventory of all GSARA Radio equipment was taken by Jeff, N2LXM prior to it being moved to the Red Cross.

FIFTEEN YEARS AGO

From the April 2004 Propagator: Marty, WN2DX agreed to fill the vacant position of Chief Engineer. Rich DiFiore, KB2NXA became a silent key on March 7, 2004 at the age of 62. Tom Swift, W2BD moved to Somerset County and Rich Cardwell, AA2BY moved to Tennessee. Mike Doelger, WB2GXP moved to North Carolina. There was an article "My Introduction to Ham Radio" by Bob Buus, W2OD.

TWENTY YEARS AGO

From the April 1999 Propagator: Secretary Jack Petro, KB2GJU became a silent key on March 9, 1999 at the age of 39. Geoff Bullock, KC2AMA volunteered to take his place. The vanity fee is going up from \$13 to \$14.20 for 10 years. Roy Edwards, AB2RE resigned as NNJ Section Manager and is being replaced by Jeff Friedman, K3JF. Russia is launching Sputnik 99 (to be known as RS-19) to commemorate 40 years since the original Sputnik.

TWENTY-FIVE YEARS AGO

The combined March-April 1994 Propagator was summarized last month.

THIRTY YEARS AGO

I have no Propagators in my file from April 1989 through August 1989. If anyone has any of these, I would appreciate obtaining a copy – Ed.

THIRTY-FIVE YEARS AGO

From the April 1984 Propagator: At the March meeting, Mike, W1OD gave an interesting talk about a DX-pedition to St. Paul Island off the coast of Nova Scotia. At ARRL, Mike is revising the Handbook. Harry Landau, W2IX (SK) described a super-gain velocity antenna for VHF/UHF. The compact dual-band antenna is easy to build and at 146 MHz has a gain of 53 dBD

with a F/B ratio of 78 dB. On 445 MHz, it has a gain of 64 dBD and a F/B of 88 dB. Unfortunately, it is very directional so has to be aimed carefully. Note that this was the April issue of the Propagator.

The GSARA Propagator is designed in
InDesign CC 2019
Editor: Bob Buus, W2OD
Layout: Cy Stanway, K2CYS
Photos: Harry Zuzuro, KD2EJW
You are invited to submit articles
and ideas



Welcome to GSARA

Jan O'Malley, KC2JBT from Mantoloking was first licensed in 2002 and holds a General Class license. She is an IT consultant and also an avid sailor. Listen for her on our repeater either digital or analog with her Yaesu FT-2D.

Jim Noble, N3ZZZ ("N3 triple Z") from Shrewsbury was a GSARA member when he

was first licensed about 20 years ago. He is a website designer and holds a Technician license.

Refer to the latest Roster for mail address, phone number and e-mail address.

Welcome to the GSARA!

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!

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** April 8. All times are in EDST. Contests are listed in the April QST, p. 87.

April 1 - **Monmouth County ARES/RACES Net** meets on 147.045 +600, PL=67.0 at 8:00 pm

April 2 – **Old Barney VE Test Session** at 6:30 pm in Manahawkin. Contact Urb Le Jeune, W1UL at 609-296-5856 or urb@w2dec.com

April 2 – **Old Barney ARC Meeting** at 7:30 pm in Manahawkin, NJ. See <http://www.obarc.org>

April 2 and every following Tuesday – **GSARA Net** on 147.045 PL=67 at 8:30 pm.

April 2 and every following Tuesday – **QCWA News Net** on 147.045 PL=67 at 9:00 pm.

April 3 – **GSARA Program Meeting**. The program will feature Paul Newland, AD7I who will talk about how to build simple portable antennas that might be used for Field Day. Refreshments will be served. Don't miss it!

April 4 - **WIAW Qualifying Run** at 9 am (10-40 wpm). See April 2019 QST page 99 and www.arrl.org/qualifying-run-schedule

April 4 - **HCARC Meeting** 7 pm at Holiday City South Clubhouse in Toms River.

April 5 and every Friday – **Lunch at the Blue Swan Diner** in Ocean at noon. Table at back left.

April 8 – **144 MHz Spring Sprint**, all modes from 3 pm to 7 pm. See <http://sites.google.com/site/springvhfupsprints>

April 10 – **Holiday City VE Session** at 7 pm in Toms River. Contact is Larry Puccio, K2QDY at 732-349-2950 or e-mail at lpuccio1@comcast.net

April 11 – **JSARS meeting** in Riverwood Park Rec. Building, Rt. 527 and Riverwood Drive at 7:30 pm.

April 13 – **OMARC Meeting** at 9:00 am at the Firehouse on 600 Sixth Ave. in Spring Lake Heights. Guests are always welcome.

April 14 – **ARRL Rookie Roundup, SSB** from 2 pm to 7:59 pm, 3.5 to 54 MHz. See <http://www.arrl.org/rookie-roundup>

April 15 - **Monmouth County ARES/RACES Net** meets on 147.045 +600, PL=67.0 at 8:00 pm

April 16 – **222 MHz Spring Sprint**, all modes from 3 pm to 7 pm. See <http://sites.google.com/site/springvhfupsprints>

April 17 – **GSARA Meeting** at 7:30 pm at the Red Cross in Tinton Falls. Regular business meeting. Refreshments will be served.

April 18 – **WIAW Qualifying Run** at 4 pm (10-40 wpm). See April 2019 QST page 99 and <http://www.arrl.org/qualifying-run-schedule>

April 18 – **JSARS VE Test Session** at 7:00 pm Riverview Park Recreation Bldg., Rt. 527 and Riverwood Drive in Toms River. Contact Ed Genoio, WA2NDA at 609-971-2792 or wa2nda@comcast.net.

April 20-21 – **China DX Contest, SSB and CW**, all HF bands from 2 am Saturday to 1:59 am Sunday. See <http://www.mulandxc.org>

April 24 – **432 MHz Spring Sprint**, all modes from 3 pm to 7 pm. See <http://sites.google.com/site/springvhfupsprints>

April 27 – **GSARA VE Test Session** at 11 am at the Red Cross in Tinton Falls. See page 1.

APRIL 2019

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1 ARES/RACES 8 pm	2 Old Barney GSARA Net 8:30 QCWA News 9 PM	3 GSARA Mtg	4 CW Qual. Run HCARC Mtg	5 Blue Swan lunch	6
7	8 KE2V 144 MHz Sprint	9 Old Barney GSARA Net 8:30 QCWA News 9 PM	10 Hol. City VE	11 JSARS Mtg	12 Blue Swan lunch	13 OMARC Mtg.
14 Rookie Roundup	15 ARES/RACES 8 pm	16 222 MHz Sprint Old Barney GSARA Net 8:30 QCWA News 9 PM	17 GSARA Mtg	18 CW Qual. Run JSARS VE	19 Blue Swan lunch	20 China DX
21 W2SHS China DX	22 N2HGI	23 KD2EPA GSARA Net 8:30 QCWA News 9 PM	24 432 MHz Sprint	25 W2OD	26 Blue Swan lunch	27 GSARA VE
28	29	30 K2RLF Old Barney GSARA Net 8:30 QCWA News 9 PM				



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First Class