



Propagator

Garden State Amateur Radio Association



**W2GSA
OCTOBER
2019**

8 Donner St.,
Holmdel, NJ 07733



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Bob Buus, W2OD

Propagator Design &
Production:
Cy Stanway, K2CYS

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



CQ GSARA CQ

Now that the Fall is here, we will find ourselves more inside and maybe even have a chance to get on the air a bit in the coming months. Although propagation is not really that great, there have still been openings from time to time and some of the GSARA members are reporting some good QSOs. Let's hope that there are lots more just waiting out there in the ether!

- In this month's Propagator you will get filled in with all the news about what's going on in the club. You will find that there is a lot going on! So many people are involved in several projects, both short-term and long-term. There is terrific involvement in the club by all its members and, if you want to get more involved, just drop the president an e-mail and he will get you in touch with the right person.
- Don't forget, you are always welcome to contribute to the Propagator. It can be anything ham radio related; something personal or something you came across. We welcome all

articles. And, since we primarily send the Propagator out electronically, there is not limit to the length of any article.

Sadly, this past month, GSARA lost John Chunga, KC2YWL who passed away after a relatively short illness. John was the club treasurer until his health prevented him from doing his volunteer work effectively and he had to give it up. John was frequently on the W2GSA repeater and was always upbeat and cheerful. He was looking forward to coming back and being active once again after he healed up. Sadly, that day never came.

GSARA extends its condolences to his family on his death; his wife Felicia and son Samuel.

John, 73, OM. You will be missed

•Check out the club website at www.gsara.club. You can find information about upcoming events, minutes from past meetings, back issues of the Propagator, members' pictures and contact information.

•What are you doing reading the Propagator?! Get on the air! See you in the pile up!



FROM THE VICE-PRESIDENT DENIS COMETTE, K2NPT

I hope everyone had a good summer.

In last month's message I mentioned that Hurricane Dorian was on the way toward the East Coast and as I write this today, Dorian has passed. Passed but certainly not forgotten as it left a disaster in its wake, the effects of which will be felt for years to come. For some it was the hurricane that never was but for others it was devastating. On September 1, the eye of Hurricane made landfall on the Abaco Islands with maximum sustained winds of 185 mph, making it the strongest hurricane on record to affect the Bahamas. Dorian killed at least 50 people in The Bahamas – 42 on Abaco and 8 on Grand Bahama and left thousands homeless. Let's keep these unfortunate Bahamians in our thoughts and please consider what you can do to help in the aftermath.

Coming soon on the web site will be a swap and shop page. If you have:

- something you're looking for?
- something you want to give away?
- something you would like to sell?
- something you would like to swap for something else?

Post your selection to the web with a description of the item, your name and call sign and your email address. Note that there is not a place for pricing as that detail will be a matter between the posting member and the responding member. The swap and shop will run for a trial period to test the viability of the service and if you have any suggestions to improve the site, please let us know. It is worthy to note that this idea came about from a suggestion from one of our members and serves to reinforce our effort to encourage participation from the membership on the operation and the services provided by the club.



One the major goals for the club in 2019 was to establish remote control capability of the Icom 7300 for all our members holding a general or extra class license. We are very excited to announce that this system has come to fruition. Remote control has been Beta tested and will be introduced to the membership at the November general meeting. The radio will have a dedicated Zepp (80m – 10m) antenna designed and constructed by our test team and can be configured for voice, CW and FT8. The software required is free and can be downloaded on a modest PC. Remote control should have a particular interest to those members restricted in their antenna selection.

We look forward to seeing you all at the November meeting.



FROM THE EDITOR

BOB BUUS, W2OD

The Twin Lights Bike Tour on September 22 went well and GSARA members volunteered to staff the various rest stops throughout Monmouth County. Almost 3000 bicyclists participated with nice sunny weather. We lost use of the repeater for about 20 minutes because a non-GSARA member connected us via Wires-X to America's room (which was busy) and we had to wait for it to time-out in 20 minutes. Special thanks to those who supported this event.

The GSARA Hamfest is coming up on Saturday, September 28. GSARA members have responded well to our sign-up sheet so we are covered but could always use a little more help. It is only through the efforts of many members that our Hamfest can be a success.

Sadly, we have to report on the sudden and unexpected death of former GSARA Secretary John Chunga, KC2YWL. When I last talked to him in the hospital a few weeks ago, everything was looking up and he was anticipating being discharged to rehab. Unfortunately, things turned for the worst. May he rest in peace. I look forward to seeing some of you at the memorial service on Saturday, October 5.



The Red Cross has gotten more strict about security and will no longer allow us to prop open an otherwise locked door to let those without keys into the building. Although it is a bit inconvenient on meeting nights because someone has to be posted at the door to let in members attending the meeting, we are guests of the Red Cross and must follow their rules if we wish to maintain our meeting place and radio shack.

The committee headed by our Chief Engineer, Phil Festa, N2EDX is making impressive progress in the remote operation of the club's IC-7300 HF rig through the internet. I saw a demonstration of the system a few weeks ago and it looks like it will be simple to use and not require a steep learning curve to learn to use the supporting software. This should be a boon to those living in restricted communities who can't put up a decent outdoor antenna. As soon as everything is ready, members will be notified as to how to participate in this remote operation.

As always, I appreciate feedback or material for The Propagator. The deadline for the November issue is October 15.
73 de Bob, w2od@arrl.net

HISTORY OF TELEVISION: PART 2

By **Bob Buus, W2OD**



After Japan surrendered in August 1945, the War Production Board lifted their ban on the manufacture of radio and TV equipment for civilian use. By the end of the year, many of the experimental TV broadcast stations were back on the air broadcasting the NTSC 525 line, 60 frame interlaced picture standardized just before the War. There were some changes in frequency allocations since the FCC reduced the 18 pre-war vhf channels to only 13 after the war (actually only 12 since channel 1 was never assigned).

In 1946, there were four major manufacturers of TV receivers (RCA, Dumont, Crosley and Belmont) with screen sizes ranging from 5 inches to 10 inches. The top of the line RCA set was the 630-TCS with a 10 inch screen selling for \$350 (a new Ford car was about \$700 that year). The first TV network was the DuMont network which started on September 1946. By the end of the year, a total of 44,000 TV receivers had been sold.

The first TV broadcast station west of the Mississippi was KTLA in Hollywood which was on the air in early 1947. In the fall of 1947, the World Series Baseball games were televised and watched by 3.9 million people – most in bars and public places since there were only a few hundred thousand sets in use at that time.

TV receivers continued to sell well. By the end of 1948, a million homes had a TV set and NBC, CBS and ABC all had established TV networks to distribute programming. By the end of 1949, 4.2 million homes had TV sets and all major cities had at least one broadcast TV station. By 1953, half of all American homes had a TV set and screen sizes had increased to 17 and 21 inches.

With the larger screen sizes, viewers sat further from the sets and had to get up to change the volume or the channel. TV manufacturers offered a wired remote control in

the early 1950s. Wireless remote control was offered for the first time in 1955 when Zenith came out with a flashlight “gun” that could be aimed at the volume control or channel selector to control the TV. It didn’t work very well because ambient light could falsely trigger the control. Later remotes used ultrasonics and, eventually, infrared or RF for wireless remote control.

Color TV had been experimented with since before the war. On October 10, 1950, the FCC approved the CBS field sequential color system effective November 20. RCA, which had been working on a poorly performing dot sequential color system took the FCC and CBS to court objecting to the ruling. On May 28, 1951 the Supreme Court upheld the FCC ruling and manufacturers starting building sets that could receive both conventional monochrome TV as well as the new CBS color system. Unfortunately, all of the millions of TVs already in use could not receive the CBS color system. The few color programs broadcast by CBS had very few viewers because of the lack of suitable receivers. By 1953, CBS conceded victory to RCA which had developed a compatible color system so that color programs could be viewed on older monochrome TVs in black and white. The technology was complicated and pushed the limits of the capability of vacuum tube circuitry. The elegant engineering of the RCA system impressed the NTSC which recommended adoption of the compatible RCA system. The FCC was skeptical but gave RCA special permission to broadcast a color signal on November 22, 1953. When it was successfully received on millions of old monochrome sets in black and white, the FCC reversed itself and adopted the NTSC-RCA color system. The first NTSC color program broadcast throughout the country was the Tournament of Roses Parade on January 1, 1954.

Both RCA and Westinghouse started manufacturing NTSC color receivers in 1954. Sales were poor. The sets were expensive, complicated, prone to failure and unstable. The Hue and Saturation controls had to be tweaked every few minutes to maintain a decent color picture. Furthermore,

there were few programs available in color. It would take until 1965 before even half of the prime time programming would be in color. It wasn't until 1972 that color TV sales exceeded those of black and white TVs.

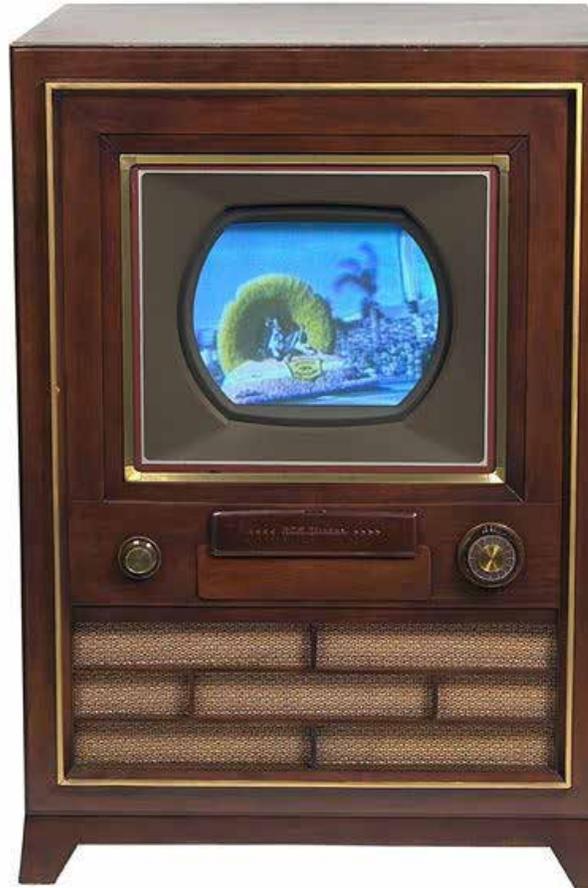
The late 1940s saw the peak of a very good sunspot cycle with 10 meters being open to throughout the world almost every day. The high sunspot activity allowed a lot of skip on the lower vhf frequencies – just where the VHF TV channels were assigned. The result was a lot of co-channel interference between the VHF TV channels because skip was not considered when the FCC established minimum distances between VHF TV stations on the same channel. The FCC was under pressure to do something about it. The first thing they did was freeze the issuance of any new VHF TV licenses on September 30, 1948. This freeze lasted until 1952.

In 1949, the FCC added 70 new television channels in the UHF spectrum (channels 14 through 83 running from 470 to 890 MHz). The FCC wanted VHF TV broadcasters to move to the UHF channels but there was a lot of resistance. Receiver manufacturers were reluctant to add the UHF channels to their TV sets because it was an added expense that would raise the price. Broadcasters were reluctant to go to the UHF channels because of lack of sets and viewers.

On April 14, 1952, the FCC assigned UHF TV channels throughout the United States. Asbury Park got channel 58 and Freehold got channel 74. Still broadcasters avoided the UHF channels and some of the few who tried UHF went bankrupt. Finally, the FCC got congress to pass the All Channel Receiver Act of 1964 that required all TV receivers

to be capable of receiving all 83 TV channels.

In 1963, UHF channel 37 (608-614 MHz) was reserved world-wide for use by radio astronomy receivers. In the 1970s, UHF channels 70 to 83 (806-890 MHz) were reassigned to Cellular Telephone use.



In the early 1990s, an Advanced Television System Committee (ATSC) was formed to come up with a high definition digital TV system. The biggest controversy was between broadcasters who wanted to continue with interlaced scanning and the computer industry that wanted to use progressive scanning. The ATSC solved this problem by allowing both 720p progressive scanning and 1020i interlaced scanning. By the late 1990s, there were several HD digital broadcasters on the UHF channels. To ease the transition and encourage broadcasters to switch to digital broadcasting, the government subsidized the cost of converter boxes that would convert the digital HD signal into an analog signal that could still be received on conventional analog TV receivers.

By 2009, most analog TV transmission on the VHF channels had stopped and the FCC decreed that all broadcasting must be digital by 2015. The transition from analog to digital went smoother and more quickly than expected with the development (and dropping costs) of large flat screen digital television receivers so consumers gladly bought the new HD TV receivers and junked their old CRT-based analog TVs with converter boxes.

The UHF TV band was further cut by reassigning the top 19 channels so most digital TV is now broadcast on UHF channels 14 through 50. Few consumers today use off the air pickup for their TV needs but rely on cable (and most recently streaming) for their TV source.

So now you know!

MEETING TIMES

The next GSARA meeting will be on Wednesday, October 2 at 7:30 pm at the Red Cross. This will be a program meeting featuring Bob Buus, W2OD who will demonstrate the Wouff Hang system described in the October 2019 QST (page 30). This is a simple means of hanging wire antennas in trees with minimum damage to the tree. Guests are welcome and light refreshments will be served.

The next meeting in October will be held on Wednesday, October 16 at 7:30 PM at the Red Cross. This will be a regular business meeting and will include a review of our September 28 Hamfest. Be there! Guests are always welcome and refreshments will be served.

VE SESSION

The GSARA monthly test session will be held at the Red Cross Regional Headquarters in Tinton Falls on Saturday, October 26 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.

WELCOME TO OUR NEW GSARA MEMBER

Please welcome our newest member to GSARA. He is Vladimir Kuletski, AC2F from East Brunswick, NJ. Licensed since 2018, Vladimir is an Engineer who holds an Extra class license. He has a Yaesu FTM-400XDR on analog 2M and 70 cm but will get on the Fusion and Wires-X systems. He was an active participant in our Field Day operations this year.

Please add to your Roster:

Vladimir Kuletski, AC2F
527 Old Bridge Turnpike, Unit 3227
East Brunswick, NJ 08816
425-780-7646
6654522@gmail.com



SILENT KEYS

JOHN CHUNGA, KC2YWL

It is with great sadness that we report the death of former GSARA Secretary John Chunga, KC2YWL. John died unexpectedly at the ICU of Jersey Shore Medical Center on Monday, September 16. He had been in the hospital for several months, had his right leg amputated and was looking forward to going to rehab to learn to walk again with a prosthesis.

John is survived by his wife, Felicia who has terminal cancer; his son, John; his sister and many other relatives.

John was cremated and there was no funeral service. There will be a memorial service on Saturday, October 5 but the time and place has not been established as of press time.

John was a very active member of GSARA and ably served as Treasurer until his illness earlier this year. He also helped out at our hamfests and often brought Ralph, KC2YNL from

Freehold to our meetings.

John was a true gentleman. His on-the-air style was friendly and relaxed and he was most helpful and responsive whenever one needed him. There is no question that he will be missed and his sudden death has affected all the members of the GSARA that knew him.

Our hearts go out to John's family and especially his wife, Felicia and his son, Sam who are facing Felicia's upcoming passing on top of John's unexpected death. Please keep them in your thoughts.

(ADDITIONAL INFORMATION FROM CY, K2CYS WHO HAS BEEN IN TOUCH WITH JOHN'S SISTER: THE FINAL DATE, TIME AND PLACE FOR JOHN'S CELEBRATION OF LIFE GATHERING WILL BE ANNOUNCED AS SOON AS CY GETS THE INFORMATION FROM HIS SISTER. THE DRESS IS CASUAL - JEANS, PLEASE AND THE GATHERING WILL BE SHARING STORIES OF JOHN WITH NO RELIGIOUS CEREMONY. JOHN'S SISTER, KATHERINE, IS VERY EXCITED TO MEET JOHN'S GSARA FRIENDS AS HE HAD SPOKEN SO HIGHLY OF THE CLUB AND ITS MEMBERS.)

SAFETY DURING MOBILE OPERATIONS

BY MARLO MONTANARO, KA2IRQ

I am always amazed when I look through older ham radio publications or listen to interviews/podcasts with hams who operated mobile “back in the day.” Gone are the days of running tube equipment, with its inherent high voltages in your car. Of course, in the 1950’s, you could actually fit tube radios in your car!

But that doesn’t mean that we don’t need to consider safety during mobile operations in the 21st Century. Today’s 12 Volt equipment is largely very safe when operated within the confines of amateur radio. And lightning, as a hazard, basically goes away because we are operating from a “Faraday Cage” in our car.

There are three safety concerns when operating mobile. The proper power connection, RF exposure, and distracted driving.

Let’s address the elephant in the room first - distracted driving. While the laws in each state are written slightly differently, and the vast majority are aimed at cellphone use, let’s face it... if you’re fiddling with the controls of your radio, handling a corded microphone, and yapping away, all at the same time, you are a distracted driver. Stop it! Your first priority is driving, not talking on the radio - and we want you around for many more years! While hams have been pulled over and used the “ham radio is not a cellphone” card, you are still a hazard on the road. Luckily, in NJ, amateur radio is specifically exempt from distracted driving laws. However, that does not mean a police officer will not pull you over... and laws in other states when you travel may be different. (Incidentally, it helps to have a laminated copy of your amateur radio license with you to show the nice officer.)

Consider more modern mobile radios that utilize Bluetooth microphones/headsets and detachable front panels that can be placed close to the driver’s field of view while

the radio itself is mounted elsewhere in the vehicle. Develop the practice of adjusting your radio’s controls while you are stationary and leaving the controls alone while moving (as Motorola states on their mobile web site, “One touch, no reach”). Use the radio’s memories to pre-program as much information into the radio as possible and avoid “VFO” mode where everything must be adjusted, including PL-tones and repeater offsets.

The next safety concern is power. There are accepted best practices when it comes to making a power connection in your vehicle. If you are operating 5 watts or less output in a temporary installation, you can get away with using the existing cigarette lighter or “accessory” power connection. Again- this is for temporary, low power operation only. For anything else, a direct connection to the vehicle’s power system should be made. Often, this means running wires through the firewall between the passenger and engine compartments. (It helps to know how much current your radio draws at 13.8VDC when in receive and various power levels of transmit.) There are proper ways to do this!

Every vehicle is different- please research yours and the best method for wiring. Generally speaking, you will be making a connection directly to the battery’s positive terminal. The negative or ground connection may go directly to a ground point in the engine compartment. But here too, there are proper ways to make this connection for your vehicle. (This is a safety column, and where to make these connections is outside the scope of this article... RESEARCH!) From a safety standpoint, both positive and negative lines need to be fused, and the wires of sufficient gauge to safely handle the current involved. In most cars, you’ll want to safely handle 15 amps at 13.8 Volts, which generally means using 10 gauge wire. $13.8V \times 15A = 207$ Watts of power delivered to the radio equipment. If you consider a typical transceiver running at 50% efficiency, that means approximately 100 Watts output. This is sufficient for MOST amateur radio equipment. But consult your radio’s specifications for specifics. Some radios may need a circuit that can supply 20 amps, at which case you will need to go up to 8 gauge wire. Such heavy gauge wir-

ing requires the proper termination at both the battery and radio ends and the proper path through the vehicle. Even heavy gauge wire gets hot under high current circumstances... if your wires are run parallel to other vehicle wiring that may already be warm, you could actually start a car fire. Please be cautious here – if you're running high power in your car, you may need a separate, dedicated wiring path through the firewall. Newer hybrid vehicles that have extensive electrical systems, heavy duty charging circuitry, and sophisticated electrical monitoring systems are now coming into common use. However, each of these vehicles must be approached carefully as radio system connections can

void warranties or cause other unforeseen problems. An alternative is a separate battery system for your two-way radio equipment. If there is a safe place where another battery can be mounted in the car, this is a viable alternative, as long as a system to charge the battery can be found. Most modern cars have manufacturer's supplements or technical notes on installing two way radio systems in each model. Search for these.

The last safety issue is RF exposure. There is precious little on the Internet regarding RF exposure in a mobile environment. This is because of the normally low power, low duty cycle, and expected RF shielding the automobile provides. To my thinking, however, you are in a "captive" environment in which the antenna system may only be a few feet from your body; modern cars have less metal and more plastic than ever; and generation of higher power is easier than ever.

While a comprehensive RF exposure assessment is not

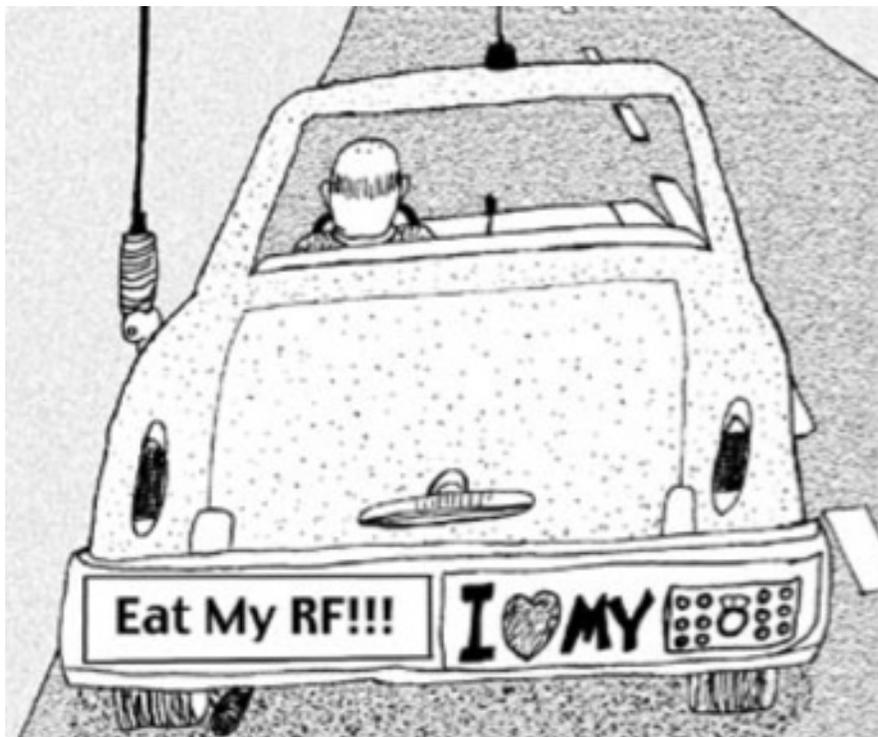
required by the FCC for mobile operations, could it really hurt? The human body is most susceptible to RF in the VHF range. This includes the most popular mobile operating band, 2 meters. RF exposure limits here are 50 Watts before an assessment is needed. Since most 2 meter rigs

operate at a max of 50 Watts, keep yourself below that and you should be fine. On 70 cm, the limit is 75 Watts. Again, that should not be a problem. The biggest problem I see is operating on the 10 meter band where the limit is also 50 Watts... most small, HF rigs can easily generate 100 Watts on the 10 meter band. This doesn't mean you can't operate, just that it would probably be a good idea to do an assessment

of your mobile station and make the decision for yourself whether you should be exposing yourself and your passengers to such a high RF field.

An excellent reference is the web site of Alan Applegate, NoBG, of Roswell, NM. Find it at <http://www.kobg.com>. Alan has a very well researched web site that has actually won awards. The information there is vital to anyone attempting a mobile installation and I highly recommend you read all that is there before even installing a 2 meter rig in your car.

Mobile operating can be a lot of fun. It's not simply talking on 2-M repeaters while driving anymore. Being a rover between grid squares during a contest, Parks on the Air (POTA), HF operating, emergency operating (ARES), weather spotting (Skywarn), etc. can all be interesting and rewarding parts of our hobby. But they're made all that much more fun if you do it safely!



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!

The GSARA Propagator is designed in InDesign CC 2019
Editor: Bob Buus, W2OD
Layout: Cy Stanway, K2CYS

You are invited to submit articles and ideas

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

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.



Tuesday Net Report

GSARA NET 8:30 PM TUESDAYS

In the four sessions in September, we had 78 check-ins for an average of 19.5 per session. The following 27 members checked into this net (number of check-ins in parenthesis):

N2AJ0 (4), N2BCS (4), KA2F (4), KZ2G (4), NA2J (4), AC2MB (4), N2MEP (4), K2MFS (4), W2NAZ (4), K2NPT (4), W2OD (4), KD2PYO (4), N2FSB (3), N2HGI (3), AD7I (3), KD2OXR (3), K2RLF (3), KC2YNL (3), W2MJP (2), KD2NAD (2), N2BMK (2), NF3E (1), KD2EPA (1), KA2IRQ (1), KD2KOA (1), KG2NV (1), and WB2RPW (1).

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



Do you have a picture of your much younger self (25+ years ago) in your shack. Send it to Cy, K2CYS at k2cys@arrl.net and share that picture with the club!

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.

THE LATEST EPISODE OF ARRL AUDIO NEWS IS AVAILABLE

07/26/2019

Listen to the new episode of ARRL Audio News on your iOS or Android podcast app, or online at <http://www.blubrry.com/arrl-audio-news/>. Audio News is also retransmitted on a number of FM repeaters. Click here and then scroll down to see the list.

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A Look Back

FIVE YEARS AGO

From the October 2014. Hamfest results showed we made \$624.88 thanks to not having to pay the \$300 charge to MAECOM and getting \$379 from the club table. Ed Woznicki, AC2A joined GSARA. Former members Bob Guercio, AC2Z and Mike Doelger, WB2GXP became silent keys.

TEN YEARS AGO

From the October 2009 Propagator: Bob Guercio, AC2Z (SK); Bill Shockley, NJ2H; Mike DiPersio, KC2Q; Lorraine Heine, KC2FDR; Frank Wroblewski, W2XYZ; and Bob Buus, W2OD visited the Battleship New Jersey on September 25. Jim Hughes, W2TCS and Tom Jardine, K2SAQ became silent keys. A new Roster was released showing 43 members.

FIFTEEN YEARS AGO

From the October 2004 Propagator: The response letter received by Frank, W2XYZ after he wrote to President Bush regarding BPL was published on page 8. Leslie Grove, W2UKY became a silent key on August 23 and Red Gioggia, W2RDV on August 28. The ISS was configured as an FM repeater for the first time. The Army released 17 acres of Camp Evens to Wall Township which turned it over to InfoAge.

TWENTY YEARS AGO

Bicentennial Hall in Fair Haven was closed due to structural problems so GSARA will meet at Fort Monmouth starting in October. A special event station will operate at Twin Lights to commemorate the 100th anniversary of Marconi's successful operation from there. OMARC will operate the first week, GSARA the second, and QCWA the third. Rich Moseson, W2VU was named editor of CQ magazine.

TWENTY-FIVE YEARS AGO

From the October, 1994 Propagator: The Shore Area Hamfest will be held at Brookdale College for the first time on October 9. The GSARA dinner/dance at the Town and Country Inn in Keyport is October 21. New members included Al Emer, N2YAC (now SK), Lou Russo, KB2RIO (now W2HAM) and Larry Wilkins, KB2RIS (now SK).

THIRTY YEARS AGO

There was no Propagator for October 1989.

THIRTY-FIVE YEARS AGO

From the October, 1984 Propagator: Al Lombardo, N2CUJ took over as editor of The Propagator from Vince Rosati, KE2V. VE testing started and Trevor Lewis, KA2TGF was the first in this area to take an exam and upgraded to Advanced. The 4th Treasure Island event was being planned by Harry Polhemus, KN2B. OMARC was in a bit of turmoil as to whether it should be a club (OMARC) or an association (OMARA). Russia changed their call letters so the letter after the initial U or R indicates the area or republic.

NOTES ON CALENDAR (see next page)

Large Call letters denote birthdays e.g. **W2GWI** on October 1. All times are in EDST. Contests are listed in the October QST, p. 80.

October 1 – **Old Barney VE Test Session** at 6:30 pm in Manahawkin. Contact Urb Le Jeune, W1UL at 609-296-5856 or urb@w2dec.com

October 1 – **Old Barney ARC Meeting** at 7:30 pm in Manahawkin, NJ. See <http://www.obarc.org>

October 1 and every following Tuesday – **GSARA Net** on 147.045 PL=67 at 8:30 pm.

October 1 and every following Tuesday – **QCWA News Net** on 147.045 PL=67 at 9:00 pm.

October 2 – **GSARA Program Meeting** at the Red Cross at 7:30 pm. The program will feature Bob Buus, W2OD demonstrating the Wouff Hang system for putting antenna wires in trees. Light refreshments will be served.

October 3 – **Holiday City ARC Meeting** at 7 pm at Holiday City South Clubhouse in Toms River.

October 4 and every Friday – **Lunch at the Blue Swan Diner** in Ocean at noon. Table at back left.

October 4 - **W1AW Qualifying Run** at 10 pm (10-35 wpm). See October 2019 QST page 96 and www.arrl.org/qualifying-run-schedule

October 5-6 – **Oceania DX Contest, Phone** from 4 am Sat. to 4 am Sunday. See <http://www.oceaniadxcontest.com>

October 7 - **Monmouth County ARES/RACES Net** meets on 147.045 +600, PL=67.0 at 8:00 pm

October 9 – **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

October 10 – **JSARS meeting** in Riverwood Park Rec. Building, Rt. 527 and Riverwood Drive at 7:30 pm.

October 12-13 – **Oceania DX Contest, CW** from 4 am Sat. to 4 am Sunday. See <http://www.oceaniadxcontest.com>

October 12 – **OMARC Meeting** at 9:00 am at the Firehouse on 600 Sixth Ave. in Spring Lake Heights. Guests are always welcome.

October 16 – **GSARA Meeting** at 7:30 pm at the Red Cross in Tinton Falls. Regular business meeting. Refreshments will be served.

October 16 – **W1AW Qualifying Run** at 7 pm (10-35 wpm). See October 2019 QST page 96 and <http://www.arrl.org/qualifying-run-schedule>

October 17 – **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.

October 21-25 – **ARRL School Club Roundup**, all modes from 9:00 am Monday to 11:59 pm Friday. See <http://www.arrl.org/school-club-roundup>

October 21 - **Monmouth County ARES/RACES Net** meets on 147.045 +600, PL=67.0 at 8:00 pm

October 21 – **Telephone Pioneers QSO Party**, all modes from 2 pm to 11 pm. See <http://www.tpqso.com>

October 25-27 – **CQ Worldwide DX Contest, SSB** from 8 pm Friday to 7:59 pm Sunday. See <http://www.cqww.com>

October 26 – **GSARA VE Test Session** at 11 am at the Red Cross Regional Headquarters in Tinton Falls.

October 31 – **Halloween** Trick or Treat

OCTOBER 2019

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		W2GWI 1 Old Barney GSARA Net 8:30 QCWA News 9 PM	2 GSARA Mtg	3 HCARC Mtg	4 Blue Swan lunch CW Qual. Run	5 KD2NAD Oceania SSB DX
6 Oceania SSB DX	7 ARES/RACES 8 pm	8 Old Barney GSARA Net 8:30 QCWA News 9 PM	9 K2MFS Hol. City VE	10 JSARS Mtg	11 Blue Swan lunch	12 OMARC Mtg. Oceania CW DX
13 Oceania CW DX	14 W2NAC	15 Old Barney GSARA Net 8:30 QCWA News 9 PM	16 CW Qual. Run GSARA Mtg	17 JSARS VE	18 Blue Swan lunch	19 W2NIR
20	21 School Club Tel. Pion. QSO ARES/RACES 8 pm	22 CW Qual. Run Old Barney GSARA Net 8:30 QCWA News 9 PM	23 W2NAZ School Club	24 School Club	25 School Club Blue Swan lunch CQ WW SSB	26 GSARA VE CQ WW SSB
27 CQ WW SSB	28	29	30	31 Halloween		



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First Class