

# THE Propagator



## Garden State Amateur Radio Association

July 2018

**W2GSA**  
Asbury Park, NJ



8 Donner St.,  
Holmdel, NJ 07733



Propagator Editor:  
Bob Buus, W2OD

Propagator Design &  
Production:  
Cy Stanway, K2CYS

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

Please visit the club  
website and feel free  
to use our open re-  
peater.



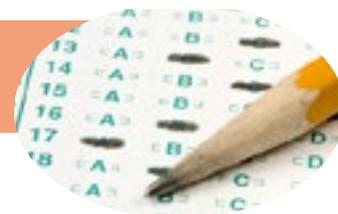
### GSARA MEETINGS



The FIRST Wednesday in July is the July 4th holiday so there will be no GSARA meeting that day. The next GSARA meeting will be on July 18 (see below).

The only meeting in July will be held on Wednesday, July 18 at 7:30 PM at the Red Cross. This will be a regular business meeting and will include a review of our Field Day activities. Guests are always welcome and refreshments will be served.

### VE SESSION INFO



The GSARA monthly test session will be held at the Red Cross on Saturday, July 28 at 11 am. The fee is \$15 and you should bring the original and a copy of any amateur license presently held and the original and one copy of any credit (CSCE) forms that you have (copies will be sent in with your test results). Also bring 2 forms of ID with one being a photo ID.

For more information, contact Rich Bilon, N3RB at 732-972-1397 or [n3rb@arrrl.net](mailto:n3rb@arrrl.net).

Home of the W2GSA open repeater  
146.045 +.600



## From the Editor

### Bob Buus, W2OD

As I write this, Field Day is rapidly approaching. I hope that we get wide participation from the more than 100 members of GSARA. I am unable to participate this year but my heart will be with all of you who do participate. I hope you all have a very good time and score a few points in the process.

In gathering the background information about Lee De Forest in the "Now You Know" article, I found that the more I learned about him, the less I liked him.

As a child, he was picked on and bullied by the "Rebs" in Alabama and that might partially explain why he ended up with such a super ego. Almost all of his contemporary radio pioneers (Marconi, Fessenden, Armstrong) hated him with a passion, and for good reason.

De Forest's love life was strange, if it existed at all. He had four wives and was estranged from his three daughters for most of his life. He married his fourth wife before bothering to get a divorce from the third wife.

Although Lee's father was a Congregational minister, Lee lost his religion while he was in college when his father died. He prayed for fame and riches and when he didn't get them, he became an agnostic. I wouldn't be surprised that he felt that he was superior to God.

There is no doubt that he was the first person to put a grid in a vacuum tube and note its amplifying properties. He should be honored as the inventor of the triode vacuum tube. His long list of other patents is pretty much worthless.

As far as being a genius who was the Father of Radio or grandfather of TV, gag me with a rusty spoon! IMHO, I think he did more harm than good to radio.

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

73 de Bob, [w2od@arrl.net](mailto:w2od@arrl.net)



## LEE DE FOREST

By Bob Buus, W2OD

Lee De Forest was born on August 26, 1873 in Council Bluffs, Iowa. His father, Henry Swift De Forest, was a Congregational Church Minister. In 1879, Henry De Forest was appointed President of Talladega College in Talladega, Alabama so the family moved there when Lee was 6 years old. Talladega College was open to all disadvantaged children who were mostly black. As a result of the Civil War, the white community did not take kindly to the De Forest "Yankees." Similarly, the blacks looked upon the northerners with indifference. As a result, the De Forest children (Lee had an older sister and a younger brother) did not play much with other children.

Lee was a good student and excelled in math and science. Although a loner, he was an avid reader and followed the works of Hertz, Tesla and Marconi with a particular fascination with "wireless." He aspired to be rich and famous someday through his many inventions. To further Lee's education, his parents sent him off to the Mount Herman Boys School in Massachusetts for two years. His parents then wanted him, their oldest son, to go on to divinity school and become a clergyman but Lee wanted to go into science and engineering instead. After much family conflict, Lee ended up at Yale University Sheffield Scientific School with a \$300 per year scholarship awarded because his name



was De Forest.

After graduating from Sheffield in 1896, Lee continued with post-graduate studies but was soon expelled for disrupting the school's electrical system with his experiments. He then enrolled in Yale's Sloane Physics Laboratory and received his Doctorate in 1899.

After trying a few mediocre jobs after graduation, Lee decided that fame and riches would only come to him if he went into business himself. With the America's Cup yacht races coming up in 1901 and remembering all of the great publicity that Marconi received for covering the 1899 races, Lee decided to cover the 1901 races and inked a contract with the Publisher's Press Association to cover the races. Marconi already had a contract with the Associated Press to do the same thing. When the races got underway, both stations jammed each other to the extent that no information was sent by wireless and both failed to deliver on their contracts.

In 1902, De Forest met up with a huckster promoter named Abraham White. White proposed that they incorporate a De Forest Wireless Telegraph Company and sell stock to the public. The stock sold so well (with extravagant claims by the company) that additional offerings were made. Of course, the company never made good on its claims since almost all of the investor's money went into White's pockets.

The 1903 America's cup was a repeat of the 1901 disaster but a third transmitter was added by the International Wireless Company for no good reason except to block both Marconi and De Forest.

De Forest was looking for a radio detector better than the coherer used by Marconi. In 1903, he visited Reginald Fessenden and saw that he was using an electrolytic detector.

De Forest copied it, renamed it a "spade detector" and filed for a patent on his new invention. When Fessenden found out, he sued the De Forest Wireless Telegraph Company and was granted a huge settlement. De Forest had to skip out of the country to Canada until White came up with a partial payment. White then reorganized the De Forest Company to minimize its liability.

Still looking for a good detector, De Forest then ordered some Fleming valves from England and had a glassblower reproduce them. After putting a metal sleeve around the outside of the tube and later a coil of wire, he renamed his modified Fleming valves "Audions" and filed for a patent. Like the Fleming valves, the De Forest Audions didn't work very well as detectors.

To improve the Audion, De Forest asked his glassblower to add a wire inside the Fleming valve between the filament and the plate and bring the lead out the side of the valve. He observed that by placing a positive voltage on the added wire, he could increase the current through the valve. To further improve it, De Forest formed the added wire into a zig-zag pattern and placed it between the filament and plate with the plane of the zig-zag parallel to the plate. He called this added electrode a "grid" because it reminded him of the gridiron of a football field. Varying the grid voltage could vary the current flowing through the Audion and the resulting amplification increased the sensitivity. Thus in 1906 the triode tube was invented and patented (De Forest refused to use the term "valve" because he wanted to disassociate his invention from the Fleming valve.)

For the next few years, sales of the Audion tubes were poor because the performance was so erratic. Some tubes worked and others didn't. This was because De Forest was convinced that positive ions in the tube did the conducting and to get the ions, the tubes had to be produced "gassy," that is, a very soft vacuum with various gases left in the tube.

It wasn't until 1913 when a student named Edwin Armstrong at Columbia University investigated the properties of the Audion and was the first person to understand how it worked. The current carrier was the electron and the tube needed a hard vacuum to operate properly. Armstrong went on to invent the regenerative receiver and the rf oscillator using the De Forest Audion. Of course, De Forest claimed that he knew all of that and challenged Armstrong's patents in court. Eventually, De Forest won in what is now seen as a travesty of justice.

Besides the triode vacuum tube, the only notable invention that De Forest made in the rest of his life was with regard to recording voice on movie film but it was never adopted by the big movie studios.

In 1950 his autobiography, "Father of Radio" was released but it sold poorly because it was so blatantly self-promoting. He then convinced his fourth wife to write a book titled "I Married a Genius" but it never was completed. It was important to De Forest that the world know how great he was.

I recall in 1956 being mesmerized by the Ralph Edwards TV show called "This is Your Life" that featured Lee De Forest, the self-proclaimed "Father of Radio." It was many years later that I learned that De Forest had staged the whole show and paid Ralph Edwards to run it. In 1958, De Forest suffered a serious heart attack and he died on June 30, 1961. The total estate of this rich and famous genius was \$1250. So now you know!

# No Reason To Feel Intimidated Taking Your First Amateur Radio License Exam

**Matt Robb, KD2OTG**

**Found on eHamnet.com**

It was five minutes to noon and cold rain fell hard against a troop of girl scouts as they ran with poster-board projects from the door of the Hopewell Branch public library to their parents' idling cars.

I spent two months preparing for my Technician exam and set my eyes to attend the closest license session, a twenty-minute drive from my home that was sponsored by the Delaware Valley Radio Association (DVRA). By the time exam day arrived I had taken several online practice tests and passed most with a comfortable margin, missing only two or three questions on each attempt. I've got this, I thought.



Once inside the library meeting room, three welcoming gentlemen from the DVRA sat at a table in front. I took an available seat at a folding table and was surprised to see I was one of about fourteen people in attendance. I had expected three. The exam-takers were like me, mostly men in their thirties and forties, but there were two women and two high-school aged young men as well. With fourteen people in attendance, clearly amateur radio isn't a dying hobby.

The room sat quiet for ten minutes until the first exam-taker, one of the high-school aged men, brought up his exam. The VEC sprung into action and each began the grading process. Another man then brought up his exam. Then another.

The noise level in the room grew a bit as the VEC spoke quietly grading the exam, calling out names

and giving a "thumbs up" sign indicating to those that they passed. At this point I was only about 2/3rds of the way through the exam.

It was at this moment I felt like I was back in grade school. My heart raced a bit as I envisioned myself being the last person to complete his exam. This is silly, I thought. So what if I'm the last person to complete the exam. I want to pass. I sat back in my chair, took a deep breath, then finished the questions at a leisurely pace. Don't let the noise level rattle you, I thought. You know the content well!

I spent another five minutes re-visiting each question and I changed my answer to only one. Surprisingly, it was a question that I had never encountered during any of the practice exams but felt eerily familiar as if it was likely the inverse of another question with which I was familiar.

I waited five minutes until my name was called and I was flashed a thumbs-up sign. Phew! A few minutes later I was called up to the table and asked to sign my examination form, then handed the top-sheet of a three-sheet carbon copy stack. I quietly collected my pencils, pushed in my chair, and left the room. Twelve calendar days passed while I patiently checked the FCC Universal Licensing System page for validation of my callsign record.

On November 30, I was officially assigned the call

Continued on page 7



**GARDEN STATE**  
AMATEUR RADIO ASSOCIATION



# HAMFEST

**Saturday September 22, 2018**  
**8 a.m. to 12 p.m.**

MOESC Parking Lot  
100 Tornillo Way (off Shafto Road)  
Tinton Falls, NJ 07712

## **ADMISSION:**

**VENDORS 7 a.m.**

**\$5 admission fee**

**first parking space FREE with admission**  
**\$10.00 each additional space**

**BUYERS 8 a.m.**

**\$5.00 admission fee per person**



- VE session starts at 11:00AM
- QSL card checking
- Entertainment
- Food and hot and cold beverages
- 50/50s and door prizes
- Demonstrations
- Talk-in—W2GSA REPEATER: 147.045 + PL 67

## **For Additional Information and Pre-Registration:**

Art Olson N2AJ0 848-459-5590

Denis Commette K2NPT 732-740-3057

Email to: [HAMFEST@GardenStateARA.Org](mailto:HAMFEST@GardenStateARA.Org)  
[http:// www.gsara.club](http://www.gsara.club)



# FROM THE WEBMASTER

## Cy Stanway, K2CYS

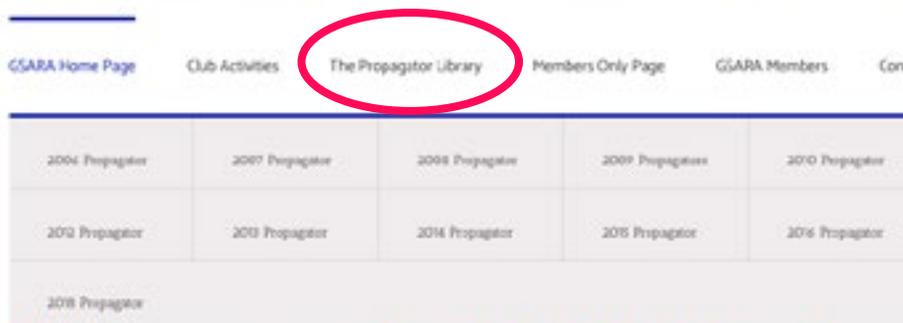
The club website at [www.gsara.org](http://www.gsara.org) is always evolving and, hopefully, getting better. Online are all the minutes from past meetings beginning from several months ago, all the most recent news, pictures, and so forth. As well, past issues of the Propagator have been residing on the website, as well.

The problem with the past issues page of the Propagator on the website is that all of the .PDFs were loaded on one page. This caused a huge problem since it would take so long to load them all and, of course, the RAM in most people's computers simply could not hold all the data.

This problem has been fixed.

When you go to the Propagator Library link on the club website (which is on the home page right under the main banner at the top) - see graphic below - and hover your mouse over it, you will see a list of all the past Propagators listed by year. This means that, at most, 12 issues will load at a time. The PDFs can read online but cannot be downloaded (sorry about that). This will make searching for the year you want so much easier and it should cause no more problems with eating up memory in your computer.

Thanks to Chris for pointing this out!



(Continued from page 5)

KD2OTG. I am now a licensed amateur radio operator!



## KH1/KH7Z

The KH1/KH7Z Baker Island DXpedition team is on its way to Baker Island.

The enthusiasm level was high, as the KH1/KH7Z team departed Pago Pago, American Samoa, on June 20 aboard the Nai'a, en route to Baker Island. The DXpedition is scheduled to fire up around 0000 UTC on June 28, with eight operating positions active on all open bands. The team will be on the air around the clock -- and on 20 meters continuously -- for the following 10 days. The KH1/KH7Z team consists of 14 operators.

The KH1/KH7Z DXpedition has pledged to adjust to the propagation at hand.

# Moments from the Meetings

Photos by Harry Zuzuro



Urb Lejeune, W1UL, and the program "Ham Cram".



Bob and Chris smiling about something!



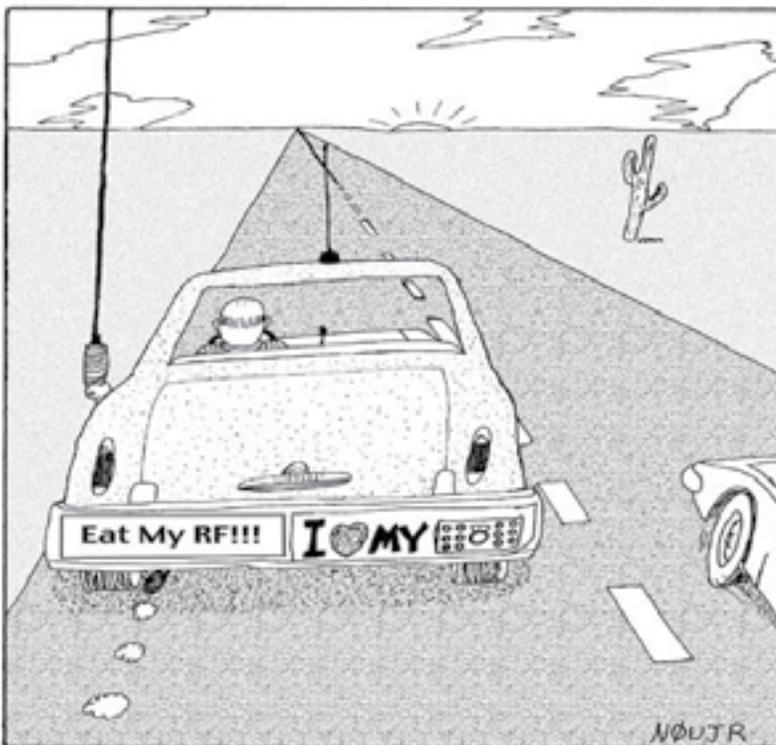
Howard, W2HTS, our president listening intently



Rem, K2REM, answering a question



Meeting with friends before the club meeting begins. Everyone is invited to come and shmooze at 7 pm on all meeting nights before the main meeting. Share ideas and adventures in ham radio. New to the area? Want to join the club? You will be warmly welcomed and you will find a great group of men and women united by their enthusiasm for ham radio.



QCWA members with an attitude...

**Haven't been to a meeting lately?  
You are invited!  
You do not need to be a member of the club to join us (but we hope you become a member!)**

# FIELD DAY PHOTOS!



Joe, W2KQ, makes the CW contacts as Hunter records them on the PC.



Tom Foster, a visiting Middletown PD officer



Andy, KA2VXA at Field Day

**THANK HARRY, KD2EJW AND CHRIS, W2NQB FOR THE TERRIFIC PICTURES!**



ARRL reps Mike, N2YBB and Rob, KA2PBT pay a visit.

It was a fun ARRL Field Day with good participation and good attendance all around. The VE session before Field Day welcomed a couple of new hams to our community. Congratulations to all who participated in the non-contest contest!

Although not official, it appears that GSARA's score was 1284.



Alan, W2NIR, searches for final contacts as Diana, KD2NAD, prepares to take over the station.



Shannon making SSB QSOs for hours and hours



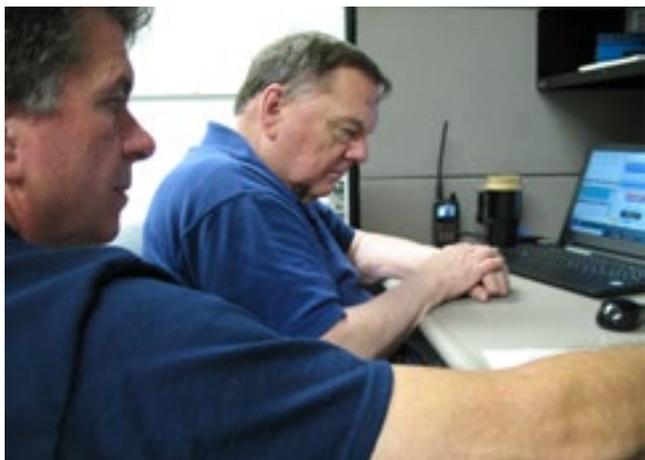
Don and Joe racking up the CW points



Joe showing us some of his SSB chops



Mike, K1MH, checks out the CW station.



Mike and Howard making QSOs!



Congratulations to Shannon who passed the VE exam. A callsign is expected soon.

# FOR SALE

I have a CDR TR-44 antenna rotor and control box. I just disassembled and regreased the bearing in the rotor - interior is in excellent shape. The controller needs a new capacitor (cap is switched in during rotation and is used to get the motor to spin -- motor seems OK but not turning so I think it is the cap, very common failure mode). I will ask \$125 on eham but will sell to a club member for \$85 (good price I think)

I also have an Ameritron AL-811 HF linear amplifier that I bought years ago but have used for at most 1 hour. It's practically new (and has the 10 meter mod so it works on 10m). I also have 2 spare 811 tubes that will go with the amp. Asking on eham will be \$550, will sell to club member for \$475.



If interested, contact:  
Joe Levantino, KB2FSH  
732-890-4949

[jlevantino@gmail.com](mailto:jlevantino@gmail.com)

## KA2F HAS MOVED

Our own John King, KA2F has moved to Brick, NJ so has a new address and phone number (his e-mail address remains the same). Please update your roster to show:

**John King, KA2F**  
1582 Elm St.  
Brick, NJ 08724  
732-206-6692 (home)  
732-778-4659 (cell)  
[ka2fwb2hdj@gmail.com](mailto:ka2fwb2hdj@gmail.com)



Welcome to your new home, John!

## W2FLK DONATION

A big THANK YOU to Jay Berkowitz, W2FLK for his generous donation of a Swan triband antenna to GSARA. It is much appreciated!



## FALL HAMFEST SEPTEMBER 22, 2018



Mark your calendar now to reserve time to attend (and possibly work at) the GSARA Hamfest which will be held on Saturday, September 22 at our usual location in the MOESC parking lot about a mile north of the Red Cross. Take a look on page 6 and you can see the flyer with all the information.

## WELCOME GREG, KD2PYO

Please welcome Greg Lyp, KD2PYO to GSARA. Greg just passed his Technician exam and is not yet on the air but he has joined ARRL. He is a Dockman by trade. Please add to your roster:

Greg Lyp, KD2PYO  
4 Krueyer Pl.  
Middletown, NJ 07748  
732-865-4272

[greglyp@gmail.com](mailto:greglyp@gmail.com)

A warm welcome to Greg!



## TUESDAY NET REPORT

GSARA members meet on the Asbury Park repeater every Tuesday at 8:30 pm.

This friendly round-table is a good way to hi to your

GSARA friends, meet some of the new men and women who are checking in and let everyone know your latest ham radio adventure. Everyone is most welcome to check in. You do not need to be a member of the club at all. Drop by!



In the 4 sessions in June we had 49 check-ins for an average of 12.25 per session. The following 22 members checked into this net (number of check-ins in parenthesis):

K2CYS (4), N2HGI (4), W2OD (4), WB2RPW (4), N2JFL (3), N2MEP (3), W2MJP (3), KG2CM (2), NF3E (2), KD2EJW (2), AD7I (2), WA2JOE (2), AC2MB (2), K2NPT (2), KD2OXR (2), KC2YNL (2), N2BMK (1), KD2EPA (1), KA2F (1), W2HTS (1), K2MFS (1), and W2NAZ (1).

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

# FROM THE ARCHIVES

## 5 YEARS AGO

From the July 2013 Propagator: Hudson Director Mike Lisenco, N2YBB was the guest speaker at the June 5 meeting. He talked about the restrictions of CC&Rs and the defense of our spectrum. Prior to his talk, he presented a 60-year ARRL member certificate to Bob, W2OD. We operated 2F from the Red Cross for Field Day.

## 10 YEARS AGO

From the July 2008 Propagator: Field Day will be at Dean Field at Fort Monmouth. We will operate K2USA with one transmitter (1A) and use the horizontal large loop antenna from Jim, K2EI. Nena Puryear, N2WAY is in the hospital in serious condition after having open heart surgery and her gall bladder removed.

## 15 YEARS AGO

From the July 2003 Propagator: Marty, WN2DX suggested that we have a table at each meeting for members to bring in items for sale or swap (or to just brag about). There were pictures of kids operating from the home of Ray, W2NXG (SK) on Kid's Day. The Monmouth County Local Interference Committee was formed to investigate interference to repeaters used for ARES, RACES and NTS nets. World Radiocommunication Conference 2003 is expected to eliminate the Morse code requirement for amateurs. Harold Jaffe, W2TQC became a silent key on May 23 at the age of 82.

## 20 YEARS AGO

From the July 1998 Propagator: John Chappell, W2TJY donated a Kenwood TS-440S/AT with power supply to GSARA. Field Day at Tatum Park was successful with about 50 GSARA members participating. Recent silent keys included Mike Karp, N2FM; Sam Rubenstein, W2BOK; and Barry Goldwater, K7UGA. The ten-year vanity fee is dropping from \$50 to \$13. Communications for the Big Brothers/Big Sisters Bike-a-thon were provided by about 15 GSARA members.



## 25 YEARS AGO

From the July 1993 Propagator: The first installment of the adventures of Bill Zeisler, W2DLP aboard the ketch "Sea Fever" in the Caribbean appeared. These would continue every month through 1994. The Brookdale Amateur Radio Club is installing an ATV repeater at Brookdale and is seeking donations. Novice class exams will be administered by VEC-accredited examiners. The fee is \$5.60 to take an exam.

## 30 YEARS AGO

From the July 1988 Propagator: Ken Proctor, N2DQD had a 5-page article about the extra line loss due to the SWR caused by mismatched loads. Voted in as new members were Dave Mutterer, N2IDF and Jim Goodnar, K5BIG.

## GSARA Officers

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732-460-1885

[w2hts@arrl.net](mailto:w2hts@arrl.net)

Vice Pres. K2REM, Rem Hunnewell  
732-889-6692

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## GSARA Swag 'n Such

### *GSARA Patches*

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

### *GSARA News*

Keep up with GSARA news at the GSARA website:

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

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

### *Blue Swan Diner Eyeball QSO!*

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





# Garden State Amateur Radio Association

Tinton Falls, New Jersey



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## Become a Member Today!



### MEMBERSHIP HAS ITS PRIVILEGES!

The GSARA has some great visions, including, but not limited to:

- Elmer Program
- Field Day
- Lighthouse Weekend
- Jamboree on the Air
- Youth Outreach
- Kit building events
- Saturday shack opening
- Hamfests
- Community event displays

### MEETINGS

The GSARA meets at 7:30 pm on the first and third Wednesdays of every month at the Red Cross on the corner of W. Park Avenue and Shafto Road in Tinton Falls, NJ. Guests are always welcome!

### REPEATER & NODES

The GSARA operates a VHF repeater on 147.045 +, PL=67.0 located near Asbury Park. GSARA also operates a packet node and BBS on 145.05 MHz as W2GSA-4. This is located on the UPS tower in Tinton Falls.

## About GSARA

The Garden State Amateur Radio Association, Inc. (GSARA) is a ham radio club dedicated to advance the art, science and enjoyment of amateur radio. We have a very diverse group with varied interests. Some of us are interested in operating, some like CW (Morse Code), some like SSB (voice), others like to build things or use digital modes including Fusion and Wires-X or communication via amateur satellites and some just like the technical aspects of the hobby. We meet twice a month to share a program, meet old and new friends, share our latest ham radio conquests or achievements or simply ask a question.

We welcome new members to our club and encourage their participation in club activities. It is through this participation that the club keeps in touch with the innovations affecting our hobby and how these changes can be adapted to improve the experience for our members. Supporting the club entitles you to use the radio shack on Saturdays (it is usually open), have a vote on the direction of the club and participate in all club events. Your membership helps the club maintain the radios, which include the repeater, purchase new equipment and maintain our radio room with up-to-date equipment.

Please join us and play a role in the ongoing communications revolution. It is the best \$15 you will ever spend! Please feel free to attend any meeting and meet the men and women of the GSARA!

### Find Us on Social Media:

GSARA on  
Twitter

GSARA on  
Facebook



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



## GSARA.CLUB W2GSA.ORG

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

## QSL BUREAU

If any GSARA members wish to combine their QSL cards that are going through the outgoing ARRL Bureau, please bring them to the next GSARA meeting along with the label from a recent QST Magazine (you must be an ARRL member to participate in this program). Either John, KA2F or Len, WA1PCY will then send them on to ARRL at no charge to GSARA members. It couldn't be much easier than that to QSL. You are registered at the W2 incoming bureau, aren't you?



## Calendar Notes

Large Call letters denote birthdays e.g. W2FLK July 1. All times are EDST. Contests are listed in the July QST, p. 83.

June 30-July 1 – RAC Canada Day Contest, Phone and CW from 8 pm Saturday to 7:59 pm Sunday. See <https://www.wp.rac.ca>

July 2 - Monmouth County ARES/RACES Net meets on 147.045 +600, PL=67.0 at 8:00 pm

July 3 – Old Barney VE Test Session at 6:30 pm in Manahawkin. Contact Urb Le Jeune, W1UL at 609-296-5856 or [urb@w2dec.com](mailto:urb@w2dec.com)

July 3 – Old Barney ARC Meeting at 7:30 pm in Manahawkin, NJ. See <http://www.obarc.org>

July 3 and every following Tuesday – GSARA Net on 147.045 PL=67 at 8:30 pm.

July 3 and every following Tuesday – QCWA News Net on 147.045 PL=67 at 9:00 pm.

July 4 – Holiday, No GSARA Meeting.

July 5 - HCARC Meeting 7 pm at Holiday City South Clubhouse in Toms River.

July 5- W1AW Qualifying Run at 10 pm (40-10 wpm). See July 2018 QST page 98 and [www.arrl.org/qualifying-run-schedule](http://www.arrl.org/qualifying-run-schedule)

July 6 and every Friday – Lunch at the Blue Swan Diner in Ocean at noon. Table at back left.

July 11– Holiday City VE Session at 7 pm in Toms River. Contact is Larry Puccio, K2QDY at 732-349-2950 or e-mail at [lpuccio1@comcast.net](mailto:lpuccio1@comcast.net)

July 12 – JSARS meeting in Riverwood Park Rec. Building, Rt. 527 and Riverwood Drive at 7:30 pm.

July 14 – OMARC Meeting at 9:00 am at the Firehouse on 600 Sixth Ave. in Spring Lake Heights. Guests are always welcome.

July 14-15 – IARU HF World Championship, Phone and CW from 8 am Saturday to 8 am Sunday. See <http://www.arrl.org/iaru-hf-championship>

July 16 - Monmouth County ARES/RACES Net meets on 147.045 +600, PL=67.0 at 8:00 pm

July 18 – GSARA Meeting at 7:30 pm at the Red Cross in Tinton Falls. Regular business meeting.

July 19 – 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](mailto:wa2nda@comcast.net).

July 20 – W1AW Qualifying Run at 7 pm (40-10 wpm). See July 2018 QST page 98 and <http://www.arrl.org/qualifying-run-schedule>

July 21-22 – North American QSO Party, RTTY from 2 pm Sat. to 1:59 am Sunday. See <http://www.ncjweb.com>

July 21-22 – CQ Worldwide VHF Contest, all modes on 2 and 6 meters from 2 pm Saturday to 5 pm Sunday. See <http://www.cqww-vhf.com>

July 28-29 – RSGB Islands on the Air Contest, Phone and CW from 8 am Saturday to 8 am Sunday. See <http://www.rsgbcc.org>

July 28 – GSARA VE Test Session at 11 am at the Red Cross in Tinton Falls. See page 1.

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1 Canada Day W2FLK	2 ARES/RACES 8 pm	3 Old Barney GSARA Net 8:30 QCWA News 9 PM	4 Holiday No GSARA Mtg	5 HCARC Mtg CW Qual. Run	6 KD2EJW Blue Swan lunch	
8	9	10 Old Barney GSARA Net 8:30 QCWA News 9 PM	11 Hol. City VE	12 JSARS Mtg	13 Blue Swan lunch	14 OMARC Mtg IARU HF
15 IARU HF	16 ARES/RACES 8 pm	17 Old Barney GSARA Net 8:30 QCWA News 9 PM	18 GSARA Mtg	19 K2KP JSARS VE	20 Blue Swan lunch CW Qual. Run	21 NA RTTY QSO CQ WW VHF
22 NA RTTY QSO CQ WW VHF	23	24 Old Barney GSARA Net 8:30 QCWA News 9 PM	25	26 AC2MV	27 KB2FSH Blue Swan lunch	28 RSGB IOTA GSARA VE
29 RSGB IOTA	30	31 Old Barney GSARA Net 8:30 QCWA News 9 PM				



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First Class