



# CrossTalk

Issue 62:09 62 Years Of Service To Our Community September 2021

## 2021 Club Officers

<b>President :</b>	<b>Anthony Starr, K3TS</b>	<b>Trustees - 4 year term</b>	
<b>Vice President :</b>	<b>Jeffrey Welsh, KD2AZI</b>	<b>Charles Lanard, KD2EIB</b>	<i>(2018-2021)</i>
<b>Treasurer :</b>	<b>Alan Arrison, KB2AYU</b>	<b>James Wright, N2GXJ</b>	<i>(2019-2022)</i>
<b>Recording Secretary :</b>	<b>Karl Frank, W2KBF</b>	<b>Mark Gottlieb, KK2L</b>	<i>(2020-2023)</i>
<b>Corresponding Secretary :</b>	<b>Ronald Block, NR2B</b>	<b>Robert Fields, KC6AOH</b>	<i>(2021-2024)</i>

### Board of Directors - 3 year term

<b>Jeffrey Garth, WB2ZBN</b>	<i>(2019-2021)</i>	<b>Herb Dyer, KT2Y</b>	<i>(2020-2022)</i>
<b>James Clark Sr, KA2OSV</b>	<i>(2021)</i>	<b>Charles Colabrese, WA2TML</b>	<i>(2021-2023)</i>
<b>Robert Durham, W2RAD</b>	<i>(2020-2022)</i>	<b>William Price, NJ2S</b>	<i>(2021-2023)</i>

### *This Month's Calendar*

**General Membership Meeting**  
Wednesday, September 1, 2021 @ 1930 Hours

**In-Person & ZOOM**  
**Pfeiffer Community Center**

**Tech Saturday Forum**  
Saturday, September 4, 2021 @ 0900 Hours  
**W2MMD Clubhouse**

**ARRL SNJ Section Convention & Hamfest**  
**Sunday, September 12, 2021**  
**Gloucester County 4-H Fairgrounds**

**Board of Directors Meeting**  
Wednesday, September 15, 2021 @ 1900 Hours  
**W2MMD Clubhouse**

**Monday Night 2 Meter Digital Training Net**  
Every Monday @ 1900 Hours

**Tuesday Night 10 Meter Rag Chew Net**  
Every Tuesday @ 2000 Hours - 28.465 MHz

**Tuesday Noon Day 2 Meter Rag Chew Net**  
Every Tuesday @ 1200 Hours

**Thursday Night 2 Meter Rag Chew Net**  
Every Thursday @ 2000 Hours

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# ARRL SNJ Section Convention and Hamfest

Presented By The



**Gloucester  
County  
Amateur Radio  
Club**  
W2MMD



Celebrating Our 62<sup>nd</sup> Year

[www.w2mmd.org](http://www.w2mmd.org)

Open to the public at 8 AM

## 43<sup>rd</sup> Annual Hamfest - September 12, 2021

**ADMISSION : \$10.00**

*Non-Ham Spouses and Kids FREE*

*Vendors and Tailgaters of new and used radio and electronic equipment*

*Gates open at 6:00 am for vendors and tailgaters*

*Tailgating rules (open grassy areas only) :*

- ♦ **\$10.00** per vehicle space, up to 10 feet
- ♦ No reserving or holding spaces for tailgaters not yet present
- ♦ First come, first serve

*Table rules (covered pavilions only) :*

- ♦ **\$12.00** per table (yours), or table space up to 8 feet
- ♦ Tailgating under pavilions will fall under "Table Rules" rates

**Some pavilion spaces have electric.  
Space price does not include admission.**

**ARRL VEC License Testing starting at 9:00 am**

- ♦ Exam Testing @ W2MMD Clubhouse
- ♦ Exam Fee : \$15.00
- ♦ All testing candidates are required to have an FRN (FCC Registration Number) and a valid e-mail address

**Talk-In Station :**

**147.180 MHz + PL 131.8 Hz**

**EchoLink : W2MMD-R**



**Food And Beverages Catered By  
Hog Day Afternoon BBQ & Catering**

[www.hogdaycatering.com](http://www.hogdaycatering.com)

**Door Prize Drawings  
Throughout The Day**

**Gloucester County 4-H Fairgrounds • [www.w2mmd.org](http://www.w2mmd.org)  
235 Bridgeton Pike (Route 77) • Mullica Hill, NJ 08062  
GPS : 39.715572°, -75.211944°**

**Contact : Sheldon Parker, K2MEN at [sheldonparker@comcast.net](mailto:sheldonparker@comcast.net)  
GCARC, PO Box 370, Pitman, NJ 08071**

Ver: 2021:0821



## *President's Message*



By the time you read this, the dog days of summer will be mostly behind us, and our annual hamfest will be just days away. I always look forward to September, because of the great weather, and the many enjoyable things to do outdoors, but I also know that the dark, cold winter days are just around the corner, so the need to finish up those final antenna projects is increasing with each passing day. Now is the time to get those projects done, not in late December or January. A little pre-planning goes a long way.

Speaking of our **2021 Hamfest**, last year we were one of the few clubs in the region who was able to pull off holding a hamfest in a "normal" fashion. A combination of timing, and a good operating plan, came together to help us succeed. We had a strict protocol in place for health and safety, and with great cooperation from all in attendance, everyone stayed safe but still managed to enjoy the day. Based on that experience, we are this year prepared to respond to any similar pandemic-related challenges that may arise on the weekend of the hamfest. And we will. At this point, a hurricane would pose more of a threat to the event than any public health issues.

Also, it is not too late for last minute volunteers to help out either on the day of the event, or the evening before. If you have some time to give, contact **Sheldon Parker, K2MEN**, and let him know that you are available. He may need you to replace someone who suddenly cannot make it due to illness or some other unexpected issue. We would always rather have too much help than be caught short-handed. We have one of the bigger hamfests in the region, and the better our turnout, the more help we will need, so please, if you have not signed up yet, try to free up a few hours for the Club on the morning of **September 12<sup>th</sup>**, or the evening before.

While I have your ears (or eyes!) about volunteering, the annual **MS City to Shore Ride** is coming up on **September 25-26<sup>th</sup>**, and they are desperately in need of volunteers to help out with that great charitable event. Contact **Herb Dyer, KT2Y**, if you have some time available that weekend and would like to help out. I am sure that it will be appreciated.

That's about all I have for now, but before I bid you 73, let me take this opportunity to welcome some new Club members : **Christopher Prioli, AD2CS**, of Pitman and **Carl Hale, KD2WTY**, of Williamstown. Chris is a new ham who completed all of his license testing requirements up to and including the Amateur Extra Class test, all in one day.

This stands in stark contrast to the 39 years and 10 months that your President took to get from his Novice Class exam to the Amateur Extra Class exam!

We have a lot of really smart people in GCARC, but it is always nice when we can add a few more.

Don't forget this month's **General Membership Meeting** will be on **September 1<sup>st</sup>** in **Williamstown**. This meeting will also be broadcast live via ZOOM. As always, I look forward to seeing all of you there.

**73! de K3TS**

## General Membership Meeting

Wednesday, September 1, 2021 @ 1930 Hours

Pfeiffer Community Center

The Meeting Will Also Be Broadcast Live Via ZOOM  
All members will be e-mailed the ZOOM log-in instructions

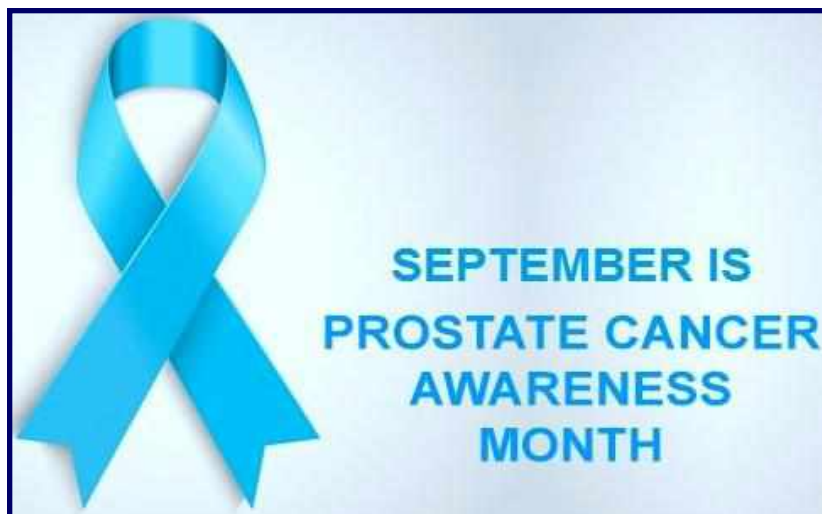
Program : Hamfest Pre-view Meeting

### Welcome New Club Members :

**Christopher Prioli, AD2CS**, who has an Amateur Extra Class license and lives in Pitman, NJ.

**Carl Hale, KD2WTY**, who has a Technician Class license and lives in Williamstown, NJ.

We are glad to have you as members of the Club and hope to see you regularly at Club meetings, events, and activities. We hope to hear you on the Tuesday night 10M Rag Chew Net. Also on the Monday Night Digital Training Net, the Tuesday Noon Day and Thursday Night 2M Rag Chew Nets on our 2M Repeater or Echo-Link node : W2MMD-R.



[w2mmd.org](http://w2mmd.org)



[www.facebook.com/W2MMD](http://www.facebook.com/W2MMD)



[twitter.com/w2mmd\\_gcarc](https://twitter.com/w2mmd_gcarc)

Facebook





## **Tech Saturday Forum September 4, 2021 @ 0900 Hours W2MMD Clubhouse**

### **Q&A Open Session and Socializing**

We would like to invite all of our new members as well as our veteran members to our Tech Saturday Forums to help answer any questions and discuss any and all issues the new members have come across as they progress through the *Amateur Radio Experience*.

The Discussion Theme is a QSO starting point - a way to initiate a conversation. All Tech Saturdays are an open QSO of all subjects of Amateur Radio interest.

All questions are welcome as well as a venue for hams to show off their latest ham radio projects or gadgets. Have a problem programming that HT, we can help! Not sure what radio or antenna to buy, we can help!

All Club Members who would like Clubhouse access to use its radio equipment would have to have some brief "Elmering" on the Clubhouse rules, such as using the alarm system, the A/C and heaters, the antenna system, and the radio equipment.

All are welcome - Hams and Non-Hams - Club Members and Non-Club Members. Take a guided tour of our Clubhouse. Visit our HF and VHF/UHF/Satellite Operation Facilities and our vast antenna farm.

**Tuesday Noon Day 2M Rag Chew Net @ 1200 Hours**  
**Net Control Hosts : Steve, W2SEF & Greg, W5DO**  
**147.180 MHz Repeater & EchoLink - W2MMD-R**  
If you would like to be a control operator for this net, please contact Steve, W2SEF

**Tuesday Night 10M Rag Chew Net @ 2000 Hours**  
**Net Control Host : Jim, KA2OSV**  
**28.465 MHz or 28.475 MHz**

### **Club Elmers**

We are still looking for some more Club Elmers. If you would to add your name to the Elmer's List, send your specialty to [w2mmdgcarc@gmail.com](mailto:w2mmdgcarc@gmail.com). Here is what we have so far :

- **Tony Starr, K3TS : Antenna construction, contesting, and CW**
- **Ken Bozarth, KN2U : Antennas**
- **Jeff Welsh, KD2AZI : Boat anchor repair and operation, Raspberry Pi, Arduino, Python, POTA, Mobile Installation & Operating**
- **Karl Frank, W2KBF : Digital Messaging (FLDIGI, WinLink)**
- **Herb Dyer, KT2Y : DMR radios and programming**
- **Ron Block, NR2B : Lightning protection and grounding**

## DA's and DIT's

>>**Gary Reed, N2QEE**, reports : There will be a VE session at the September 12, 2021 Hamfest. It will be held at the W2MMD Clubhouse at 9 AM. All candidates are required to have a FCC Registration Number (FRN) and a valid email address since this will be how the FCC corresponds to the license holders. Please go to <https://www.fcc.gov/wireless/support/universal-licensing-system-uls-resources/getting-fcc-registration-number-frn> for information on how to register with the FCC.

The FCC \$35 fee will not be in effect until sometime in 2022, so candidates at this session are exempt from the fee.

The VE group still hasn't obtained a venue for the monthly testing.

The **South Jersey Radio Association** has resumed testing at the New Brooklyn United Methodist Church, 1336 East Malaga Road, Williamstown, NJ at 7 PM on third Wednesday of the month.

>>**Darrin Malone, KD2ALQ**, reports : Technician license classes will be in October and November. Probably Tuesday and Thursday nights 7pm to 9pm with review/test on Saturday morning in November. Looking to run about 4 or 5 weeks. Putting classes together now. Classes will be at the Vineland OEM building. Darrin can be e-mailed at : [dbugsy66@comcast.net](mailto:dbugsy66@comcast.net).

>>Congratulations to **Marc Federici, WM2Y (ex. KC2VAR)** for his new vanity callsign.

>>Condolences to the family and friends of **James Akehurst, W3ZKY**. Jim was the founder and primary net control operator of the Retired Group Net which met on 28.435 MHz each day at 1300 Hours. He will be surely missed by many.



**Need a ride to a Club meeting, event, or activity?**

**Just send a message to the Club's e-mail reflector asking if a member can pick you up**

**GCARC <at> MAILMAN <dot> QTH <dot> NET**

**All Club members have access to this FREE e-mail service**

**Digital Training Net**  
**147.180 MHz Repeater & EchoLink : W2MMD-R**  
**Every Monday @ 1900 Hours**

**WinLink® Training**

**WinLink Information Resources**

WinLink Website : <https://WinLink.org>

Installing WinLink And Creating Your Account - A Quick Start Guide YouTube Video :  
<https://youtu.be/qSLghO6RgFU>

Quick Setup Guide For VARA FM PDF : [https://WinLink.org/sites/default/files/RMSE\\_FORMS/vara\\_fm\\_for\\_WinLink\\_with\\_signalink\\_on\\_windows\\_v4\\_0.pdf](https://WinLink.org/sites/default/files/RMSE_FORMS/vara_fm_for_WinLink_with_signalink_on_windows_v4_0.pdf)

VARA FM Software Download Website : <https://rosmodem.wordpress.com>

Bob KD2NEC suggests viewing K4REF videos on YouTube for information about WinLink :  
<https://www.youtube.com/user/K4REF/videos>

Wednesday Weekly WinLink Exercise - Southern New Jersey Section EmComm Forum  
<https://arrlsouthernnewjerseysection.boardhost.com/index.php>



**Thursday Night 2 Meter Rag Chew Net**  
**147.180 MHz Repeater**  
**EchoLink : W2MMD-R**  
**Every Thursday @ 2000 Hours**



This net has an alternating net control operator  
Here is the schedule for the upcoming weeks

**Gary Mirkin, WA3SVW : September 2, 2021**  
**Jeff Garth, WB2ZBN : September 9, 2021**  
**Greg Ciraula, W5DO : September 16, 2021**  
**Mary Delemarre, W2TDS : September 23, 2021**  
**Steve Farney, W2SEF : September 30, 2021**  
**Gary Mirkin, WA3SVW : October 7, 2021**  
**Jeff Garth, WB2ZBN : October 14, 2021**  
**Greg Ciraula, W5DO : October 21, 2021**  
**Mary Delemarre, W2TDS : October 28, 2021**  
**Steve Farney, W2SEF : November 4, 2021**

If anyone would like to be a net control operator, please notify Jeff WB2ZBN

## Regional (Atlantic & Hudson Divisions) Hamfests & Events

**September 11, 2021** : Lancaster Amateur Radio Club, Lancaster Hamfest, Transit Drive-in, 6655 South Transit Road, Lockport, NY. [www.w2so.org](http://www.w2so.org)

**September 11, 2021** : Pioneer Radio Operator's Society Hamfest, Manion Park, 9999 Grove Street, Chaf-fee, NY. [www.facebook.com/pioneerradiooperatorsociety.pros](https://www.facebook.com/pioneerradiooperatorsociety.pros)

**September 12, 2021** : Butler County Amateur Radio Association, BCARA Swapfest 2021, Unionville Volunteer Fire Company, 102 Mahood Road, Butler, PA. [www.w3udx.org](http://www.w3udx.org)

**September 12, 2021** : Orange County Amateur Radio Club Hamfest, Wallkill Community Center, 2 West Warren Drive, Middletown, NY. [www.ocarcny.org](http://www.ocarcny.org)

**September 12, 2021** : Saratoga County Amateur Radio Association Hamfest, Saratoga County Fairgrounds, 162 Prospect Street, Ballston Spa, NY. [www.k2dll.org](http://www.k2dll.org)

**September 17-18, 2021** : Delaware Valley Historic Radio Club, Kutztown Antique Radio Meet & Auction, Renningers Kutztown, 740 Noble Street, Kutztown, PA. [www.dvhrc.com](http://www.dvhrc.com)

**September 18, 2021** : Ocean Monmouth Amateur Radio Club Hamfest, Spring Lake Heights Volunteer Fire Company Number One, 700 Sixth Avenue, Spring Lake, NJ. [www.n2mo.org](http://www.n2mo.org)

**September 25, 2021** : Amateur Radio Association Of The Southern Tier, 46th Annual Elmira International Hamfest and Computerfest, Chemung County Fairgrounds, Grand Central Avenue, Horseheads, NY. [www.arast.info](http://www.arast.info)

**September 25, 2021** : Antietam Radio Association, Hagerstown Tailgate Fest, Maugansville Bible Bre-theren Church, 17904 Binkley Avenue, Maugansville, MD. [www.w3cwc.org](http://www.w3cwc.org)

**September 25, 2021** : St. Mary's County Amateur Radio Association, 8th Annual SMCARA Tailgate Fest, Hollywood Fire Department, 24801 MD-235, Hollywood, MD. [www.k3hki.org](http://www.k3hki.org)

**September 25, 2021** : Garden State Amateur Radio Association Hamfest, MOESC parking lot. 100 Tornillo Way, Tinton Falls, NJ. [www.gsara.club](http://www.gsara.club)

**September 26, 2021** : Eastern Pennsylvania Amateur Radio Association, Hamfest 2021, American Legion Post 346, 126 East 5th Street, East Stroudsburg, PA. [www.qsl.net/n3is](http://www.qsl.net/n3is)



## New Jersey QSO Party

Sponsored by  
Burlington County Radio Club  
K2TD



Saturday, September 18, 2021  
1200 to 2359 EDST (1600 to 0359 UTC)  
[www.k2td-bcrc.org/njqp/njqp\\_rules.html](http://www.k2td-bcrc.org/njqp/njqp_rules.html)



## Amateur Radio Demonstration - September 21, 2021

By Karl Frank, W2KBF

As **Bob Keogh, KD2NEC**, announced on the Sunday, July 25, 2021 ARES/RACES Net, he is planning a demonstration of Amateur Radio at the East Greenwich CERT Meeting on Tuesday, September 21, 2021 around 1915 Hours. He is looking for contacts via the W2MMD 2 Meter Repeater and EchoLink W2MMD-R during his demonstration. So pencil in this date.



## Remote HF Station: KPA1500 Amplifier Now Available!

By John Hill, W2HUV

It was announced that the Remote HF Station was ready for prime time two years ago on 7/19/2019. An Elecraft KPA1500 Solid State Amplifier has since been added to the station. The station now consists of an ICOM IC-7300 transceiver, KPA1500 amplifier, 54' crank-up tower with a 12/17 meter beam, a 10/15/20 meter beam, a 40 meter beam, a common rotator and an inverted-V for 80 meters. Free software available from RemoteHams.com is used for remote control. The RCForb Server is used at the Remote station (W2MMD-HF) and the RCForb Client is used at the Control station (your Windows laptop or PC).

Help topics are provided under "Remote HF Station" on the GCARC website. The help topics have been thoroughly reviewed and revised to reflect addition of the amplifier and other changes that have occurred, such as rotator replacement. Prospective users are encouraged to read "Getting Started" and install the RCForb client as directed. That includes sending an email to [w2huv@arrl.net](mailto:w2huv@arrl.net) requesting addition to the Authorized User list. The topic now includes "Amplifier Operation" and "Phone Operation" sections, which are crucial to a basic understanding of station operation.

Prospective amplifier users are required to attend training in small groups at the W2MMD Clubhouse on Tech Saturdays or by appointment.

Enjoy!



September 2, 1945

## 2021 Clubhouse Projects

### Shed :

- Paint Siding
- Install Electrical Wiring
- Install Lights
- Build Ramp
- Secure Roof

### Painting :

- Front Steps
- Back Steps
- Power Pole
- Club Sign

### Front Flood Lights :

- Replace Left Flood Light
- Adjust Light Position Direction

### Back Steps :

- Spray Mold
- Power Wash
- Paint

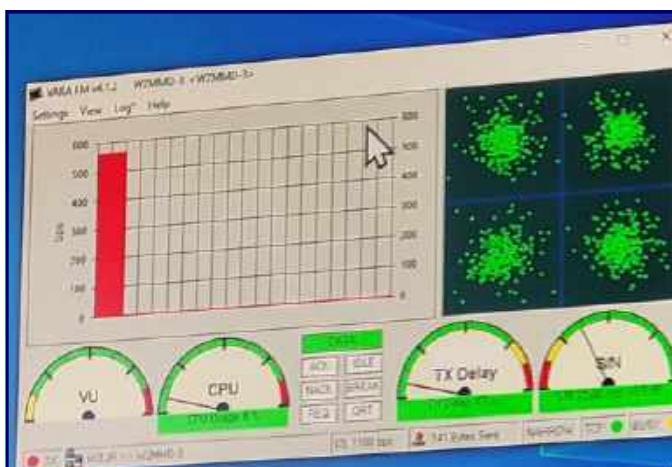
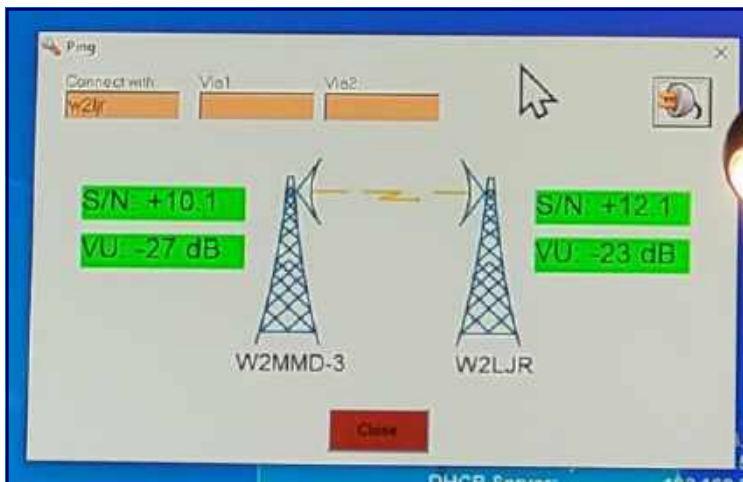
### Replace Front Door & Screen Door

### Power Wash Back Steps

We have a 5 gallon bucket of white paint in the Clubhouse. I have a power washer at home that I can bring to the Clubhouse for someone to use. For more information about these projects, please contact Jeff WB2ZBN.

Installation of a dual band antenna on the VHF tower for WinLink and APRS

Enabling e-mail to be sent over radio



Photos provided by Jim Wright, N2GXJ





## August QSO Today Virtual Hamfest

By Mary Delemarre, W2TDS



For \$10 I attended the virtual QSO Today Hamfest at <https://gsotoday.vfairs.com> on August 14 & 15, 2021. It was money well spent. Plus, for the next month I have access to all of the session recordings. I am a new ham so what interested me will not interest a seasoned veteran of 30 + years. I have my Technicians license, and I have started studying to get my General. I have a Yaesu 857D radio that I use occasionally on 2M. My radio is capable of far more, but I need other antennas for that. Sadly, my elmer has passed away, so I am figuring things out by research and asking the occasional question on the 2M Rag Chew Nets. So when I saw for \$10 I could learn about antennas and what to do with my Technician license other than listen to repeaters, I was all in.

I was curious about contesting so I attended **Contesting, The Second Step, by Gary Sutcliffe W9XT**. Two things I learned was to get a very comfortable chair and to have good logging software that you are familiar with. It is not recommended to use your logging software for the first time during a contest. He recommended the chairs gamers use since they are designed to be comfortable for gamers to sit in for many hours. I currently use a paper log, but want to switch to an electronic log. So next up was listening to a session on **Amateur Radio Logging Software by Anthony Luscre K8ZT**. He also has a website that is packed full of information at <http://www.k8zt.com>. He recommended listening/reading reviews of various logging programs on YouTube and at <http://www.eham.net>. Most of the logging programs are windows based, but one or two run on a Mac. My old MacAir now can run Windows 10 so I can experiment with digital modes. When I get some free time I plan on trying out a few of the logging programs. I first need to do some research to down-select from the dozen or so I learned about.

My favorite session was **Technician Licensees, Life Beyond Local Repeaters by Anthony Luscre K8ZT**. It talked about a bunch of topics that were interesting to a newbie like me - try something besides repeaters. Try simplex, contesting, fox hunting, satellites, digital mode, and EchoLink. Well I have tried EchoLink?? Try different bands such as 6M, where technicians have full privileges (all modes and frequencies) for the entire band. He also discussed antennas. I will need to read up a lot more on antennas. I have a lot to learn. The full presentation materials are at <http://tiny.cc/qte-bt>.

The last presentation I watched was the **Youth In Ham Radio by Carole Perry WB2MGP**. The kids selected were amazing. They have passed their General and Amateur Extra licenses and they weren't even in High School yet! They participate in field day, do morse code, etc. usually as part of a school club.

I highly recommend attending the virtual hamfest - for \$10 - it is a bargain. I love to learn new things and I learned a lot and have notes and links that will keep me busy learning for the foreseeable future.



Monday, September 6, 2021

# WHY YOUR FIRST HF ANTENNA SHOULD BE A 40M INVERTED VEE DIPOLE

By Tony Starr, K3TS

## Part One

If you read any of the popular ham radio forums, particularly the "Ask an Elmer" type of forums, one of the most common questions you will find from new hams or those who are just new to HF, is "what should I put up for my first HF antenna?" You will see many answers to this question, many of them very different in perspective, and very few of them will be entirely wrong or at least, lacking in merit. The fact is that there are many choices of antennas that will work for a new HF operator, and each choice will have its positive and negative attributes. As one who likes to experiment with antennas, I would be inclined to say, "Put up as many different antennas as you can, and try them all." This, however, evades the original question quite effectively.

While every ham's situation is different, based on budget, available space, and the amount of physical effort required for various antennas, if I were forced to suggest one antenna for the HF beginner, that choice would be fairly easy for me to make. I believe that the first antenna that every new HF operator should put up is a coax-fed dipole for 40 meters, preferably in the inverted vee configuration, and I am prepared to back this up with cold, hard facts. Let's look at some of those facts now:

**Fact #1** - Forty meters is without question, the very best HF band for the beginner to start out on. It is effectively open to "somewhere" just about 24 hours a day, regardless of where we are in the sunspot cycle. This is an extremely important fact. If I were to tell a beginner that the best band for DX is the TWENTY METER band, I would not be lying. But if we were in the null of the solar cycle, and that operator only had time to operate in the evenings, he or she might be very disappointed in hearing little to no activity, let alone good DX, night after night. But 40, on the other hand, will always have activity, and the DX will change with the seasons, keeping the interest of the new operator from the start.

**Fact #2** - A Forty meter dipole, properly cut, will have adequate VSWR bandwidth to cover pretty much the entire band. This means a lot. There is no dipole which can cover all of 80 meters, so an operator has to choose which portion of that band he or she wants to operate in, and then cut the antenna for that set of frequencies. But how can you know where in the band you want to operate if you have no experience on that band? On 40, you can cut a dipole for 7.150 and work the whole band, no problem. Domestic SSB above 7.200, DX SSB around 7.150, and CW and digital below 7.125, no problem, all with one antenna cut for the center of the band. I guarantee that you cannot do that on 80 meters. Trust me.

**Fact #3** - Low band antennas tend to be big, but a 40 meter dipole can be made to fit in some fairly small spaces. A 40m dipole is about 66 feet long, but if you elevate the feed point to 35-40 feet, and then bring the ends down to about 15-20 feet above the ground, that dipole will fit across the width of a 50 foot wide lot. You may have to pull the ends one way or the other, but it will take up a fairly small space. And it will work really well, with a near perfect 50 ohm feed point impedance at resonance. You may be surprised at how easily you can make a 40 meter dipole fit on a small lot.

*K3TS - Your First HF Antenna - Continued on page 13*

**Fact #4** - You can add a set of wires for another band, either 20m or 80m, without any problems. I have done this at home, and out on a Field Day site, without issues. As long as you set the wires so that they are at right angles to each other, there will be little or no interaction between the bands, so no additional cutting or tuning will be needed. This is an easy way to add a band without putting up a second antenna or buying another balun or more feedline. Try it, it works!

**Fact #5** - A 40 meter dipole will work just fine on 15 meters. While 15m may not be hopping with activity now, as the solar cycle improves, it will only get better. Back in my Novice days, I felt like the King of DX working 15 meters in the afternoon when I got home from school. What was I using for an antenna? A 40 meter dipole, of course. And you can too. With two pairs of wires to cover 40 and 20, you will have a three-band antenna! This was my standard antenna for Field Day, back when I used to operate class 1B solo. And by using coaxial feed with a balun, you are unlikely to suffer the effects of common-mode currents, so long as you use a current-type or choke balun.

So why not give the 40 meter inverted vee dipole a try? You can buy one ready-made, or get some wire and insulators and cut one yourself. Either way, you will be on your way to making good contacts on HF. And working some great DX, too. And then, if you are still curious, go ahead and try out an end-fed, or a vertical, or whatever your heart pleases, but I promise, you will always measure those antennas against the dipole. There is a good reason why the dipole is the standard against which all other antennas are measured!

Next month I will expand on the idea behind this article and attempt to answer the question of, "Why not?", and I will offer some construction tips for putting up a good dipole.

**73 and Good DX!**  
**de K3TS**



**Route 66 On The Air Special Event**  
**September 11 - 19, 2021**  
[www.w6jbt.org](http://www.w6jbt.org)



## Russian Woodpecker Antenna Array Now a Cultural Heritage Site

The massive Duga-1 antenna array that transmitted the obnoxious and infuriating "Russian Woodpecker" HF signal from the 1970s until the late 1980s is now a cultural heritage site. The array, located near Chernobyl in Ukraine, was part of an over-the-horizon radar (OTH-R) system designed to detect and offer early warning of incoming ballistic missiles from the US. A complementary receiver site was located some 40 miles away. While the system was operating, its broad rat-a-tat signal, typically at a 10 Hz rate, caused severe interference in the amateur bands. The Chernobyl nuclear power plant disaster and the end of the Cold War preceded the end of the system and the interference it caused. NATO military intelligence discovered and photographed the structure, which it dubbed "Steel Yard."



Nearly 2,300 feet long and more than 450 feet tall, the steel beams of the radar array are in the Chernobyl exclusion zone tower above the surrounding forest. Seen from a distance, it appears to be a massive wall or the start of a cage. As Vice recently **reported** (<https://www.vice.com/en/article/88nagx/a-missile-radar-in-the-chnobyl-exclusion-zone-is-now-a-protected-heritage-site>), the Association of Chernobyl Tour Operators was the first to announce that Ukraine had made Duga-1 a protected heritage site. The Russian Interfax news service later reported the official designation.

"Our heritage is not only the area around the power plant but also the buildings located on its territory," Oleksandr Tkachenko, Ukraine's Minister of Culture and Information Policy, said in a Telegram thread about the announcement. "So now we are working on identifying other objects that should be part of the list of monuments. Our goal is to prevent destruction when possible."



A Duga array seen from a distance. [Ingmar Runge photo]

The Soviet Union deployed two similar OTH-R installations - known as Duga-1 and Duga-2 - the one near Chernobyl and another in eastern Siberia. Transmitter power levels were rumored to be in the 10-megawatt EIRP range.

Duga-1 was the focus of a 2015 documentary, *The Russian Woodpecker*, by Chad Gracia. The film includes interviews with Duga Commander Vladimir Musiets and others involved in building and operating the OTH-R system. The production was a 2015 Sundance Film Festival winner in the documentary category. In recent years, the Duga-1 radar has also played a role in other films, as well as in various video games and novels.

*Article Credit : The ARRL Letter for July 1, 2021 - [www.arrl.org](http://www.arrl.org)*



## WISA Woodsat Successfully Completes Stratospheric Test Flight

The world's first wooden CubeSat successfully completed a test flight into the stratosphere earlier this month. **WISA Woodsat** (<https://www.wisaplywood.com/wisawoodsat>) is constructed using birch plywood panels in a 1U configuration measuring 10 centimeters squared.

Nine small solar cells will power the satellite, which will orbit at an altitude of 500 - 550 kilometers. The novel spacecraft will carry several amateur radio experiments, as well as photo downlinking, including selfies. A goal of the project is to determine how well wood products will perform in space.

During the recent test, a functional model of the WISA Woodsat climbed 19 miles into the sky tethered to a weather balloon. The satellite's camera captured a selfie video of the balloon bursting.

A parachute deployed to take the nanosatellite back to Earth, where it was recovered intact, lodged in a spruce tree.

The test satellite and a duplicate "spare" version, were manufactured at UPM Plywood's Savonlinna, Finland, factory. The company sells its construction-grade panels under the WISA trademark. The panels were thermo-vacuum dried and processed on a CNC machining center.

The wooden satellite is based on a basic, versatile CubeSat format, Kitsat, which is designed with educational use in mind.

As the sponsor quipped, "WISA Woodsat will go where no wood has gone before. With a mission to gather data on the behavior and durability of plywood over an extended period in the harsh temperatures, vacuum, and radiation of space in order to assess the use of wood materials in space structures."

Once in orbit, Woodsat will be able to extend its selfie stick to capture photographs of the wooden box as it hurtles through space at 40,000 kilometers per hour (24,800 miles per hour). This will allow the mission leaders to monitor the impact of the environment on the plywood.

The satellite would downlink its telemetry and images from two cameras using amateur radio frequencies. In addition to testing plywood, the satellite will demonstrate accessible radio amateur satellite communication; host several secondary technology experiments; validate the Kitsat platform in orbit, and popularize space technology.



The WISA Woodsat balloon bursts as the satellite reaches its maximum altitude. The image was taken using the spacecraft's selfie stick

*Article Credit : The ARRL Letter for July 1, 2021 - [www.arrl.org](http://www.arrl.org)*



## Amateur Radio Volunteers Prepared for and Tracked Elsa

The weather event known as Elsa, a tropical storm that also achieved Category 1 hurricane status, prompted actions by ARRL, the Amateur Radio Emergency Service (ARES), and the **Hurricane Watch Net (HWN - <https://www.hwn.org>)** as the storm set its sights on Florida this week. The storm made landfall along the Gulf Coast of northern Florida on July 7, before weakening significantly.

As Tropical Storm Elsa moved up the East Coast, the Eastern New York (ENY) and New York-Long Island (NLI) Sections received a request from the American Red Cross (ARC) Greater New York Region to have ARES groups put on alert from July 9 through July 15.

"As of now, it's just preliminary planning with no definite plans for opening shelters or service delivery sites," Phil Nelson, N2PN, Regional Field Communications Manager of ARC Greater New York said on July 7.

"Please stay aware of developing conditions," Eastern New York Section Communications Manager Dave Galletly, KM2O, urged. "I ask that groups in the ENY Southern District prepare for possible deployment in support of ARC as of Friday, July 9. Groups in the Central and Northern Districts should also keep in touch with weather developments and stand by for possible mid to long-term support of Southern District groups."

On July 6, Northern Florida Section Emergency Coordinator Karl Martin, K4HBN, activated the ARES Net on 3.950 kHz. An open net was activated on **SARnet (<https://www.sarnetfl.com>)** - a UHF-linked repeater network. As the evening developed, the Section saw six emergency operations centers and many shelters open. The Northern Florida Section stood down from a Level III monitoring activation on July 7.

"ARRL Headquarters and the ARRL Emergency Management Department are monitoring the storm's progress and will be ready to assist Sections affected by Elsa," ARRL Emergency Management Director Paul Gilbert, KE5ZW, assured as the storm approached.

The Hurricane Watch Net initially activated for Elsa on July 2, after it became a Category 1 hurricane.

"Because the storm was extremely close to Barbados, St. Lucia, and St. Vincent, we went into operation to collect and forward weather data to the National Hurricane Center in Miami," Net Manager Bobby Graves, KB5HAV, said. The HWN reactivated for several hours on July 6, standing down after about 8 hours.

Elsa has produced some wind damage, but the major hazard from the storm so far appears to be heavy rain, flooding, and storm surge. Some suspected tornadoes have been reported. Elsa is expected to move across the southeastern and mid-Atlantic US.

*Article Credit : The ARRL Letter for July 8, 2021 - [www.arrl.org](http://www.arrl.org)*







**Electronics Notes** (<https://www.electronics-notes.com/articles/history/radio-receivers/classic-vintage-radio-receivers.php>)

has begun to develop a virtual museum and directory of various vintage radios. It may include everything from crystal sets to early tube radios, government and military gear, and ham radio equipment up to the early solid-state era. Each radio gets a description, details of the specification, and a circuit where possible. Some already in the database include: the Philco 111 superheterodyne (1931); some of the EKCO Art Deco round radio sets from the 1930s - 1940s; a selection of government surplus radios such as the AR88, Marconi CR100, and 150; some ham radio equipment, and a Tandberg radio from the 1970s. "As you can imagine, this is very much a 'work in progress,' so we will be adding more as time permits so we can end up with a useful selection of radios that people will find interesting to browse and read about," the website said.



*Article Credit : The ARRL Letter for August 5, 2021 - [www.arrl.org](http://www.arrl.org)*



## July Volunteer Monitor Program Report Released

The July 2021 activity report of the Volunteer Monitor (VM) Program has been released. This program is a joint initiative between ARRL and the FCC to enhance compliance in the Amateur Radio Service.



- Technician-class licensees in Spring Valley, Smith River, and Nipomo, California; Oneonta, New York; Idaho Falls, Idaho, and Center, Texas, received Advisory Notices concerning FT8 operation on frequencies not authorized to Technician licensees.
- General-class licensees in Marco Island and Arcadia, Florida, as well as in Maryland, received Advisory Notices for operation in the Amateur Extra-class portion of the 20-meter band.
- A licensee in Parks, Arizona, received an Advisory Notice concerning failure to abide by a request to stay off a repeater. The matter will be referred to the FCC for enforcement action.
- A General-class licensee in Acworth, Georgia, received an Advisory Notice concerning failure to identify properly and for repeated communications with unlicensed stations on 3.895 MHz.
- An Amateur Extra-class licensee in Keansburg, New Jersey, received an Advisory Notice concerning on-the-air threats directed at another operator on 3.844 MHz.
- The final totals for VM monitoring in July were 1,736 hours on HF frequencies and 2,185 hours on VHF and UHF frequencies.

The IT staff at ARRL Headquarters has begun work on the automated system for Volunteer Monitors to report monthly monitoring hours and Incident Reports. - Thanks to Volunteer Monitor Program Administrator Riley Hollingsworth, K4ZDH

*Article Credit : The ARRL Letter for August 12, 2021 - [www.arrl.org](http://www.arrl.org)*



## Get Set for SET : ARRL Simulated Emergency Test Ahead, Plan Now

The 2021 ARRL Simulated Emergency Test (SET) is just ahead. The primary ARRL-sponsored national emergency exercise is designed to assess the skills and preparedness of Amateur Radio Emergency Service® (ARES®) volunteers, as well as those affiliated with other organizations involved with emergency and disaster response. The primary SET weekend is **October 2-3**, but Local and Section-wide exercises may take place throughout the fall. The annual SET encourages maximum participation by all amateur radio operators, partner organizations, and national, state, and local officials who typically engage in emergency or disaster response.

In addition to ARES volunteers, radio amateurs active in the National Traffic System, Radio Amateur Civil Emergency Service (RACES), SKYWARN™, Community Emergency Response Team (CERT), and a variety of other allied groups and public service-oriented radio amateurs are needed to fulfill important roles in this nationwide exercise.

The SET allows volunteers to test equipment, modes, and skills under simulated emergency conditions and scenarios. Individuals can use the time to update a "go-kit" for use during deployments and to ensure their home station's operational capability in an emergency or disaster. To get involved, contact your local ARRL Emergency Coordinator or Net Manager. Check on upcoming planned activities through local, state, or Section-wide nets.

*Article Credit : The ARES Letter for August 18, 2021 - [www.arrl.org](http://www.arrl.org)*



### ARRL Simulated Emergency Test By Karl Frank, W2KBF, Gloucester County ARES Emergency Coordinator

The Gloucester County Amateur Radio Emergency Service (GC-ARES) plans to participate in the annual SET, as described in the "ARES Letter". All Radio Amateurs are invited to participate, whether or not you are registered with ARES. We will find something for you to do, particularly if you have FLDIGI and/or WinLink capabilities. More information and practice in message handling will be provided during our weekly Sunday evening ARES/RACES Training Net on the W2MMD 2 Meter repeater.



### WORD TO THE WISE

**Tin Pest, Also known as tin disease or tin blight :**

**Tin, and other materials, can have different physical forms for the same physical state. For elements, this is called allotropism; for crystalline materials, polymorphism. Tin, in its metal form, can change into a crumbly non-metallic form, which is also non-conductive. The transformation can be accelerated by low temperatures; the presence of other elements, like germanium; or amounts of the non-metallic form already present. Some electronic parts are plated with tin, or use tin alloys. The tin in these parts can degrade and crumble, and pins and connections can lose conductivity. What's more, the non-conductive crumbles can disperse to other parts of an assembly, and then through heating become conductive again, causing short circuits. Tin pest can be avoided by careful use of other materials as an alloy to tin.**

**QST de W1AW**  
**ARRL Bulletin 21 ARLB021**  
**From ARRL Headquarters**  
**Newington CT August 17, 2021**  
**To all radio amateurs**

**SB QST ARL ARLB021 FCC Application Fees Unlikely to Go into Effect Until 2022**

The schedule of FCC amateur radio application fees likely will not go into effect before 2022. FCC staff confirmed during a recent virtual meeting with Volunteer Examiner Coordinators (VECs) that the agency is still working on the necessary changes to the Universal Licensing System (ULS) software and other processes and procedures that must be in place before it starts collecting fees from amateur applicants. Earlier this year, the FCC said it would not start collecting fees from amateur applicants before this Summer. The new estimate is that the fees won't go into effect until early next year.

Once it's effective, the \$35 application fee will apply to new, modification (upgrade and sequential call sign change), renewal, and vanity call sign applications. All fees will be per application. Administrative update applications, such as those to change a licensee's name, mailing, or email address, will be exempt from fees. ARRL VEC manager Maria Somma, AB1FM, said Volunteer Examiner (VE) teams will not face the burden of collecting the \$35 fee.

"Once the FCC application fee takes effect, new and upgrade applicants will pay the exam session fee to the VE team as usual, but they'll pay the \$35 application fee directly to the FCC using the FCC Pay Fees system," she explained. When the FCC receives the examination information from the VEC, it will email a link with payment instructions to each successful candidate who then will have 10 days from the date of the email to pay.

The FCC Pay Fees system can be accessed at : [https://apps2.fcc.gov/Batch\\_Filer/login.cfm](https://apps2.fcc.gov/Batch_Filer/login.cfm).

After the fee is paid and the FCC has processed an application, examinees will receive a second email from the FCC with a link to their official license. The link will be good for 30 days. Licensees also will be able to view, download, and print official license copies by logging into their FCC ULS account. The FCC no longer provides printed licenses.

Licensees can log into the ULS with their 10-digit FRN (FCC Registration Number) and password at any time to view and manage their license and application, print their license, and update anything in their FCC license record, including adding an email address.

**FEE SCHEDULE :**

**INDIVIDUALS :**

**\$35 FEE :** New, modification (upgrade and sequential call sign change), renewal, and vanity call sign applications. All fees will be per application.

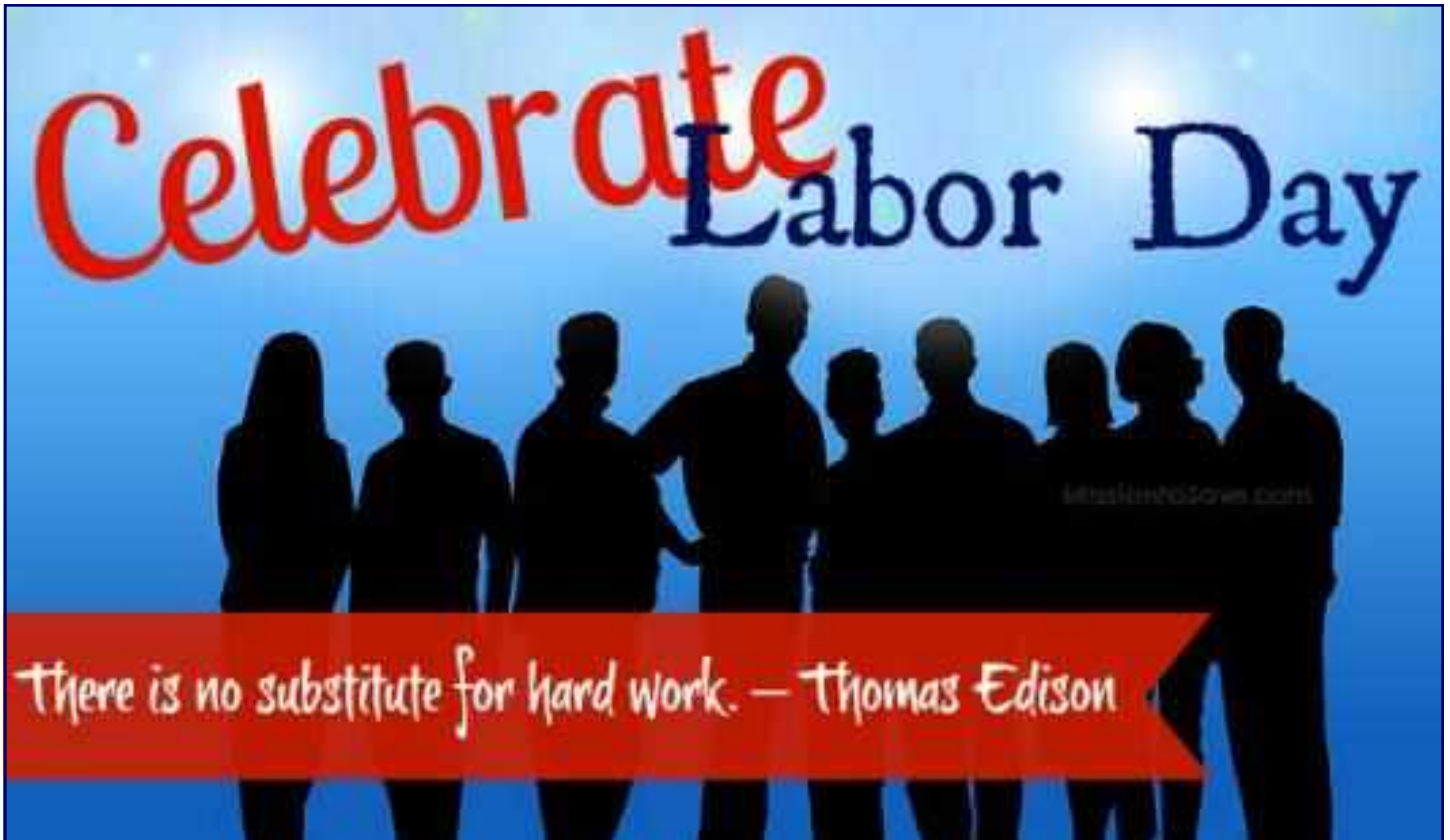
**NO FEE :** Administrative updates, such as a change of name, mailing or email address, or license cancellation.

*FCC Application Fees - Continued on page 20*

**AMATEUR RADIO CLUBS :**

**\$35 FEE :** New, renewal, trustee change, and vanity call sign applications. All fees will be per application.

**NO FEE :** Administrative updates, such as a change of name, mailing or email address, or license cancellation.



**Monday, September 6, 2021**





## Bike MS : City To Shore Ride 2021

September 25 - 26, 2021

<https://bit.ly/3ezT7m4>

Sunday, August 22, 2021

### Greetings to All of the HAM Community

We are now 5 weeks away from the 2021 Ride MS - City to Shore, and I am once again **PLEADING** for volunteers. Last week I let you folks know that we were still very low on volunteers, and all we received were enough sign ups to cover 10 check points.

For those of you that have already signed up, we **THANK YOU** deeply, but you are still getting this in the hope that it will remind you to talk up the event, and forward it to all the HAMS you know, with a note to please volunteer.

**We are still in the need to fill 30 more check point positions.**

**Yes, 30 check points, plus other operational positions to cover this event fully.**

I ask that you folks dig deep to put 5 - 6 hours a day, for 2 days, on the 25<sup>th</sup> and 26<sup>th</sup> of September, aside to assist in one of the largest HAM Public Service Events in the country. A chance to use your **SKILLS** and **EXPERTISE** to help keep the thousands of riders and regular volunteers safe and informed. An opportunity to fulfill our Public Service Commitment.

We have unfortunately lost some long time volunteers of the event recently.

### SILENT KEYS :

**Ed Clark W2KP, Kathy Stafford AB2LF, Art Arnold N2CPR** - to name a few of the over 20 year volunteers. If for no other reason, let's get out there and support this event for them, and all the loyal volunteers of years gone by.

You can sign-up by using this online Communicator Registration Form : <https://bit.ly/3zjFe3z>

We still have rooms available in Ocean City for Saturday night for 2 day volunteers not living in the area, so sign up early to reserve a room.

We look forward to working with as many of you as possible this year. Whether you sign up on-line, e-mail or snail mail the form back, we don't care.

**JUST PLEASE SIGN UP.**

That's all for now, you will hear from us once again next week.

*Bike MS City To Shore Ride 2021 - Continued on page 22*

**With Much Appreciation**

73

EvComm (609.795.0909)

*Editor's Note :*

To download the Communicator Registration Form and e-mail or snail it back, please go to :

<https://gloucestercountync.weebly.com/bike-ms--walk-ms-events.html>

**QST de W1AW**

**Special Bulletin 10 ARLX010**

**From ARRL Headquarters**

**Newington CT August 17, 2021**

**To all radio amateurs**

**SB SPCL ARL ARLX010 Following Earthquake in Haiti, Radio Amateurs Asked to Keep Frequencies Clear**

In a statement received by ARRL on August 14, 2021, Region 2 of the International Amateur Radio Union (IARU-R2) has requested that radio amateurs in the Americas keep the following frequencies clear to support emergency communications in Haiti following an earthquake.

The frequencies are: 3750 kHz, 7150 kHz, and 14330 kHz.

The statement came from IARU-R2 Emergency Coordinator (EMCOR) Carlos Alberto Santamar Gonzalez, CO2JC. According to preliminary information from the United States Geological Survey (USGS), a 7.2 magnitude earthquake struck Haiti on August 14, 2021 at 1229 UTC, about 12 kilometers northeast of Saint-Louis-du-Sud and 33 kilometers to the east-northeast of Les Cayes, Haiti; 18.352 degrees north and 73.4801 degrees west at a depth of 10 km.

Mr. Jean-Robert Gaillard, HH2JR, President of the Radio Club of Haiti, reported significant structural damage. International news reports fear high casualties.



**WSJT-X New Release Candidate**

WSJT-X rev 2.5.0-rc5 "release candidate" is (<https://physics.princeton.edu/pulsar/k1jt/wsjsx.html>) now available.

These releases are intended for beta testers - individuals interested in testing the program's new features and providing feedback to the WSJT Development Team. This is the fifth candidate release for WSJT-X 2.5.0, offering several enhancements and bug fixes. On Windows platforms, it includes MAP65 3.0.0-rc5, a wideband polarization-matching tool intended primarily for EME.



*Article Credit : The ARRL Letter for August 12, 2021 - [www.arrl.org](http://www.arrl.org)*

## 2019-2023 Element 3 General Class License Question Quiz

This month we continue with **Subelement G7 : Practical Circuits** (Answers on 'Last Page Calendar')

### G7B01

**What is the reason for neutralizing the final amplifier stage of a transmitter?**

- A. To limit the modulation index
- B. To eliminate self-oscillations
- C. To cut off the final amplifier during standby periods
- D. To keep the carrier on frequency

### G7B02

**Which of these classes of amplifiers has the highest efficiency?**

- A. Class A
- B. Class B
- C. Class AB
- D. Class C

### G7B03

**Which of the following describes the function of a two-input AND gate?**

- A. Output is high when either or both inputs are low
- B. Output is high only when both inputs are high
- C. Output is low when either or both inputs are high
- D. Output is low only when both inputs are high

### G7B04

**Which of the following describes the function of a two input NOR gate?**

- A. Output is high when either or both inputs are low
- B. Output is high only when both inputs are high
- C. Output is low when either or both inputs are high
- D. Output is low only when both inputs are high

### G7B05

**How many states does a 3-bit binary counter have?**

- A. 3
- B. 6
- C. 8
- D. 16

### G7B06

**What is a shift register?**

- A. A clocked array of circuits that passes data in steps along the array
- B. An array of operational amplifiers used for tri-state arithmetic operations
- C. A digital mixer
- D. An analog mixer

*General Class Quiz - Continued on page 24*

**G7B07**

**Which of the following are basic components of a sine wave oscillator?**

- A. An amplifier and a divider
- B. A frequency multiplier and a mixer
- C. A circulator and a filter operating in a feed-forward loop
- D. A filter and an amplifier operating in a feedback loop

**G7B08**

**How is the efficiency of an RF power amplifier determined?**

- A. Divide the DC input power by the DC output power
- B. Divide the RF output power by the DC input power
- C. Multiply the RF input power by the reciprocal of the RF output power
- D. Add the RF input power to the DC output power

**G7B09**

**What determines the frequency of an LC oscillator?**

- A. The number of stages in the counter
- B. The number of stages in the divider
- C. The inductance and capacitance in the tank circuit
- D. The time delay of the lag circuit

**G7B10**

**Which of the following describes a linear amplifier?**

- A. Any RF power amplifier used in conjunction with an amateur transceiver
- B. An amplifier in which the output preserves the input waveform
- C. A Class C high efficiency amplifier
- D. An amplifier used as a frequency multiplier

**G7B11**

**For which of the following modes is a Class C power stage appropriate for amplifying a modulated signal?**

- A. SSB
- B. FM
- C. AM
- D. All these choices are correct

**ARRL Ham Radio License Exam Practice Website**

[www.arrlexamreview.appspot.com](http://www.arrlexamreview.appspot.com)

**The W1UL Ham Cram Website**

[www.ham-cram.com](http://www.ham-cram.com)



# Gloucester County Amateur Radio Club General Membership Meeting Minutes Wednesday, August 4, 2021



Meeting opened @ 1933 Hours by President Tony Starr, K3TS with the Pledge of Allegiance

## Attendance :

- Members : 24 in-person plus 11 ZOOM attendees
- Visitors : 1 (George Trujillo of Deptford)

Minutes from the July General Membership Meeting were published previously in the CrossTalk and were approved without modification.

**Treasurer : Alan Arrison KB2AYU** reported YTD Income of \$4168 and Budget Expenses of \$3381 for a net gain of approximately \$786. The bill for alarm monitoring was \$330 and Field Day food expenses were \$157. Approximately \$2367 has been spent of the \$4000 approved for projects. This included \$71 for generator repair, \$713 to replace the air conditioner and \$190 to replace the Clubhouse toilet.

## COMMITTEE REPORTS :

**Clubhouse : Alan Arrison KB2AYU** said the HF station is completely operational with rotator (on loan from Alan) and linear amplifier. Work on the Grounding Project is on hold until after September, when work will resume on the VHF station. **John Hill W2HUV** will demonstrate remote operation of the Club's HF station following the business part of this meeting.

**Hamfest : Sheldon Parker K2MEN** has lined up several volunteers but could use more. He will send out over 1000 emails advertising the hamfest in late August/early September. We are OK with volunteers at the gate and have about six for the 6 PM setup on Saturday night but could use 3 or 4 more. **Lee Marino N2LAM** has handled security in the past but has other plans this year, so a replacement is needed for Lee. **Herb Dyer KT2Y** will help **Ron Block NR2B** to set up the Forum Space, but a few more helpers are needed. Only 3 or 4 have signed up to help with parking and we need volunteers to help with cleanup after the event. The Club is short of popup canopies and would like to borrow a few from Club members. Also, we could use the loan of a golf cart to run between the Clubhouse and hamfest. Volunteer Examiners are in short supply and more are needed if we are to have a VE session at the hamfest.

**President Tony Starr K3TS** pointed out that volunteering to help at the hamfest can be for a few hours and does not have to take up the whole weekend.

**Field Day : Tony Starr K3TS** did not have much to say except that it was very successful.

**DX and Contests : Tony Starr K3TS** said the North American CW QSO Party would take place this weekend. A single operator may operate for a maximum of 10 hours.

**Club Nets : Jim Clark KA2OSV** said we average 8 to 10 check-ins for the 10 meter net.

*August 2021 General Membership Meeting Minutes - Continued on page 26*

**Technical Committee : Jonathan Pearce WB2MNF** asked **Karl Frank W2KBF** to say a few words about WinLink. Karl established the W2KBF-10 WinLink Radio Message Server (RMS) at his QTH prior to Field Day but this station has limited range. As a temporary workaround, the range of W2KBF-10 can be extended via the W2MMD 2 meter repeater during the Monday evening **Digital Training Net** run by **Bob Keogh KD2NEC** and **Gary Mirkin WA3SVW**. Karl will be one of the forum speakers at the September 12 GCARC Hamfest on the topic of "Introduction to WinLink".

Jonathan pointed out that use of a FM voice repeater for digital communications is not an ideal situation so the Technical Committee plans to establish a VARA FM repeater and possibly a WinLink RMS at the Clubhouse. To avoid interference with APRS and VHF activities, this will be done by upgrading the existing APRS 2 Meter antenna with a multiband antenna and diplexer so that 440 MHz can be used. **Alan Arrison KB2AYU** said the multiband antenna could be put up this weekend. When time permits, Jonathan would like to establish a HF RMS on 40 or 80 meters but needs to study possible complications arising from strong, local RF when the new linear amplifier is used at the main HF station.

The two solar panels have been keeping a 100 Ah battery charged (with commercial power backup), such that the 2 A required to power the "SkunkWorks" cabinet could be supplied for an indefinite period of time. An effort is underway to reactivate the AREDN MESH project, in collaboration with the people from Cooper Health System. The weather station is now beaconing the temperature inside the Clubhouse over APRS but the outside temperature probe has gone bad and needs to be replaced.

The Club generator is fully functional and conduit was laid in the ground for cables to connect it to the Clubhouse. However, nobody currently involved in the project has the requisite skill set, tools, or materials necessary to make that connection. Any help from volunteers who have such skills would be appreciated.

**OLD BUSINESS : None**

**NEW BUSINESS :**

**Vinnie Sallustio N4NYY** has been keeping track of the Club's DXCC list and providing updates to **Tony Starr K3TS** and **Jeff Garth WB2ZBN**, but Vinnie now needs a volunteer to take over this role. **Mark Federici KC2VAR** asked if this information could be entered into Club Log. Tony said he would look into this.

**Tony Starr K3TS** reiterated that we have a sudden shortage of Volunteer Examiners (VEs) due to health problems. We may need to enlist help from other clubs in order to hold a VE session at the hamfest and Tony will contact **SNJ Section Manager Tom Preiser N2XW** about this. **Chuck Colabrese WA2TML** will contact the Vineland club too.

**Mary Delemarre W2TDS** asked about the Forum Presentations at the Hamfest.

**Ron Block NR2B** has a preliminary list :

1. A WinLink presentation by **Karl Frank W2KBF**
2. A SkunkWorks presentation by **Jonathan Pearce WB2MNF**
3. A presentation by **ARRL Atlantic Division Director Tom Abernethy W3TOM**
4. Possible FLEX radio presentation.

**Tony Starr K3TS** closed the Business Meeting @ 2003 Hours.

Following a break, **John Hill W2HUV** demonstrated remote operation of the W2MMD HF station using Remotehams.com software.

**Respectfully Submitted,**  
**Karl Frank W2KBF**  
**Recording Secretary**



Wednesday, September 15, 2021

# Gloucester County Amateur Radio Club

## Board of Directors Meeting Minutes

### Wednesday, August 18, 2021



ZOOM meeting opened @ 1902 Hours by President Tony Starr, K3TS.

#### Attendance :

- President Tony Starr K3TS
- Treasurer Al Arrison KB2AYU
- Recording Secretary Karl Frank W2KBF
- Corresponding Secretary Ron Block NR2B
- Director Jeff Garth WB2ZBN
- Director Jim Clark KA2OSV
- Director Chuck Colabrese WA2TML
- Director Herb Dyer KT2Y
- Director Bill Price NJ2S
- Director Bob Durham W2RAD
- Trustee Jim Wright N2GXJ
- Member Frank Romeo N3PUU
- Member Jon Pearce WB2MNF
- Member John Hill W2HUV
- Member Lee Marino N2LAM
- Member John O'Connell K2QA
- Member Steve Farney W2SEF
- Member Phil Nunzio WA3RGY

Vice President **Jeffrey Welsh KD2AZI** was not in attendance, but **Tony Starr K3TS** has been in contact with him and Jeff has been working on obtaining door prizes for the hamfest.

The minutes of the last BoD meeting on July 21 were reviewed by **Karl Frank W2KBF** and approved without changes.

**TREASURER : Alan Arrison KB2AYU** reported YTD income of \$4,223 and expenses of \$3,424 for a net gain of \$800. The largest bill was \$332 for annual monitoring of the alarm. The Treasurer's Report was accepted.

**CLUBHOUSE : Alan Arrison KB2AYU** noted that not much was going on due to Summer vacations. The grass under the picnic tables and at the right end of the trailer is becoming tall and needs to be mowed on a day when the temperature is not too high. Groundhogs are once again digging holes under the skirting of the trailer. There was some discussion as to how to get rid of them. A recent electric bill was over \$200 and Alan is using a Kill-A-Watt meter to measure power consumption from various devices, including the refrigerator. Alan wants to investigate the possible use of solar panels to reduce the monthly bills.

#### COMMITTEE REPORTS

*August 2021 Board of Directors Meeting Minutes - Continued on page 29*

**CONTESTS/DX :** **Tony Starr K3TS** noted the WAE (Worked All Europe) was last weekend and the NA QSO Party (Phone) will take place this weekend. The 3Y0J DXpedition is back on, but a website is not yet available. **Vinnie Sallustio N4NYY** took a very good picture of the Field Day antennas and Tony will ask Vinnie to submit this to QST as a possible cover photo.

**CLUB NETS :** **Steven Farney W2SEF** had nine check-ins on the Tuesday Noon Net and said that the Monday Night Digital Net was "going great". Participation in the Thursday Evening Net has declined, probably due to Summer Vacations.

**HAMFEST :** **Sheldon Parker K2MEN** was not in attendance, but **Tony Starr K3TS** reiterated that **Jeffrey Welsh KD2AZI** was working to obtain door prizes. **Chuck Colabrese WA2TML** said that we will have help from VEs from other groups, so it will be possible to run a VE session at the Hamfest. **Ron Block NR2B** has lined up 3 speakers for the Forum, but FLEX Radio declined to send a speaker. They offered to do a presentation by remote, but that is not what we want. **John Hill W2HUV** suggested to Ron that he contact **Ria Jairam N2RJ** to speak on SDRs and Ron said he would do this. **Eric Morris N2BRJ** and **Harry Elwell K2ATX** are handling security this year and **Phil Nunzio WA3RGY** will take pictures.

**TECHNICAL COMMITTEE :** **Jonathan Pearce WB2MNF** said not much has been happening lately due to Summer vacations. At the last Tech Saturday, **Alan Arrison KB2AYU** replaced the APRS 2 meter antenna with a multiband (2M/70cm/1.2 GHz) antenna so that, with a diplexer, we could run APRS on 2 meters and WinLink VARA FM on 440 MHz from a single antenna and feedline. Jonathan then worked with **Len Rust W2LJR**, **Marc Federici WM2Y** and **Jim Wright N2GXJ** to set up the W2MMD-3 WinLink Radio Message Server on 441.050 MHz. After that, **Karl Frank W2KBF** worked with Jonathan to optimize the Signalink interface for VARA FM operation. Jonathan wants to expand the Club's Winlink RMS to include 80 or 40 meters, but first will get together with **Ron Block NR2B** and his spectrum analyzer to investigate how much RF would get into a WinLink HF transceiver when the linear amplifier from the main W2MMD station is used.

Jonathan will not be able to attend the next General Membership Meeting on September 1, so **John O'Connell K2QA** will provide the Technical Committee report.

**NEW MEMBERSHIP APPLICATIONS : None**

**OLD BUSINESS : None**

**NEW BUSINESS : None**

**Tony Starr K3TS** closed the ZOOM Meeting @ 19:32 Hours.

**Respectfully Submitted,  
Karl Frank, W2KBF  
Recording Secretary**

North American QSO Party, CW  
August 8, 2021

Call : AB2E  
Operator (s) : AB2E  
Station : AB2E

Class : Single Op LP  
QTH : NJ  
Operating Time (hrs) : 2  
Location : USA

Summary :

Band	QSOs	Mults
------	------	-------

80 :	44	24
40 :	10	8
20 :	19	13
15 :	9	7

Total : 82      52  
Total Score : 4,264

Club : Frankford Radio Club  
Team : FRC Team Gamma

55

Comments :

Rig : Elecraft K3

Antennas :

10/15m homebrew fan dipole @ 65ft

20m delta loop @ 65ft

40m dipole @ 80ft

80m dipole @ 95ft

Thanks for all the Qs. Had very little time to operate. Maybe more next time.

73 to all,  
Darrell AB2E

North American QSO Party, CW  
August 8, 2021

Call : K3TS  
Operator (s) : K3TS  
Station : K3TS

Class : Single Op LP  
QTH : SNJ  
Operating Time (hrs) : 10  
Location : USA

Summary :

Band	QSOs	Mults
------	------	-------

160 :	35	15
80 :	135	27
40 :	123	35
20 :	189	35
15 :	69	21

Total : 551      133  
Total Score : 73,283

Club : Frankford Radio Club  
Team : FRC Team Epsilon

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Comments : Slightly better score than last year, with fewer Q's but more Mults. I am not convinced that the bands were any better, and there seemed to be fewer participants too, but it will be hard to compete with last summer's locked down population. Thanks to all for the contacts, and I think I had less trouble hear all of you thanks to lower local noise levels as the day wore on. 73 and see you in two weeks for SSB!

Tony K3TS



Saturday, September 18, 2021



Monday, September, 27, 2021

**WAE DX Contest, CW  
August 14, 2021**

**Call : AB2E  
Operator (s) : AB2E  
Station : AB2E**

**Class : Single Op HP  
QTH : NJ  
Operating Time (hrs) : 4  
Location : USA**

**Summary :**

Band	QSOs	QTCs	Mults
40 :	38	38	48
20 :	94	92	56
<b>Total :</b>	<b>132</b>	<b>130</b>	<b>104</b>
<b>Total Score : 27,248</b>			

**Club : Frankford Radio Club 57**

**Comments :**

*Rig : FTDX-9000D/Acom 2000A  
Antennas :  
40m dipole @ 85ft  
20m delta loop @ 65ft*

*Thanks for all the QSOs!*

*Was not able to get into the contest until around 6P local time Sat afternoon (2200z). I was surprised that many of the EU stations I worked on 20m had less than 100 QSOs, so condx must have been horrible the first night. All activity seemed to be on 20m and 40m. Every time I checked 80m on Sat night, There were only a couple EU and they were weak.*

**WAE DX Contest, CW  
August 14, 2021**

**Call : W2HUV  
Operator (s) : W2HUV  
Station : W2MMD**

**Class : Single Op HP  
QTH :  
Operating Time (hrs) : 7.48  
Location : USA  
Remote Operation**

**Summary :**

Band	QSOs	QTCs	Mults
40 :	85	0	81
20 :	166	0	70
15 :	11	0	16
<b>Total :</b>	<b>262</b>	<b>0</b>	<b>167</b>
<b>Total Score : 43,754</b>			

**Club : Frankford Radio Club 58**

**Comments :**

*This was the first contest since the addition of an Elecraft KPA1500 Solid State Amplifier to the Gloucester County Amateur Radio Club (GCARC) W2MMD Remote HF Station. The amplifier worked perfectly. I just wish that I had more time to spend on the contest. My score could have been higher if I had responded to the numerous QTC? requests. I need to get up to speed on the use of N1MM+ to provide the responses.*



**September 18, 1947**



**Wednesday, September 22, 2021 @ 1521 Hours**

Contact Ernest Kraus KD2EAV if you would like to be added to the DX HONOR ROLL



Name/Callsign	DXCC
Bill Grim, W0MHK	352
Dave Strout, W2YC	349
Darrell Neron, AB2E	328
Ray Martin, W2RM	270
John Hill, W2HUV	252
Ken Denson, WB2P	248
Vinnie Sallustio, N4NYY	221
Tony Starr, K3TS	208
Dennis Sandole, K2SE	204
Jim Wright, N2GXJ	179
<b>Sheldon Parker, K2MEN</b>	<b>163</b>
<b>Matt Wilson W2MFW</b>	<b>160</b>
Christopher Wawak, KC2IEB	128
Eric Morris, N2BRJ	127
<b>Howard Marder, WA2IBZ</b>	<b>123</b>
Phil Nunzio, WA3RGY	116
<b>Bart Kleczynski, AC2PT</b>	<b>106</b>
Chuck Capasso, WB2PGE	103
Harry Strahlendorf Jr W3DNQ	87
Curt Myers, K2CWM	73
Jim Clark, KA2OSV	68
Lee Marino, N2LAM	35
<b>Updated As Of 08/17/2021</b>	



## Here is what the Jersey String Band is doing in September 2021

By Glenn Dougherty, N2YIO

September 5, 2021 : Parade in Eddystone, PA @ 11:00am

September 11, 2021 : Parade in Pennsville, NJ @ 1:00pm

September 23, 2021 : Mummers night at the Phillies - this is a fundraiser for all the bands

We are starting to plan for New Years Day 2022. We aren't sure what the city of Philadelphia is doing as of yet, but we are planning on doing something on New Years Day, even if it is just at the Greenfield Firehouse parking lot in West Deptford.



## September Birthdays

Congratulations to our members who are celebrating their birthday this month

Gerald Blachniak, KD2KIA  
Jin Blose, KD2TAT  
Ken Bozarth, KN2U  
Bob Derderian Jr, N2IPH  
Harold Garron Jr, AC2BK  
Mark Gottlieb, KK2L  
John Hill, W2HUV  
Stephen Jordan, KB2RGZ  
Perry Mayer, W3MMR  
Bob Molloy, KD2UJ  
Henry Nierzwicki, N2OIP  
Art Olson Jr, N2AJO  
Bill Price, NJ2S  
Jim Quarella, KD2QYE  
Ralph Sangataldo, W2HVH  
Gene Schoeberlein, AA2YO



## In Memoriam September Birthdays

Silent Keys :

Mark Anthony, WA2WFZ  
Earl Bende, W2USG (Charter Member)  
Fred Bergmann, WB2BPX  
Harold Berry Sr, WA2QOY  
William Blakeley, WA2ADB  
William Burbage, N2QEB  
Wallace Cantoni, W2HVW  
Charles Coder, WA2UHQ  
Joe Everhart, N2CX  
Sidney Gantz, WB2JRU  
Sonny Gutin, WB2DXB  
William Hansche Jr, W2ILL  
James Langworthy, KB2PAU  
Jack Layton, W9UK (Charter Member,  
President 1965)  
Jose Lopez Jr, WB2OZE  
Joseph Mitchell, KB2FRN  
Frank Ritter, K2UUY  
Samuel Rosenberg, N2DWK  
Jean Shisler, N2WRJ  
Horace Simpson, W2JOZ (Charter Member)  
Harry Spiece, NJ2B  
Russell Stafford, W3CH  
Melvyn Sulzburgh, W2NM  
Edward Wargo, WA2ED

## Crosstalk Submissions

*This is your Club Newsletter. Make use of it.*

If you have stories or photos of your hobby that you would like to share with the Club, please do so!

We will keep covering all of the GCARC events, but it is also nice to get those personal perspectives to include in every issue. Connecting through experiences is what makes the Gloucester County Amateur Radio Club a *REAL* Club.

All submissions, queries, comments and editorials should be addressed to  
Jeffrey Garth, WB2ZBN at jeff <dot> garth <at> comcast <dot> net.

Submission deadline for the October 2021 issue : Monday, September 20, 2021

Club Website [www.w2mmd.org](http://www.w2mmd.org)

Club E-Mail Reflector: GCARC <at> Mailman <dot> QTH <dot> Net

## September 2021 Contest Calendar

WA7BNM Contest Calendar : [www.contestcalendar.com](http://www.contestcalendar.com)

+ Phone Weekly Test - Fray	0230Z-0300Z, Sep 1
+ CWops Mini-CWT Test	1300Z-1400Z, Sep 1
+ VHF-UHF FT8 Activity Contest	1700Z-2000Z, Sep 1
+ CWops Mini-CWT Test	1900Z-2000Z, Sep 1
+ UKEICC 80m Contest	2000Z-2100Z, Sep 1
+ G3ZQS Memorial Straight Key Contest	2300Z, Sep 1 to 2300Z, Sep 3
+ Walk for the Bacon QRP Contest	0000Z-0100Z, Sep 2 and 0200Z-0300Z, Sep 3
+ CWops Mini-CWT Test	0300Z-0400Z, Sep 2
+ CWops Mini-CWT Test	0700Z-0800Z, Sep 2
+ RTTYOPS Weeksprint	1700Z-1900Z, Sep 2
+ NRAU 10m Activity Contest	1700Z-1800Z, Sep 2 (CW) and 1800Z-1900Z, Sep 2 (SSB) and 1900Z-2000Z, Sep 2 (FM) and 2000Z-2100Z, Sep 2 (Dig)
+ EACW Meeting	1900Z-2000Z, Sep 2
+ SKCC Sprint Europe	1900Z-2100Z, Sep 2
+ NCCC RTTY Sprint	0145Z-0215Z, Sep 3
+ NCCC Sprint Ladder	0230Z-0300Z, Sep 3
+ K1USN Slow Speed Test	2000Z-2100Z, Sep 3
+ CWops CW Open	0000Z-0359Z, Sep 4
+ Russian RTTY WW Contest	0000Z-2359Z, Sep 4
+ All Asian DX Contest, Phone	0000Z, Sep 4 to 2400Z, Sep 5
+ Wake-Up! QRP Sprint	0600Z-0629Z, Sep 4 and 0630Z-0659Z, Sep 4 and 0700Z-0729Z, Sep 4 and 0730Z-0800Z, Sep 4
+ Portable Operations Challenge	0800Z-1159Z, Sep 4
+ CWops CW Open	1200Z-1559Z, Sep 4
+ AGCW Straight Key Party	1300Z-1600Z, Sep 4
+ Two-Meter Classic Sprint	1300Z-1330Z, Sep 4
+ IARU Region 1 Field Day, SSB	1300Z, Sep 4 to 1259Z, Sep 5
+ RSGB SSB Field Day	1300Z, Sep 4 to 1300Z, Sep 5
+ Colorado QSO Party	1300Z, Sep 4 to 0400Z, Sep 5
+ IARU Region 1 145 MHz Contest	1400Z, Sep 4 to 1400Z, Sep 5
+ Portable Operations Challenge	1600Z-1959Z, Sep 4
+ PODXS 070 Club Jay Hudak Memorial 80m Sprint	2000Z, Sep 4 to 2000Z, Sep 5
+ CWops CW Open	2000Z-2359Z, Sep 4
+ Portable Operations Challenge	0000Z-0359Z, Sep 5
+ WAB 144 MHz QRO Phone	1000Z-1400Z, Sep 5
+ Tennessee QSO Party	1800Z, Sep 5 to 0300Z, Sep 6
+ K1USN Slow Speed Test	0000Z-0100Z, Sep 6
+ RSGB 80m Autumn Series, SSB	1900Z-2030Z, Sep 6
+ MI QRP Labor Day CW Sprint	2300Z, Sep 6 to 0300Z, Sep 7
+ ARS Spartan Sprint	0100Z-0300Z, Sep 7
+ Worldwide Sideband Activity Contest	0100Z-0159Z, Sep 7
+ RTTYOPS Weeksprint	1700Z-1900Z, Sep 7
+ Phone Weekly Test - Fray	0230Z-0300Z, Sep 8
+ CWops Mini-CWT Test	1300Z-1400Z, Sep 8
+ VHF-UHF FT8 Activity Contest	1700Z-2000Z, Sep 8
+ CWops Mini-CWT Test	1900Z-2000Z, Sep 8
+ CWops Mini-CWT Test	0300Z-0400Z, Sep 9
+ CWops Mini-CWT Test	0700Z-0800Z, Sep 9
+ RTTYOPS Weeksprint	1700Z-1900Z, Sep 9
+ EACW Meeting	1900Z-2000Z, Sep 9
+ NCCC RTTY Sprint	0145Z-0215Z, Sep 10
+ NCCC Sprint Ladder	0230Z-0300Z, Sep 10
+ K1USN Slow Speed Test	2000Z-2100Z, Sep 10
+ FOC QSO Party	0000Z-2359Z, Sep 11
+ WAE DX Contest, SSB	0000Z, Sep 11 to 2359Z, Sep 12
+ SARL Field Day Contest	0800Z, Sep 11 to 0600Z, Sep 12
+ YB7-DX Contest	0900Z, Sep 11 to 1400Z, Sep 12
+ SKCC Weekend Sprintathon	1200Z, Sep 11 to 2400Z, Sep 12
+ Ohio State Parks on the Air	1400Z-2200Z, Sep 11
+ Alabama QSO Party	1500Z, Sep 11 to 0300Z, Sep 12
+ Russian Cup Digital Contest	1500Z-1859Z, Sep 11 and 0600Z-0959Z, Sep 12
+ ARRL September VHF Contest	1800Z, Sep 11 to 0300Z, Sep 13
+ North American Sprint, CW	0000Z-0400Z, Sep 12
+ 4 States QRP Group Second Sunday Sprint	0000Z-0200Z, Sep 13
+ K1USN Slow Speed Test	0000Z-0100Z, Sep 13
+ Worldwide Sideband Activity Contest	0100Z-0159Z, Sep 14
+ RTTYOPS Weeksprint	1700Z-1900Z, Sep 14
+ Phone Weekly Test - Fray	0230Z-0300Z, Sep 15
+ CWops Mini-CWT Test	1300Z-1400Z, Sep 15
+ CWops Mini-CWT Test	1900Z-2000Z, Sep 15
+ RSGB 80m Autumn Series, CW	1900Z-2030Z, Sep 15

September 2021 Contest Calendar - Continued on page 35

# September 2021 Contest Calendar

## WA7BNM Contest Calendar : [www.contestcalendar.com](http://www.contestcalendar.com)

*September 2021 Contest Calendar - Continued from page 34*

+ Walk for the Bacon QRP Contest	0000Z-0100Z, Sep 16 and 0200Z-0300Z, Sep 17
+ NAQCC CW Sprint	0030Z-0230Z, Sep 16
+ CWops Mini-CWT Test	0300Z-0400Z, Sep 16
+ CWops Mini-CWT Test	0700Z-0800Z, Sep 16
+ RTTYOPS Weeksprint	1700Z-1900Z, Sep 16
+ BCC QSO Party	1830Z-1859Z, Sep 16
+ EACW Meeting	1900Z-2000Z, Sep 16
+ NCCC RTTY Sprint	0145Z-0215Z, Sep 17
+ NCCC Sprint	0230Z-0300Z, Sep 17
+ K1USN Slow Speed Test	2000Z-2100Z, Sep 17
+ AGB NEMIGA Contest	2100Z-2400Z, Sep 17
+ Collegiate QSO Party	0000Z, Sep 19 to 2359Z, Sep 20
+ SARL VHF/UHF Digital Contest	0500Z-0700Z, Sep 18 (6m) and 0700Z-0900Z, Sep 18 (2m) and 0900Z-1100Z, Sep 18 (70cm) and 0500Z-0700Z, Sep 19 (6m) and 0700Z-0900Z, Sep 19 (2m) and 0900Z-1100Z, Sep 19 (70cm)
+ ARRL 10 GHz and Up Contest	0600 local, Sep 18 to 2400 local, Sep 19
+ Scandinavian Activity Contest, CW	1200Z, Sep 18 to 1200Z, Sep 19
+ Iowa QSO Party	1400Z, Sep 18 to 0200Z, Sep 19
+ Texas QSO Party	1400Z, Sep 18 to 0200Z, Sep 19 and 1400Z-2000Z, Sep 19
+ QRP Afield	1500Z-2100Z, Sep 18
+ Wisconsin Parks on the Air	1600Z-2300Z, Sep 18
+ Washington State Salmon Run	1600Z, Sep 18 to 0700Z, Sep 19 and 1600Z-2400Z, Sep 19
+ New Jersey QSO Party	1600Z, Sep 18 to 0359Z, Sep 19
+ New Hampshire QSO Party	1600Z, Sep 18 to 0400Z, Sep 19 and 1600Z-2200Z, Sep 19
+ Feld Hell Sprint	1800Z-1959Z, Sep 18
+ North American Sprint, RTTY	0000Z-0400Z, Sep 19
+ BARTG Sprint PSK63 Contest	1700Z-2059Z, Sep 19
+ Run for the Bacon QRP Contest	2300Z, Sep 19 to 0100Z, Sep 20
+ K1USN Slow Speed Test	0000Z-0100Z, Sep 20
+ 144 MHz Fall Sprint	1900 local - 2300 local, Sep 20
+ Worldwide Sideband Activity Contest	0100Z-0159Z, Sep 21
+ RTTYOPS Weeksprint	1700Z-1900Z, Sep 21
+ SKCC Sprint	0000Z-0200Z, Sep 22
+ Phone Weekly Test - Fray	0230Z-0300Z, Sep 22
+ CWops Mini-CWT Test	1300Z-1400Z, Sep 22
+ CWops Mini-CWT Test	1900Z-2000Z, Sep 22
+ CWops Mini-CWT Test	0300Z-0400Z, Sep 23
+ CWops Mini-CWT Test	0700Z-0800Z, Sep 23
+ RTTYOPS Weeksprint	1700Z-1900Z, Sep 23
+ EACW Meeting	1900Z-2000Z, Sep 23
+ RSGB 80m Autumn Series, Data	1900Z-2030Z, Sep 23
+ NCCC RTTY Sprint	0145Z-0215Z, Sep 24
+ NCCC Sprint	0230Z-0300Z, Sep 24
+ K1USN Slow Speed Test	2000Z-2100Z, Sep 24
+ CQ Worldwide DX Contest, RTTY	0000Z, Sep 25 to 2400Z, Sep 26
+ Maine QSO Party	1200Z, Sep 25 to 1200Z, Sep 26
+ Masonic Lodges on the Air	1400Z-2200Z, Sep 25
+ AGCW VHF/UHF Contest	1400Z-1700Z, Sep 25 (144) and 1700Z-1800Z, Sep 25 (432)
+ UBA ON Contest, 6m	0700Z-1000Z, Sep 26
+ K1USN Slow Speed Test	0000Z-0100Z, Sep 27
+ QCX Challenge	1300Z-1400Z, Sep 27
+ RSGB FT4 Contest Series	1900Z-2030Z, Sep 27
+ QCX Challenge	1900Z-2000Z, Sep 27
+ Worldwide Sideband Activity Contest	0100Z-0159Z, Sep 28
+ QCX Challenge	0300Z-0400Z, Sep 28
+ RTTYOPS Weeksprint	1700Z-1900Z, Sep 28
+ 222 MHz Fall Sprint	1900 local - 2300 local, Sep 28
+ Phone Weekly Test - Fray	0230Z-0300Z, Sep 29
+ CWops Mini-CWT Test	1300Z-1400Z, Sep 29
+ CWops Mini-CWT Test	1900Z-2000Z, Sep 29
+ UKEICC 80m Contest	2000Z-2100Z, Sep 29
+ CWops Mini-CWT Test	0300Z-0400Z, Sep 30
+ CWops Mini-CWT Test	0700Z-0800Z, Sep 30
+ RTTYOPS Weeksprint	1700Z-1900Z, Sep 30
+ EACW Meeting	1900Z-2000Z, Sep 30

## 2021 Club Committees

Standing Committees	Committee Chairs
Budget Constitution & By-Laws Field Day Hamfest Health, Welfare, & Silent Keys Hospitality Membership Membership Badges Nominations Publicity Repeaters W2MMD Clubhouse Site	Al Arrison, KB2AYU Ron Block, NR2B Vinnie Sallustio, N4NYY Sheldon Parker, K2MEN and Bill Price, NJ2S Bill Price, NJ2S Jeff Garth, WB2ZBN Bob Fields, KC6AOH Chuck Colabrese, WA2TML Tony Starr, K3TS Bob Fields, KC6AOH Herb Dyer, KT2Y Al Arrison, KB2AYU

Activity Committees	Committee Chairs
Awards & Certificates Club Publications & Historian Contests <i>DX</i> <i>GCARC Family Picnic</i> GCARC Foxhunts GC-ARES Emergency Coordinator <i>Holiday Dinner Party</i> License Testing/VEC Liaison Membership Roster Database Programs : Meetings & Tech Saturdays Radio Nets Technical W2MMD License Trustee W2MMD Special Event Station	Robin Herrmann, KD2LSH Jeff Garth, WB2ZBN Tony Starr, K3TS <i>Open Chair</i> <i>Open Chair</i> Jim Wright, N2GXJ Karl Frank, W2KBF <i>Open Chair</i> Gary Reed, N2QEE Jeff Garth, WB2ZBN Jeff Welsh, KD2AZI Jim Clark, KA2OSV Jon Pearce, WB2MNF Darrell Neron, AB2E Mark Gottlieb, KK2L

### GCARC <at> Mailman <dot> QTH <dot> Net e-mail reflector guidelines

1. **No attachments** (e.g. pictures, files) are allowed on the reflector.
2. If you have Club-related pictures that you would like to share, you can send them to the webmaster, he will put them on the website and will send out a general e-mail to all the members.
3. Otherwise, the pictures will have to be sent to the members' addresses.
4. URLs/Hyperlinks are acceptable on the reflector.
5. Do not send any messages with e-mail addresses in the **BCC (Blind Carbon Copy)** field. The message will be rejected. Use only the **To:** or **CC:** fields.
6. Members are subscribed to the reflector using the member's e-mail address from the roster database. You must use that address when sending an e-mail via the reflector.
7. If you use another address on the reflector, the message will get rejected or "*bounced*", because the reflector does not recognize that address.
8. Whenever a message sent to reflector is rejected or "*bounced*" for various reasons, the administrator has to log-in to the Mailman.QTH website and approve the message. If the admin recognizes the address as belonging to a Club member, the message is accepted and passed on to the reflector.

For more information about the e-mail reflector, goto : [www.mailman.qth.net](http://www.mailman.qth.net)

## The W2MMD Repeaters

### **2 Meter Repeater**

Output : 147.180 MHz

Input : 147.780 MHz

Offset : +600 kHz - PL : 131.8 Hz

(Conventional FM plus C4FM Capability)

**EchoLink : W2MMD-R**

### **70 cm Repeater**

Output : 442.100 MHz

Input : 447.100 MHz

Offset : +5 MHz - PL : 131.8 Hz

(Conventional FM plus C4FM Capability)

The above 2 repeaters are all  
located in Pitman, NJ  
GPS : 39.728481°, -75.131088°

### **1.25 Meter Repeater**

Output : 224.660 MHz

Input : 223.060 MHz

Offset : -1.6 MHz - PL : 131.8 Hz

Location : Sewell, NJ

GPS : 39.746738°, -75.077094°

### **SKYWARN™ Net**

Sunday @ 1930 : 147.180 MHz Repeater

### **Gloucester County ARES/RACES Net**

Sunday @ 2000 : 147.180 MHz Repeater

### **Monday Night 2 Meter Digital Training Net**

Restarting on Monday, July 12 @ 1900 Hours

### **Tuesday Noon Day 2M Rag Chew Net**

Every Tuesday @ 1200 Hours

### **Tuesday Night 10M Rag Chew Net**

Every Tuesday @ 2000 Hours

Tune in on 28.465 MHz or 28.475 MHz

### **Thursday Night 2M Rag Chew Net**

Every Thursday @ 2000 Hours

## Meeting Calendar

*General Membership Meeting*  
**Wednesday, September 1, 2021**  
**1930 Hours**

**Live & In-Person**  
**Pfeiffer Community Center**  
**Also Live on ZOOM**

*Board of Directors Meeting*  
**Wednesday, September 15, 2021**  
**1900 Hours**  
**W2MMD Clubhouse**

*“Ask not what your Club can do for you,  
Ask what you can do for your Club”*  
- KA2OSV

*“The big thing about being in a club and  
being a “Ham” is to help each other  
when there is a need ”*  
- W2SEF

### **\*\*\* Badges \*\*\***

**Need a new or replacement badge**  
**Contact “The BadgeMan”**

**Chuck Colabrese, WA2TML**  
**colabrese <at> comcast <dot> net**

Question Pool Answers : G7B01:B; G7B02:D; G7B03:B; G7B04:C; G7B05:C; G7B06:A; G7B07:D; G7B08:B; G7B09:C; G7B10:B; G7B11:B

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Gloucester County Amateur Radio Club - P. O. Box 370 - Pitman, NJ 08071

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