



CrossTalk

Issue 62:05

62 Years Of Service To Our Community

May 2021

2021 Club Officers

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

Board of Directors - 3 year term

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

This Month's Calendar

General Membership ZOOM Meeting
Wednesday, May 5, 2021 @ 1930

Tech Saturday Forum
Saturday, May 8, 2021 @ 0900
LIVE & In-Person
Welcome Back

Board of Directors ZOOM Meeting
Wednesday, May 19, 2021 @ 1900

Monday Night 2 Meter Digital Training Net
Every Monday @ 1900

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

Tuesday Morning 2 Meter Rag Chew Net
Every Tuesday @ 1100

Thursday Night 2 Meter Rag Chew Net
Every Thursday @ 2000

147.180 MHz & EchoLink : W2MMD-R

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Tech Saturday Forum
May 8, 2021 @ 0900 Hours
W2MMD Clubhouse
Return To Tech Saturday Open House

Mark your GCARC calendars for the “Return to Tech Saturday Open House” event that’s scheduled for Saturday, May 8, 2021. Weather and COVID permitting the W2MMD Clubhouse will be welcoming GCARC members and visitors back to the first in-person event in more than a year. Milder temperatures should allow gathering comfortably outdoors and the Clubhouse windows and doors will all be open for good ventilation.

- **Come down to connect with old friends**
- **See the many changes that have taken place at the Clubhouse**
- **Watch a few satellite passes (hopefully)**
- **Learn how to operate the remote HF station from John Hill, W2HUV**
- **Participate in a local fox hunt run by Jim Wright, N2GXJ**

Invite your friends from other radio clubs to see what their clubs are missing by not having a well-equipped ham station with massive antenna arrays available to their HOA-limited members. Sign up to participate in Clubhouse projects and other activities over the summer months. But mostly just get ***OUT OF THE HOUSE*** and come down to be with other people.

The Clubhouse will be open at 9 AM; any planned activities such as the fox hunt will start at 10 AM.

Amateur Radio Direction Finding

By Jim Wright, N2GXJ



You might have wondered what all this talk is about "radio fox hunts" that our Club does from time to time. Well, now's a great chance to find out! Outdoors, at our next Tech Saturday, we'll do a demo, and then give you a chance to try it out with your own hand held radio. What a coincidence that this coincides with the CQ worldwide fox hunting weekend!

If you have already participated in one of our fox hunts, great! Please bring the equipment that you use for show and tell! We are a bit more casual about our hunts, than the ones described in this article (<https://www.inverse.com/mind-body/not-sports-amateur-radio-direction-finding>), but still, everyone might find it an interesting read. Thank you Chuck for having passed it along!

See you at Tech Saturday on May 8th at 10:00 AM.



President's Message



Greetings all! Springtime is a busy season at my house, as my wife is an avid gardener, so I often have a long list of chores to do this time of year. But it is equally busy down at the **W2MMD Clubhouse** and **W2MMD HF Station**, where several major improvement projects are coming together nicely. The team of volunteers that has been working on the grounding project has completed most of the work on the HF station, and are on track to have that station up and running by **Saturday, May 8, 2021**, which is the scheduled date for our first **Tech Saturday - Open House**. This and other improvements will make our Club's greatest asset even greater. We are most fortunate to have the W2MMD station for our members to use and enjoy, and I for one am thankful that we have such an able team of volunteers who are working hard to improve and maintain it. As I so often say, it is something that most other clubs can only dream about.

Speaking of improvements, when the HF station comes back on line, we will be upgrading its performance significantly, thanks to the generosity of Club member **John Hill, W2HUV**, who has ordered a new **Elecraft KPA-1500** legal limit amplifier for our use. This will make the already big signal of W2MMD even bigger. Hopefully the production issues that have plagued Elecraft due to fires, the pandemic, and worldwide component shortages, are being resolved, and we will have the amplifier on site soon. This, combined with some scheduled antenna maintenance, should make our HF station a formidable performer in the pile-ups. If DXpeditions resume, and the sunspots cooperate, we could soon be having a lot of fun with our HF station!

Field Day is just around the corner, and much planning and preparation work is already underway. Many of us consider Field Day to be the highlight of the Ham Radio year, and I can say with certainty that it is my favorite event. There is no other 24 hour event that I spend more time planning and preparing for. For example, I am currently in the process of building a 2 element beam for 20 meters, with full size elements, that is specifically designed and optimized for Field Day use. Everything from the way the antenna assembles and disassembles, to the computer-modeled tuning and performance, has been done with Field Day in mind. I am looking forward to putting the antenna on the air on June 26th and making lots of contacts for W2MMD, and I hope that you can join me. If you have been missing out on the fun at Field Day, it is time to change that. Come out and see what you have been missing!

Our **43rd Annual Hamfest** is scheduled for **Sunday, September 12, 2021**, and much planning and preparation is already being done for that. Many other clubs have cancelled their hamfests, some for a second year in a row, but we are determined for ours to happen as planned, with the proper precautions in place, exactly as we did last year. We were fortunate that the timing of the most severe restrictions being lifted coincided with our September date, and we are hoping for similar good fortune this year. And at this point, the tightening of restrictions on outdoor gatherings is about the only thing that would force us to cancel the event. While a possibility, that is not very likely to happen. We are hoping for a pent-up demand for hamfests to drive our attendance numbers even higher than last year's, and I am confident that we will see at least some improvement to what was, by all of our measures, a very successful event.

President's Message - Continued on page 4

President's Message - Continued from page 3

Also, with many of the indoor restrictions from COVID-19 being eased, we are on schedule to resume our in-person General Membership Meetings at the **Pfeiffer Community Center** in Williamstown. Barring a reversal of this trend, we are shooting for the June meeting to resume our old routine. One aspect of that was traditionally that the June meeting was **Pizza Night**, and we hope to be able to do that again. As such, the May meeting will be another ZOOM meeting, and will be held online. The turnout for the online meetings has been good, but I am really looking forward to an even bigger turnout in June. I am keeping my fingers crossed that we will be able to pull it off. If we can do that, Field Day on June 26th, and the Hamfest on September 12th, I can assure you all that GCARC will have a great summer. Until, enjoy the rest of Spring, and I will see you on ZOOM for the May 5th meeting!

This month, we welcome new Club member, **Russell Guise Sr, KD2WDM**, from Franklinville. Hope to see you at our meetings and at Field Day.

A big Thank You to Club member **Bob Demola, KD2GFL**, for volunteering to cut the grass around the Clubhouse. That area is not cut by the 4-H grass cutter, so we have to maintain it ourselves.

73!
de K3TS



Red Cross/ARES Drill : May 8, 2021
By Karl Frank, W2KBF
Gloucester County ARES Emergency Coordinator

There will be an online meeting on May 3, at which time we will learn what is planned for the May 8 ARES/American Red Cross drill.

If anyone would like to attend this May 3rd online meeting, please contact me for the log-on instructions.

This date conflicts with the GCARC Tech Saturday/Open House on May 8th, so I am not going to advocate one activity over another.

Now here's a thought : once we learn the details of the drill (during the May 3 online meeting) perhaps the GC-ARES crew could plan to send a WinLink message to the Red Cross from the W2MMD Clubhouse during the Open House? That way, GC-ARES members could participate in BOTH activities.



Saturday, May 1, 2021

General Membership ZOOM Meeting

Wednesday, May 5, 2021 @ 1930 Hours

All members will be e-mailed the ZOOM log-in instructions

Welcome New Club Member :

Russell Guise Sr, KD2WDM, who has a Technician Class license and lives in Franklinville, NJ.

We are glad to have you as a member 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 mornings and Thursday nights 2M Rag Chew Nets on our 2M Repeater or EchoLink node : W2MMD-R.

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. 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**

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](mailto:GCARC@MAILMAN.QTH.NET)

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

w2mmd.org



www.facebook.com/W2MMD



twitter.com/w2mmd_garc

Facebook



DA's and DIT's

>>Gary Reed, N2QEE, reports : There was no VE session at the Franklinville Library in April.

>>Darrin Malone, KD2ALQ, reports : There was a VE session on March 27, 2021 at the Vineland OEM. There were 3 candidates with all 3 passing the Technician Class exam :

- Gary Wissen, KD2WDL, of Woolwich
- Russell Guise, KD2WDM, of Franklinville
- Richard Federici, KD2WDN, of Vineland (Father of Club member Marc Federici, KC2VAR)

There was a VE session on April 24, 2021 at the Vineland OEM. There were 4 candidates with all 4 passing the Technician Class exam. Information on this session in the June 2021 CrossTalk.

The VE team is : **Darrin Malone KD2ALQ; Mike Harla N2MHO; Wade Anastor WA2EUX; and Ralph Sangatardo W2HVH.**

Darrin also reports they are planning a class/test for the fall. No dates yet.

>>Mario Tagliaferri, W3CGS, reports : I am in need of help with my Yaesu FT101 EE. On the receive side, I have a carrier imbalance on LSB like a 9 pound carrier. AM and USB are fine. Final tubes may need replacement with no output and may need a slight alignment. Contact : mario.tagliaferri@gmail.com.

>>Condolences to Club member **Dan Tremolini, N2TXG**, for the passing of his mother.

>>Condolences to Club member **Michael Mapes, N3TTB**, for the passing of his father.

>>From www.amateurradio.com, an interesting article titled "Why People Hate FT8" : <https://bit.ly/3tW5Sgp>



2021 Virtual Conference
May 3 - 7, 2021
<https://www.njepa.org>

International Firefighters' Day
May 4th

International Firefighters' Day is observed each year on 4th May. On this date you are invited to remember the past firefighters who have died while serving our community or dedicated their lives to protecting the safety of us all. At the same time, we can show our support and appreciation to the firefighters world wide who continue to protect us so well throughout the year.

On the first Sunday in May at noon please Sound Off in respect of past firefighters.

A red and blue ribbon logo, symbolizing support for firefighters.



Southern NJ Section News : May 2021

Tom Preiser N2XW SNJ Section Manager
n2xw@arrl.org



The weather is starting to warm up and time to get outside. Many clubs are beginning to make Field Day plans. Even though the waiver is in place for this year many are planning on having groups getting together for Field Day. I think it is great that they are doing so, just be careful to take proper precautions. Hopefully by the fall many clubs will be able to meet again.

World Amateur Day seems to have been successful. Many operators reported making quite a few contacts. Many clubs are running their own contests so that members can get to participate in one. One example, is from the [Burlington County Radio Club](#). The Club is participating in the State QSO Party Challenge (<http://stateqsoparty.com>). This is a great way to keep members involved and to get people on the air.

VE Testing is returning in some areas with many people coming out to take exams. There are many new operators taking tests as well as many upgrades. Testing sessions have been very active in Mercer and Ocean Counties.

FCC Issues Enforcement Advisory : Radio Users Again Reminded Not to Use Radios in Crimes

On April 20, the FCC's Enforcement Bureau issued a new [Enforcement Advisory](#), repeating the admonishments contained in a [January Advisory](#) that no licensee or user of the Amateur or Personal Radio Services may use any radio equipment in connection with unlawful activities of any nature.

The Commission specifically cautioned that individuals found to have used radios in connection with any illegal activity are "subject to severe penalties, including significant fines, seizure of the offending equipment, and in some cases, criminal prosecution."

In addition, licensees should be aware that illegal operation in any service or band, including completely outside the amateur allocations, could potentially disqualify a person from holding any FCC license in any service, not just the Amateur Service.

Any amateur observing a suspicious infraction that might be of illegal or criminal nature should report it to their local law enforcement office or the FBI.

2021 Contest University Announces Speaker Line-Up

The 2021 Contest University ([CTU](#)), held in conjunction with the [Dayton Hamvention®](#) starting at 1300 UTC on May 20, has announced its roster of speakers. The live ZOOM webinar event is free. Registration opens on April 21. Talks will run for 45 minutes followed by a question-and-answer session. [More information](#) is on the CTU website. The 2021 virtual Contest University will be recorded and available on YouTube following the event. - Thanks to CTU Chair Tim Duffy, K3LR

The W1UL Ham Cram Website

www.ham-cram.com

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

Gary WA3SVW and Bob KD2NEC are wrapping up their training series on FLDIGI on Monday, May 3, 2021.

They will start a training series on FT8 on Monday, May 10, 2021.

The third series will be on WINLINK, start date to be determined later. Bob KD2NEC suggests viewing K4REF videos on YouTube for information about WINLINK : <https://www.youtube.com/user/K4REF/videos>

Below are some FT8 YouTube videos suggested by Steve W2SEF :

Getting started with FT8 : <https://youtu.be/XkoQ9FD5KX8>

Playing on FT8 and WSPR HF Digital Modes : <https://youtu.be/EimvUVWsGI4>

FT8 Intro & Tutorial : <https://youtu.be/ZmXQs17Mi5I>

15 Things I've Learned About FT8 : <https://youtu.be/BcInFASJUd4>

Tuesday Morning 2M Rag Chew Net
1100 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



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

Mary Delemarre, W2TDS : May 6, 2021

Steve Farney, W2SEF : May 13, 2021

Gary Mirkin, WA3SVW : May 20, 2021

Jeff Garth, WB2ZBN : May 27, 2021

Greg Ciraula, W5DO : June 3, 2021

Mary Delemarre, W2TDS : June 10, 2021

Steve Farney, W2SEF : June 17, 2021

Gary Mirkin, WA3SVW : June 24, 2021

Jeff Garth, WB2ZBN : July 1, 2021

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

Regional (Atlantic & Hudson Divisions) Hamfests & Events

May 30, 2021 : Maryland FM Association, Memorial Day Tailgate Hamfest, Howard County Fair Grounds, Route 144, West Friendship, MD. www.marylandfm.org



Armed Forces Cross-Band Test
May 7 - 9, 2021

<http://www.dodmars.org/home/armed-forces-day-2021>



WARC 2021 Hamfest & ARRL EPA Convention
Sunday, May 2, 2021

CANCELLED - Returning In May 2022
www.k3dn.org/hamfest

SPLITROCK



AMATEUR RADIO ASSOCIATION

Splitrock Amateur Radio Association
2021 North Jersey Tailgate Hamfest
Saturday, May 15, 2021
Roxbury Senior Center
Succasunna, NJ
www.splitrockara.org

ARRL SNJ Section Convention and Hamfest

Presented By The



Celebrating Our 62nd Year

www.w2mmd.org

Gloucester
County
Amateur Radio
Club
W2MMD



Open to the public at 8 AM

43rd Annual Hamfest - September 12, 2021

2021 Clubhouse Projects

Shed :

- Clean Out Shed
- Paint Siding
- Install Electrical Wiring
- Install Lights
- Build Ramp
- Secure Roof

Power Washing :

- Trailer Siding
- Back Steps

Painting :

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

Generator :

- Replace/Fix Radiator
- Perform Maintenance

Front Flood Lights :

- Adjust Lights

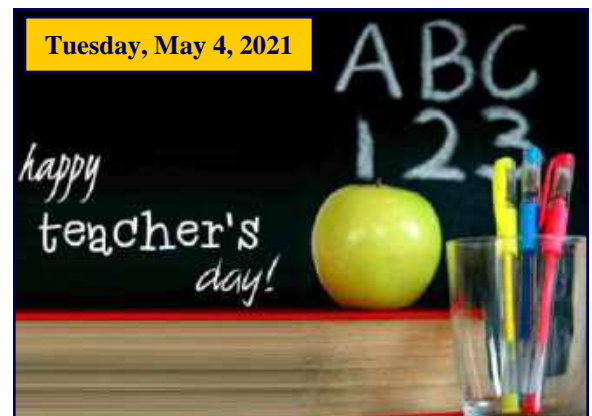
Back Steps :

- Spray Mold
- Power Wash
- Paint

Install New Door & Screen Door

Install New Toilet

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.



Thursday, May 6, 2021

Field Day - June 26 - 27, 2021 Starting Lineup

Band	Operator	Mode
Satellite		Phone
Satellite		CW
Satellite		Digital
70 Centimeters		Phone
70 Centimeters		CW
70 Centimeters		Digital
2 Meters	Herb Dyer, KT2Y	Phone
2 Meters		CW
2 Meters		Digital
6 Meters	Al Arrison, KB2AYU	Phone
6 Meters		CW
6 Meters		Digital
10 Meters		Phone
10 Meters		CW
10 Meters		Digital
15 Meters	Jim Wright, N2GXJ	Phone
15 Meters		CW
15 Meters	Jim Wright, N2GXJ	Digital

Field Day 2021 Band Chart - Continued on page 12

20 Meters	Eric Morris, N2BRJ Harry Elwell, K2ATX	Phone
20 Meters	Tony Starr, K3TS	CW
20 Meters		Digital
40 Meters	Vinnie Sallustio, N4NYY Ken Denson, WB2P Herb Dyer, KT2Y	Phone
40 Meters	Harry Bryant, AA2WN Sheldon Parker, K2MEN Gene Schoeberlein, AA2YO Dennis Sandole, K2SE	CW
40 Meters	Jim Wright, N2GXJ Sheldon Parker, K2MEN	Digital
80 Meters	Jim Clark Sr, KA2OSV	Phone
80 Meters	Tony Starr, K3TS	CW
80 Meters		Digital
160 Meters	Eric Morris, N2BRJ Harry Elwell, K2ATX	Phone
160 Meters		CW
160 Meters		Digital
GOTA (Get On The Air) Station		20 QSOs/20 Points 100 Points Max
Field Day Chairman - Vinnie Sallustio, N4NYY yankees_1996(at)hotmail(dot)com Chart updated as of March 31, 2021		

Field Day - June 26 - 27, 2021

Support Staff and Bonus Points Information

Public Location	Gloucester County 4-H Fairgrounds	100 Bonus Points
Safety Officer Checklist	Herb Dyer, KT2Y	100 Bonus Points
Public Information Table		100 Bonus Points
Culinary Staff	Jeff Garth, WB2ZBN Karl Frank, W2KBF	<i>Priceless !!!</i>
Collect/Submit Electronic Logs	Jim Wright, N2GXJ	50 Bonus Points
Off-Grid Power		100 Points /Transmitter
Main Backup Generator		100 Points /Transmitter
Alternative Power	Herb Dyer, KT2Y	100 Bonus Points
Educational Activity		100 Bonus Points
Field Day Youth Participation		20 Points Bonus 100 Points Max
Media Publicity		100 Bonus Points
Social Media		100 Bonus Points
Message Origination To Section Manager		100 Bonus Points
Copy WIAW Field Day Message		100 Bonus Points
NTS/ICS-213 Message Handling		10 Points/Message 100 Points Max
Site Visit - Invited Elected Official		100 Bonus Points
Site Visit - Invited Served Agency Official		100 Bonus Points
Satellite QSO	GCARC SkunkWorks Team	100 Bonus Points

Field Day Chairman - Vinnie Sallustio, N4NYY
 yankees_1996(at)hotmail(dot)com
 Chart updated as of March 31, 2021

The Saga Of New Albion - Better Known As New Jersey And Environs

By Alex Calabrese, WA2ADS

Part II

And we continue our saga. The Swedes tired of the Delaware Valley, and the Dutch just could not hold off the English. This brings us to Sir Edmund Plowden. Before wriggling a charter from the King of England, he was mostly known for filing lawsuits. As Hal Taylor points out, “he was involved in seventy lawsuits in England, and forty-two in Virginia.” It should be noted that his son inherited his father’s love for litigation. Two guys perfect for New Jersey! So, Plowden gets his charter, but not any old charter. This one was called a County Palatine. Or a kingdom within a kingdom. You heard that right, essentially a fiefdom. It covered $\frac{2}{3}$ of New Jersey, all of Southeastern Pennsylvania, $\frac{1}{2}$ of Delaware, and about $\frac{1}{4}$ of Maryland. And to quote the author, Sir Edmund gave himself the lofty title of “the Right Honorable and Mighty Lord Edmund, by Divine Providence Lord Proprietor, Earl Palatine, Governor and Captain-General, of the Province of New Albion.” Plowden even handed out these kinds of lofty titles to his children, and he started an order of knights known as “The Albion Knights for the Conversion of the Twenty-three Kings.” The seat of power was to be called Watcessit, near present day Salem, NJ.



So, in 1642 The Right Honorable blah, blah, blah decided that it was time to check out the new digs. His wife said, “no way; I am not going!” Sir Edmund threatened her with bodily harm. Understandably, the Archbishop of Canterbury granted her a separation and alimony. So, Plowden and 16 other people set sail and ended up in the Chesapeake Bay where the crew and travelers marooned the Right Honorable and two pages and set sail for the Delaware Bay hoping to find a ship to follow back to England. The mutineers arrive at mosquito-ridden Fort Elfsborg, south of Salem city, excuse me Watcessit, still held by the Swedes. The Swedish Governor just happened to be there and had them thrown in prison. Events get kind of fuzzy here but eventually the guy with the “800-mile-long title”, sans knights, shows up in New Sweden, where the Governor hands him a bill for the English mutineers’ room and board while in the New Sweden lockup. Let’s bring this tale to an end. Sir Edmund and the mutineers get released by the Swedes, head to Virginia, and sail home making stops at New Amsterdam, aka New York, where he antagonized the Dutch then stops off at Boston where he antagonized his fellow Englishmen, then sails home to England where he went home to die in 1659. I’d like to say, “The End”, but it is not. Sir Edmund’s great-great grandson, Francis, gets the County Palatine, aka fancy charter, revived for New Albion. Being a true Plowden he sells it to a lawyer who planned to sue the folks living there for back rent. It did not work out.

So, the next time a police officer in South Jersey pulls you over for looking at your phone while driving, try saying “Sir, you have no authority here. I am a subject of New Albion.” After you are held for 72 hours of observation, you’ll be allowed to go home.

HURRICANE PREPAREDNESS WEEK
MAY 9-15, 2021

- Determine Your Risk.
- Develop An Evacuation Plan.
- Assemble Disaster Supplies.
- Get An Insurance Check.
- Strengthen Your Home.
- Help Your Neighbor.
- Complete A Written Plan.

2021 Atlantic Hurricane Season Names

Ana	Henri	Odette
Bill	Ida	Peter
Claudette	Julian	Rose
Danny	Kate	Sam
Elsa	Larry	Teresa
Fred	Mindy	Victor
Grace	Nicholas	Wanda

W2MMD Clubhouse Grounding Project



Frank N3PUU
Lenny W2LJR
Mike K2MRP
John K2QA
cut the new paneling
for the HF Room

HF Room with the new
paneling installed



W2MMD Clubhouse Grounding Project



HF Room with the new copper grounding strap installed

More pictures on the "W2MMD Clubhouse Grounding Project" web page



March 2021 Volunteer Monitor Program Report

The **Volunteer Monitor (VM) Program** (<http://www.arrl.org/volunteer-monitor-program>) is a joint initiative between ARRL and the FCC to enhance compliance in the Amateur Radio Service.

The FCC delayed action on the renewal application of a General-class licensee in Quakertown, Pennsylvania, in order to review allegations of repeated transmission of obscenities and failure to properly identify.

The Volunteer Monitor Coordinator issued 14 Advisory Notices. An Advisory Notice is an attempt to resolve rule violation issues informally before FCC intervention :

- An Advisory Notice was sent to the owner of a remote amateur station in California, advising him that he is responsible for deliberate interference transmitted by any station over his remote facility.
- An Advisory Notice was sent to a radio amateur in Ripley, Tennessee, regarding deliberate interference and failure to properly identify on 75 meters.
- An Advisory Notice was sent to a radio amateur in Jefferson, Georgia, regarding failure to properly identify on 40 meters.
- Advisory Notices were sent to radio amateurs in Tiburon, Petaluma, and Manteca, California, and Grants Pass, Oregon, concerning interference on 75 meters.

General Advisories were sent to operators in West Virginia, Michigan, Iowa, North Carolina, Pennsylvania, Texas, and Wisconsin concerning operation on 7.200, 3.927, and 3.860 MHz.

A Good Operator Commendation was sent to a husband-and-wife team in Perryopolis, Pennsylvania, recognizing excellent net and 2-meter operations.

VM representatives had two meetings with FCC officials. - Thanks to Riley Hollingsworth, K4ZDH, Volunteer Monitor Program Administrator

Article Credit : The ARRL Letter for April 8, 2021 - www.arrl.org



Jim, AD7UZ, notes that Icom has released a **firmware upgrade for the IC-7300** (https://www.icomjapan.com/support/firmware_driver/3248). His comments about version 1.40: "My initial impression is Icom has done some cool stuff here." Editor notes : A document from Icom describing the changes is **available for download** (<https://www.icomjapan.com/support/manual/2188>). There are even some new/enhanced CAT commands. Make sure to back up your existing settings if you've customized them, because the update will re-initialize all settings. (Jim, AD7UZ, via **WWDXC** (<https://www.wwdxc.org>) email reflector)

Article Credit : The ARRL Contest Update for April 14, 2021 - www.arrl.org



MARS is a Not Always an Obvious Resource in Emergencies

The Military Auxiliary Radio System (MARS) is a US Department of Defense adjunct comprised of radio amateurs that's not always the first resource that comes to mind in an emergency, even within the military. In a recent article (<https://www.afcea.org/content/disruptive-design-ham-radio-c2-denied-and-degraded-environments>) in SIGNAL, US Marine Corps Major Brian Kerg exhorts the brass to more fully exploit amateur radio in general, and MARS in particular, for use in times of distress.

"As future threats continue to evolve, day-to-day communications architectures will become more unreliable in times of crisis," Kerg concludes. "It is imperative that joint communications planners turn to amateurs to remain experts. By building awareness of how to employ MARS and training military radio operators in ham radio technique, leaders will ensure their planners are proactively leveraging the organic amateur communications networks that abound across the globe."

In his article, Kerg - who does not appear to be a radio amateur - attempts to raise the amateur radio consciousness level of military planners who are deciding how to address an emergency. He characterizes ham radio as a robust and readily available communications resource when things go south.

"And they are often every bit the expert as professional military communicators and signalmen. The term 'amateur' refers not to their technical acumen but to the private, non-business use of allocated radio bands by those possessing amateur radio licenses," Kerg points out. He notes that while voice communication may be the most common ham radio mode, operators are skilled at sending and receiving text, images, and data.

With MARS, the Defense Department has a mechanism employing amateur radio operators who can actively support military operations. "Notably, military aircrews remain capable of using MARS phone patches through high-frequency radios when satellite communications are unavailable," he writes.

Kerg says the downside is that the use of MARS "remains a largely unknown or niche capability, one that is usually stumbled upon by planners in the moment of crisis and then poorly implemented." He said awareness of MARS was not helped when the Navy and Marine Corps MARS were shuttered in 2015, leaving only Army and Air Force MARS.

Military planners should focus on raising awareness of MARS and of amateur radio by making it available through training and other activities, Kerg said. Contesting could be a component. "The wide variety of annual amateur radio competitions can further incentivize military operators to improve their amateur radio skills while inevitably improving proficiency in their mission-essential tasks," he wrote.

Kerg currently serves as the fleet amphibious communications officer, US Fleet Forces Command.

Article Credit : The ARRL Letter for April 8, 2021 - www.arrl.org





St. Vincent Radio Amateurs on Alert During Volcano Emergency

Donald de Riggs, J88CD, on the Caribbean island of St. Vincent, says that on April 13, the 42nd anniversary of the 1979 eruption of the La Soufrière volcano, island residents were awakened to another column of volcanic ash creating a thick blanket obscuring part of the eastern sky as the volcano continues to erupt violently.

"Almost all residents in the Red Zone have been evacuated, save for a few diehards who will not move, for reasons unknown," he said.

Since the effusive eruption began last December, local hams have been in a state of readiness via 2-meter networks and regional networks via HF. A 24-hour regional HF network and vigil has been active since violent eruptions resumed earlier this month to provide communication support should telephone service be disrupted by the volcanic hazard. This includes a twice-daily link-up on HF with the Caribbean Disaster Emergency Management Agency (CDEMA - https://www.cdema.org/doccentre/index.php?option=com_content&view=article&id=340&Itemid=170). There is also a 2-meter gateway via EchoLink on the J88AZ node. The other active VHF repeater is the main resource for domestic communications.



Elna Michael, J88NEK, reported strong tremors in Fancy, St. Vincent, before being evacuated from the Red Zone just ahead of the explosive phase

The Grenada repeater, which is linked to St. Lucia and Barbados, is also accessible by hams in Tobago, Trinidad, and St. Vincent and the Grenadines. Frequencies being used for disaster-related communications may include 3.815, 7.188, or 7.162 MHz. Volcanic ash is also falling in Barbados, Dominica, St. Lucia, and Grenada. The La Soufrière volcano on St. Vincent began its most recent series of explosive eruptions on April 9, sending clouds of hot ash some 20,000 feet into the air, blanketing much of the island in ash and causing water and power outages. The volcano is "a constant threat," according to CDEMA. - Thanks to **The Daily DX** (<https://www.dailydx.com>)

Article Credit : The ARRL Letter for April15, 2021 - www.arrl.org



Sunday, May 9, 2021



Hurricane Preparedness Week is May 9-15, 2021

Be ready for hurricane season. Determine your personal hurricane risk, find out if you live in a hurricane evacuation zone, and review/update insurance policies. Make a list of items to replenish hurricane emergency supplies and plan how you will prepare your home. If you live in hurricane-prone areas, you are encouraged to complete these simple preparations (<https://www.weather.gov/wrn/hurricane-preparedness>) before hurricane season begins on June 1. Adjust any preparedness actions based on the latest health and safety guidelines from the CDC (<https://www.cdc.gov/coronavirus/2019-ncov/prevent-getting-sick/prevention.html>) and local health officials.

Now is the time to harden and prepare your station for power outages : have multiple sources of backup power including batteries and gas-powered generators. Test them now. Ensure your ability to take down and put back up antennas quickly and efficiently when storms threaten your area.

Article Credit : The ARES Letter for April 21, 2021 - www.arrl.org

QST de W1AW
ARRL Bulletin 13 ARLB013
From ARRL Headquarters
Newington CT April 21, 2021
To all radio amateurs

SB QST ARL ARLB013 FCC Issues Enforcement Advisory: Radio Users Again Reminded Not to Use Radios in Crimes

On April 20, the FCC's Enforcement Bureau issued a new Enforcement Advisory, repeating the admonishments contained in a January Advisory that no licensee or user of the Amateur or Personal Radio Services may use any radio equipment in connection with unlawful activities of any nature.

The Enforcement Advisory can be found online in PDF format at :
<https://docs.fcc.gov/public/attachments/DA-21-453A1.pdf>.

The Commission specifically cautioned that individuals found to have used radios in connection with any illegal activity are "subject to severe penalties, including significant fines, seizure of the offending equipment, and in some cases, criminal prosecution."

In addition, licensees should be aware that illegal operation in any service or band, including completely outside the amateur allocations, could potentially disqualify a person from holding any FCC license in any service, not just the Amateur Service.

Any amateur observing a suspicious infraction that might be of illegal or criminal nature should report it to their local law enforcement office or the FBI.



May 8 is World Red Cross Day : Participate in Nationwide Spring Drill

The **Red Cross Emergency Communication Training Group** (<http://arc-emcomm-training.org>) is holding its nationwide Spring Drill on World Red Cross Day, May 8. Individuals are invited to participate.



In February 2020, an organizing phone call was held with a dozen Red Cross-affiliated radio amateurs to consider creating a nationwide radio drill. By May, the group had more than 100 people on the team calls, and more than 1,000 participated in that first Spring Drill. Synthesizing lessons-learned from the first event, the managing group simplified and narrowed the focus for a Fall Drill last November, choosing to concentrate on Winlink involvement.

Red Cross forms are built in as templates in Winlink Express, and hams using Winlink can also send messages to non-hams. The group's goal for the Fall Drill was to attract as many hams as possible using Winlink at a basic level. Over 1700 participated from over 40 states and a few foreign countries.

For next month's Spring '21 Drill, the goal is the same, but now the bar will be raised in **Winlink Proficiency** (<https://drive.google.com/file/d/1XDSeT6klm-Mxft1JwxTwpUm3SgkAl6O/view>), and, being World Red Cross Day, more international participation will be solicited. The group has been holding regular Winlink training sessions, with the last one occurring April 8. **Winlink Thursdays** (http://arc-emcomm-training.org/Winlink_Thursdays.html) have been attracting over 500 participants. - ARC Emergency Communications Training Group

Article Credit : The ARES Letter for April 21, 2021 - www.arrl.org



**Armed Forces Day
Saturday, May 15, 2021**



National Hurricane Center's Annual WX4NHC Station Test Is May 29

WX4NHC at the **National Hurricane Center (NHC - <https://www.nhc.noaa.gov>)** in Miami will conduct its annual on-the-air test on Saturday, May 29, 1300 - 2100 UTC. The traditional exercise takes place each year ahead of the Atlantic Hurricane Season, which runs June 1 - November 30. This hurricane season, WX4NHC operators plan to be working remotely again; the NHC will maintain all CDC pandemic protocols until the end of 2021. Only the chief meteorologist and staff may enter the building.



"Last year's season was an incredibly busy one, but the remote WX4NHC operations were successful, collecting many important reports via the Hurricane Watch Net, VoIP Hurricane Net, Winlink, the online hurricane report form, as well as many other means and modes," said WX4NHC Assistant Coordinator Julio Ripoll, WD4R.

Hurricane Preparedness Week is May 9 - 15. Radio amateurs in hurricane-prone areas of the US should have an emergency plan in place before June 1. Now is the time, too, to harden and prepare your station for power outages. This means having multiple sources of back-up power, including batteries and, perhaps, a gas-powered generator. Test them now. Ensure your ability to take down and install antennas quickly and efficiently when storms threaten your area.

Hurricane Season 2021 nets to know include :

- **Hurricane Watch Net (HWN - <https://www.hwn.org>)** on 14.325 and 7.268 MHz
- **Caribbean Emergency Weather Net (CEWN - <http://cewn.dageekz.com>)** on 3.815 and 7.188 MHz
- **Marine Maritime Services Net (MMSN - <https://mmsn.org>)** on 14.300 MHz
- **Intercontinental Net (<http://www.intercontinentalnet.org>)** on 14.300 MHz
- **Salvation Army Team Emergency Radio Network (SATERN)** on 14.260 MHz

Thanks to The ARRL ARES Letter

Article Credit : The ARRL Letter for April 22, 2021 - www.arrl.org



Monday, May 17, 2021

QST de W1AW
ARRL Bulletin 8 ARLB008
From ARRL Headquarters
Newington CT March 24, 2021
To all radio amateurs

SB QST ARL ARLB008 Cooperative Effort Under Way to Resolve Potential 70-Centimeter Interference Issue

ARRL, the FCC, and the US Department of Defense are cooperating in an effort to eliminate the possibility of amateur radio interference on 70 centimeters to critical systems at White Sands Missile Range (WSMR) in New Mexico. The Defense Department's Regional Spectrum Coordinator contacted the FCC in March, seeking information on whom to contact regarding detected amateur transmissions it believed could pose a threat to a critical WSMR system operating on 70 centimeters. The FCC, in turn, asked ARRL to be involved in the discussion and any necessary remedial efforts. It is to be noted that the Amateur Radio Service is a secondary service on the band.

Investigation revealed that the potential problem was not with individual operators or repeaters, but with RF control links at 420 - 430 MHz used to establish a linked repeater system within New Mexico. "Based on the investigation, and with the support of the FCC, the owners of the RF control links being used in the 420 - 430 MHz portion of the amateur allocation within a certain proximity to WSMR are being asked to re-coordinate the link frequency to a new one above 430 MHz," explained ARRL Regulatory Information Manager Dan Henderson, N1ND.

ARRL enlisted the assistance of the state's designated repeater frequency coordinator for information on specific links in that part of the band. New Mexico Repeater Frequency Coordinator Bill Kauffman, W5YEJ, agreed to work with the control link operators to find new frequencies that will meet the needs of the link operators.

"Time is a factor in this request," Henderson said. "The new systems at WSMR are in advanced testing now and will become fully operational by early summer 2021." The FCC-imposed deadline for the affected control links to change frequencies is set for May 31, 2021.

"It appears a total of 32 control links will have to be addressed," Henderson said. ARRL has mailed letters to each of the RF control link operators, based on the recordkeeping of the frequency coordinator, to advise them of the DoD's request as the primary user on the band. "Any links with the potential to affect the identified systems at WSMR still in operation after May 31, 2021 will be subject to action by the FCC."

Henderson said the changes should have no direct impact on the use of any local repeater, but until all the affected RF control links are transitioned to new frequencies, certain links may be temporarily inoperative. Links unable to be relocated by May 31 will have to be shut down until the situation can be resolved. ARRL will be in contact with the FCC after the May 31 deadline to advise it of the status of the remediation effort.

QST de W1AW
ARRL Bulletin 9 ARLB009
From ARRL Headquarters
Newington CT March 26, 2021
To all radio amateurs

ARLB009 NCVEC Question Pool Committee Seeks Input for Updated Technician Question Pool

The National Conference of Volunteer Examiner Coordinators (NCVEC - <http://www.ncvec.org>) Question Pool Committee (QPC - <http://www.ncvec.org/page.php?id=333>) is requesting input from the amateur radio community on new or modified questions for the 2022 - 2026 FCC Element 2 Technician Pool, which goes into effect on July 1, 2022. This may include suggestions for new questions, changes to current examination topic areas, or changes to existing questions in the current Technician Question Pool.

The QPC offered guidelines that said it's seeking input that focuses on topics that enhance public interest, understanding, and use of amateur radio, or focus on STEM hands-on learning and education, as well as questions on new technology, digital modes, station setup and operation, antennas, and emergency and non-emergency operation.

To submit suggested questions for QPC review, the committee asks that questions have no more than two 70-character lines, including spaces. Distracters should be no more than 70-character lines long, and shorter if possible. Each multiple-choice question must be accompanied by four possible distracters and only one correct answer. The answer choices may be in any order, but the correct answer must be indicated by the letters A, B, C, or D at the beginning of the question. Those submitting suggestions should provide the resource information that supports the correct answer or the FCC Part 97 rule.

The QPC will accept question comments, revisions, and submissions from the amateur radio community via email through June 30, 2021. This email address is a bulk forwarding mailbox, so no acknowledgement will be sent by return email. The NCVEC QPC will take all comments into consideration as it updates the Technician Question Pool for 2022 - 2026.

The email address is : QPCinput@ncvec.org.



QST de W1AW
ARRL Bulletin 11 ARLB011
From ARRL Headquarters
Newington CT April 13, 2021
To all radio amateurs

ARLB011 Updated Radio Frequency Exposure Rules Become Effective on May 3

The FCC has announced that rule changes detailed in a lengthy 2019 Report and Order governing RF exposure standards go into effect on May 3, 2021. The new rules do not change existing RF exposure (RFE) limits but do require that stations in all services, including amateur radio, be evaluated against existing limits, unless they are exempted. For stations already in place, that evaluation must be completed by May 3, 2023. After May 3 of this year, any new station, or any existing station modified in a way that's likely to change its RFE profile - such as different antenna or placement or greater power - will need to conduct an evaluation by the date of activation or change.

The Report and Order can be found online in PDF format at :
<https://docs.fcc.gov/public/attachments/FCC-19-126A1.pdf>.

"In the RF Report and Order, the Commission anticipated that few parties would have to conduct reevaluations under the new rules and that such evaluations will be relatively straightforward," the FCC said in an April 2 Public Notice. "It nevertheless adopted a 2-year period for parties to verify and ensure compliance under the new rules."

The Amateur Service is no longer categorically excluded from certain aspects of the rules, as amended, and licensees can no longer avoid performing an exposure assessment simply because they are transmitting below a given power level.

"For most amateurs, the major difference is the removal of the categorical exclusion for amateur radio, which means that ham station owners must determine if they either qualify for an exemption or must perform a routine environmental evaluation," said Greg Lapin, N9GL, chair of the ARRL RF Safety Committee and a member of the FCC Technological Advisory Council (TAC).

"Ham stations previously excluded from performing environmental evaluations will have until May 3, 2023, to perform these. After May 3, 2021, any new stations or those modified in a way that affects RF exposure must comply before being put into service," Lapin said.

The December 2019 RF Report and Order changes the methods that many radio services use to determine and achieve compliance with FCC limits on human exposure to RF electromagnetic fields. The FCC also modified the process for determining whether a particular device or deployment is exempt from a more thorough analysis by replacing a service-specific list of transmitters, facilities, and operations for which evaluation is required with new streamlined formula-based criteria. The R&O also addressed how to perform evaluations where the exemption does not apply, and how to mitigate exposure.

Amateur radio licensees will have to determine whether any existing facilities previously excluded under the old rules now qualify for an exemption under the new rules. Most will, but some may not.

ARLB011 Bulletin - Continued on page 26

"For amateurs, the major difference is the removal of the categorical exclusion," Lapin said, "which means that every ham will be required to perform some sort of calculation, either to determine if they qualify for an exemption or must perform a full-fledged exposure assessment. For hams who previously performed exposure assessments on their stations, there is nothing more to do."

The ARRL Laboratory staff is available to help amateurs to make these determinations and, if needed, perform the necessary calculations to ensure their stations comply. ARRL Laboratory Manager Ed Hare, WIRFI, who helped prepare ARRL's RF Exposure and You book, explained it this way. "The FCC did not change any of the underlying rules applicable to amateur station evaluations," he said. "The sections of the book on how to perform routine station evaluations are still valid and usable, especially the many charts of common antennas at different heights." Hare said ARRL Lab staff also would be available to help amateurs understand the rules and evaluate their stations."

RF Exposure and You is available in PDF format for free download from ARRL at : <http://www.arrl.org/files/file/Technology/RFsafetyCommittee/28RFSafety.pdf>.

ARRL also has an RF Safety page on its website at : <http://www.arrl.org/rf-exposure>.

The ARRL RF Safety Committee is working with the FCC to update the FCC's aids for following human exposure rules - OET Bulletin 65 and OET Bulletin 65 Supplement B for Radio Amateurs. In addition, ARRL is developing tools that all hams can use to perform exposure assessments.



Monday, May 31, 2021

**CQ 160 Meter Contest, SSB
February 26, 2021**

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

Class : Single Op Assisted HP
QTH : NJ
Operating Time (hrs) : 3
Location : USA

Summary :
Total : QSOs : 156 State/Prov : 36 Countries : 1
Total Score : 12,876

Club : Frankford Radio Club 39

Comments :
Rig : FTDX-9000D/Acom 2000A
Antenna : 160m Inverted-L @ 95ft

Thanks for all the QSOs in my limited operation. Very slow rates both nights. Never heard any EU either night, condx generally poor to stateside as well. Struggled to copy many mid-west and southern US stations I can normally hear well. Warming up for ARRL DX SSB next weekend.

73 Darrell AB2E

**ARRL DX Contest, SSB
March 6, 2021**

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

Class : SO Unlimited HP
QTH : SNJ
Operating Time (hrs) : 25
Location : USA

Summary :
Band QSOs Mults

160 :	2	2
80 :	59	33
40 :	85	46
20 :	276	80
15 :	121	38
10 :	17	2

Total : 560 201
Total Score : 337,680

Club : Frankford Radio Club 42

**ARRL DX Contest, SSB
March 6, 2021**

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

Class : SO Unlimited HP
QTH : SNJ
Operating Time (hrs) : 6
Location : USA

Summary :
Band QSOs Mults

160 :	1	1
80 :	42	39
40 :	61	38
20 :	118	62
15 :	29	21

Total : 251 151
Total Score : 113,250

Club : Frankford Radio Club 41

Comments :
Rig : FTDX-9000D/Acom 2000A
Antennas : All wires
160m inverted-L @ 95ft
80m dipole @ 90ft
40m dipole @ 85ft
20m delta loop @ 70ft
10m/15m homebrew fan dipole @ 65ft

Worst band condx I can recall for this contest. Painful.

*Great to see some old friends though,
73 Darrell AB2E*

Comments : *This effort was doomed last week when my logging computer failed and I replaced it with a newer, higher performance machine. Apparently, the new high speed USB ports are susceptible to RFI and other forms of interference. I lost most of the first day due to interruptions and re-boots, interspersed with periods of cursing and troubleshooting. Good thing that I had both ferrite beads and double shielded USB cables in stock. You never know when you will need them.*

By the time I got any momentum going, the already thin DX participation had fallen to dismal levels, thanks to the dreadful propagation conditions. Needless to say, this was not my best effort. All we can do is hope that next year is better. Thanks to all the DX stations who hung in there and gave us contacts in spite of it all. 73

Tony K3TS

ARRL DX Contest, SSB
March 6, 2021

Call : 9A5AET
Operator (s) : W2HUV
Station : 9A5AET

Class : SO Unlimited HP
QTH : Sewell, NJ
Operating Time (hrs) : 28
Location : Southern Europe
Remote operation

Summary :

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

160 :	34	15
80 :	137	25
40 :	260	40
20 :	347	47
15 :	2	2

Total : 780 129
Total Score : 301,473

Club : Frankford Radio Club 43

Comments : 9A/Croatia (9A1TT) is a www.RemoteHamRadio.com station that members may operate remotely. Rig consists of a FLEX-6300 driving an OM2000A+ 1500W amp. 160m antenna is a 31.5m vertical with a top hat and 6 radials elevated 6m. A 4 square is provided for 80m and separate beams are provided for 40, 20, 15 and 10m. W, NW, N and NE beverages are provided for 160, 80 and 40m RX.

This was my first SSB contest operating 9A/Croatia. I used full N1MM+ voicing instead of a microphone. This allowed me to use ESM just like I do for CW contests.

SP DX Contest
April 3, 2021

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

Class : SOABMixed HP
QTH : SNJ
Operating Time (hrs) : 5
Location : USA

Summary :

Band	CW Qs	Ph Qs	Mults
------	-------	-------	-------

80 :	21	1	12
40 :	23	6	13
20 :	65	6	15

CQWW WPX Contest, SSB
March 27, 2021

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

Class : SOAB HP
Class Overlay : TB-Wires
QTH : NJ
Operating Time (hrs) : 8
Location : USA

Summary :

Band	QSOs
------	------

80 :	158
40 :	126
20 :	30
15 :	11

Total : 325 Prefixes : 209
Total Score : 173,470

Club : Frankford Radio Club 44

Comments :

Rig : FTDX-9000D/Acom 2000A
Antennas : All wires
160m inverted-L @ 95ft
80m dipole @ 90ft
40m dipole @ 80ft
20m delta loop @ 65ft
10m/15m homebrew fan dipole @ 50ft

Condx bad here Fri night, a little better Sat night, at least on 75m. 40m was awful both nights, to the point I thought of doing SB80 for a change. Had some time Sun afternoon, made some Qs on 15 and 20m, but had better luck on 40m, especially lots of VEs for 4 points. Picked up some 6 point EU stations late afternoon on 40m. Plan to be much more active in CW WPX end of May!

73 and thanks for the Qs,
Darrell AB2E

Total : 109 13 40
Total Score : 14,640

Club : Frankford Radio Club 48

Comments : *This is always a good contest to operate, if only for a few hours. The Polish hams are good operators and seem to have good ears. Happy Easter to all!*

de K3TS

2019-2023 Element 3 General Class License Question Quiz

This month we finish up **Subelement G5 : Electrical Principles** and start **Subelement G6 : Circuit Components** (Answers on 'Last Page Calendar')

G5C11

What is the inductance of a 20 millihenry inductor connected in series with a 50 millihenry inductor?

- A. 0.07 millihenries
- B. 14.3 millihenries
- C. 70 millihenries
- D. 1000 millihenries

G5C12

What is the capacitance of a 20 microfarad capacitor connected in series with a 50 microfarad capacitor?

- A. 0.07 microfarads
- B. 14.3 microfarads
- C. 70 microfarads
- D. 1000 microfarads

G5C13

Which of the following components should be added to a capacitor to increase the capacitance?

- A. An inductor in series
- B. A resistor in series
- C. A capacitor in parallel
- D. A capacitor in series

G5C14

Which of the following components should be added to an inductor to increase the inductance?

- A. A capacitor in series
- B. A resistor in parallel
- C. An inductor in parallel
- D. An inductor in series

G5C15

What is the total resistance of a 10 ohm, a 20 ohm, and a 50 ohm resistor connected in parallel?

- A. 5.9 ohms
- B. 0.17 ohms
- C. 10000 ohms
- D. 80 ohms

G5C16

Why is the conductor of the primary winding of many voltage step-up transformers larger in diameter than the conductor of the secondary winding?

- A. To improve the coupling between the primary and secondary
- B. To accommodate the higher current of the primary
- C. To prevent parasitic oscillations due to resistive losses in the primary
- D. To ensure that the volume of the primary winding is equal to the volume of the secondary winding

General Class Quiz - Continued on page 30

G5C17

What is the value in nanofarads (nF) of a 22,000 picofarad (pF) capacitor?

- A. 0.22
- B. 2.2
- C. 22
- D. 220

G5C18

What is the value in microfarads of a 4700 nanofarad (nF) capacitor?

- A. 47
- B. 0.47
- C. 47,000
- D. 4.7

G6A01

What is the minimum allowable discharge voltage for maximum life of a standard 12 volt lead-acid battery?

- A. 6 volts
- B. 8.5 volts
- C. 10.5 volts
- D. 12 volts

G6A02

What is an advantage of the low internal resistance of nickel-cadmium batteries?

- A. Long life
- B. High discharge current
- C. High voltage
- D. Rapid recharge

G6A03

What is the approximate junction threshold voltage of a germanium diode?

- A. 0.1 volt
- B. 0.3 volts
- C. 0.7 volts
- D. 1.0 volts

G6A04

Which of the following is an advantage of an electrolytic capacitor?

- A. Tight tolerance
- B. Much less leakage than any other type
- C. High capacitance for a given volume
- D. Inexpensive RF capacitor

ARRL Ham Radio License Exam Practice Website

www.arrlexamreview.appspot.com

Gloucester County Amateur Radio Club

General Membership ZOOM Meeting Minutes

Wednesday, April 7, 2021



Meeting opened @ 1932 Hours via ZOOM by President Tony Starr, K3TS.

Attendance :

- Members : 33
- Visitors : 0

Minutes from the March General Membership Meeting were published previously in the CrossTalk. Charlie KC2STO moved to accept, Jim KA2OSV seconded, and the minutes were approved without modification.

Treasurer : Al KB2AYU reported YTD income of \$3872, mostly from dues. Expenses were \$1563 for a net gain of \$2309. About 30 members have not yet paid and Al KB2AYU has sent individual reminders by email. The Treasurer's Report was accepted by majority vote.

Committees :

Clubhouse : Al KB2AYU noted that water stains previously painted over by Jeff WB2ZBN have re-appeared on the ceiling. He checked the roof above the ceiling, but cannot find the source of the leak. A new air conditioner will be needed for the large room since the old one is not worth repairing. Tony K3TS suggested purchasing one soon before supplies run low during the Summer.

Contests : Tony K3TS participated in the Polish DX contest last weekend and noted propagation was "so-so". A few smaller DX contests are coming up this month including the Florida QSO Party. Vinnie N4NYY said he had 2 new confirmed countries on FT8 : Ghana and Kenya. Vinnie N4NYY is collecting the number of confirmed countries from Club members and will forward this information to Jeff WB2ZBN for publication in the CrossTalk.

Field Day : Vinnie N4NYY acknowledged the letter sent to the 4H by Corresponding Secretary Ron NR2B regarding our need to use all of our space during Field Day Weekend. Vinnie N4NYY said he and Herb KT2Y will mark our area with caution tape on the Wednesday before Field Day and arrange to have the grass cut. Bill NJ2S is repairing the Club's large generator, but Vinnie N4NYY would prefer not to use it because it is very noisy. Instead, he would like to use a few smaller generators and suggested that perhaps the large, noisy 3-phase generator could be sold and the proceeds used to fund the purchase of a quiet inverter generator. This will be discussed at the next BOD meeting. Vinnie N4NYY will take care of inviting dignitaries to visit and in May he will be asking for volunteers to cover activities that earn Bonus Points.

Technical Committee : Jon WB2MNF shared his screen to show progress at the W2MMD Clubhouse including work done by the HF Station Grounding Team (Ron NR2B, Frank N3PUU, Len W2LJR, Sheldon K2MEN, John K2QA, Mike K2MRP, and Jon WB2MNF), reorganization and rack-mounting of SDRs, establishment of an AIS station that reports the position of ships on the Delaware River to aprs.fi, a new dashboard interface for the weather station, GOES station and system monitor, and work done for the new Project Work Area. The SkunkWorks web page has been upgraded by John K2QA, Mike K2MRP, and Jon WB2MNF. The May 8, 2021 Tech Saturday will be a general open house so that Club members can reconnect with each other, view the work accomplished at the station, learn about remote station operation from

April 2021 General Membership Meeting Minutes - Continued on page 32

John W2HUV and participate in a hidden transmitter foxhunt organized by Jim N2GXJ. Jon WB2MNF anticipates that the HF station will be back together by that date.

Old Business : None

New Business : Jeff WB2ZBN reported that a VE session will be held at the Vineland OEM on April 24, 2021 at 9 AM. Interested hams can contact Club member Darrin Malone KD2ALQ to register for the test session. The Club received one application for membership from Russell Guise KD2WDM following the March 27th VE session. Tony K3TS proposed that the first night back at the Pfeiffer Community Center, hopefully in June, can be a Pizza night and would like to know what Club members would think about this. Jim KA2OSV moved that we should order the large air conditioner for the Clubhouse now, and suggested a limit of \$1000. This was seconded by Lee N2LAM and approved by vote. Steve W2SEF said he paid \$700 for a 24,000 BTU unit last year from Home Depot. Dennis K2SE said he had a surplus unit that he is willing to donate. Mike K2MRP noted that whatever unit the Club acquires should fit the existing opening in the wall.

There was no program tonight. Tony K3TS asked Jon WB2MNF what will be happening at the Clubhouse this Saturday. Frank N3PUU will be hanging copper strap and, if time permits, installing protection devices and fiber optic cable. More helpers will be needed in a few weeks when the outdoor work begins.

Club members were reminded of the Tuesday Morning Net on the 2 meter repeater at 11 AM and the Thursday Rag Chew Net at 8 PM. Jim KA2OSV noted the 10 Meter Net has been moved to Tuesday evenings at 8 PM on 28.465 MHz. John W2HUV thanked the Skunkworks Team for their progress with the grounding system and will be placing an order soon with Elecraft for the linear amplifier. This equipment cannot be delivered to John's home so Tony K3TS will work with the BOD to identify a delivery point.

Meeting adjourned at 2029 Hours.

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

An Ode To the Code

In days of old, when ops were bold,
And sideband had not been invented,
Words were passed by pounding brass,
And all were quite contented.

Unknown

Gloucester County Amateur Radio Club Board of Directors ZOOM Meeting Minutes Wednesday, April 21, 2021



Meeting opened @ 1901 Hours via ZOOM by President Tony Starr, K3TS.

Attendance :

- President Tony Starr, K3TS
- Vice President Jeff Welsh, KD2AZI
- Treasurer Al Arrison, KB2AYU
- Recording Secretary Karl Frank, W2KBF
- Corresponding Secretary Ron Block, NR2B
- Director Chuck Colabrese, WA2TML
- Director Jeff Garth, WB2ZBN
- Director Herb Dyer, KT2Y
- Director Jim Clark, KA2OSV
- Director Bill Price, NJ2S
- Director Bob Durham, W2RAD
- Member Jon Pearce, WB2MNF
- Member Steve Farney, W2SEF
- Member Frank Romeo, N3PUU
- Member John Hill, W2HUV
- Member Sheldon Parker, K2MEN

Recording Secretary Karl W2KBF summarized the minutes from the March 17 BOD meeting and these were approved by vote of the attendees.

New Member : Jeff WB2ZBN reported a membership application from Russell Guise Sr, KD2WDM from Franklinville, which was accepted by vote.

Treasurer Report : Al KB2AYU reported YTD income of \$3616, about \$3400 of which was from dues. Expenses were \$1563 for a net gain of \$2053. At this point, 106 members have renewed and 27 member have not. The Treasurer's Report was accepted.

COMMITTEES :

Field Day : Tony K3TS is building a 2-element, full size 20 meter beam for Field Day.

Clubhouse : Al KB2AYU noted there is a big TO DO list in addition to the Grounding Project. The ceiling which shows a water leak remains to be fixed and we need to send pictures to the insurance company once repairs are made. Club member Bob KD2GFL came out with professional mowing equipment and finished mowing grass around the Clubhouse. We will need to ask the 4H if there is a way to locate the water and sewer lines so they will not be damaged when grounding rods are installed. This is a private system using well water, so Harrison Township cannot help out and the pipes are plastic so a metal detector cannot be used. Chuck WA2TML noted the faucet by the paved road could serve as a starting point for tracing the line.

April 2021 Board of Directors Meeting Minutes - Continued on page 34

Technical : Jon WB2MNF reminded everyone that the next Tech Saturday on May 8 will serve as an Open House and asked everyone to spread the word. In view of the many chores that remain to be done at the Clubhouse (e.g. Shed Cleanout, Painting, Step Repair), he proposed that a Work Day be held 2 weeks after each Tech Saturday and suggested there be a signup sheet for these work sessions at Tech Saturdays and online. This idea was well received.

Grounding Project : Jon WB2MNF showed photos of copper grounding strips being installed in the HF room, removal/replacing of desk modesty panels with bracing, installation of AC line protectors and breaker box onto the copper strips, a box of ten grounding protectors for rotators donated by Ron NR2B etc. The next steps will be to mount coax and rotator protectors, shorten coax and rotator cables, reassemble the HF station and then develop and post written instructions for use of the station. In addition, Jon WB2MNF power washed the outside of the Clubhouse (it looks much cleaner now).

Skunkworks Website : Upgraded and looks much nicer.

Hamfest : Sheldon K2MEN expressed some concern over raising the tailgating price this year from \$8 to \$10. Most felt the price was appropriate and Tony K3TS suggested that those registering complaints could be pacified with a coupon, e.g. for a free coffee and donut. Also, there was some concern that publicizing radio swap meets via the GCARC email reflector could harm attendance at our hamfest, but it was decided to continue this in order to promote good will in the Radio Amateur community.

DX and Contests : Tony K3TS said the Florida QSO Party is this weekend.

OLD BUSINESS :

Elecraft Linear Amplifier : John W2HUV has placed the order. This will be shipped as two boxes of approximately 20 and 25 lbs. Ron NR2B agreed to receive this shipment at his home.

Clubhouse Air Conditioner : The unit previously offered by Dennis K2SE is too small, only 8,000 BTU, so the Club must order a larger unit (18,000 BTU). Al KB2AYU will check the dimensions of the opening in the Clubhouse then Tony K3TS will place an order at the Home Depot in Mantua, since he can pick it up from there with his truck.

By-Law Amendment : Ron NR2B reviewed his proposal to have projects funded and approved by the membership to be tracked more closely. Following some discussion and wordsmithing, Ron NR2B will prepare this amendment for presentation and vote at the next General Membership Meeting. Chuck WA2TML asked how many unfinished and/or abandoned "zombie" projects were still around. Nobody knows and Al KB2AYU said it would require going back thru meeting minutes. Tony K3TS said that all approved and on-going projects should continue, including a new door and entry security system.

NEW BUSINESS :

Clubhouse Generator : Bill NJ2S pointed out that the generator was not intended for use during Field Day, but to provide emergency backup power to the Clubhouse. It needs a radiator and Bill NJ2S is looking for one at low cost. Club members have a sufficient number of small, quiet generators for use during Field Day so Tony K3TS tabled any further discussion of selling the generator.

April 2021 Board of Directors Meeting Minutes - Continued on page 35

Meeting adjourned @ 2042 Hours (motion by Jim KA2OSV, seconded by Ron NR2B).

Respectfully submitted,
Karl Frank, W2KBF
Recording Secretary

Club Member DXCC Standing



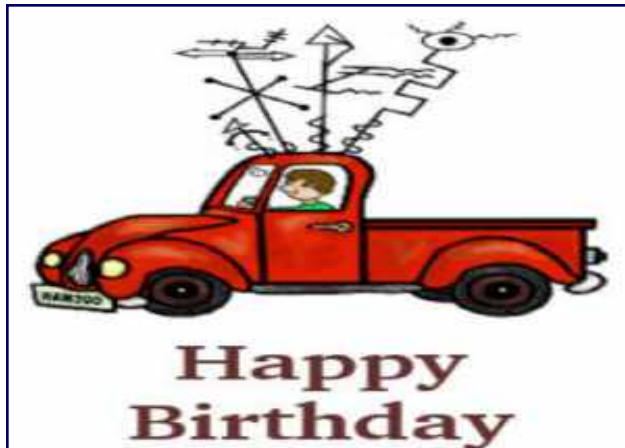
Name/Callsign	DXCC
Bill Grim, W0MHK	352
Dave Strout, W2YC	349
Darrell Neron, AB2E	328
John Hill, W2HUV	252
Ken Denson, WB2P	248
Vinnie Sallustio, N4NYY	220
Tony Starr, K3TS	208
Dennis Sandole, K2SE	204
Jim Wright, N2GXJ	179
Sheldon Parker, K2MEN	161
Eric Morris, N2BRJ	127
Howard Marder, WA2IBZ	120
Christopher Wawak, KC2IEB	120
Phil Nunzio, WA3RGY	116
Chuck Capasso, WB2PGE	103
Curt Myers, K2CWM	71
Jim Clark, KA2OSV	68

Contact Vinnie N4NYY if you would like to be added to the DX HONOR ROLL

May Birthdays

Congratulations to our members who are celebrating their birthday this month

Bob Demola, KD2GFL
Brian Jones, KD2BXD
Bill Jones, KD2FHM
Chuck Capasso, WB2PGE
John Conroy, NZ2H
Holden Correia-Fisher, KD2JPV
Carmen Inverso, WA2TRS
Joe Lee Jr, N2BNJ
Darrell Neron, AB2E (President 2005,2006,2007)
Tony Starr, K3TS (President 2021)



In Memoriam May Birthdays

Silent Keys :

David Allin, N2TVR
Walton Ashton Jr, WB2OYQ
Burris Bauer
Frank DiSanto Jr, N2RHT
Bertha Eggert, WA4BMC
Hyman Friend, KB2GH
Richard Hackett, AA2RK
Edward Leibfarth, WA4AEX
James Montagno, N2WHY
Roy Peterson Jr, K2GHZ

(Club co-founder & Charter Member)

James Scannell Jr, KB2GTT
Joseph Schneider, KB2SVJ
Herbert Telling, N2IZM
Charles Weiler, KA2OSW
Edward Wilson, WA2SXC



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 June 2021 issue : Thursday, May 20, 2021

Club Website www.w2mmd.org

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

May 2021 Contest Calendar

WA7BNM Contest Calendar : www.contestcalendar.com

May 2021

+ Araucaria World Wide VHF Contest	0000Z, May 1 to 1600Z, May 2
+ 10-10 Int. Spring Contest, CW	0001Z, May 1 to 2359Z, May 2
+ RCC Cup	0300Z-0859Z, May 1
+ SBMS 2.3 GHz and Up Contest and Club Challenge	0600 local, May 1 to 2359 local, May 2
+ Microwave Spring Sprint	0800-1400 local, May 1
+ F9AA Cup, Digi	1200Z, May 1 to 1200Z, May 2
+ ARI International DX Contest	1200Z, May 1 to 1159Z, May 2
+ AGCW QRP/QRP Party	1300Z-1900Z, May 1
+ 7th Call Area QSO Party	1300Z, May 1 to 0700Z, May 2
+ Indiana QSO Party	1500Z, May 1 to 0300Z, May 2
+ FISTS Saturday Sprint	1600Z-1800Z, May 1
+ Delaware QSO Party	1700Z, May 1 to 2359Z, May 2
+ New England QSO Party	2000Z, May 1 to 0500Z, May 2 and 1300Z-2400Z, May 2
+ K1USN Slow Speed Test	0000Z-0100Z, May 3
+ OK1WC Memorial	1630Z-1729Z, May 3
+ Worldwide Sideband Activity Contest	0100Z-0159Z, May 4
+ ARS Spartan Sprint	0100Z-0300Z, May 4
+ RTTYOPS Weeksprint	1700Z-1900Z, May 4
+ MIE 33 Contest	2300Z, May 4 to 0300Z, May 5
+ Phone Weekly Test - Fray	0230Z-0300Z, May 5
+ CWops Mini-CWT Test	1300Z-1400Z, May 5
+ VHF-UHF FT8 Activity Contest	1700Z-2000Z, May 5
+ RSGB FT4 Contest Series	1900Z-2030Z, May 5
+ CWops Mini-CWT Test	1900Z-2000Z, May 5
+ CWops Mini-CWT Test	0300Z-0400Z, May 6
+ RTTYOPS Weeksprint	1700Z-1900Z, May 6
+ NRAU 10m Activity Contest	1700Z-1800Z, May 6 (CW) and 1800Z-1900Z, May 6 (SSB) and 1900Z-2000Z, May 6 (FM) and 2000Z-2100Z, May 6 (Dig)
+ SKCC Sprint Europe	1900Z-2100Z, May 6
+ NCCC RTTY Sprint	0145Z-0215Z, May 7
+ NCCC Sprint	0230Z-0300Z, May 7
+ K1USN Slow Speed Test	2000Z-2100Z, May 7
+ SARL VHF/UHF Digital Contest	0500Z-0700Z, May 8 (6m) and 0700Z-0900Z, May 8 (2m) and 0900Z-1100Z, May 8 (70cm) and 0500Z-0700Z, May 9 (6m) and 0700Z-0900Z, May 9 (2m) and 0900Z-1100Z, May 9 (70cm)
+ SKCC Weekend Sprintathon	1200Z, May 8 to 2400Z, May 9
+ CQ-M International DX Contest	1200Z, May 8 to 1159Z, May 9
+ VOLTA WW RTTY Contest	1200Z, May 8 to 1200Z, May 9
+ Arkansas QSO Party	1400Z, May 8 to 0200Z, May 9
+ 50 MHz Spring Sprint	2300Z, May 8 to 0300Z, May 9
+ WAB 7 MHz Phone/CW	1000Z-1400Z, May 9
+ K1USN Slow Speed Test	0000Z-0100Z, May 10
+ 4 States QRP Group Second Sunday Sprint	0000Z-0200Z, May 10
+ OK1WC Memorial	1630Z-1729Z, May 10
+ RSGB 80m Club Championship, SSB	1900Z-2030Z, May 10
+ Worldwide Sideband Activity Contest	0100Z-0159Z, May 11
+ RTTYOPS Weeksprint	1700Z-1900Z, May 11
+ Phone Weekly Test - Fray	0230Z-0300Z, May 12
+ CWops Mini-CWT Test	1300Z-1400Z, May 12

May 2021 Contest Calendar - Continued on page 38

May 2021 Contest Calendar

WA7BNM Contest Calendar : www.contestcalendar.com

May 2021 Contest Calendar - Continued from page 37

+ VHF-UHF FT8 Activity Contest	1700Z-2000Z, May 12
+ CWops Mini-CWT Test	1900Z-2000Z, May 12
+ CWops Mini-CWT Test	0300Z-0400Z, May 13
+ QRP Minimal Art Session	1600Z-2200Z, May 13
+ RTTYOPS Weeksprint	1700Z-1900Z, May 13
+ NCCC RTTY Sprint	0145Z-0215Z, May 14
+ NCCC Sprint	0230Z-0300Z, May 14
+ K1USN Slow Speed Test	2000Z-2100Z, May 14
+ NZART Sangster Shield Contest	0800Z-1100Z, May 15 and 0800Z-1100Z, May 16
+ His Maj. King of Spain Contest, CW	1200Z, May 15 to 1200Z, May 16
+ Feld Hell Sprint	1600Z-1759Z, May 15 and 2000Z-2159Z, May 15
+ FISTS Sunday Sprint	2100Z-2300Z, May 16
+ Run for the Bacon QRP Contest	2300Z, May 16 to 0100Z, May 17
+ K1USN Slow Speed Test	0000Z-0100Z, May 17
+ OK1WC Memorial	1630Z-1729Z, May 17
+ Worldwide Sideband Activity Contest	0100Z-0159Z, May 18
+ RTTYOPS Weeksprint	1700Z-1900Z, May 18
+ Phone Weekly Test - Fray	0230Z-0300Z, May 19
+ CWops Mini-CWT Test	1300Z-1400Z, May 19
+ CWops Mini-CWT Test	1900Z-2000Z, May 19
+ RSGB 80m Club Championship, Data	1900Z-2030Z, May 19
+ NAQCC CW Sprint	0030Z-0230Z, May 20
+ CWops Mini-CWT Test	0300Z-0400Z, May 20
+ RTTYOPS Weeksprint	1700Z-1900Z, May 20
+ NCCC RTTY Sprint	0145Z-0215Z, May 21
+ NCCC Sprint	0230Z-0300Z, May 21
+ Hamvention QSO Party	1200Z-2400Z, May 21
+ K1USN Slow Speed Test	2000Z-2100Z, May 21
+ YOTA Contest	0800Z-1959Z, May 22
+ EU PSK DX Contest	1200Z, May 22 to 1200Z, May 23
+ Baltic Contest	2100Z, May 22 to 0200Z, May 23
+ K1USN Slow Speed Test	0000Z-0100Z, May 24
+ QRP ARCI Hootowl Sprint	0000Z-0100Z, May 24
+ OK1WC Memorial	1630Z-1729Z, May 24
+ Worldwide Sideband Activity Contest	0100Z-0159Z, May 25
+ RTTYOPS Weeksprint	1700Z-1900Z, May 25
+ SKCC Sprint	0000Z-0200Z, May 26
+ Phone Weekly Test - Fray	0230Z-0300Z, May 26
+ CWops Mini-CWT Test	1300Z-1400Z, May 26
+ CWops Mini-CWT Test	1900Z-2000Z, May 26
+ CWops Mini-CWT Test	0300Z-0400Z, May 27
+ RTTYOPS Weeksprint	1700Z-1900Z, May 27
+ RSGB 80m Club Championship, CW	1900Z-2030Z, May 27
+ NCCC RTTY Sprint	0145Z-0215Z, May 28
+ NCCC Sprint	0230Z-0300Z, May 28
+ K1USN Slow Speed Test	2000Z-2100Z, May 28
+ Feld Hell Sprint	0000Z-2359Z, May 29
+ CQ WW WPX Contest, CW	0000Z, May 29 to 2359Z, May 30
+ Day of the YLs Contest	0001Z, May 29 to 2359Z, May 30
+ K1USN Slow Speed Test	0000Z-0100Z, May 31
+ QCX Challenge	1300Z-1400Z, May 31
+ OK1WC Memorial	1630Z-1729Z, May 31
+ QCX Challenge	1900Z-2000Z, May 31

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> GCARC Family Picnic GCARC Foxhunts GC-ARES Emergency Coordinator Holiday Dinner Party 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> Laurie Love, KD2EYW Jim Wright, N2GXJ Karl Frank, W2KBF Jennifer Robinson, KD2EYR 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

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 @ 1945 : 147.180 MHz Repeater

Gloucester County ARES/RACES Net

Sunday @ 2000 : 147.180 MHz Repeater

Monday Night 2 Meter Digital Training Net

Every Monday @ 1900 Hours

Tuesday Morning 2M Rag Chew Net

Every Tuesday @ 1100 Hours

Thursday Night 2M Rag Chew Net

Every Thursday @ 2000 Hours

Monday Night 10M Rag Chew Net

Every Monday @ 2000 Hours

Tune in on 28.465 MHz or 28.475 MHz

Meeting Calendar

General Membership Meeting

Wednesday, May 5, 2021

1930 Hours

ZOOM Meeting

Board of Directors Meeting

Wednesday, May 19, 2021

1900 Hours

ZOOM Meeting

*“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 : G5C11:C; G5C12:B; G5C13:C; G5C14:D; G5C15:A; G5C16:B; G5C17:C;
G5C18:D; G6A01:C; G6A02:B; G6A03:B; G6A04:C