



CrossTalk

Issue 62:02 62 Years Of Service To Our Community February 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 Meeting
 Wednesday, February 3, 2021 @ 1930 Hours
 ZOOM Meeting

Tech Saturday Forum
VE License Testing Session
***** CANCELLED *****

10 Meter Swap Meet
 Saturday, February 13, 2021 @ 2000 Hours
 Tune-In on 28.465 MHz or 28.475 MHz

Board of Directors Meeting
 Wednesday, February 17, 2021 @ 1900 Hours
 ZOOM Meeting

Monday Night 10 Meter Rag Chew Net
 Every Monday @ 2000 Hours
 Tune-In on 28.465 MHz or 28.475 MHz

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

Tuesday Morning 2 Meter Rag Chew Net
 Every Tuesday @ 1100 Hours

147.180 MHz & EchoLink : W2MMD-R

Inside This Issue...

President's Message.....Page 2
Fox Hunt XIX.....Page 3
GCARC In Club Competition.....Page 3
Down Jersey DXingPage 4
February 3rd ZOOM MeetingPage 5
Welcome New Club MembersPage 5
Tech Saturday Forum.....Page 6
DA's & DIT's.....Page 7
SNJ Section NewsPage 8
GOES 16 Solar Eclipse.....Page 10
Regional Hamfest/EventsPage 11
How to install PL-259.....Page 14
QSO Today Virtual Ham ExpoPage 17
ARRL StatementPage 18
FCC Enforcement AdvisoryPage 19
FCC Requires E-Mail Address.....Page 20
FCC Expanding VECsPage 21
AR Application Fee.....Page 22
Element 3 Question Quiz.....Page 27
General Meeting Minutes.....Page 29
BoD Meeting Minutes.....Page 31
February Birthdays.....Page 34
February Contest CalendarPage 35
Last Page Calendar.....Page 38



President's Message



Well we are off to a good start for 2021. January saw two successful online meetings for me, as I tried to figure out just what I am doing, but by the time the second meeting (Board of Directors) rolled around, I realized that I was starting to get the hang of it. And while I may still be a little green at manning the helm, the crew is able and seasoned, so we are in fine shape. We have some great things to do this year, to take the Club in some new and interesting directions, and hopefully we can have a blast just getting there.

The new Technical Committee is off and running, under the direction of **Jon Pearce, WB2MNF**, and is doing exactly what I envisioned it to do, which is overseeing and coordinating the various technical projects that the Club is working on. Big improvements will be made this year to both the VHF/UHF and HF stations, as well as to various infrastructure items like the grounding and power systems. The guys from the "SkunkWorks" have taken responsibility for the VHF/UHF station, and I have a couple of enthusiastic newer members who want to do the same for the HF station, but they will need some help, so if you have the time and/or ability, please contact me via email or phone and get signed up.

We had an unexpected insurance inspection of the Clubhouse, but did get enough short notice to be able to get most of the glaring and obvious infractions that we could find corrected prior to the inspector's arrival. Our most sincere thanks go out to **Charlie Olinda, N2SRQ**, who was able to quickly get us new tagged and certified fire extinguishers for the Clubhouse that were sorely needed to replace the old outdated ones. And he did this at no cost to the Club. It is members like Charlie, and we have a number of them, who make this Club great and make it possible for us to enjoy the amenities we have that most other radio clubs just dream about.

As most of you know, we were forced to raise the dues this year in order to maintain a balanced budget. Our operating expenses rely mostly on dues and the hamfest to be paid, and the expenses have been rising while the revenues have been flat. We were concerned that we might experience a drop off in membership if we raised the dues, but we took a chance because we were bound by the by-laws to do so. Well I am happy to report that new membership applications are rolling in at a refreshing pace. And when you look at all of the benefits of membership in GCARC, there is little wonder why so many have seen the value in that small expense. Rest assured, your dues will be well spent for the benefit of all our members. And you will get a lot more out of the Club than the dues cost you. Thanks to all who have renewed their membership, and to those who have not, please don't forget. March 31st is the deadline to renew your membership dues.

We are hoping to have a Field Day kickoff meeting within the next month or so, and the fact that we were able to pull off a successful FD last year during the height of the pandemic panic provides some real assurance against the kind of uncertainty that we had last year. We now can say, with great confidence, that we will have a Field Day this year, and it will be even better than last year! And last year, it was great, by the way. I for one am looking forward to it. Field Day is THE reason I got my license 45 years ago, and the reason I first joined GCARC. It is still my favorite event of the year. More news to come!

President's Message - Continued on page 3

President's Message - Continued from page 2

I have appointed **Jim Clark, KA2OSV**, to fill the vacant directorship left when **Jeff Welsh, KD2AZI** became Vice President. Just when you thought you were out, we pulled you back in!

That is about all I have for now, so I hope everyone is on the air and making contacts. Propagation will be steadily improving so if you are not on the air, now is the time to get that station operational. If you need any advice or assistance, contact one of our Elmers listed on our website or in this issue of CrossTalk. Hope to see everyone on the next meeting.

Until then 73!
Tony Starr, K3TS

Fox Hunt XIX - Stay-In-Your-Car Winter Fox Hunt

Sunday, February 21, 2021

By Jim Wright, N2GXJ

Sunday, February 21, 2021 is almost here! The fox hunt is scheduled from 1pm to 2pm in the afternoon. You in? It will be fun!

I will send an e-mail on Friday before with more details about where approximately the Fox will be hidden. On Sunday, please check-in on the Club's 2 Meter Repeater or EchoLink W2MMD-R with me by 1pm, so that I know who all is hunting and can talk in anyone who has not made it to the transmitter within the allocated hour. Then I'll turn on the transmitter, and the hunt will be on!



GCARC In Club Competition

By Jim Wright, N2GXJ

On the weekend of January 16-18, 2021, GCARC participated in the ARRL's January VHF/UHF contest as a team as part of the affiliated club competition. Some Club members operated from the Clubhouse under the W2MMD callsign. Others operated from their home stations under their own callsigns for a combined Gloucester Co ARC club score.

Al KB2AYU writes "Great job on the contest (at the Clubhouse) from Frank N3PUU, John K2QA, Mike K2MRP. It was another last minute rush to get everything set up. I certainly wasn't expecting to beat last year's score, which we did by over 10,000 points. Some of those points were from having a new band (1296 MHz)". Home station contributors included Chris KC2IEB, Sheldon K2MEN, Mark KK2L, Bruce KB2LBU, and Jim N2GXJ.

As was the case last year, we'll have to wait until later this year when the ARRL publishes results to see how well we did. Indications so far is that we might have done quite well!

Way to go GCARC!



Down Jersey DXing

February 2021

By Bill Grim, W0MHK

CALL	DATES	HIGHLIGHTS	DIFFICULTY (5=MOST RARE)	DXCC ENTITY
JW/LB2PG	02/01 - 06/01	80-20M/SSB	2	Svalbard
KH9/NL7RR	02/15 - 03/15	40 & 20M/SSB	3	Wake Island
8Q	02/01 - 02/07	Holiday-Style Operation	3	Maldives
5VDE	02/11 - 02/20	Valid Callsign/40 & 20M/FT8	3	Togo
3A	02/24 - 03/02	40-20M/SSB, Digital	2	Monaco
PJ7AA	02/27 - 03/27	80-10M/CW, SSB, FT8	1	Sint Maarten
KL7	02/01 - 02/15	Alaska QSO Party/Multi-Stations	1	Alaska

Credits : NG3K Announce DX Operations : www.ng3k.com/Misc/adxo.html

Down Jersey DX Extra! : To help you finish up Worked All States on different bands and modes, the North County DX Association of Alaska will be hosting at least 2 weeks of activity from various Alaskan Stations the first half of February. Good Hunting!

Entity Of The Month : Wake Island

Wake Island (also known as Wake Atoll) is a coral atoll in the western Pacific Ocean in the northeastern area of the Micronesia subregion, 1,501 miles east of Guam, 2,298 miles west of Honolulu, 1,991 miles southeast of Tokyo, and 898 miles north of Majuro. The island is an unorganized, unincorporated territory belonging to, but not a part of, the United States that is also claimed by the Republic of the Marshall Islands. One of 14 U.S. insular areas, Wake Island is administered by the United States Air Force under an agreement with the U.S. Department of the Interior. The center of activity on the atoll is at Wake Island Airfield, which is primarily used as a mid-Pacific refueling stop for military aircraft and as an emergency landing area. The 9,800-foot runway is the longest strategic runway in the Pacific islands. South of the runway is the Wake Island Launch Center, a missile launch site. On December 8, 1941 (within a few hours of the attack on Pearl Harbor, Wake Island being on the opposite side of the International Date Line), American forces on Wake Island were attacked by Japanese bombers. This action marked the commencement of the Battle of Wake Island. On December 11, 1941, Wake Island was the site of the Japanese Empire's first unsuccessful amphibious attack on U.S. territory in World War II when U.S. Marines, with some U.S. Navy personnel and civilians on the island, repelled an attempted Japanese invasion. The island fell to overwhelming Japanese forces 12 days later and remained occupied by Japanese forces until it was surrendered to the U.S. in September 1945 at the end of the war.



www.wikipedia.org/wiki/Wake_Island

General Membership ZOOM Meeting

Wednesday, February 3, 2021 @ 1930 Hours

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

Welcome New Club Members :

Richard Bobb, W2TUR, who has an Amateur Extra Class license and lives in Port Republic, NJ.

Paul Garber, W2RIF, who has a General Class license and lives in Pine Hill, NJ.

Brian Haines, KD2VDQ, who has a Technician Class license and lives in Penns Grove, NJ.

Gregg Valentine Sr, KD2VBH, who has a Technician Class license and lives in Mullica Hill, NJ.

John "Jay" White III, KD2RPX, who has a General Class license and lives in Marmora, NJ.

Welcome Back Returning Members :

Bob Demola, KD2GFL, who has a Technician Class license and lives in Mullica Hill, NJ.

Bob Derderian, N2IPH, who has a General Class license and lives in Bridgeton, 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 Monday night 10M Rag Chew Net. Also on the Tuesday mornings and Thursday nights 2M Rag Chew Nets on our 2M Repeater or EchoLink node : W2MMD-R.



**KEEP
CALM
AND
RENEW YOUR
MEMBERSHIP**

You Can Pay Your Membership Dues 2 Ways :

- Send your check in to our PO Box 370
- Pay your dues using our PayPal Checkout page

Gloucester County Amateur Radio Club
PO Box 370, Pitman, NJ 08071

The membership dues are :

- \$30.00 - Full Membership
- \$15.00 - Family Membership
- \$25.00 - Associate Membership
- \$15.00 - Junior Membership

March 31, 2021 is the deadline to renew your membership

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



Tech Saturday Forum
February 6, 2021 @ 0900 Hours
W2MMD Clubhouse

***** CANCELLED *****

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.

The Tech Saturday Forum is held on the Saturday after the General Membership meeting.

Club Elmers

We are still looking for some more Club Elmers. If you would like 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**

Tuesday Morning 2M Rag Chew Net
1100 Hours
Net Control Operator : Steve Farney, WB2VFJ
147.180 MHz Repeater
EchoLink - W2MMD-R

If you would like to be a control operator for this net, please contact Steve, WB2VFJ

DA's and DIT's

>>**Gary Reed, N2QEE, reports** : There has been no local VE sessions this past month. None of the area VE groups have held any sessions this past month. A session will be held at the end of the month sponsored by the Vineland OEM. With the social distancing requirements they are limited to 13 people in the room. (3 VE's and 10 candidates.) The session is filled and they have a waiting list of 7.

Effective June 29, 2021, amateur radio licenses and candidates must provide the FCC with an email address on all applications. If no email address is included, the FCC may dismiss the application as "defective." This is under a Report and Order in WT Docket 19-212 on " Completing the Transition to Electronic Filing, Licenses and Authorization, and Correspondence in the Wireless Radio Services." Once an email address is provided, the FCC will email a link to an official electronic copy of the license grant. An official copy will also be available at any time by accessing the licensee's password-protected Universal Licensing System (ULS) account. Licensees can log into the ULS License Manager System with their FRN and password at any time and update their FCC record, including adding an email address. Under Section 97.21 of the new rules, a person holding a valid amateur radio station license " must apply to the FCC for a modification of the license grant as necessary to show correct mailing and email address, license name, club name, license trustee name, or license custodian name." For a club or military recreation station license, the application must be presented in a document form to a club station call sign administrator who must submit the information to the FCC in an electronic batch file. Under new section 97.23, each license must show the grantee's correct name, mailing address, and email address. "The email address must be an address where the grantee can receive electronic correspondence," the amended rule will state. " Revocation of the station license or suspension of the operator license may result when correspondence from the FCC is returned as undeliverable because the grantee failed to provide the correct mailing address."

This is from a news feed from the ARRL on 12/31/2020. So all licensee's should update their ULS information in the CORES System with their email address.

73

>>Condolences to **Mario Tagliaferri, W3CGS** and family for the lost of his brother.

>>Congratulations to **Mike Pecorini, K2MRP (ex. KD2RPE)** on his new vanity callsign.

>>**Bob, K0NR**, noted a proposal of 146.58 MHz as a "**North America Adventure Frequency**" (<https://www.k0nr.com/wordpress/2021/01/north-america-adventure-freq>) to be used by 'OTA activities like Parks On The Air, Summits On The Air, and so on. The need for an alternative to 146.52 is driven by a number of factors, including that the calling frequency can be busy with non-'OTA traffic, and that 'OTA traffic can be disruptive to "normal" traffic on 146.52 MHz.

Article Credit : The ARRL Contest Update for January 20, 2021 - www.arrl.org

>>Get well to **Charlie Wahl, KC2STO**, who is home recovering from another DXpedition to the hospital.

>>Get well to **Bob Madara, WA2CB**, who is recovering at a hospital.



Southern NJ Section News : February 2021

Tom Preiser N2XW SNJ Section Manager

n2xw@arrrl.org



As many of you may have heard the FCC has issued a statement regarding the use of Amateur Radio to commit crimes. Here is a synopsis of what they said :

- The Bureau has become aware of discussions on social media platforms suggesting that certain radio services regulated by the Commission may be an alternative to social media platforms for groups to communicate and coordinate future activities. The Bureau recognizes that these services can be used for a wide range of permitted purposes, including speech that is protected under the First Amendment of the U.S. Constitution. Amateur and Personal Radio Services, however, may not be used to commit or facilitate crimes.

At the same time the ARRL has issued a statement on the purpose of Amateur Radio :

ARRL on the Purpose of Amateur Radio

- For over 100 years amateur radio and ARRL - the National Association for Amateur Radio® - have stood for the development of the science and art of communications, public service, and the enhancement of international goodwill. Amateur Radio's long history and service to the public has solidified the well-earned reputation that "Amateur Radio saves lives.
- Amateur Radio Operators, due to their history of public service, their training, and the requirement that they be licensed by the FCC have earned their status as a component of critical communications infrastructure and as a reliable resource "when all else fails." Amateur Radio is about development of communications and responsible public service. Its misuse is inconsistent with its history of service and its statutory charter. ARRL does not support its misuse for purposes inconsistent with these values and purposes.
- These statements were in response to the incidents that occurred in the Capital on January 6th.

HamCation QSO Party Set

Orlando HamCation has announced it will sponsor the HamCation QSO Party over the February 13-14 weekend (UTC), "to create a fun way for amateurs to celebrate the Orlando HamCation experience over the air." The HamCation QSO Party will be a 12-hour event on HamCation weekend. HamCation 2021 was to host the ARRL National Convention, which now will take place in 2022.

"The QSO party will replicate the camaraderie and social experience of attending HamCation and provide a way to have fun on the radio, since HamCation 2021 will not be held due to COVID-19," the HamCation QSO Party Committee said. The HamCation QSO Party will run from 1500 UTC on February 13 until 0300 UTC on February 14. It will be a CW and SSB operating event on 80, 40, 20, 15, and 10 meters. Any station may work any other station. Check <http://www.arrrl.org/news/orlando-hamcation-online-event-and-qso-party-set> for more information.

SNJ Section News - Continued on page 9

QSO Today Virtual Ham Expo Returning in March

The QSO Today Virtual Ham Expo will return March 13 - 14 for a full 48 hours, QSO Today host Eric Guth, 4Z1UG/WA6IGR, announced. Guth said the inaugural QSO Today Expo last August attracted more than 16,000 attendees, and he anticipates that the March 2021 event will be even more successful. Check out <http://www.arrl.org/news/qso-today-virtual-ham-expo-returning-in-march> for more information.

SNJ Traffic Net

Remember to support the SNJ Traffic Net every night at **8:00 PM** on the **Waterford Works Repeater 147.345 MHz - PL.127.3**. Anyone interested in helping out **Steve Bromhead KB2RTZ** on the net please contact him during the net or at : **kb2rtz <at> gmail <dot> com**.

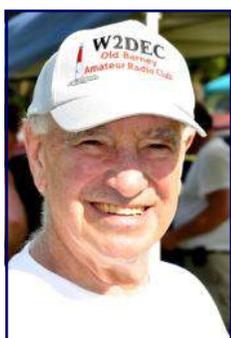
The "7235 Friendly Net"

Congratulations to all the "Friendlies" that made this net a success over the past 5 years. This net is a place for all licensed Amateurs to stop by every morning, grab a cup of coffee, and QSO with their fellow Amateurs. The 7235 Friendly Net has been a tremendous success with many hams joining in from all over the Eastern USA and Canada. Thanks to all the stations that keep it rolling! Please continue to enjoy this great net! The net operates on 7235 kHz, 7 days a week at 0700 to 0800 Hours eastern time. More information at : <https://7235friendlynet.myfreesites.net>.

South Jersey Radio Association Awards

Congratulations to all of the winners of the **SJRA** awards this year! For additional information regarding SJRA Awards, please see their website : www.sjra.org

- Al, N3AVT : VE Team Member Appreciation Award
- Frank, AA2AW : Harry W. Densham Award
- Bob, KE2D : E. Miles Brown Award
- Art, N2CPR : Gordon Kressel Award
- Logan & Elle : SJRA Youth Award
- Holden, KD2JPV : Webmaster Award



Urban A LeJeune, W1UL (W2DEC) SK
December 9, 1932 - January 22, 2021

Radio Matters
By Urb LeJeune, W1UL

www.ham-cram.com



Solar Eclipse As Seen By The GOES 16 Satellite

By Jon Pearce, WB2MNF

December 15, 2020

Here's another one from the GOES station. Yesterday there was a solar eclipse in the southern hemisphere which we all know blocks out the sun as the moon travels in front of it. I saw a report showing NASA footage from the GOES satellite and wanted to see if we could get the same video from the images that we continually download from GOES16 satellite at the clubhouse station. So I downloaded all of the images from yesterday (48 of them - they're taken every half-hour) and viewed each one until I could see the start of the eclipse. I took the next few images and dumped them into an online video-maker and came up with the video below. Watch the black spot crossing South America - that's the eclipse. Another reason why ham radio is such a cool hobby!



Here is the YouTube video link : <https://youtu.be/UODxErYOnTE>

73 de Jon WB2MNF



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 : February 4, 2021
Jeff Garth, WB2ZBN : February 11, 2021
Greg Ciraula, W5DO : February 18, 2021
Mary Delemarre, KD2PLH : February 25, 2021
Steve Farney, WB2VFJ : March 4, 2021
Gary Mirkin, WA3SVW : March 11, 2021
Jeff Garth, WB2ZBN : March 18, 2021
Greg Ciraula, W5DO : March 25, 2021

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

2021 Clubhouse Projects

Shed :

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

Generator :

- Replace/Fix Radiator
- Perform Maintenance

Front Flood Lights :

- Adjust Lights

Power Washing :

- Trailer Siding
- Back Steps

Back Steps :

- Spray Mold
- Power Wash
- Paint

Painting :

- Front Steps
- Power Pole
- Club Sign

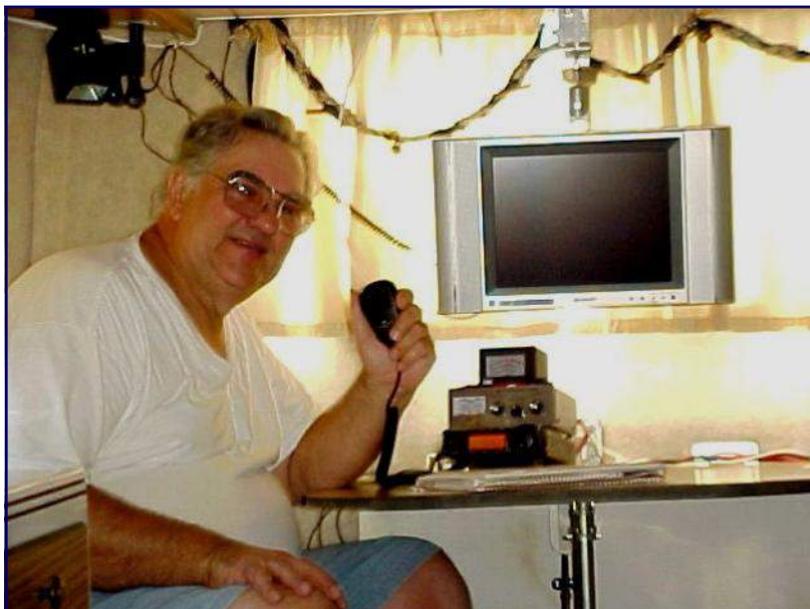
Install New Door & Screen Door

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.



**The Club regrets the passing of Club Member :
Stephen J Blasko Sr, W2TDS SK**



**Steve started in the
Club in 1973**

**The Club regrets the passing of 1987 Club President :
Virginia Martin, N2FJM SK**



**Ginny was a Club member
from 1978 to 1991**

How To PROPERLY Install A PL-259 Connector

By Tony Starr, K3TS

A common disparaging comment among the techno-snobs of ham radio is, "He can't even put on a PL-259". Well guess what? LOTS of people can't put on a PL-259! It seems to be one of ham radio's great mysteries, which has been made even more confusing by those who profess to have come up with a "better way". A case in point is the "K3LR Method". I like Tim Duffy, and he is a great contest operator, but I have to tell you, if you have shield braid sticking out the back of your connector (or anywhere on your connector) you have an improperly installed connector! A properly installed PL-259 should protect that shield braid from exposure to the elements and keep a good connection for years to come.

The very first thing that you must do, in order to get a properly installed PL-259, is to start with a good connector. The gold standard is the Amphenol 83-1SP. The only problem with those is that they are priced like the gold standard! And all of those shiny nickel plated connectors with the phenolic insulation, or worse, polystyrene, from Radio Shack and other stores of that ilk, all had two things in common : They did not take solder worth a darn, and the insulation was not able to handle the heat of the soldering operation. The connectors I will be using for this instructional article are from DX Engineering, and have a silver plated body and sleeve, with Teflon dielectric insulation. These connectors represent good quality at a decent price. Another good source of really good connectors at a decent price is our friend Joel at RF Connection in Maryland. Between these two sources are where I get all of my PL-259 connectors.

The coaxial cable that I use most often is RG-213, from either DX Engineering or HRO. This is the full size coax that is about the size of RG-8, or about 3/8 inch in diameter. The PL-259 is made for this size coax. If you wish to use smaller coax like RG-8x, or RG-58, you will need to use an appropriate adapter. When properly installed on the full size coax, the connector should not turn, slip, or pull out from the jacket of the cable. The end of the cable and the connector should be as one. Take the connector body in your hand and look into the large hole in the back. You will see some coarse threads in there, the ones that the RG-58 type adapters screw into. Those threads are designed to screw onto the PVC or PE jacket of RG-213 size cable. This makes a mechanically secure connection, and helps to keep out moisture and other contaminants.

Notice I said "helps to". A PL-259, unlike a Type N or even a BNC connector, does not contain any seals or gaskets, and is NOT watertight. You should never submerge a PL-259 connector, unless it has been "potted" in some kind of rubber or similar sealant. A properly installed PL-259 will shed water, and keep most rain and other moisture out if simply wrapped in a good electrical tape like Scotch 33 or 88. I have had many PL-259 connectors out in the weather, some for many years, and have never had a failure. If you follow these instructions to the letter, and practice a bit, you should have similar success.

Start with one end of the cable, and using a sharp utility knife, cut off the outer jacket back to at least 1½ inches from the end. Be careful not to nick the shield braid. then cut the shield braid back, until only about half an inch is left showing. Trim any "hairs" that could cause a short. Now cut the dielectric back until only about 1/8 inch of it is showing. Remove it by twisting it clockwise, which will tighten and improve the "lay" of the center conductor. A stranded conductor that is splayed out to where it is wider on the end is said to be "birdcaged". A birdcaged center conductor will not fit easily through the center pin of a PL-259. There is not a lot of extra clearance.

Take a look at Figure 1 on page 16 with the connector next to the prepared cable end. Note the relationship of the length of the prepared portion of the cable end to the connector itself. If you did prep the cable properly, little or no trimming should be needed. Before you start attaching the connector body to the cable, you

How To Properly Install PL-259 - Continued on page 15

must first take the outer sleeve and slide it on to the cable, or you will be cutting off your newly installed connector and tossing it into the trash. Since it is nearly impossible to de-solder one of these connectors, consider them to be non-reusable. Slide the sleeve far up the cable end enough to get it out of your way. Make sure the threads are facing the end of the cable!

Now take the connector and gently slide it over the prepared cable end. Be careful not to disturb the lay of the shield braid. When the connector body reaches the cable jacket, grip it firmly and twist it clockwise until the threads start to bite into the jacket. Keep turning and watch the four holes to make sure the shield is not twisting. Cable with a PVC jacket is much easier to screw the connector onto than cable with a polyethylene jacket. In either case, you may need to use a pair of pliers if you lose your grip on the connector. Try not to damage the connector with the pliers. Keep turning the connector until it "bottoms out". If this happens before the center conductor is extended beyond the end of the center pin, or before the shield braid is visible in the four holes, you may need to unscrew the connector and adjust things by trimming back the dielectric insulation a bit. Ultimately, before you start soldering, you want the connector to look like Figure 2 on page 16. If the center conductor is sticking out too far, trim it now, flush with the end of the pin. Do not solder it and then trim it. This can fracture the solder connection and cause intermittent later, like after your antenna is up in the air. Not good.

In order to solder this connector, you will need a soldering iron with adequate heat. The classic Weller soldering gun is certainly up to the task, even outdoors. On the bench, I use a temperature controlled pencil iron with a chisel tip of about $\frac{1}{8}$ inch, set to at least 800 degrees. Adding a little rosin paste or liquid flux helps a lot, and should be considered a necessary step, even though you may be able to get along without it. I usually start with the center pin while the iron is still heating up because it does not need near as much heat as the shield holes do. Make sure the solder flows back into the pin. This is important. You don't want the only connection to be out on the end of the pin. When you start the shield holes, you may want to put some heat on the connector body and hold it for a while before applying the solder. Getting the body nice and hot will help the solder flow. Keep the iron against the knurled shoulder and away from the threads. If you get solder in those threads now, you will be cursing later!

When soldering the shield holes, you want to flow solder down into, but also up over the top of the holes. The holes should be sealed by the solder. You don't want an open hole for moisture to wick down into and corrode the shield. This solder operation is a little tricky and requires a bit of practice. Don't be afraid to go back and reflow the connection. Again, a bit of rosin flux really helps with this. Be sure to get all four holes sealed. This may require twisting the cable a bit in order to get to the far holes, and will require some way to hold it while you solder. I like to use a drill press vise with two small blocks of wood in it. I have various "electronic assembly vises", but the drill press vice is my go to for this.

When you are finished soldering, clean the excess flux with a small acid brush and some 99% isopropyl alcohol, if you can find it. If not, 91% will do, but avoid the 70% "rubbing alcohol" as it may contain mineral oil. Besides, when was the last time you rubbed anything with alcohol? Just avoid that stuff! When you are done, the connector should be clean, bright and relatively weather resistant (see Figure 3 on page 16). It should also be able to handle legal limit power. It is important that if you plan to install your own connectors, that you learn to do it properly. This is a common failure point that is easy to avoid. I have been out on Field Day and had connectors (not mine!) come off in my hand, because someone just grabbed a junk cable off the pile in the garage and threw it in the car. Why not avoid having "junk cables" in the first place? If you do it right, every cable will be a good reliable and trouble free cable. 73!

How To Properly Install A PL-259 - Continued on page 16

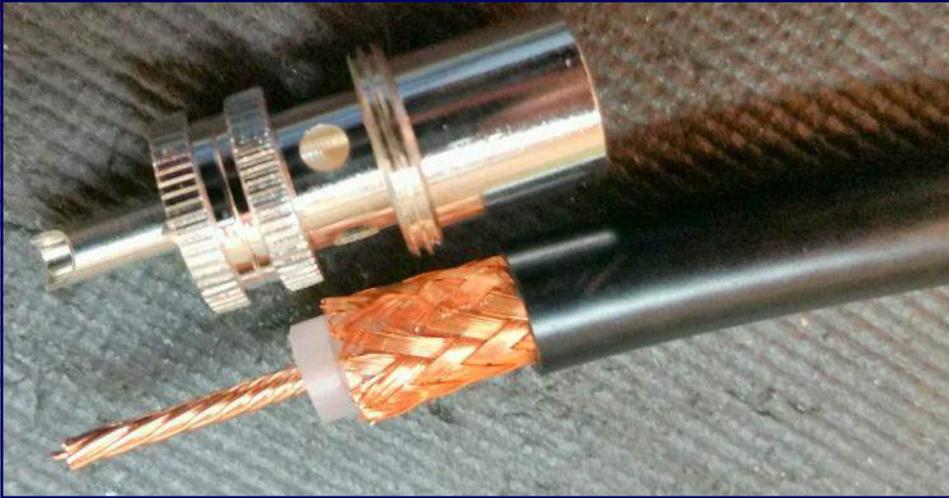


Figure 1



Figure 2

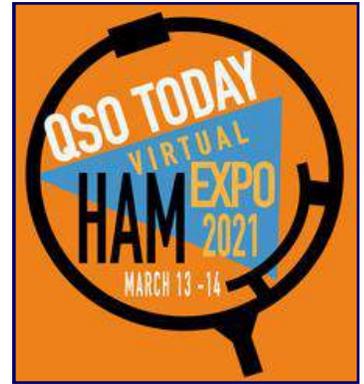


Figure 3



QSO Today Virtual Ham Expo Returning In March

The QSO Today Virtual Ham Expo (<https://www.qsotodayhamexpo.com>) will return March 13 - 14 for a full 48 hours, QSO Today host Eric Guth, 4Z1UG/WA6IGR, announced this week. The ARRL is a QSO Today Expo Partner. Guth said the inaugural QSO Today Expo last August attracted more than 16,000 attendees, and he anticipates that the March 2021 event will be even more successful.



The upcoming QSO Today Virtual Ham Expo will feature new speakers and presenters, panel discussions, and kit-building workshops among other activities. Guth pointed out that attendees can log in from anywhere. While he anticipates a good turnout by those who typically attend such ham radio events, the virtual Expo also offers an opportunity for those concerned about pandemic travel restrictions as well as for those who don't typically attend in-person events.

"At our last Expo, we found that 60% of attendees don't go to in-person national conferences, and 40% don't attend state or local events," Guth said, noting that distance and the high cost of travel and lodging were the most oft-cited reasons.

Registration (<https://www.qsotodayhamexpo.com>) is required, and to help cover the costs of staging this event, there will be a charge to attend. Advance tickets are \$10 (\$12.50 at the "door") and include entry for the live, 2-day show as well to the 30-day on-demand period. At the Expo, visitors can :

- Learn from a line-up of such well-known ham radio personalities as Bob Allphin, K4UEE, on "My Favorite DXpeditions to DXCC Top 10 Most Wanted;" Michael Foerster, W0IH, on "Using the Arduino in Your Shack," and Ron Jones, K7RJ, on "3D Printer Basics."
- Take part in live virtual kit-building workshops. (Kits will be available for purchase and delivered to attendees in time for the Expo.)
- Walk through the virtual exhibit hall to visit an array of amateur radio vendors and see live demonstrations of the latest equipment. This show will leverage newer video technology to provide a better experience for attendees to engage with exhibitors.

Those planning to attend the Expo may take advantage of new speaker calendar technology to create their own calendar of presentations in their time zones, which can be saved to a Google or Outlook calendar.

Registrants may return over the 30 days following the live event to catch speakers and presentations missed during the live period, as well as to explore and re-engage exhibitor offerings.

"The QSO Today Virtual Ham Expo has all of the familiar hallmarks of an in-person hamfest, including opportunities to connect and learn," ARRL Product Development Manager Bob Inderbitzen, NQ1R, said. "Expect to bump into friends and well-known experts and personalities from throughout our worldwide ham radio community!" He explained that attendees visiting an exhibit or virtual lounge will be able to interact with other attendees in those settings.

FlexRadio is the Expo's Platinum Sponsor. Gold sponsors as of this time include Elecraft, RFinder, and CSI.

Article Credit : The ARRL Letter for January 7, 2021 - www.arrl.org



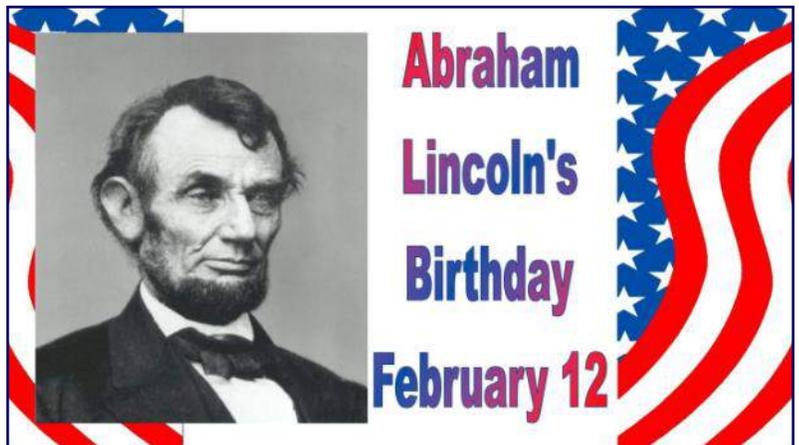
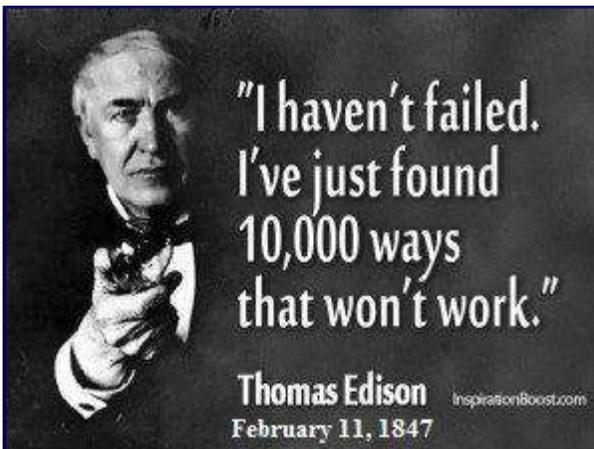
ARRL Statement of the Purpose Of Amateur Radio

For over 100 years amateur radio and ARRL -- the National Association for Amateur Radio® -- have stood for the development of the science and art of communications, public service, and the enhancement of international goodwill. Amateur Radio's long history and service to the public has solidified the well-earned reputation that "Amateur Radio saves lives."

Amateur Radio Operators, due to their history of public service, their training, and the requirement that they be licensed by the FCC have earned their status as a component of critical communications infrastructure and as a reliable resource "when all else fails."

Amateur Radio is about development of communications and responsible public service. Its misuse is inconsistent with its history of service and its statutory charter. ARRL does not support its misuse for purposes inconsistent with these values and purposes.

Article Credit : The ARES Letter for January 20, 2021 - www.arrl.org



Friday, February 12, 2021





Federal Communications Commission
DA 21-73
Released : January 17, 2021

FCC ENFORCEMENT ADVISORY

WARNING : AMATEUR AND PERSONAL RADIO SERVICES LICENSEES AND OPERATORS MAY NOT USE RADIO EQUIPMENT TO COMMIT OR FACILITATE CRIMINAL ACTS

The Enforcement Bureau (Bureau) of the Federal Communications Commission issues this Enforcement Advisory to remind licensees in the Amateur Radio Service, as well as licensees and operators in the Personal Radio Services, that the Commission prohibits the use of radios in those services to commit or facilitate criminal acts.

The Bureau has become aware of discussions on social media platforms suggesting that certain radio services regulated by the Commission may be an alternative to social media platforms for groups to communicate and coordinate future activities. The Bureau recognizes that these services can be used for a wide range of permitted purposes, including speech that is protected under the First Amendment of the U.S. Constitution. Amateur and Personal Radio Services, however, may not be used to commit or facilitate crimes.

Specifically, the Bureau reminds amateur licensees that they are prohibited from transmitting “communications intended to facilitate a criminal act” or “messages encoded for the purpose of obscuring their meaning.” (47 CFR § 97.113(a)(4)). Likewise, individuals operating radios in the Personal Radio Services, a category that includes Citizens Band radios, Family Radio Service walkie-talkies, and General Mobile Radio Service, are prohibited from using those radios “in connection with any activity which is against Federal, State or local law.” (47 CFR § 95.333(a)). Individuals using radios in the Amateur or Personal Radio Services in this manner may be subject to severe penalties, including significant fines, seizure of the offending equipment, and, in some cases, criminal prosecution. (47 U.S.C. §§ 401, 501, 503, 510).

Media inquiries should be directed to 202-418-0500 or MediaRelations@fcc.gov. To file a complaint with the FCC, visit <https://consumercomplaints.fcc.gov> or call 1-888-CALL-FCC. To report a crime, contact your local law enforcement office or the FBI. To request materials in accessible formats for people with disabilities (Braille, large print, electronic files, audio format), send an e-mail to fcc504@fcc.gov or call the Consumer & Governmental Affairs Bureau at (202) 418-0530 (voice), (202) 418-0432 (TTY).

Issued by : Chief, Enforcement Bureau



Sunday, February, 14, 2021

QST de W1AW
ARRL Bulletin 2 ARLB002
From ARRL Headquarters
Newington CT January 4, 2021
To all radio amateurs

SB QST ARL ARLB002 FCC to Require Email Address on Applications Starting on June 29, 2021

Effective on June 29, 2021, amateur radio licensees and candidates must provide the FCC with an email address on all applications. If no email address is included, the FCC may dismiss the application as "defective."

On September 16, the FCC adopted a Report and Order (R&O) in WT Docket 19-212 on "Completing the Transition to Electronic Filing, Licenses and Authorizations, and Correspondence in the Wireless Radio Services." The R&O was published on December 29 in the Federal Register. The FCC has already begun strongly encouraging applicants to provide an email address. Once an email address is provided, the FCC will email a link to an official electronic copy of the license grant. An official copy will also be available at any time by accessing the licensee's password-protected Universal Licensing System (ULS) account.

The R&O is available online in PDF format at :

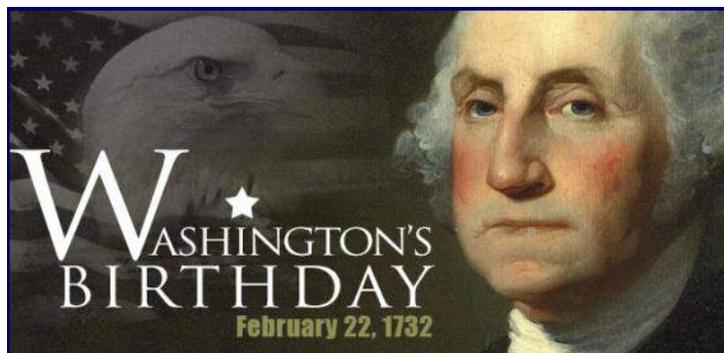
<https://www.fcc.gov/document/fcc-adopts-electronic-licensing-report-and-order>

Licensees can log into the ULS License Manager System with their FRN and password at any time and update anything in their FCC license record, including adding an email address. For questions or password issues, call the CORES/FRN Help Line, (877) 480-3201 (Monday - Friday, 1300 - 2300 UTC) or reset the password on the FCC website.

The only way to refrain from providing an email address on an application would be to submit a request to waive the new rule, providing justification for the request. (The FCC would not be obliged to grant such a request.)

Under Section 97.21 of the new rules, a person holding a valid amateur radio station license "must apply to the FCC for a modification of the license grant as necessary to show the correct mailing and email address, licensee name, club name, license trustee name, or license custodian name." For a club or military recreation station license, the application must be presented in document form to a club station call sign administrator who must submit the information to the FCC in an electronic batch file.

Under new Section 97.23, each license must show the grantee's correct name, mailing address, and email address. "The email address must be an address where the grantee can receive electronic correspondence," the amended rule will state. "Revocation of the station license or suspension of the operator license may result when correspondence from the FCC is returned as undeliverable because the grantee failed to provide the correct email address."



QST de W1AW
ARRL Bulletin 3 ARLB003
From ARRL Headquarters
Newington CT January 8, 2021
To all radio amateurs

FCC Invites Comments on Expanding the Number of Volunteer Examiner Coordinators

In a January 5 Public Notice, the FCC requested comments on whether the current 14 Volunteer Examiner Coordinators (VECs) are sufficient to facilitate the efforts of their accredited Volunteer Examiners (VEs) in administering amateur radio examinations. The ARRL VEC is the largest of the 14 VECs in the US. Comments are due by February 5, and reply comments are due by February 19. After Congress authorized it to do so, the FCC adopted rules in 1983 to allow volunteers to prepare and administer amateur radio examinations, and it established the system of VECs and VEs.

The Public Notice can be found online in PDF format at :
<https://docs.fcc.gov/public/attachments/DA-21-9A1.pdf>

"VECs introduced consistency into the volunteer examiner program by centralizing accreditation of volunteer examiners, coordinating the dates and times for scheduling examinations, and managing the various administrative tasks arising from examinations," the FCC said. Authorized VECs may operate in any of the 13 VEC regions but must service at least one region. The FCC pointed out that some VECs now offer remote examinations.

"The Commission has long maintained 14 VECs and now seeks to consider whether they continue to serve the evolving needs of the amateur community, or whether there are unmet needs that warrant considering expanding the number of VECs."

The FCC Public Notice provided questions for framing comments :

- Are the existing 14 VECs sufficient to coordinate the efforts of Volunteer Examiners in preparing and administering examinations for amateur radio operator licenses, or are additional VECs needed?
- What needs are currently being met, and which needs, if any, are not?
- If the FCC were to allow additional VECs, how many more would be needed to satisfy existing Amateur Radio Service license examination needs? (The FCC indicated that it will likely cap the number of additional VECs at five.)
- Given that VECs use a collaborative process to create examination question pools and volunteer examination administration protocols, would additional VECs enhance or hinder this process?
- How would increasing the number of VECs address the unmet needs, if any, of the amateur radio community, and what obstacles or complications could result from increasing the number of VECs?

Interested parties may file short comments on WT Docket No. 21-2 via the FCC's Electronic Comment Filing Service (Express) at : <https://www.fcc.gov/ecfs/filings/express>.

Visit the FCC's "How to Comment on FCC Proceedings" page for information on filing extended comments at : <https://www.fcc.gov/consumers/guides/how-comment>.

QST de W1AW
ARRL Bulletin 41 ARLB041
From ARRL Headquarters
Newington CT December 31, 2020
To all radio amateurs

SB QST ARL ARLB041 FCC Reduces Proposed Amateur Radio Application Fee to \$35

The FCC has agreed with ARRL and other commenters that its proposed \$50 fee for certain amateur radio applications was "too high to account for the minimal staff involvement in these applications."

In a Report and Order (R&O), released on December 29, the FCC scaled back to \$35 the fee for a new license application, a special temporary authority (STA) request, a rule waiver request, a license renewal application, and a vanity call sign application. All fees are per application. There will be no fee for administrative updates, such as a change of mailing or email address.

The R&O can be found online in PDF format at :
<https://docs.fcc.gov/public/attachments/FCC-20-184A1.pdf>.

This fall, ARRL filed comments in firm opposition to the FCC proposal to impose a \$50 fee on amateur radio license and application fees and urged its members to follow suit.

As the FCC noted in its R&O, although some commenters supported the proposed \$50 fee as reasonable and fair, "ARRL and many individual commenters argued that there was no cost-based justification for application fees in the Amateur Radio Service." The fee proposal was contained in a Notice of Proposed Rulemaking (NPRM) in MD Docket 20-270, which was adopted to implement portions of the "Repack Airwaves Yielding Better Access for Users of Modern Services Act" of 2018 - the so-called "Ray Baum's Act."

Information on Ray Baum's Act can be found online in PDF format at :
<https://www.congress.gov/115/plaws/publ141/PLAW-115publ141.pdf>

"After reviewing the record, including the extensive comments filed by amateur radio licensees and based on our revised analysis of the cost of processing mostly automated processes discussed in our methodology section, we adopt a \$35 application fee, a lower application fee than the Commission proposed in the NPRM for personal licenses, in recognition of the fact that the application process is mostly automated," the FCC said in the R&O. "We adopt the proposal from the NPRM to assess no additional application fee for minor modifications or administrative updates, which also are highly automated."

The FCC said it received more than 197,000 personal license applications in 2019, which includes not only ham radio license applications but commercial radio operator licenses and General Mobile Radio Service (GMRS) licenses.

The FCC turned away the arguments of some commenters that the FCC should exempt amateur radio licensees. The FCC stated that it has no authority to create an exemption "where none presently exists."

The FCC also disagreed with those who argued that amateur radio licensees should be exempt from fees because of their public service contribution during emergencies and disasters.

ARRLB041 Bulletin - Continued on page 23

"We are very much aware of these laudable and important services amateur radio licensees provide to the American public," the FCC said, but noted that specific exemptions provided under Section 8 of the so-called "Ray Baum's Act" requiring the FCC to assess the fees do not apply to amateur radio personal licenses. "Emergency communications, for example, are voluntary and are not required by our rules," the FCC noted. "As we have noted previously, 'while the value of the amateur service to the public as a voluntary noncommercial communications service, particularly with respect to providing emergency communications, is one of the underlying principles of the amateur service, the amateur service is not an emergency radio service.'"

The Act requires that the FCC switch from a Congressionally-mandated fee structure to a cost-based system of assessment. The FCC proposed application fees for a broad range of services that use the FCC's Universal Licensing System (ULS), including the Amateur Radio Service, which had been excluded previously. The 2018 statute excludes the Amateur Service from annual regulatory fees, but not from application fees.

"While the Ray Baum's Act amended Section 9 and retained the regulatory fee exemption for amateur radio station licensees, Congress did not include a comparable exemption among the amendments it made to Section 8 of the Act," the FCC R&O explained.

The effective date of the fee schedule has not been established, but it will be announced at least 30 days in advance. The FCC has directed the Office of Managing Director, in consultation with relevant offices and bureaus, to draft a notice for publication in the Federal Register announcing when rule changes will become effective, "once the relevant databases, guides, and internal procedures have been updated."

Club Member DXCC Standing



Contact Vinnie N4NYY 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	327
John Hill, W2HUV	252
Ken Denson, WB2P	248
Vinnie Sallustio, N4NYY	218
Tony Starr, K3TS	207
Dennis Sandole, K2SE	204
Jim Wright, N2GXJ	179
Sheldon Parker, K2MEN	161
Eric Morris, N2BRJ	127
Phil Nunzio, WA3RGY	116
Howard Marder, WA2IBZ	112
Christopher Wawak, KC2IEB	108
Curt Myers, K2CWM	71
Jim Clark, KA2OSV	68

ARRL 160 Meter Contest
December 4, 2020

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

Class : SO Unlimited HP
QTH : SNJ
Operating Time (hrs) : 8
Location : USA

Summary :

Total : QSOs : 422 Sections : 70 Countries : 7
Total Score : 60,130

Club : Frankford Radio Club 09

Comments : A limited time effort was all I could manage for this one. The band was much quieter here on Friday than it was on Saturday, but unfortunately Friday night was when my available time was the most limited. Managed to get a few good runs in, which surprised me, and I was also surprised at how I did not struggle as much to be heard. The amp did not trip out, and the tuner did not overheat, so apparently the refinements to my Compact 160m Antenna are working well. Thanks to all for the contacts, and hope to work you in the next one. (10 meters?) 73 de K3TS

ARRL 160 Meter Contest
December 4, 2020

Call : 9A/W2HUV
Operator (s) : 9A/W2HUV
Station : 9A/W2HUV

Class : SO Unlimited HP
QTH :
Operating Time (hrs) : 4.73
Location : Southern Europe
Remote Operation

Summary :

Total : QSOs : 23 Sections : 16 Countries : 2
Total Score : 736

Club : 10

Comments :

Band	QSOs	Pts	Sec	Pt/Q
1.8	23	46	16	2.0
Total	23	46	16	2.0

Score : 736
1 Mult = 1.4 Q's

9A/Croatia 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 beverage pointed at NA did a great job of reducing RX noise. However, most NA stations couldn't hear me or had difficulty copying me due to QRM from coastal EU stations (Croatia is too far inland).

Similarly, I couldn't copy most NA stations. In other words, the contest was a bust for me! Propagation was A:2 on Friday night and A:5 on Saturday night. All I heard Saturday night was a few stations that I had already worked. I only made 23 QSOs during 4.73 hours of listening.

ARRL 10 Meter Contest
December 12, 2020

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

Class : SO CW Unlimited HP
QTH : SNJ
Operating Time (hrs) : 5
Location : USA

Summary :

Band	QSOs	Mults
CW :	175	42
SSB :	0	0
Total :	175	42

Total Score : 29,400

Club : Frankford Radio Club 13

Comments : This contest failed to hold my interest much beyond the first half day. I live at the edge of a noisy commercial district, and trying to dig weak signals out of the noise from here is not fun for me or the people calling me. For those that I could hear, thanks for the contacts, and for rest of you, my regrets. Happy holidays to all, and hope to work you all in the NAQP's on January 9th and 16th. 73! de K3TS

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

ARRL 10 Meter Contest
December 12, 2020

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

Class : SO CW Unlimited HP
QTH : SNJ
Operating Time (hrs) : 3.5
Location : USA

Summary :
Band QSOs Mults
CW : 171 33
SSB : 0 0
Total : 171 33
Total Score : 22,572

Club : Frankford Radio Club 12

Comments :

Rig : FTDX-9000D/Acom 2000A
Antenna : 10m/15m homebrew fan dipole @ 60ft

Wow, good thing I got on Fri evening around 0200, otherwise I would have only made a few QSOs. I actually got a nice run going, some mid-west (mostly IL and WI) and FL and a few QSOs south. 140Qs in that first hour. Only DX was a couple XE2s, then on late Sun morning, I worked V51YJ first call, who was S7 and who has been in several contests lately.

I listened several times throughout the day Saturday. Nothing interesting heard, only a few stations CQing that I had already worked. Called CQ a few times with no replies.

73 and all the best, Darrell AB2E

Stew Perry Topband Challenge
December 26, 2020

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

Class : Single Op HP
QTH : SNJ
Operating Time (hrs) : 7.5
Location : USA

Summary :
Total : QSOs : 311 Total Score : 690

Club : Frankford Radio Club 17

CWops Mini-CWT Test, 1300Z
December 23, 2020

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

Class : Single Op HP
QTH : SNJ
Operating Time (hrs) : .25
Location : USA

Summary :
Band QSOs

80 : 17
40 : 5

Total : 22 Mults : 22
Total Score : 484

Club : Frankford Radio Club 15

CWops Mini-CWT Test, 0300Z
December 24, 2020

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

Class : Single Op HP
QTH : SNJ
Operating Time (hrs) : 1
Location : USA

Summary :
Band QSOs

80 : 84

Total : 84 Mults : 84
Total Score : 7,056

Club : Frankford Radio Club 16

Comments : *Down quite a bit from past two weeks and many signals were low. Thanks to those who called in. Merry Christmas to all and 73! de K3TS*

Comments : *While I am not a fan of single-band contests, this one, with its quirky rules, and bizarre scoring, has a certain charm to it, like a nostalgic trip back in time. The only thing missing is the paper dupe sheets. Wait a minute, I better not give them any ideas! Thanks to all for the contacts. 73 and Happy New Year 2021.*

Tony K3TS

2019-2023 Element 3 General Class License Question Quiz

This month we start **Subelement G5 : Electrical Principles** (Answers on 'Last Page Calendar')

G5A01

What is impedance?

- A. The electric charge stored by a capacitor
- B. The inverse of resistance
- C. The opposition to the flow of current in an AC circuit
- D. The force of repulsion between two similar electric fields

G5A02

What is reactance?

- A. Opposition to the flow of direct current caused by resistance
- B. Opposition to the flow of alternating current caused by capacitance or inductance
- C. A property of ideal resistors in AC circuits
- D. A large spark produced at switch contacts when an inductor is de-energized

G5A03

Which of the following causes opposition to the flow of alternating current in an inductor?

- A. Conductance
- B. Reluctance
- C. Admittance
- D. Reactance

G5A04

Which of the following causes opposition to the flow of alternating current in a capacitor?

- A. Conductance
- B. Reluctance
- C. Reactance
- D. Admittance

G5A05

How does an inductor react to AC?

- A. As the frequency of the applied AC increases, the reactance decreases
- B. As the amplitude of the applied AC increases, the reactance increases
- C. As the amplitude of the applied AC increases, the reactance decreases
- D. As the frequency of the applied AC increases, the reactance increases

G5A06

How does a capacitor react to AC?

- A. As the frequency of the applied AC increases, the reactance decreases
- B. As the frequency of the applied AC increases, the reactance increases
- C. As the amplitude of the applied AC increases, the reactance increases
- D. As the amplitude of the applied AC increases, the reactance decreases

General Class Quiz - Continued on page 28

G5A07

What happens when the impedance of an electrical load is equal to the output impedance of a power source, assuming both impedances are resistive?

- A. The source delivers minimum power to the load
- B. The electrical load is shorted
- C. No current can flow through the circuit
- D. The source can deliver maximum power to the load

G5A08

What is one reason to use an impedance matching transformer?

- A. To minimize transmitter power output
- B. To maximize the transfer of power
- C. To reduce power supply ripple
- D. To minimize radiation resistance

G5A09

What unit is used to measure reactance?

- A. Farad
- B. Ohm
- C. Ampere
- D. Siemens

G5A10

Which of the following devices can be used for impedance matching at radio frequencies?

- A. A transformer
- B. A Pi-network
- C. A length of transmission line
- D. All these choices are correct

G5A11

Which of the following describes one method of impedance matching between two AC circuits?

- A. Insert an LC network between the two circuits
- B. Reduce the power output of the first circuit
- C. Increase the power output of the first circuit
- D. Insert a circulator between the two circuits

ARRL Ham Radio License Exam Practice Website
www.arrlexamreview.appspot.com

w2mmd.org



www.facebook.com/W2MMD



twitter.com/w2mmd_gcarc

Facebook



Gloucester County Amateur Radio Club General Membership ZOOM Meeting Minutes Wednesday, January 6, 2021



Meeting opened @ 1931 via ZOOM by President Tony Starr, K3TS.

Attendance : (29) Members

Visitors : Greg Valentine, KD2VBH

The minutes from the last meeting were published in the CrossTalk. There were no corrections. Jim KA2OSV moved to approve the minutes as published, Charlie KC2STO seconded and the motion was approved.

Treasurer's Report : Al KB2AYU reported income of \$571 from dues paid so far and a \$140 expense for rental of the Pfeiffer Community Center, leaving a net increase of \$431. The Treasury records were dropped off to Jim N2GXJ for the required annual audit. A budget meeting will be scheduled shortly. Charlie KC2STO motioned to accept the Treasurer's report, seconded by Charlie N2SRQ, motion carried.

Clubhouse Report : Al KB2AYU reports that the Clubhouse is in good shape with no damage from recent high winds. The Skunkworks team has been busy with projects. The Clubhouse will be used for the VHF Contest on January 16th and 17th with a limited number of persons at one time, due to the Pandemic. Contact Al KB2AYU if you wish to operate from the Clubhouse. Jim N2GXJ asked about preregistering so that scores from GCARC members could be aggregated with the Club score. This can be done by sending an email in advance to Tony K3TS.

Our insurance company wants to inspect the Clubhouse next week and a few things will need to be checked first, including fire extinguishers and exit signs.

John W2HUV noted that sometimes the HF antenna rotator at the Clubhouse cannot be controlled remotely because the rotator controller has been turned off. HF operators are requested to cycle the controller off, then back on before leaving so that remote control is possible. HF operators are also requested to ensure that the Desktop Remote Antenna Switch is in the OFF position to allow automatic antenna selection. Chuck WA2TML asked if there was a list of instructions for operators. John W2HUV said that he had written something up in the past that had been posted. Tony K3TS requested instructions be posted again.

Contests and DX : Tony K3TS noted the upcoming NAQP this weekend for CW and in two weeks for Phone. Also, the VHF contest on January 16th and the CQ 160 Meter CW contest on the 30th. Tony plans to split the Contest and DX Committees into two groups going forward (there is no DX report this month). Also, a Technical Committee will be formed that will coordinate and report on monthly technical developments at the Clubhouse such as Skunkworks activities. Jon WB2MNF was asked to lead this group and he has accepted.

Old Business : John W2HUV asked about grounding systems at the Clubhouse. This will allow for installation of a KW amp. Tony K3TS agreed this needs to be done and will take it up at the next Board of Directors Meeting.

January 2021 General Membership Meeting Minutes - Continued on page 30

New Business : **Vinnie N4NYY** will take over as Field Day Chairman this year and there will be a meeting shortly to begin planning, in particular, how to carry out social distancing.

Jon WB2MNF provided an update of recent **SkunkWorks** and **Technical** activities at the Club including :

- Reception of seven SSTV pictures from the ISS.
- The GOES receiver is operational which has permitted reception of hundreds of MBs of high resolution pictures. **Jon** is working with **John K2QA** to combine these pictures into a video for uploading to Youtube.
- The old 20 element, 2 meter Yagi from the satellite station has been repurposed to receive WE-FAX pictures from SATNOGS and a 16 element 70 cm antenna has been added.
- The “mess” of Raspberry Pi’s and SDRs hiding on the floor and under the operating positions will be moved out of the way to a cabinet by **Jon** and **Frank N3PUU** this weekend.
- They are creating a new work area just outside of the VHF Room that people can use for working on their personal projects. This will be handy for those who do not have work space at home. For more information on **SkunkWorks** and **Technical Committee** activities, contact **Jon** by email (wb2mnf <at> arrl <dot> net).

Curt K2CWM mentioned that past Club President Virginia Martin N2FJM recently became a Silent Key. Also, the Club sent condolences to the family of **Stephen Blasko W2TDS**. **Mary KD2PLH** thanked the Club on behalf of her family for the sympathy card and said that she plans to apply for her father’s call.

Visitors : **Greg KD2VBH** has submitted an application and is participating tonight.

Tony K3TS thanked **Chuck WA2TML** for hosting past ZOOM meetings. **Tony** now has his own ZOOM account that will be used for General Membership Meetings, but **Chuck** will continue to host Board of Directors Meetings.

Mike KD2RPE commented that some Clubs ask members for announcements at the beginning of meetings regarding upgrades, awards etc. and **Tony** agreed that we will do this during future meetings.

Steve WB2VFJ announced a new net that is being held every Tuesday morning @ 1100 Hours on the W2MMD 2 Meter repeater and EchoLink W2MMD-R. He had six participants last time plus one late check in.

Tony K3TS noted that participation had been down on the Monday 10 Meter Net, but hoped it would pick up.

Meeting adjourned @ 2104.

Program : **John Hill, W2HUV**, provided a demonstration of remote operating from a station in Croatia using Remote Ham Radio software.

Respectfully Submitted,
Karl Frank, W2KBF
Recording Secretary

Gloucester County Amateur Radio Club Board of Directors ZOOM Meeting Minutes Wednesday, January 20, 2021



Meeting opened @ 1903 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 Bill Price, NJ2S
- Director Jim Clark, KA2OSV
- Director Bob Durham, W2RAD
- Trustee Jim Wright, N2GXJ
- Member John O'Connell, K2QA
- Member Jon Pearce, WB2MNF
- Member Dan McCormick, KD2TUS
- Member Mike Pecorini, K2MRP

Minutes from last BOD Meeting were approved without change.

Committee Reports :

Treasurer : Alan KB2AYU reported income of \$1653, mostly from dues. Approximately 50 members have paid so far and the Club received a \$75 donation in memory of Stephen Blasko Sr. W2TDS. Pfeiffer Community Center rental of \$140 was paid, for a net gain of \$1513. Report approved by vote.

Audit : Jim N2GXJ provided an audit report to **Tony K3TS**, with the comment that all looks good.

Clubhouse : Alan KB2AYU reported that inspection was performed by our insurance company. No feedback was received, but the inspection appeared to have gone well. **Charlie Olinda N2SRQ** had provided new fire extinguishers. Clubhouse contents are insured for \$8000 but Alan will look into the cost of increasing it to \$15,000 or \$20,000. **Chuck WA2TML** commented that we should make certain that special equipment such as electronics is covered, not just furniture.

Technical : Jon WB2MNF reported that **Ron NR2B** donated coaxial lightning equipment for the VHF room. This needs to be installed. For the HF room, Jon and Ron think that grounding can be accomplished for a lower cost than previously thought, but it will be important to find someone who will take ownership of this project. In other words, it will be a manpower issue, not a cost issue.

January 2021 Board of Directors Meeting Minutes - Continued on page 32

Jon pointed out that the **SkunkWorks Team** tends to be self-financed but will be putting together a budget request for approximately \$1800 that will be presented first to the BOD then, if approved, to the General Membership. This will be for several items including an azimuth rotator for the SATNOGS antenna, rental of a bucket truck for antenna work, building cabinets and creating a work area at the Clubhouse.

Jim N2GXJ commented that members may want to make donations for a specific purpose and asked if this would present a problem for the Treasurer. **Alan** said it would not be a problem. **Ron NR2B** asked if the grounding project had been approved. The answer is that it has not yet been approved, just discussed at the General Meeting.

Fox Hunt : Jim N2GXJ proposed to hold a Winter Fox Hunt on Sunday, February 21, 2021.

Contests : Tony K3TS noted the recent NAQP CW and Phone contests were well attended. The CQ 160 meter contest is coming up on January 30. **Tony** has invited **Bill W0MHK** to take over the DX Committee but has not heard back. **Jeff WB2ZBN** will confirm the correct email address for Bill and forward this to Tony.

OLD BUSINESS :

Tony K3TS noted that grounding at the VHF station was already discussed by **Jon** and is well supported and asked for ideas to get the HF station done. For example, should we look for someone to act as “HF Station Master” in order to organize the HF grounding effort?

Ron NR2B used screen sharing to review the current grounding proposal, which was updated when **John W2HUV** offered to lend a HF amplifier to the Club. The point is that we currently have six independent grounding systems, but these should be tied together in order to create a single ground for the Clubhouse. A perimeter ground would reduce the risk of damage by orders of magnitude. **Ron** already has donated coaxial lightning protectors for the VHF station and copper straps. The VHF room already is undergoing modifications by **Jon** and the **SkunkWorks Team** so this is a good time to upgrade the grounding in the VHF room. The whole grounding project does not have to be done at one time, but can be broken into parts.

Ron pointed out that coaxial surge protectors will need to be purchased for the HF room. **Alan KB2AYU** pointed out that, since electrical outlets are coming from the ceiling, they will need to be replaced with outlets fed from below in order to bond with the new grounding system.

Jon will ask for volunteers to help during the next **General Membership Meeting** and **Tony** said he would not wait, but would send a request for volunteers by email.

NEW BUSINESS

Jim KA2OSV was nominated to fill the open Director position vacated by **Jeff KD2AZI**. **Chuck WA2TML** moved, **Ron NR2B** seconded, motion approved.

The Club is required to keep the grass mowed as a condition of our lease and a Club member who lives in Mullica Hill has offered to do this. Currently, the grass is mowed by someone else who charges \$90 for each mowing. After much discussion, it was decided to maintain the existing relationship with the grass mower but to ask the Club member to help out on special occasions, such as prior to Field Day.

Tony said that **Bill NJ2S** would like to purchase a few \$20 SDR modules for the Clubhouse (but Bill could not be here tonight). These could share a single multiband antenna and be accessed by remote. No decision taken.

Membership Applications : Alan KB2AYU and Jeff WB2ZBN reported :

New Members :

- Richard Bobb, W2TUR, Amateur Extra Class, Port Republic, NJ
- Paul Garber, W2RIF, General Class, Pine Hill, NJ
- Brian Haines, KD2VDQ, Technician Class, Penns Grove, NJ
- Gregg Valentine, KD2VBH, Technician Class, Mullica Hill, NJ
- Jay White III, KD2RPX, General Class, Marmora, NJ

Returning Members :

- Bob Demola, KD2GFL, Technician Class, Mullica Hill, NJ
- Bob Derderian, N2IPH, General Class, Bridgeton, NJ

Motion to approve all applications by **Ron NR2B**, seconded by **Jeff KD2AZI**, motion approved.

One Club member submitted \$100 and applied for a 5-year membership at the old rate of \$20/year. The Club does not provide for multi-year membership so the decision was taken to accept \$30 for a single year renewal and to refund the \$70 balance. Treasurer **Alan KB2AYU** will mention the availability of Lifetime Membership when the refund is issued.

Certificates of Appreciation :

Jim KA2OSV nominated **Bill Price NJ2S** for his many years of service and work as co-chair of the Hamfest and **Chuck WA2TML** and **XYL Irma** for hosting the BOD and General Membership Zoom Meetings at no cost to the Club.

Tony K3TS nominated **Charlie N2SRQ** for donation of the fire extinguishers.

Motion to approve by **Ron NR2B**, seconded by **Jim KA2OSV**, motion carried.

Mike KD2RPE nominated **Frank N3PUU** for all of the work he has put in, most recently for installing exit signs prior to the inspection.

Motion to approve by **Ron NR2B**, seconded by **Jeff KD2AZI**, motion approved.

Motion to close meeting by **Jim KA2OSV**, seconded by **Ron NR2B**, approved.

Meeting adjourned @ 2027 Hours.

Respectfully submitted,
Karl Frank, W2KBF
Recording Secretary

February Birthdays

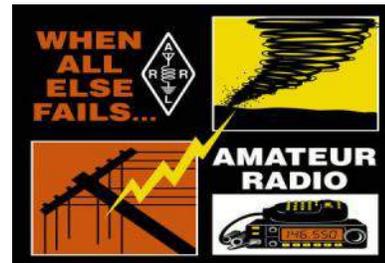
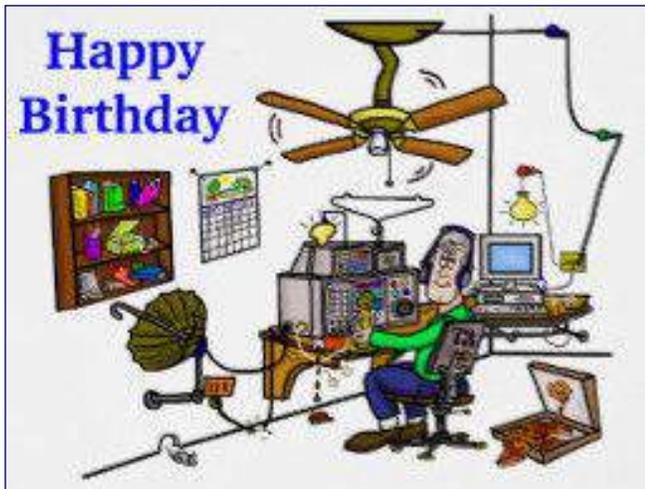
Congratulations to our members who are celebrating their birthday this month

Wayne Ashton, WB2OYQ
Greg Bekes, W9GEB
Todd Cecilio, KA2YNT
Greg Ciraula, W5DO
Chuck Colabrese, WA2TML
Ed De Fonzo, W2DE
Jennifer Robinson, KD2EYR
Vinnie Sallustio, N4NYY
Bill Szkromiuk, W4WCS
Mario Tagliaferri, W3CGS
Christine West, WA2MVU

In Memoriam February Birthdays

Silent Keys :

Philip Bakanowsky, WB2ONS
Barbara Bielecki, N2SBP
Marla Bozarth, N2DWR (President 1992, 1995)
Thomas Cusack, KC2THO
Milton Goldman, K3WIL
(President 1963, Charter Member)
Robert Grimmer Sr, KN2QWO
Richard Harkins, N3RYO
Harry Lauer, N3ISO
William Lewitt, N2NLK
Harold Mathis, NJ2C
Harry McCormick Sr, WA2SEA
George Munns Jr, KB2GW
Richard Munyan Sr, W2RCM
Herbert Schuler, K2HPV (President 1977)
William Uhland, K4IDJ
John Yeager Jr, N2PKF
Alvin Zipkin, KZ2N



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 March 2021 issue : Saturday, February 20, 2021

Club Website www.w2mmd.org

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

February 2021 Contest Calendar

WA7BNM Contest Calendar : www.contestcalendar.com

February 2021

+ K1USN Slow Speed Test	0000Z-0100Z, Feb 1
+ OK1WC Memorial	1630Z-1729Z, Feb 1
+ RSGB 80m Club Championship, SSB	2000Z-2130Z, Feb 1
+ Worldwide Sideband Activity Contest	0100Z-0159Z, Feb 2
+ ARS Spartan Sprint	0200Z-0400Z, Feb 2
+ RTTYOPS Weeksprint	1700Z-1900Z, Feb 2
+ QRP Fox Hunt	0200Z-0330Z, Feb 3
+ Phone Weekly Test - Fray	0230Z-0300Z, Feb 3
+ CWops Mini-CWT Test	1300Z-1400Z, Feb 3
+ VHF-UHF FT8 Activity Contest	1700Z-2000Z, Feb 3
+ CWops Mini-CWT Test	1900Z-2000Z, Feb 3
+ UKEICC 80m Contest	2000Z-2100Z, Feb 3
+ CWops Mini-CWT Test	0300Z-0400Z, Feb 4
+ RTTYOPS Weeksprint	1700Z-1900Z, Feb 4
+ NRAU 10m Activity Contest	1800Z-1900Z, Feb 4 (CW) and 1900Z-2000Z, Feb 4 (SSB) and 2000Z-2100Z, Feb 4 (FM) and 2100Z-2200Z, Feb 4 (Dig)
+ SKCC Sprint Europe	2000Z-2200Z, Feb 4
+ NCCC RTTY Sprint	0145Z-0215Z, Feb 5
+ QRP Fox Hunt	0200Z-0330Z, Feb 5
+ NCCC Sprint Ladder	0230Z-0300Z, Feb 5
+ K1USN Slow Speed Test	2000Z-2100Z, Feb 5
+ Vermont QSO Party	0000Z, Feb 6 to 2400Z, Feb 7
+ 10-10 Int. Winter Contest, SSB	0001Z, Feb 6 to 2359Z, Feb 7
+ EurAsia HF Championship	0800Z-1700Z, Feb 6
+ F9AA Cup, CW	1200Z, Feb 6 to 1200Z, Feb 7
+ Mexico RTTY International Contest	1200Z, Feb 6 to 2359Z, Feb 7
+ FYBO Winter QRP Sprint	1400Z-2400Z, Feb 6
+ Minnesota QSO Party	1400Z-2400Z, Feb 6
+ FISTS Saturday Sprint	1600Z-1800Z, Feb 6
+ British Columbia QSO Party	1600Z, Feb 6 to 0359Z, Feb 7 and 1600Z-2359Z, Feb 7
+ AGCW Straight Key Party	1600Z-1900Z, Feb 6
+ European Union DX Contest	1800Z, Feb 6 to 1800Z, Feb 7
+ North American Sprint, CW	2300Z, Feb 6 to 0300Z, Feb 7
+ K1USN Slow Speed Test	0000Z-0100Z, Feb 8
+ ARRL School Club Roundup	1300Z, Feb 8 to 2359Z, Feb 12
+ OK1WC Memorial	1630Z-1729Z, Feb 8
+ Worldwide Sideband Activity Contest	0100Z-0159Z, Feb 9
+ RTTYOPS Weeksprint	1700Z-1900Z, Feb 9
+ NAQCC CW Sprint	0130Z-0330Z, Feb 10
+ QRP Fox Hunt	0200Z-0330Z, Feb 10
+ Phone Weekly Test - Fray	0230Z-0300Z, Feb 10
+ CWops Mini-CWT Test	1300Z-1400Z, Feb 10
+ VHF-UHF FT8 Activity Contest	1700Z-2000Z, Feb 10
+ CWops Mini-CWT Test	1900Z-2000Z, Feb 10
+ RSGB 80m Club Championship, Data	2000Z-2130Z, Feb 10
+ CWops Mini-CWT Test	0300Z-0400Z, Feb 11
+ RTTYOPS Weeksprint	1700Z-1900Z, Feb 11
+ NCCC RTTY Sprint	0145Z-0215Z, Feb 12
+ QRP Fox Hunt	0200Z-0330Z, Feb 12
+ NCCC Sprint	0230Z-0300Z, Feb 12
+ K1USN Slow Speed Test	2000Z-2100Z, Feb 12
+ CQ WW RTTY WPX Contest	0000Z, Feb 13 to 2359Z, Feb 14
+ SARL Field Day Contest	1000Z, Feb 13 to 1000Z, Feb 14
+ Asia-Pacific Spring Sprint, CW	1100Z-1300Z, Feb 13
+ Dutch PACC Contest	1200Z, Feb 13 to 1200Z, Feb 14
+ KCJ Topband Contest	1200Z, Feb 13 to 2359Z, Feb 14
+ SKCC Weekend Sprintathon	1200Z, Feb 13 to 2400Z, Feb 14
+ YLRL YL-OM Contest	1400Z, Feb 13 to 0200Z, Feb 15

February 2021 Contest Calendar - Continued on page 36

February 2021 Contest Calendar

WA7BNM Contest Calendar : www.contestcalendar.com

February 2021 Contest Calendar - Continued from page 35

+ HamCation QSO Party	1500Z, Feb 13 to 0300Z, Feb 14
+ OMISS QSO Party	1500Z, Feb 13 to 1500Z, Feb 14
+ Feld Hell Sprint	1900Z-2059Z, Feb 13
+ RSGB 1.8 MHz Contest	1900Z-2300Z, Feb 13
+ AWA Amplitude Modulation QSO Party	2300Z, Feb 13 to 2300Z, Feb 14
+ PODXS 070 Club Valentine Sprint	0000Z-2359Z, Feb 14
+ Balkan HF Contest	1300Z-1700Z, Feb 14
+ K1USN Slow Speed Test	0000Z-0100Z, Feb 15
+ 4 States QRP Group Second Sunday Sprint	0100Z-0300Z, Feb 15
+ CQC Winter QSO Party	0100Z-0259Z, Feb 15
+ OK1WC Memorial	1630Z-1729Z, Feb 15
+ RSGB FT4 Contest Series	2000Z-2130Z, Feb 15
+ Worldwide Sideband Activity Contest	0100Z-0159Z, Feb 16
+ RTTYOPS Weeksprint	1700Z-1900Z, Feb 16
+ QRP Fox Hunt	0200Z-0330Z, Feb 17
+ Phone Weekly Test - Fray	0230Z-0300Z, Feb 17
+ CWops Mini-CWT Test	1300Z-1400Z, Feb 17
+ CWops Mini-CWT Test	1900Z-2000Z, Feb 17
+ AGCW Semi-Automatic Key Evening	1900Z-2030Z, Feb 17
+ CWops Mini-CWT Test	0300Z-0400Z, Feb 18
+ RTTYOPS Weeksprint	1700Z-1900Z, Feb 18
+ NCCC RTTY Sprint	0145Z-0215Z, Feb 19
+ QRP Fox Hunt	0200Z-0330Z, Feb 19
+ NCCC Sprint	0230Z-0300Z, Feb 19
+ K1USN Slow Speed Test	2000Z-2100Z, Feb 19
+ ARRL Inter. DX Contest, CW	0000Z, Feb 20 to 2400Z, Feb 21
+ Russian PSK WW Contest	1200Z, Feb 20 to 1159Z, Feb 21
+ FISTS Sunday Sprint	2100Z-2300Z, Feb 21
+ Run for the Bacon QRP Contest	2300Z, Feb 21 to 0100Z, Feb 22
+ K1USN Slow Speed Test	0000Z-0100Z, Feb 22
+ QCX Challenge	1300Z-1400Z, Feb 22
+ OK1WC Memorial	1630Z-1729Z, Feb 22
+ QCX Challenge	1900Z-2000Z, Feb 22
+ Worldwide Sideband Activity Contest	0100Z-0159Z, Feb 23
+ QCX Challenge	0300Z-0400Z, Feb 23
+ RTTYOPS Weeksprint	1700Z-1900Z, Feb 23
+ SKCC Sprint	0000Z-0200Z, Feb 24
+ QRP Fox Hunt	0200Z-0330Z, Feb 24
+ Phone Weekly Test - Fray	0230Z-0300Z, Feb 24
+ CWops Mini-CWT Test	1300Z-1400Z, Feb 24
+ CWops Mini-CWT Test	1900Z-2000Z, Feb 24
+ UKEICC 80m Contest	2000Z-2100Z, Feb 24
+ CWops Mini-CWT Test	0300Z-0400Z, Feb 25
+ RTTYOPS Weeksprint	1700Z-1900Z, Feb 25
+ RSGB 80m Club Championship, CW	2000Z-2130Z, Feb 25
+ NCCC RTTY Sprint	0145Z-0215Z, Feb 26
+ QRP Fox Hunt	0200Z-0330Z, Feb 26
+ NCCC Sprint	0230Z-0300Z, Feb 26
+ K1USN Slow Speed Test	2000Z-2100Z, Feb 26
+ CQ 160-Meter Contest, SSB	2200Z, Feb 26 to 2200Z, Feb 28
+ REF Contest, SSB	0600Z, Feb 27 to 1800Z, Feb 28
+ FTn DX Contest	1200Z, Feb 27 to 1200Z, Feb 28
+ UBA DX Contest, CW	1300Z, Feb 27 to 1300Z, Feb 28
+ South Carolina QSO Party	1500Z, Feb 27 to 0159Z, Feb 28
+ NA Collegiate Championship, RTTY	1800Z, Feb 27 to 0559Z, Feb 28
+ North American QSO Party, RTTY	1800Z, Feb 27 to 0559Z, Feb 28
+ High Speed Club CW Contest	1400Z-1700Z, Feb 28
+ Classic Exchange, CW	1400Z, Feb 28 to 0800Z, Mar 1 and 1400Z, Mar 2 to 0800Z, Mar 3
+ North Carolina QSO Party	1500Z, Feb 28 to 0059Z, Mar 1

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 DX 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 10 Meter Rag Chew Net

Every Monday @ 2000 Hours

Tune-In on 28.465 MHz or 28.475 MHz

Thursday Night 2 Meter Rag Chew Net

Every Thursday @ 2000 Hours

Tuesday Morning 2 Meter Rag Chew Net

Every Tuesday @ 1100 Hours

10 Meter Swap Meet

2nd Saturday of the Month @ 2000 Hours

Check-in on 28.465 MHz or 28.475 MHz

Meeting Calendar

General Membership Meeting
Wednesday, February 3, 2021

1930 Hours

ZOOM Meeting

Board of Directors Meeting
Wednesday, February 17, 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 ”*

- WB2VFJ

***** Badges *****

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

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

Question Pool Answers : G5A01:C; G5A02:B; G5A03:D; G5A04:C; G5A05:D; G5A06:A; G5A07:D;
G5A08:B; G5A09:B; G5A10:D; G5A11:A