

SPARKS

P.O. Box 342768 * Memphis, Tennessee 38134-2768 * Volume 78 * July 2022



Delta Amateur Radio Club (DARC)

Sparks Newsletter

Website: <http://deltaclub.org>

Facebook:

<https://www.facebook.com/darcmem>

W4BS

REPEATER SYSTEM

82 Repeater Down - Delta Club Information
Net on Alternate Repeater 443.700

146.820 ^{-107.2}	* 147.360 ^{+107.2}
146.625 ^{-107.2}	443.200 ^{+107.2}
224.420 ^{-107.2}	443.700 ^{+107.2}
144.390 Digipeater	*Fusion

We plan to meet this month via "ZOOM" only.

This month's meeting begins at 7:00pm on July 12, via ZOOM accessible with the link below.

Program: *"Field Day Recap"* by Mary Jean Hall KY4FB

Please download and import the following iCalendar (.ics) files to your calendar system.

Monthly: https://us02web.zoom.us/meeting/tZwucu2urjopEtwXZSv3qIz8-BT0fyEdv-11/ics?icsToken=98tyKuGgrT4uHNSUsxGPRpw-A4_4LO7ziH5ej7dKpCXWFXNCSxmue8B2YrRmNdzG

Join Zoom Meeting

<https://us02web.zoom.us/j/88354601388?pwd=VlINQ292VGU3Q01IZGI1TFZlXN0Y0dz09>

Meeting ID: 883 5460 1388

Passcode: 041257

One tap mobile

+13017158592,,88354601388#,,,,*041257# US (Washington DC)

+13126266799,,88354601388#,,,,*041257# US (Chicago)

FCC Testing will **NOT** occur Tuesday night.

Announcements

The July Delta Club Member Meeting will be ONLY on Zoom. While a Covid spike from the holiday activities was a concern, the expected temperatures were a key reason why a majority of the board decided to not have an in-person component of the meeting. The expected high for Tuesday, July 12 is 101 degrees, and around 6-7pm it could still be around 99 degrees with a heat index in the triple digits. It's hard to keep houses cool in these extreme temperatures, but it is even harder when there are a few dozen people together in a room with a door frequently opening as everyone arrives. Also, we learned late in the week that the church needs the room for a funeral Tuesday night. We would have had to find an alternate location for the meeting should we have kept the in-person component. We look forward to seeing everyone on Zoom Tuesday night!

The Delta Club is coordinating a bus trip to the Huntsville Hamfest on Saturday, August 20, 2022. The fare is \$95. A spouse or child living at the same address can accompany a full fare rider for \$60. The fare includes the \$15 hamfest entry ticket. There will be two Danver's breakfast biscuits, water, soda, cookies and chips on the bus going to Huntsville, during the day and whatever is left for the trip back. There are no refunds, but you can sell your seat to someone else if you can't go. Let Joe know.

- Cash or checks will be accepted for payment. Make checks payable to Delta Amateur Radio Club. You can send your check to Joe Lowenthal WA4OVO, 6675 Ashbridge Cv, Memphis, TN 38120. Please include your name, callsign, cellphone number, email address and whether you want chicken, ham, sausage or plain biscuits.
- **Reservations will be on a first come first paid basis.**
- The bus will leave at 6:30am from Germantown Baptist Church, 9450 Poplar Avenue at Johnson Road, Germantown, TN. The bus will leave Huntsville immediately after the 4pm main prize drawing and return to Germantown Baptist Church approximately 8pm.
- The Huntsville Hamfest website is www.hamfest.org

The MS Bike Ride will be held in early September 2022. Darrell Sheffield KK4D will again coordinate the ham radio communications for the ride. He has a meeting on July 14th to get the communication requirements. So, stay tuned for more information.

The 82 repeater is down until further notice. The 8:00pm nightly net usually held on 146.82 repeater will be held on the 443.700 repeater +5MHz offset with PL107.2 tone until further notice. The 82 repeater seemed to work correctly when keyed up with the CW and voice ID responding as usual; however, the audio is jumbled when someone tries to make a call. The 82 repeater has a 4:1 high SWR so the repeater has been turned off.

There will not be a YL Net in June and July. During this summer break, all YLs are encouraged to continue checking in to the Delta Club Information Net.

The Delta Club Friday night 8:30pm Four-Forty Net will not be held while the 8pm Delta Club Information Net is on 443.700.

President's Corner
Submitted by Mary Jean Hall, KY4FB

Submitted by Mary Jean Hall KY4FB

This year has flown by! It's hard to believe that Field Day has already wrapped up, and our sights now shift to preparing for the Huntsville Hamfest and other Fall activities.

With the temperatures we have been experiencing across the Midsouth this month, I'm looking forward to the cooler temperatures that are expected with the Fall season. The hot temperatures we've been dealing with certainly put a strain on outdoor activities, as well as traveling to indoor ones. It was one of the reasons why the member meeting will be only on Zoom this month. If you have to be out in the heat, stay hydrated and be on the lookout for signs of heat exhaustion and/or heat stroke.

It was great seeing everyone at Field Day last month! Many contacts were made, and it was good to see such a large turnout considering how hot it was. We will be discussing a recap of Field Day during the program this month. If you have any pictures or videos you'd like to share, it'd be a great time for that. Also, we will gather feedback while it is fresh on everyone's memory, so hopefully we can make sure Field Day 2023 is even better!

One of my favorite parts about Field Day is that four different groups in the Midsouth collaborate to make it happen. We've talked about holding more events with other Amateur Radio clubs in the area to continue to encourage collaboration and camaraderie. In cooperation with some local first responder department(s), we may be able to offer a CPR class for members in one of the local Amateur Radio clubs. Each participant would be responsible for paying for the certification fee, but we hope to keep that relatively inexpensive. We always talk about "being prepared," and what better way to be prepared than to earn your CPR certification with fellow hams! There is still a lot to be determined, but if you are interested in this class, email me at ky4fb@arrl.net. It won't lock you in; it will help us figure out the logistics. As we finalize details, more will be announced in the club meetings and on the nightly Information Net.

If you have an idea for possible activities for our members, I'd encourage you to share it with us! It could be offering radio communications for another non-profit community service activity, swap meets, or something that is more along the lines of general emergency preparedness. It can be just

for Delta Club members, open to the community, or something that we can do with other clubs in the area. Think about what you'd like to see us offer as a club and let us know your ideas!

I look forward to seeing you all Tuesday!

73,
Mary Jean KY4FB

Treasurer's Report

Submitted by Jim Martin, KD4FUU

Please renew your membership right away, so you won't forget about it! The membership application may be downloaded from our website (for both renewals *and* new members) at:

<https://deltaclub.org/membership>

Annual membership fee is \$20 per individual or \$25 per family. Completed applications and payment may be mailed to:

Delta Amateur Radio Club
PO Box 342768
Memphis, TN 38184-2768

If you prefer you can print and bring the completed form, along with the membership fee, to any in-person meeting. Please contact Jim Martin KD4FUU at [**kd4fuu@gmail.com**](mailto:kd4fuu@gmail.com) with any questions or concerns regarding application submission and/or payment of annual dues.

LIFEGREEN CHECKING FOR BUSINESS
 June 1, 2022 through June 30, 2022

SUMMARY			
Beginning Balance	\$23,470.04	Minimum Daily Balance	\$23,470
Deposits & Credits	\$95.00 +	Average Monthly Statement Balance	\$23,521
Withdrawals	\$0.00 -		
Fees	\$0.00 -		
Automatic Transfers	\$0.00 +		
Checks	\$0.00 -		
Ending Balance	\$23,565.04		

DEPOSITS & CREDITS			
06/08	Deposit - Thank You		45.00
06/21	Deposit - Thank You		50.00
Total Deposits & Credits			\$95.00

DAILY BALANCE SUMMARY			
<u>Date</u>	<u>Balance</u>	<u>Date</u>	<u>Balance</u>
06/08	23,515.04	06/21	23,565.04

SMALL BUSINESS CD *0028

Available Balance	<u>INTEREST RATE</u>	<u>YTD INTEREST</u>	<u>INTEREST EARNED NOT PAID</u>
\$10,913.59	1.590 %	\$86.18	\$7.61
▼ View More Details			

Applications Received - June 2022

(0) New Membership(s) - Pro-Rated Dues	\$0.00
(0) New Membership(s) - Dues Waived	\$0.00
(0) New Membership(s)	\$0.00
(2) Membership Renewal(s)	\$45.00
(0) Donations Received	\$0.00

Total Dues Received \$45.00

Other Deposits

Karen Chancelor Estate Sale	\$50.00
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Total Other Deposits \$50.00

Total Deposits \$95.00

Debits/Payments

None	\$0.00
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Total Payments \$0.00

DARC Board of Directors Meeting Minutes

Submitted by Carolyn Horne, KX4QF

DARC Board of Directors Meeting Minutes for July 5, 2022

Attendees: Mary Jean Hall KY4FB, John Reiners KN4BVH, Carolyn Horne KX4QF, Jim Martin KD4FUU, Joe Lowenthal WA4OVO, Mike Harrison KM4MRW, Scott Adams KM4PMU, Barry McDonald W5CJ and Len Grice W4MKS.

Absent: None.

Guests: None.

The regular monthly meeting of the Delta Amateur Radio Club Board of Directors was held on Tuesday, July 5, 2022, at 6:30 PM on a Zoom video conference call, with the President serving as chair and the Secretary being present. President Mary Jean Hall called the meeting to order.

Mary Jean Hall discussed whether to have next week's Members Meeting only via Zoom or both in-person and via Zoom. The board determined that current conditions warrant having a Zoom-only meeting. The link to the meeting will be sent by email and may also be found in the SPARKS newsletter on the deltaclub.org website.

There was a review of Field Day attendance and activities. Mary Jean Hall gave a report on the Field Day ad placed on Facebook. The program for the monthly meeting will be 'Field Day Recap.'

Mary Jean Hall said that she had been contacted about cooperating on EMT/First Aid training class(es) for a reduced rate of about \$17-\$20 versus \$100+ through the Red Cross. It would need to be approved through the Fire Department. There was interest shown by board members in pursuing this.

Barry McDonald said there was nothing new to report on the 146.82 repeater status.

Carolyn Horne announced we had one renewed membership application. Barry McDonald made a motion to accept them, Jim Martin seconded the motion and the motion passed.

Scott Adams asked for a Field Day snack/food report from Mary Jean Hall, since he had not been able to be present at Field Day. She said we spent \$100 less than last year on expenses. Scott said we should be able to use the left-over snacks if we meet in person in August.

Jim Martin said it has been quiet month in the finance department. He gave the Treasurer's report to the board as published in SPARKS. Mary Jean Hall added that we will try to get a

PayPal account set up in the next few weeks. After that Bob Vawter KW4RJ will link it to our website with the goal of being ready to accept online membership dues in 2023.

Joe Lowenthal said the Tech Class starts July 7th on six Thursday nights from 6:30 to 9:30 PM via Zoom. He has 13 students.

He said 29 people have now committed to buy tickets for the Huntsville Hamfest Bus Trip, making it a go for August 2022. He has reserved a 40-passenger bus, which does include a commode, but if 34 people commit to going, it may be upgraded to a 56-passenger bus. Details on the trip are in this month's SPARKS.

Joe said he has been contacted about tower and radio equipment offered for sale to the Club and an inspection has been scheduled so he can decide on whether to pursue this or not.

Len Grice said he contacted local TV stations more than once for Field Day 2022 publicity, however none showed up for the event. The board discussed pursuing other publicity avenues for next year.

Mike Harrison is working on the July edition of SPARKS and is publishing the new frequency list provided by Joe Lowenthal on our website.

John Reiners said he had nothing new to report. He did participate in this year's Field Day at the Digital station.

Mary Jean Hall discussed upcoming events in which the Club may participate:

Saturday, August 20 – Huntsville Hamfest.

Saturday and Sunday, September 10 and 11 – Bike MS 150 event (coordinate with Darrell Sheffield).

Saturday, October 8 – Bluff City Blues ride.

Mary Jean Hall adjourned the meeting at 8:07 PM. The next regular Board of Directors meeting is scheduled for Tuesday, August 2, 2022, at 6:30 PM on Zoom.

Respectfully submitted by Carolyn Horne KX4QF, Secretary

Minutes of Last Month's Club Meeting Submitted by Carolyn Horne, KX4QF

DARC Meeting Minutes for June 14, 2022

Call to Order and Opening Remarks

The regular monthly meeting of the Delta Amateur Radio Club was held on Tuesday, June 14, 2022, at 7:00 PM on a Zoom video conference call, with the President serving as chair and the Secretary being present. Club President Mary Jean Hall KY4FB called the meeting to order and then welcomed everyone to the meeting. At least 44 members and guests were present for the meeting on Zoom.

Minutes and Treasurer's Report

Bill Flanigan KK4VPS moved to “approve the Treasurer’s Report and Minutes as published in Sparks.” Dan Wehner KN4FBJ seconded the motion. The motion was adopted by the club without objection.

Announcements

Mary Jean Hall KY4FB said that we were meeting only on Zoom this evening because of heightened COVID activity, which impacted members of the board, plus it saves on the cost of fuel for those who live a good distance from the Ellendale Church of Christ.

Dan Columbus AA4HV gave a VE update. New Tech tests will be in effect in July. Three people have emailed or called about testing.

Mary Jean Hall KY4FB said the Bluff City Blues Ride contacted the Club about helping with their event on October 8. She gave some details on the route and station/vehicle needs to cover. Steve Frazier KK4VPT said that there is no cell service on parts of the route, so radio service is needed. For more information see [Bluff City Blues Ride | Memphis Hightailers \(bcb100.com\)](http://bcb100.com). Steve also mentioned another event in which the Club regularly participates, the Bike MS: Rockin’ Ride starting from the Lander Center in Southaven, MS. September 10-11, 2022. He suggested we contact them to ask if they need our help this year.

Joe Lowenthal WA4OVO announced that there will be a Tech Class on 6 Thursdays nights from 6:15 – 9:30 PM starting on July 7 through August 11. Nine students have signed up. The first four classes will be via Zoom, the fifth will be the FCC exam at the Ellendale Church of Christ and the

sixth may be via either venue depending on health guidelines at that time. He also has plans for a General Class beginning the first week of November and an Extra Class the first week of January. He said 22 people have committed to buy \$85 tickets for the Huntsville Hamfest Bus Trip on August 20th. There needs to be 6 more by June 30 or the trip will be canceled. If you plan to go, send an email with the subject 'Huntsville Hamfest' with your name and information to wa4ovo@gmail.com. Joe said you can also contact him on Field Day.

Barry McDonald W5CJ said he and Rick Tillman WA4NVM went to the 146.82 repeater site with Pat Lane W4OQG's TDR Reflectometer to test the line but did not see anything unusual. They did some other testing, but the SWR remains around 4.2 on transmit. They did notice that one time on transmit the SWR was fine then jumped back up to over 4.0. Pat Lane told them it sounded like a loose connection. The repeater remains turned off at this time. Barry said we will have to invest in another tower climb to diagnose and fix the problem. Mary Jean Hall KY4FB informed everyone that the nightly DARC Net is now on the 443.700 repeater. Also, the YL Net is canceled for the next two months. Barry noted that the 443.700 repeater is only 6 feet from the 146.82 repeater, so they are both at the same height on the tower. The 443.700 repeater will likely be the working repeater for the Bluff City Bike Ride.

Mary Jean Hall KY4FB asked members to renew their memberships using the current form available on the Club website since implementing a digital payment process will still take some time. You can also fill out a form and make payment at an in-person meeting or at Field Day.

Ned Savage KA4BLL announced he is running the Shelby County Emergency Management Agency Reserve (SCEMAR) Net Monday evenings at 6 PM on the 147.36 repeater. The Net runs for about 15 minutes and he invited everyone to check in.

Warren Zimmer KC7ND announced that Cliff Ray KC5IGS recently became a Silent Key but funeral plans were pending. He was a regular on the Bull Frog Net.

Dan Wehner KN4FBJ asked about our status of ARRL dues payment as an ARRL Affiliated Club. Joe Lowenthal WA4OVO and Mary Jean Hall KY4FB had held discussions about this but it was not brought up at our last board meeting. Mary Jean asked if members were willing to proceed. She said it will be reviewed and brought to the next board meeting and she will let everyone know the results next month.

Mary Jean Hall KY4FB discussed Field Day 2022 preparations. It will be at the Germantown Municipal Park from 1 PM Saturday June 25 to 1 PM Sunday June 26. The DARC, Neshoba, MARA and ARES clubs and organizations will participate together. The callsign will be W4EM for the main stations and W4BS for the GOTA station. N3FJP software will be used for logging. Our class will be 4A under section TN. Set up starts at 8 or 9 AM on Saturday June 25.

Discussion / Program

Rick Tillman WA4NVM gave a presentation on 'Field Day Logging using N3FJP'.

Closing Remarks

Mary Jean Hall KY4FB asked for a show of hands of those planning on coming out to Field Day. Steve Frazier KK4VPT reminded those planning to come to bring chairs. He said it is a good learning experience to see how antennas and equipment are installed during set up. Warren Zimmer KC7ND said that the ARRL was continuing special procedures for COVID allowing stations to operate from home and submit their logs under the Club name.

Delta Club President Mary Jean Hall KY4FB adjourned the meeting at 8:23 PM.

The next Delta Amateur Radio Club meeting will be Tuesday, July 12, 2022, at 7:00 PM in-person and /or via Zoom. Check the current edition of SPARKS or the Delta Amateur Radio Club Facebook page just before the scheduled meeting time for more information on venue instructions or the Zoom link for the meeting.

Respectfully submitted by Carolyn Horne KX4QF, Secretary (2022)

Delta Ham License Training, 2022

Submitted by Joe Lowenthal, WA4OVO, DIRECTOR OF TRAINING

There is no charge for classes, but the student is responsible for the purchase of the license manual and the \$15 ARRL FCC examination fee. The FCC implemented a \$35 application fee on April 19, 2022.

If you want to take a class, send an email to Joe at wa4ovo@gmail.com with the class name; ie, Tech Class, General Class, or Extra Class, on the Subject line and name, callsign if you have one, email address, and cellphone number in the text.

Licenses Earned in 2022 from Delta Classes

18 Technician

2 General

7 Extra

Note:

As of April 19, 2022 there is a \$35 FCC application fee for new hams, renewals, Vanity callsigns, etc except for license upgrade, systematic callsign issue, name, address or email changes. This is in addition to the \$15 ARRL VEC FCC exam fee.

The new Technician ARRL Ham Radio License Manual is the Fifth Edition with question pool that becomes effective July 1, 2022 for four years.

The current ARRL General Class License Manual is the Ninth Edition with question pool that became effective July 1, 2019 for four years.

The current ARRL Extra Class License Manual is the Twelfth Edition with question pool that became effective July 1, 2020 for four years.

As of late 2019, expired Amateur Radio license holders can get their license back by taking the current Technician exam and show proof of their previous license class. A previous Advanced Class licensee will only be able to get a General Class license.

PROPOSED CLASSES

All classes will be 3-1/4 to 4 hours long for six or seven sessions; one per week on a week night 6:15pm-9:30pm or Saturday day 9am-1pm.

The next General license class will probably start in early November 2022

The next Extra Class license class will probably start in early January 2023

CURRENT CLASS

Tech Class 4-22 – July 7 – August 11, 2022

A Technician license class began on July 7th for six Thursday nights from 6:15-9:30pm. The first four classes will be via Zoom with the fifth and sixth classes in person at Ellendale Church of Christ, 7365 Hwy 70 (Summer Ave). There are 9 students in the class. The FCC exam will be offered on the fifth night of class, August 4th. The sixth night will be equipment demonstrations.

The instructors are Joe Lowenthal WA4OVO, Paul Roberts KA4X, Pat Lane W4OQG, Steve Frazier KK4VPT, David Wilson KY4FH, John Reiners KN4BVH, and Barry McDonald W5CJ. The equipment demonstrators are Rick Tillman WA4NVM, Rick Pellicciotti KJ4NWQ, and John Reiners KN4BVH.

COMPLETED CLASSES

Tech Class 2-22 – February 28 – April 4, 2022

A Technician license class began on February 28th for six Monday nights from 6:15-9:30pm. The first four classes were via Zoom. The class began with 15 students. Eleven students finished the four instructional classes with two students out of town. The fifth class was in-person with a review of the 421 questions and answers in the question pool as well as an opportunity to take the FCC exam. The Equipment Demonstration sixth class was given in person on April 4th.

Congratulations to Frank Barton KI5UJH (now KI5FGB), Charlie Cole KO4ZCF, Matt Coolican KO4ZCG, Bob Garrelts KI5UJI, Billy Griffin KO4ZCH, Keith Miller kO4ZCI, Bob O'Grady KO4UCJ, and Kyle Turlington KI5UJJ for earning their Technician licenses. Congratulations to Sandra West KO4ZLM for earning her Technician license on April 8th who tested with Chattanooga ARC. The two locals will test at a later date. Additional congratulations to Frank Barton KI5UJH and Billy Griffin KO4ZCH for also upgrading to General.

Thanks to the Laurel VE team of Joe WA4OVO, Jeff AJ4GY, Barry W5CJ, David KY4FH, Bob AI4GI and Rick WA4NVM for being the VEs.



Rick KJ4NWQ on APRS Demo
Photo by Joe WA4OVO



John KN4BVH on Digital Demos
Photo by Joe WA4OVO



Rick WA4NVM on F0-29 contact with Tech Class 2-22



Photos by Joe WA4OVO

The instructors were Joe WA4OVO, Paul KA9VAU, Perry N4GJ, David KY4FH, John KN4BVH, and Pat W4OQG. The Equipment Demonstrators are Rick WA4NVM, Rick KJ4NWQ, John KN4BVH and Joe WA4OVO.

CBU Tech Review Class 3-22 – February 23, 2022

A Technician license review session was held in Dr. Eric Welch (WD5FTA)'s junior level Introduction to Unmanned Aerial Vehicle class for 13 Chrisitan Brother University students on February 23rd . Congratulations to Juan KO4YBR, Juan KO4YBS, Hector KO4YBT, Jake

KO4YBU, Dan KO4YBV, Joshua KO4YBW, Aldrin KO4YBX, Carlos KO4YCN, and James KE8UAR earned their Technician licenses.

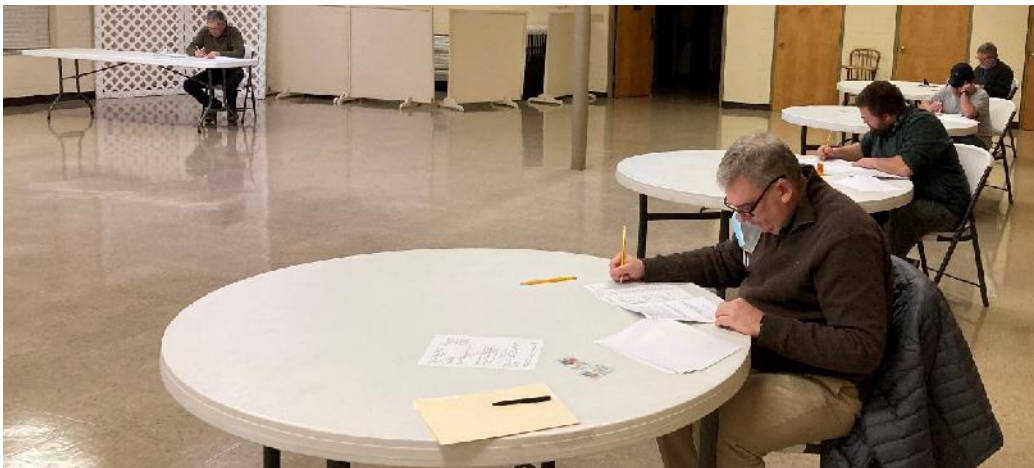
Thanks to the Laurel VEC Team of Barry W5CJ, Jelly N4HLT, David KY4FH, David AJ4KF, Eric WD5FTA and Joe WA4OVO for providing the Laurel FCC test session.

Extra Class 1-22 – January 3 – February 14, 2022

Extra Class 1-22 license class is being held via Zoom and started on Monday night, January 3, 2022 from 6:15-9:30pm. The class is for seven Monday nights until February 14th.

There are eight students in the class: Paul Broom KN4WGX, Kevin Buddle KO4UTX, Charles Byars KI5HWA, Randall Haynes KO4KKA, Kevin Kelley KO4OAO, Dylan Martin KC4DTM, Scott McDermott KO4OWE, and Jan Slezak KC1QBB. Since last report one student dropped out and one joined.

Congratulations to Kevin Buddle KY4MI, formerly KO4UTX, for testing early with a W5YI on-line testing group and upgrading on January 25th.



Extra Class 1-22 Test Session

Photo by Joe Lowenthal WA4OVO

The instructors were Joe Lowenthal WA4OVO, John Reiners KN4BVH, Dave Church AD4Q, Dean Honadle N2LAZ, Pat Lane W4OQG, Paul Roberts KA9VAU, and David Wilson KY4FH.

General Class 6-21 – November 1 – November 29, 2021

A General license class was held on five Monday nights between November 1st and November 29th from 6:15-9:30pm. The Zoom classes were on November 1,8,15,22 with in-class FCC testing on November 29th. There were 14 students in the first class; two from California and

another from North Carolina. The class ended with 11 students, excluding the California students.

The test session location was at Ellendale Church of Christ, 7365 Hwy 70 (Summer Ave). Congratulations to Web Webster KC4WEB who tested early online for upgrading to General. Congratulations to Charles Byars KI5HWA, Dan Currey KO4NGZ, John Duty KK4LST, Jeff Foster KI5SEK Randall Haynes KO4KKA, and Dylan Martin KC4DTM for upgrading to General.

Thanks to the Laurel VE team of Joe WA4OVO, Perry N4GJ, Barry W5CJ, Bob AI4GI, and David KY4FH for providing the test session.

How to Print Your FCC License

1. Go to <https://wireless2.fcc.gov/UlsEntry/licManager/login.jsp>
2. Enter your FCC Federal Registration Number (FRN) and Password
 - a. If you do not know your FRN, go to Search box and click on License
Click on Amateur; Enter your callsign in Callsign box;
Your FRN is in center of page after your name
(If you do not know your Password, click on Contact Tech Support after Forgot your Password)
3. In When My Licenses screen comes up, click on **Now** in the green line reading “Change your paper authorization preferences [here](#), or download your official electronic authorizations now”
4. In Under Download Authorizations screen, highlight your callsign in the My Authorization area at the bottom left.
5. Click on ADD to right of the highlighted callsign.
6. Highlight your callsign in Authorization to Download and then click on Download on bottom right of screen.
7. If pop-ups are blocked, click on Allow One
8. Click Open at bottom and Print your License.

INDIVIDUAL EMAIL ADDRESS IN QRZ
Submitted by Joe Lowenthal, WA4OVO

Consider going to QRZ.COM and log in. Then enter your email address on their QRZ page so other hams can contact you vial email rather snail mail. Anyone looking for email addresses has to log in to QRZ to be able to see the ham's email address.

Find Registered Amateur Radio Operators
Submitted by Bob Vawter, KW4RJ

To view licensed hams in your vicinity, go to <https://haminfo.tetranz.com/map>

Volunteer Monitor Program issues a caution to radio hams
Submitted by Bob Vawter, KW4RJ

The ARRL report the volunteer monitor program has cautioned against operating beyond amateur radio license privileges

The ARRL story says:

Many of the Advisory Notices sent out each month by the ARRL Volunteer Monitor Program go to stations heard operating outside the operator's license privileges.

Typical cases often involve operators holding Technician- or General-class amateur licenses being heard on a frequency or band not permitted by their license privileges. Most recent incidents have frequently entailed FT8 digital mode operation by Technician licensees on 20 and 40 meters. Technician licensees do not have any operating privileges on 20 meters, let alone digital privileges, and FT8 is a digital protocol.

Technicians (and Novices) may operate CW between 21.025 and 21.200 MHz on 15 meters, from 7.025 and 7.125 MHz on 40 meters, and from 3.525 to 3.600 MHz on 80 meters, but they do not have any digital (data) mode privileges on these bands.

ARRL Volunteer Monitor Program Administrator **Riley Hollingsworth, K4ZDH**, said licensees who need a refresher course regarding their operating privileges may refer to Section 97.301 of the rules. ARRL also has a convenient chart on its website that details privileges available to all license classes, from Novice to Amateur Extra.

As monthly Volunteer Monitor reports indicate, some General-class operators have lost their way on some bands too, and Advisory Notices have gone out to those operating outside of the General-class phone subbands. For example, on 20 meters, Generals may operate phone from 14.225 to 14.350 MHz, but occasionally, General-class operators are heard outside of that subband. On 40 meters, the phone and image subband open to General licensees is 7.175 to 7.300 MHz. Of course, Technician- and General-class licensees may operate CW on any subband on which they have operating privileges, although operation within the CW subbands is preferred by band plan.

On 10 meters, Technicians have RTTY and data privileges — including FT8 — from 28.000 to 28.300 MHz, and SSB phone privileges from 28.300 to 28.500 MHz, and may operate on CW over the entire 28.0000 – 28.500 MHz segment. Technicians may enjoy all operating privileges at 50 MHz and above.

The ARRL Volunteer Monitor program is a formal agreement between the FCC and ARRL. Volunteers trained and vetted by ARRL monitor the airwaves and report evidence that may be used to correct errant operation or to recognize exemplary on-air operation.

Source ARRL

<http://www.arrl.org/news/view/volunteer-monitor-program-cautions-against-operating-beyond-license-privileges>

ARRL Volunteer Monitor Program

<https://www.arrl.org/volunteer-monitor-program>

What are the rules for calling CQ on a repeater?
Submitted by Bob Vawter, KW4RJ

When you finally get to the point of pushing the talk button on your microphone, after passing the test, receiving your license, getting your radio, building an antenna, digesting the manual, identifying a repeater, untangling its offset, programming those frequencies and keying up, you might be surprised to realise that you're lost for words. Something which I've talked about before.

Even if you do have something to say, finding a person to say it to will be the next big challenge. Truth be told, the more frequencies you have to choose from, the harder it seems to discover a fellow amateur and with Internet connected repeater networks, your choice appears infinite.

So, how do you initiate communication on a repeater? Do you call CQ, ask for a signal check, or just kerplunk the repeater to prove that your signal is getting in?

The very first thing to remember is that you have the exact same rights as every other amateur. No amateur is above any other, though hearing some conversations or responses might give you a different impression.

Before you embark on a long speech, what you need to remember is that your ability to receive is not usually the same as your ability to transmit. If you're using a low-powered hand held radio that's tuned to a local repeater, you might be comparing your little stubby antenna, inside your home, held at an angle, with that of a high power repeater, with a high-gain antenna bolted to a tower installed on the top of a hill. In other words, you can hear the repeater much better than it can hear you.

You'll quickly observe that there are amateurs about who have their radio on all day long and they'll often hear every single transmission that hits the local repeater and even random frequencies. Sometimes this means that you'll have a great friend to talk to, other times it means that you'll have a local troll who in their not so humble opinion determines what is permitted and what's not.

So, to get things rolling, you should follow the KISS principle, an aim championed by the lead engineer of the Lockheed Skunk Works in 1960, Kelly Johnson, "Keep it simple stupid."

With keeping things simple, there is a fierce and ongoing debate around the use of the phonetic alphabet on a repeater. With the benefit of experience, having run a weekly radio net for over a decade I'm going to be blunt. When you're identifying yourself to the rest of the community, always use phonetics. Only if you've been acknowledged and you're part of the conversation should you even consider dropping your phonetic callsign.

The reason is that your first transmissions will be regularly interrupted by others since they're having a conversation and you'll be butting in. Even if a net controller asks for check-ins, you should use phonetics, since you might not be the only one who keys up at the same time. If you and the controller have known each other for years and they recognise your voice, you could consider dropping the phonetics, but don't expect everyone to know who you are from a single letter getting through. Some people are better at this than others.

Whatever you do, don't barge in with a whole story until you've been acknowledged and the microphone has been handed to you. After all, this is a public shared space.

The next thing to consider is the audience you're talking to. If the repeater is just local, then the people within range are likely to expect your prefix and know who you are, so just your call might suffice, but if you connect to a network, that's not likely to be true. If you want to actually talk to anyone, you can call CQ, but if you just want to let people know you're there, you can say your callsign followed by the word "listening".

If you want to speak with a specific individual on the other hand, you can call them using their phonetic callsign, either with or without the CQ. Also consider they might be on the other side of their shack working hard at attempts to avoid sniffing solder fumes and take a moment to get to the microphone.

In other words, what you say on your repeater depends on what result you want and who else is there. Sometimes there will be a mismatch between the two, just saying your callsign might initiate an hour long conversation, and calling CQ might give you the local troll telling you to go away.

Don't let that dissuade you. Even with years of practice, sometimes the results are unexpected.

Talking on a repeater is like being invited to a party. There are going to be people you know, people you want to know and people you never want to meet again.

So, be considerate, listen more than you talk and be deliberate in your intentions and you'll be fine.

Onno VK6FLAB

ARRL Benefits

ARRL amateur radio community. When you renew, a few of the benefits you will enjoy are:

- Your choice of a print magazine. Eligible US-based ARRL members can elect to receive QST, the official membership journal of ARRL or On the Air, aimed at helping new and emerging radio communicators get active and on the air.
- Digital access to all four ARRL publications -- QST, On the Air, and now QEX, covering topics related to radio communications experimentation, and National Contest Journal (NCJ), covering radio contesting.
- Access to ARRL's Technical Information Service to assist with technical problems and help with your projects.
- Free FCC license renewal and modification service.

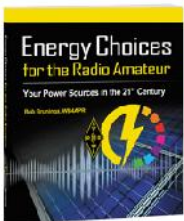
To secure these amazing members-only benefits and many more in the coming year, visit www.arrl.org/join/WE1 to renew or call us toll-free at: 1-888-277-5289 (US Only) , Monday-Friday, 8 a.m. to 5 p.m. ET. International members call (860) 594-0338.

Packet Update

By: James Butler KB4LJV

The ARRL has a new book out called “Energy Choices for the Radio Amateur”. This book explores solar energy options with solar panels and electronics interfaces. The book talks about the transfer to energy sources that are cleaner and better for the planet. The book tells how to set up a home solar power system. The book also talks about setting up a do it yourself portable solar power for emergency use. The book is written by Bob Bruninga WB4APR (SK) and includes his experiences with many aspects of solar energy. The ARRL web address for the book is

<https://home.arrl.org/action/Store/Product-Details/productId/114345>



Amateur Hardware Update

By: James Butler KB4LJV

Many of our radios use a common style connector for inputs and outputs. This connector has been used for many years and is known as an “RCA” connector. Normally you have to solder wires to the connector for you input or output device. Ebay now has a listing for a “quick RCA connector”. This connector has screw connections for easy wire hookup to the connector. The best part is the price of \$6.00 for 10 connectors. If you are looking for an easy way to make RCA connections, check out this connector. Do an Ebay search for “RCA male connector adapter jack plug”.



Amateur Radio Emergency Service (ARES) Emergency Coordinator (EC) - John Reiners KN4BVH

If you are interested in joining Shelby County ARES, complete an application at <https://www.tnares.com>. Click (do not pull down) on INFORMATION on the top right of the page. Next, go to TN ARES Membership and Appointment Application Forms and then click on ARES Membership Application: FSD-98. Complete the form and click SUBMIT at the bottom of the page. You should get an acknowledgment soon after submitting.

YL News
Submitted by Linda KJ4CTX

There will not be a YL Net in June and July. During this summer break, all YLs are encouraged to continue checking in to the Delta Club Information Net.

Sparks Newsletter and Delta Club Information

SPARKS is published monthly by the Delta Amateur Radio Club and emailed to club members. All information published in this newsletter is provided as a service. While every reasonable effort has been made to ensure accuracy, neither the Delta Amateur Radio Club nor its officers assume any liability resulting from errors or omissions. All correspondence may be mailed to:

Delta Amateur Radio Club *P.O. Box 342768 * Memphis, Tennessee 38134-2768

Please note that you must provide your name and call sign if you're requesting specific actions or personal follow-ups, and also be aware that any profane or mean-spirited comments will be unceremoniously discarded without consideration.

Delta Club Members Can Like Us/Follow Posts On Facebook!

Go to <https://www.facebook.com/darcmem>.

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Upcoming Events

- Huntsville Hamfest August 20th – 22nd, 2022
- Bike MS: Rockin' Ride September 10th – 11th, 2022
- Bluff City Blues Bike Ride October 8th, 2022

For more information go to <http://hamcalendar.com/>

Memphis Area VHF/UHF Nets

82 Repeater Down - Delta Club Information Net on Alternate Repeater 443.700

Name of Net	Freq. MHz	Offset/Tone	Local Time	Day of Week
Delta Club Information Net	146.820	- (107.2)	8:00p	Daily
YL Net	146.820	- (107.2)	8:45p	Sat
Four-Forty Net	443.700	+(107.2)	8:30p	Fri
Mid-South Bullfrog Net	146.535	[simplex]	7:30p	Daily
Elmer Net	444.175	+ (107.2)	9:00p	Sun
MedMERS Net	146.820	- (107.2)	12:00p	Wed
ARES Training Net	146.850	- (107.2)	9:00p	Thu
Sunday Super Niner Net	927.6125	- (146.2)	8:30p	Sun
TN Statewide DMR Net	Digital – DMR		8:00 p	Friday

TENNESSEE HF NETS

Net Name	Freq. MHz	Local Time	Day of Week
Tennessee CW Net	3.563	7:00p	Daily
Tennessee Slow CW Net	3.682	7:30p	Tue-Sun
Tennessee Alternate Phone Net	7.238		As needed
CUSEC	3.810		As needed
CUSEC	7.180		As needed

(Center for United States Earthquake Consortium)

3980 kHz – Tennessee Phone Net

Mon-Fri - 5:40 AM, 6:45 AM & **5:30 PM** (5:30 pm beginning Nov. 9 evening)

Saturday - 8:00 AM & 5:30 PM

Sunday - 8:00 AM only

Holidays - 8:00 AM only

DELTA CLUB ADVERTISEMENTS

DELTA AMATEUR RADIO CLUB

**P.O. Box 342768
Memphis, TN 38134-2768**

DARC Meeting: Second
Tuesday of every month
at Ellendale Church of Christ
7365 Hwy 70, Bartlett TN



W4BS REPEATER SYSTEM
146.82- 147.36+ (107.2Hz tone)
224.42- 443.20+ (107.2Hz tone)



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