

SPARKS

P.O. Box 342768 * Memphis, Tennessee 38134-2768 * Volume 69 * October 2021



Delta Amateur Radio Club (DARC)

Sparks Newsletter

Website: <http://deltaclub.org>

Facebook:

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

W4BS

REPEATER SYSTEM

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.**

Topic: October Member Meeting

Time: Oct 12, 2021 07:00 PM Central Time (US and Canada)

Join Zoom Meeting

<https://us02web.zoom.us/j/83735515899?pwd=MC9ldW9ZWnpXeUtnc3JldWRMeTFpZz09>

Meeting ID: 837 3551 5899

Passcode: 395666

Program: *"Discussion and Vote on Proposed Updates to the Delta Club Bylaws"*

The final discussion and vote on the proposed updates to the Delta Club Bylaws will be during the October 12 meeting. *"End-fed Antennas"* by Tom Dichiara AC4MR if time permits.

For Ham License testing information: Delta Club FCC testing sessions are held monthly except December. Registration begins at 5:30 PM; testing begins by 6:00 PM. Please bring a photo ID and another form of identification, copies of existing licenses or CSCEs, and your FCC Registration Number (FRN). Please be on time for registration to allow our Volunteer Examiner (VE) team to complete their work prior to the club meeting. The 2021 test fee is \$15 (cash or check). Individuals receiving their initial FCC license grant at a Delta Club test session or through a Delta Club training class will receive a complimentary individual club membership for the remainder of the current calendar year when they also show proof of ARRL membership. For more information, please email our VE Liaison, Jeff Krause, AJ4GY at AJ4GY@comcast.net or call at 901-301-6776. **NOTE:** Jeff is looking for a VE Liaison replacement. If you are interested, please contact Jeff at AJ4GY@comcast.net or 901-301-6776.

Announcements

FOUR-FORTY NET

The Delta Club has a new weekly net, the Four-Forty Net, which is on 443.700 with a +5 MHz offset and a PL tone of 107.2 Hz. The Four-Forty Net is every Friday at 8:30 pm after the Delta Club Information Net. Please join us to test out your 70 cm equipment and see how well we get into this W4BS repeater.

DARC 2022 BOARD OF DIRECTORS ELECTION

Election for the 2022 Board of Directors will be during the November meeting. If you are interested in serving as a Board Member please see a current Board Member for information.

President's Corner

Submitted by Steve Frazier, KK4VPT

Once again this month I need to draw your attention to the fact we will not meet in person and will meet using Zoom. The information to join the meeting is included in this month's Sparks.

You may have heard that earlier this week Facebook was down for several hours. When it came back up, one of the post I saw was - "When Facebook and Instagram went down.... Ham Radio Did Not!" A large number of us are active in ham radio so we can help others during a major disaster, this is a good example that ham radio may be useful at any time. If social media goes down again, it would be a good time to show your friends and family the dependability and versatility of ham radio.

It has been exciting that during this continuing time of social distancing due to the Covid-19 virus, Delta Club has been able to stay active and to stay in touch with our members. While we have used Zoom as a way for us to have our monthly meetings since April of last year, we have also met in person when possible. We will continue to review the guidelines and restrictions for social distancing and meet in person whenever possible. I would like to also remind you that every 2nd and 4th Friday of the month starting at about 7am a group of hams meet at the Danvers at 1380 N. Germantown Parkway for breakfast. Feel free to join us whenever you can make it, we are usually there until at least 8am or until the coffee and stories run out.

If you would like more time with your fellow Delta Club members, then add your name to the ballot for the Board of Director election in November. At this time we will have open slots for Director of Programs and Vice President. You can add your name to the ballot for any position, but we have a need to fill these two positions. The only requirements to run for office is to be a

current member of Delta Club and to have attended 6 of the last 12 meetings. This year Zoom meetings will count for this requirement.

And as always, you can join us on the nightly net at 8pm which is currently using the 146.625 repeater which you can access on your radio or by using Echolink node 363378. We have recently added a new net on Friday night at 8:30pm on 443.700 MHz, +5MHz, 107.2 tone. When you do join the net, don't forget to thank the net control operator who has set aside time to make the net possible.

73
Steve Frazier
KK4VPT

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 with any questions or concerns regarding application submission and/or payment of annual dues.

LIFEGREEN CHECKING FOR BUSINESS					
September 1, 2021 through September 30, 2021					
SUMMARY					
Beginning Balance	\$21,812.78		Minimum Daily Balance		\$21,396
Deposits & Credits	\$0.00 +		Average Monthly Statement Balance		\$21,470
Withdrawals	\$235.48 -				
Fees	\$0.00 -				
Automatic Transfers	\$0.00 +				
Checks	\$180.62 -				
Ending Balance	\$21,396.68				
WITHDRAWALS					
09/01	Rsc Insurance Br 617-330-57 Steve Frazier	M63219628344			235.48
CHECKS					
<u>Date</u>	<u>Check No.</u>	<u>Amount</u>	<u>Date</u>	<u>Check No.</u>	<u>Amount</u>
09/09	1552	25.00	09/14	1553	155.62
				Total Checks	\$180.62
* Break In Check Number Sequence.					
DAILY BALANCE SUMMARY					
<u>Date</u>	<u>Balance</u>	<u>Date</u>	<u>Balance</u>	<u>Date</u>	<u>Balance</u>
09/01	21,577.30	09/09	21,552.30	09/14	21,396.68

SMALL BUSINESS CD *0028

Available Balance	<u>INTEREST RATE</u>	<u>YTD INTEREST</u>	<u>INTEREST EARNED NOT PAID</u>
\$10,784.58	1.590 %	\$127.94	\$7.51
View More Details			

Applications Received - Sep 2021

(0) New Membership(s) - Pro-Rated	\$0.00
(0) New Membership(s) - Fee Waived	\$0.00
(0) Membership Renewal(s)	\$0.00
Donations Received w/ Applications	\$0.00
Total Received	\$0.00

Other Deposits

No Deposits	\$0.00
Total Deposits	\$0.00

Debits/Payments

ARRL Repeater Insurance	\$235.48
Check 1552 - Huntsville Fare Partial Refund	\$25.00
Check 1553 - Huntsville Food/Drinks	\$155.62
Total Payments	\$416.10

DARC Board of Directors Meeting Minutes

Submitted by Carolyn Horne, KX4QF

DARC Board of Directors Meeting Minutes for October 5, 2021

Attendees: Steve Frazier KK4VPT, Mary Jean Hall KY4FB, Carolyn Horne KX4QF, Jim Martin KD4FUU, Joe Lowenthal WA4OVO, Ian Lucas KN4OEK, Ray Cole KX5RC, Scott Adams KM4PMU, Barry McDonald W5CJ and Len Grice W4MKS.

Absent: Mike Harrison KM4MRW.

Guests: None.

The regular monthly meeting of the Delta Amateur Radio Club Board of Directors was held on Tuesday, October 5, 2021, at 6:30 PM on a Zoom video conference call, with the President serving as chair and the Secretary being present. President Steve Frazier KK4VPT called the meeting to order.

Steve Frazier discussed whether to have next week's Members Meeting only via Zoom or both in-person and via Zoom. The board determined that having the meeting only on Zoom would be the best option since we will be discussing and voting on the By-Laws update, in which it would be much easier for everyone to participate via Zoom. As well, people are more hesitant to gather in person right now due to the COVID surge.

Barry McDonald said he and Rick Tillman WA4NVM are making testing plans for the upcoming 146.82 repeater tower climb. He said the climbers should be on site soon. He will let everyone know the results.

Joe Lowenthal gave a report on the Tech Class currently underway (September 20 through October 25). He said he has fifteen students, four or five of whom may test for both Tech and General on October 18th. He has been encouraging the students to do practice exams and has found the class to be very engaged. He said he has at least five students registered for the General Class from November 1 through December 6 and expected five more from the current Tech Class. Those who are wanting to attend the General Class should send him an email with the subject: General Class and name, email address and cellphone number in text area. He will wait until the General Class finishes to talk about starting an Extra Class.

Mary Jean Hall reported on feedback on the By-Laws update and highlighted sections for discussion with members. The board discussed Tom Butas' KM4AEM question about making a point in the rules to make financials available for public access. The conclusion reached was that the existing wording in the By-Laws covers that. The monthly financial reports are

published online in SPARKS, so they are viewable by anyone visiting the website. As well, the Delta Club's IRS records are available to the public.

Mary Jean Hall went through additional corrections to the By-Laws update. All of these are available for members to review at the bottom of the latest edition of SPARKS. She also brought up for discussion how the voting would take place over Zoom. Steve Frazier said that he thought a hand show for objections would be easiest. Len Grice asked if we need a quorum and Mary Jean said that the rules say we need a two-thirds vote by those present at the meeting, not all the membership.

Ian Lucas said that Tom Dichiara AC4MR has made a request to do a program on end-fed antennas. However, at the October members meeting the main feature will be reviewing and voting on the By Laws update.

Steve Frazier said it is time to review nominees for office in the November election. There are still two slots open: VP and Director of Programs. Joe Lowenthal said we can present the slate at the October members' meeting on Tuesday night or from the floor at the November election. Carolyn Horne said she would send attendance records to the board to see who is eligible. Members interested in office must have attended at least six meetings in the past year (past 12 months).

Steve Frazier said unfortunately no one has expressed interest in the Bluff City Blues bike ride this year on October 6. This could be due to the COVID surge and lack of meeting in person to enlist support. The board discussed options to encourage participation, but Steve said since we would need a minimum of 8 or 9 stations and we have 0, it would probably not be happening. He said he would contact the organizer by Wednesday of this week to tell him we would not be taking part in it this year. That would give them time to make other arrangements.

Scott Adams said the refreshments status is good.

Jim Martin read the Treasurer's Report. There were no membership renewals received this month. He will be sending a check for the tower climber specialists engaged to Barry McDonald for analysis and preparation of repairs to the 146.82 repeater.

Len Grice mentioned there was an editorial on microwaves in the Commercial Appeal by a Ham radio operator who was a former professor at Vanderbilt University.

Joe Lowenthal read notices of two SK's (silent keys) which he is sending to Mike Harrison for publishing in SPARKS. First, Karen Chancellor AG4CC of Memphis, passed away September 10th in an auto accident. She was a Shelby County Medical Examiner before retiring and was active as a VE. Joe met with her sister and has done a quick inventory of her equipment. Then

Hooper Jones KI4TPL of Collierville, passed away after a lengthy battle with cancer. He was a former student in Joe's first class.

Joe Lowenthal made a motion to adjourn, Len Grice seconded the motion, and all agreed. Steve Frazier adjourned the meeting at 7:33 PM. The next regular Board of Directors meeting is scheduled for Tuesday, November 2, 2021, 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 September 14, 2021

Call to Order and Opening Remarks

The regular monthly meeting of the Delta Amateur Radio Club was held on Tuesday, September 14, 2021, at 7:00 PM on a Zoom video conference call, with the President serving as chair and the Secretary being present. Club President Steve Frazier KK4VPT called the meeting to order and then welcomed everyone to the meeting. At least 37 members and guests were present for the meeting.

Minutes and Treasurer's Report

Ned Savage KA4BLL moved to "approve the Treasurer's Report and Minutes as published in Sparks." Len Grice W4MKS seconded the motion. The motion was adopted by the club without objection.

Announcements

Joe Lowenthal WA4OVO said he was starting two classes. A Tech class is being held on six Monday nights from 6:15 – 9:30 PM starting September 20th. The exam will be on October 18th in person and the final class on October 25th. Eight have already signed up and Joe expects ten in total. A General class will be held on six Monday nights from November 1st through December 6th. There will be five classes with one exam session on December 6th. If anyone is interested, they should send an email with the subject 'General Class', with their name, callsign, email and cell to wa4ovo@gmail.com.

There may be an Extra class starting the first part of January, but Joe will wait until the first part of December to act on it. All classes are on Zoom except for the test sessions.

Barry McDonald W5CJ gave an update on the 146.82 repeater. He is still waiting for the climbers to contact him about when they can do this. He is using the same ones the club used to install the current 146.82 antenna. He will let everyone know as soon as he gets something scheduled. Steve Frazier KK4VPT said the next few weeks promise some bad weather so it will be timely to have something after that.

Carolyn Horne KX4QF announced that the club has started a new net on the 443.700 repeater, called the 'Four-Forty Net' which is on the same tower as the 146.82 repeater. It has a standard +5MHz offset and a 107.2 Hz pl tone. The net is held every Friday night at 8:30 PM following the Delta Net. She remarked on how good everyone is sounding on that repeater, and Barry McDonald W5CJ and Steve Frazier KK4VPT both agreed. It is proving itself capable of being a go-to repeater for upcoming events, with a wide coverage area and great performance.

Steve Frazier KK4VPT reviewed the President's Corner for this month where he discussed the Huntsville Hamfest Bus Trip. While thanking everyone for their support, he gave special commendations to Joe Lowenthal WA4OVO, Mary Jean Hall KY4FB and Scott Adams KM4PMU for their part in making this a great success. Joe was the main organizer with Cline Tours and the Hamfest flea market organizers, and Mary Jean and Scott oversaw the food and refreshments as well as manning the club tables at the Von Braun Center. Sales of equipment went well.

Steve was in contact with the Bluff City Blues bike ride organizers, and they said at this time that event is still on. This is one of the events we normally participate in as a club. It is a one-day event up at Shelby Forest. He will post updates on our Facebook page. There is a need for Ham radio operator assistance with SAG vehicles and help stations. He said we will probably use the 443.700 Brunswick repeater for the event. Let Steve Frazier KK4VPT know if you are interested via Facebook or at sfrazier1@bellsouth.net. Techs are welcome!

Discussion / Program

This month's program is a "Discussion of Proposed Updates to the Delta Club Bylaws".

Steve Frazier KK4VPT introduced the program by saying the board has spent several meetings working through the Bylaws. The initiative started with Ken Laseter KI4AOH when he was club President. The old version was outdated since it was before the internet, email, social media, etc. As a board, we reviewed it all, then two people with a legal background gave their input, until we were all happy with it. Mary Jean Hall KY4FB was the driving force behind this board's updates to the document so she is the presenter of tonight's program. We are voting on it at the next meeting in October.

Mary Jean Hall KY4FB gave a summary of the updates to the Bylaws section by section. She said the board just updated, re-organized and clarified processes and responsibilities. She and Steve Frazier KK4VPT answered club members' questions. Tom Butas KM4AEM requested one amendment regarding our financials being open upon request since we are a non-profit organization.

The Proposed By-Laws Updates document is published on the club website www.deltaclub.org at the bottom of the September 2021 edition of SPARKS. Steve Frazier KK4VPT said if you have questions, comments or concerns get in touch with him or any member of the board and the board can discuss them at the next board meeting where proposed amendments will be brought forth for the October meeting.

Mary Jean Hall KY4FB thanked all members who made suggestions for updates to the Bylaws.

Closing Remarks

Steve Frazier KK4VPT noted that we are getting close to election time for new club officers. Quite a few of the current board members will add their names to the nominees. If interested, you just need to be an active member and have participated in six out of the last twelve meetings. Steve will be leaving his post as President and Mary Jean Hall KY4FB is interested in having her name on the list for President, so her current position of Vice President is open, as is Director of Programs. But anyone can put their name on the ballot for the other positions as well. Elections are going to be in November, so we need to know by next month.

Steve Frazier KK4VPT said he is posting a recording of this meeting on our YouTube Channel and a link to it on our Facebook page.

Joe Lowenthal WA4OVO moved to adjourn the meeting. Richard Martin K4DXF seconded the motion. Delta Club President Steve Frazier KK4VPT adjourned the meeting at 8:11 PM.

The next Delta Amateur Radio Club meeting will be Tuesday, October 11, 2021, 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 (2021)

Delta Ham License Training, 2021

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 will implement a \$35 application fee in 2021.

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 2021 from Delta Classes

26 Technician

6 General

4 Extra

Note:

Coming soon will be a \$35 FCC application fee for new hams, renewals, upgrades, etc except for address or email changes.

The current Technician ARRL Ham Radio License Manual Fourth Edition with question pool that became effective July 1, 2018 for four years. This is the new question pool.

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 September 3, 2015 there is no longer any charge for Vanity callsigns.

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 sessions; one per week on a week night 6:15pm-9:30pm or Saturday day 9am-1pm.

The next Extra Class license class will probably start in early January 2022.

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

A General license class is proposed to be held on six Monday nights between November 1st and December 6th from 6:15-9:30pm if there are at least 10 students. It will be via Zoom for the five instructional sessions and in-person for the FCC exam session. The classes are proposed for November 1,8,15,22,29, and December 6th. The FCC exam will be offered on December 6th. The test session location will probably be at Ellendale Church of Christ, 7365 Hwy 70 (Summer Ave).

If interested, send an email with Subject line: General Class 6-21 and your name, email address and cellphone number to Joe at wa4ovo@gmail.com.

CURRENT CLASSES

Tech Class 5-21 – September 20 – October 25, 2021

A Technician license class is being held on six Monday nights between September 20th and October 25th from 6:15-9:30pm. There are 16 students in the class. It is via Zoom for the five instructional sessions and in-person for the review/FCC exam session. The classes are on September 20, 27, October 4,11,18 and 25th. The FCC exam will be offered on October 18th after we do a review of the question pool questions and answers. The Laurel VEC test session will be at Ellendale Church of Christ, 7365 Hwy 70 (Summer Ave).

COMPLETED CLASSES

Tech Class 4-21 – June 24 – August 12, 2021

A Technician license class was held on six Thursday nights between June 24th and August 12th from 6:15-9:30pm. The original seven students have dwindled to five in the class and one auditing. It became a Zoom class due to the increase of Covid with the FCC test session the only in-person class. The classes were held on June 24, July 1, 8, 22, 29 and August 12th.

The FCC exam was offered on July 29th at Ellendale Church of Christ, 7365 Hwy 70 (Summer Ave). Two students took the exam(s). Congratulations to Chris Hadley KO4SHG and Dennis Lee KO4SHH for earning their Technician licenses. Additional

congratulations to Chris KO4SHG for also upgrading to General. Bill Walter N4ELF also tested and upgraded from General to Extra. Congratulations to Ross Butler KI5REG for earning his Technician license at the August 17th Delta Club test session.

The Delta Club VE Team of Jeff Krause AJ4GY, Perry Hayes N4GJ, Barry McDonald W5CJ, Bobby Stroud KD5BS and Tom Ungren KK4ZZZ were the VEs.

The instructors were Joe Lowenthal WA4OVO, Paul Roberts KA9VAU, Perry Hayes N4GJ, David Wilson KY4FH, John Reiners KN4BVH, and Pat Lane W4OQG. The equipment demonstrators were John Reiners KN4BVH, Rick Pellicciotti KJ4NWQ, Rick Tillman WA4NVM, and Joe Lowenthal WA4OVO.

Tech Class 2-21 – February 22 – April 5, 2021

A Technician license class was held one night a week via Zoom from February 22nd thru April 5th on Monday or Thursday nights. Twenty-two students started on the 22nd with 19 finishing the training. An in-person class was held on March 29th for review and opportunity for FCC exam at Ellendale Church of Christ, 7365 Hwy 70 (Summer Ave) in Bartlett.

Sixteen students tested and all passed.

Congratulations to Wallace Bell KO4OWD, Park Dodge AI5CY, Michael Engelken KI5PDQ, Arie McClanahan KI5PDR, Scott McDermott KO4OWE, Terrell Naylor KO4OWF, Craig Owen KO4OWG, Adam Shirley KO4OWH, Don Swindoll KO4OWI, Diane Thomas KO4OWJ, Anthony Tribo KO4OQK, and Bruce Swindoll KO4OWN. Additional congratulations to Michael KI5PDQ and Scott KO4OWE for upgrading to General. An extra congratulaton to Park AI5CY for running the table to Extra Class. Congratulations also to Ina Wiehl KY4GA for running the table to Extra Class at the Atoka TARS test session on March 15th. Congratulations to Mike Murell KO4QBT for earning his Technician and General licenses at the Olive Branch ARRL test session on April 20th.



Tech Class 2-21 test session left side Photo by Joe Lowenthal WA4OVO



Tech Class 2-21 test session right side Photo by Joe Lowenthal WA4OVO

Also, two CBU students tested. Congratulations to Jose Bonafasi KO4OWL and Will Clayton KF0EYO.

Additionally, nine year old Jacob White KO4OWN earned his Technician license.



Photo back left to right: 9 year old Jacob KO4OWN and proud grandpa Bob AI4GI;
front left to right: VEs Perry N4GJ, Bobby KD5BS, Jeff KJ4GY

Thanks to the Laurel VEC team of Joe WA4OVO, Perry N4GJ, Jeff AJ4GY, Barry W5CJ, Bobby KD5BS, Rick WA4NVM, and Eric WD5FTA for administering the FCC test session.

The instructors were Paul KA9VAU, Perry N4GJ, Len W4MKS, John KN4BVH, Barry W5CJ, Pat W4OQG, and Joe WA4OVO. The equipment demonstrators were Rick WA4NVM and Richard K4DXF on Satellite, Rick KJ4QNWQ on APRS, John KN4BVH on Digital, and Joe WA4OVO on Repeater Basics.

CBU Tech Review Class 3-21 – February 24, 2021

A Technician license review session was held in Dr. Eric Welch (WD5FTA)'s junior level Introduction to Unmanned Aerial Vehicle class for nine Christian Brother

University students on February 24th . Congratulations to Cesar Mireles KO4NFT, Allison Sorette KO4NFU, Brennan Griffin KO4NFV, Michael Longo KO4NFW, Jose Villa Hidalgo KO4NFX, Novy KO4NFY and Sean Williams KI5OEI, who earned their Technician licenses.

Thanks to the Laurel VEC Team of Barry W5CJ, Perry N4GJ, Jelly N4HLT, Rick WA4NVM, Eric WD5FTA and Joe WA4OVO for providing the FCC test session.

EXTRA Class 1-21 – January 4 – February 25, 2021

An Extra Class license class was held one night a week via Zoom from January 4th thru February 25th on Monday or Thursday nights from 6:15-9:30pm. The Zoom classes met on January 4, 14, 21, 25, February 1, 11 and tested a week late on the 25th due to snow on the 18th. The students were Carla KO4FVX, Ransom KO4FVZ, Russell KO4ASW, Jason KO4DOH, Mary Jean KN4FBL and David KN4BXI.

Congratulations to Mary Jean Hall KY4FB (formerly KN4FBL) and David Wilson KY4FH (formerly KN4BXI) who passed their Extra exam on the 25th.

The instructors were Joe WA4OVO, John KN4BVH, Dean N2LAZ , Barry W5CJ, Dave AD4Q, Paul KA9VAU and Pat W4OQG.

Thanks to the Delta Club ARRL VE Team of Jeff Krause AJ4GY, Stacy KJ4MDA, Warren KC7ND, Tom KK4ZZZ, Barry W5CJ and Joe WA4OVO for providing the FCC test session.

In addition to the Extra Class students testing, congratulations to Brian Kelly KO4KAO for upgrading to General. Also, the following earned their Technician licenses: Dan Currey KO4NGZ, Rob Currey KO4NHA, Wilson Langford KO4NHB, Ebben Raves KO4NHC, David Wolford KO4NHD, Garrett Robinson KO4NHE, and Steven Porter KO4NHF.

General Class 4-20 – October 26 – December 7, 2020

General Class 4-20 was held via Zoom with five students. It was held on five nights on Monday and Thursday nights from October 26th to December 7th from 6:15-9:30pm. The nights were Monday October 26, Monday November 2nd, Thursday November 12th, Monday 23rd and ARRL FCC testing Monday December 7th.

Congratulations to Ransom Bowen KO4FVZ and Elliot Pope KO4DER for upgrading to General on December 7th. Also, congratulations to Carla Andrews KO4FVX for

upgrading to General on December 21st at the Tipton County ARS (Atoka) test session. The others will test later. Congratulations to Kevin Kelly KO4KAO who earned his Technician license during the Delta Club test session.

Thanks to the ARRL VE Team of Jeff Krause AJ4GY, Warren Zimmer KC7ND, Tom Ungren KK4ZZZ, Dan Columbus AA4HV, Barry McDonald W5CJ and Joe Lowenthal WA4OVO for providing the test session.

The instructors were Perry N4GJ, Barry W5CJ, Paul KA9VAU, Len W4MKS, John KN4BVH, Pat W4OQG, and Joe WA4OVO.

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.

TWO SILENT KEYS
By Joe Lowenthal WA4OVO

AG4CC - Karen Chancellor died September 10th in a two car head-on accident on Sam Cooper Blvd when the other car crossed the median. I worked with Karen in the hospital coalition exercises when she was the Shelby County Medical Examiner. She served on the WA4OVO Laurel VE team.

Karen Chancellor Obituary - Memphis, TN (dignitymemorial.com)

KI4TPL - Hooper Jones died September 25th after a 14 year struggle with throat cancer. He was in my first Technician license class in 2007. The day he picked up his Ham Radio License Manual from me he had just come from the doctor. His throat problems made it hard for him to use the repeaters. He was frequently listening.

William Jones Obituary (2021) - Memphis, TN - [The Daily Memphian](http://TheDailyMemphian.com) (legacy.com)

**FCC Auto-Registration Feature for
Exam Applicants to be Discontinued**
Submitted By: Bob Vawter KW4RJ

Auto-registration in the FCC Commission Registration System (CORES) amateur radio exam for candidates using a Social Security number was discontinued on May 20, 2021. Applicants must use an FCC Registration Number (**FRN**) for all license transactions with the FCC. Examinees must **register in CORES** and receive an FRN *before* exam day. Starting on May 20, electronic batch filed applications that do not include a candidate's FRN will be rejected. The Social Security/Licensee ID Field will be disabled. An **[instructional video](#)** provides step-by-step instructions on how to establish a CORES account, which is necessary for licensees to make administrative updates and download electronic license authorizations. After June 29, all filers **[must provide an email address](#)** on all applications. When an email is provided, applicants will receive an official electronic copy of their licenses once granted (allow incoming email from **authorizations@fcc.gov**). If no email is provided when filing on or after June 29, applications will be rejected. ARRL VEC suggests that those without access to email to use the email address of a family member or friend.

Licensees need to log in to the Universal Licensing System (ULS) to **[download their authorizations](#)**. The FCC no longer issues paper copies. — *Thanks to the FCC*

<http://www.arrl.org/news/fcc-auto-registration-feature-for-exam-applicants-to-be-discontinued>

Foundations of Amateur Radio

Submitted By: Bob Vawter KW4RJ

What's in a sound?

Over the past few weeks I've been having my hearing tested. I've had the opportunity to discuss sound in some detail with an audiologist. Today as a result of a collision between a jar of chilli pickles and a tiled floor I've come to the realisation that sound is important in unexpected ways.

It will probably not come as a surprise to you that sound has an emotional component. Just think of a particular song, or a voice, or something that you've heard previously. The sound of a jack-hammer, or a bell, a horse or a jet, each completely different, impact on your mood. Some sounds are pleasant, others jarring. Some make you feel happy, others make you anxious or even angry.

For some time now I've observed in myself that there are times when I cannot stand sound and other times when I invite it into my life.

For example, if there's a HF radio going in the background and I'm attempting to have a conversation with a person in the shack, the sound coming from the radio causes irritation, to the point of needing to turn it off in order to actually hold a conversation. On the other hand, if there's a contest on, I can sit, happy as a clam, listening to HF all day and night, working out what station is calling, and making contact.

I'm raising this because it occurs to me that amateur radio is unlike broadcast radio where you're expected to actively monitor what is being transmitted. In my experience as a radio broadcaster you're talking into a microphone and the headphones you're wearing are connected to a radio receiver which is tuned to the station on which you're broadcasting. This gives you immediate live feedback on the state of your audio levels.

As an aside, I once witnessed a fellow broadcaster who didn't feel the need to wear headphones. They were blissfully unaware that their voice was being transmitted into silence because the audio fader on their microphone was down.

In amateur radio however, we don't often do such things. We transmit blind most if not all of the time. It's rare that we even hear our own voice on-air, let alone hear it in real time. If that's not enough, using sideband, it's easy to modify the sound of a person by changing the frequency slightly, making their voice either higher or lower, just by adjusting the dial.

It occurred to me that how your voice is perceived by the other station assists in how that station can hear you and make contact.

Using the local repeater is a good but subtle example. If you've listened for a while, you might have observed that there are stations that are easy to understand and others that are not. Sometimes that comes down to individual accents, but in my experience a much larger impact is caused by the actual transmission itself.

Is the microphone gain set correctly, is there any filtering in play, is the station on the correct frequency, is the transmitter using the correct mode and other more subtle things like background noise, speaking volume and distance and direction in relation to the microphone.

We often talk about less being more and you already know that I'm a big fan of low power or QRP operation. Making contacts is absolutely about using the right antenna, the right mode, the correct band and time of day, but the sound coming from your station is just as important.

If you have the ability to use two radios simultaneously, then I'd recommend that you find a way to either use a local repeater, or a cross-band repeater, or even a remote web-based radio, to hear what you actually sound like on-air, live, and experiment with the various settings on your radio in order to test and improve the quality of your voice.

Whilst we as radio amateurs don't standardise our signals, though personally I think it would be a great idea, there's plenty of improvement to be had by taking some time out of your next on-air activity to have a long hard listen to yourself.

I'm Onno VK6FLAB

- This article is the transcript of the weekly 'Foundations of Amateur Radio' podcast, produced by Onno Benschop, VK6FLAB who was licensed as radio amateur in Perth, Western Australia in 2010. For other episodes, visit <http://vk6flab.com/>. Feel free to get in touch directly via email: cq@vk6flab.com
- If you'd like to join a weekly radio net for new and returning amateurs, check out the details at <http://ftroop.vk6flab.com/>, the net runs every week on Saturday, from 00:00 to 01:00 UTC on Echolink, IRLP, AllStar Link, Brandmeister and 2m FM via various repeaters, all are welcome.

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

Many times we need electronics parts to complete our projects. One good company selling parts to amateurs is W5SWL ELECTRONICS. They have a full line of electronic parts you can buy at great prices. The company has low shipping rates and no minimum order. They carry electronics parts, coax supplies, and assembly hardware. The company also has a vast inventory of other supplies. Over 90 percent of their orders are delivered in 5 days or less. The company accepts PayPal and offers a 100 percent satisfaction guarantee. Shipping is done through the US postal service. If you are looking for a company to place a small or large electronics order check them out. The web address is <https://www.w5swl.com/>

James Butler
KB4LJV

Amateur Hardware Update

By: James Butler KB4LJV

Many times we operate portable or on emergency power . We have operated many types of batteries over the years and we always look for a better battery. One company has developed a new style of battery for our operations off the grid. The company is called “BIOENNO POWER”. This company deals with LiFePO4 batteries. Lithium Iron Phosphate batteries offer many advantages for the radio operator. Built-in cell balancing electronics is standard, but requires the electronic charger for charging. The batteries are thermally and chemically stable. They are up to 70 percent lighter than sealed lead acid batteries. The batteries are good for up to 2000 charge cycles along with long one year shelf life. The price of a 12 VDC 9 AMP hour battery is under \$100. If you are looking for a modern high tech battery for your portable operations check out this battery line from BIOENNO POWER. Their web address is <https://www.bioennopower.com/>

One of their dealers is Hamsource in Shelton, CT-www.hamsource.com



James Butler
KB4LJV

**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**

YL NET – Please join us each Saturday night at 8:45 p.m. on the **146.625 repeater** for the YL Net. We enjoy hearing from you. PLEASE NOTE – FREQUENCY CHANGE.

Logbook Of The World (LOTW) User Guide

If you are a new user or planning to use "Logbook of The World" (LoTW), Gary, ZL2IFB, has put together an easy step-by-step guide or should we say manual (about 33 pages with pictures) to help you use LoTW.

The PDF file is available for download at:
https://www.g4ifb.com/LoTW_New_User_Guide.pdf

73, W4WTN

New Repeater in West Memphis & Buy/sell Facebook Group

There is a new System Fusion repeater in West Memphis.

The frequency is 442.400 with a PL Tone of 107.2 for non System Fusion users.

Also, Marc says there is a Buy and Sell Facebook Group for the Memphis Metro Area. The link is:

www.facebook.com/groups/memphismetroareahamradioswapshop

73, Marc Gwin AG5QY

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 38184-2768

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>.

2021 Board of Directors

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sfrazier1@bellsouth.net
901-218-6385

Vice President

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Repeater Trustee

Barry McDonald W5CJ
W5CJ@ARRL.NET
901-853-0510

Upcoming Events

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

Tennessee Amateur Radio License Plate Submitted by Joe Lowenthal, WA4OVO

As of October 2018, all you need to renew your ham tag is to provide a copy of your FCC license with a copy of your last year's registration or a renewal notice, if you received one, and your payment. The State of Tennessee is again making Amateur Radio License Plates since reconstruction of the building that was demolished by the tornado in Nashville in February 2020. The link below is for information and instructions about Tennessee ham radio call sign Emergency/Safety automobile license plates: [Vehicle Titling & Registration \(tn.gov\)](#) The application can be found at this link: Application for Special Amateur Radio License Plates [in.pdf](https://www.tn.gov/content/dam/tn/revenue/documents/forms/titlereg/f1312601Fill-in.pdf)

Memphis Area VHF/UHF Nets

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

Proposed BYLAWS

OF

DELTA AMATEUR RADIO CLUB, INC.

ARTICLE I – NAME

1.1 NAME

1.1.1 The name of this organization shall be the Delta Amateur Radio Club, Inc. hereinafter referred to in these by-laws as “Delta Amateur Radio Club”, “DARC”, “Delta Club” or “Club”.

ARTICLE II – ORGANIZATION

2.1 PURPOSE

Delta Amateur Radio Club is incorporated as a non-profit organization in accordance with the laws of the State of Tennessee for the purpose of promoting the advancement of amateur radio through its use in emergency situations in which normal lines of communication are disrupted or otherwise not feasible. To prepare to be of assistance in emergency situations, the DARC will participate in the following activities:

2.1.1 Encourage continued education and training for prospective and current amateur radio operators by providing opportunities for both academic and hands-on training.

2.1.2 Encourage research and experimentation with new and existing technologies in an effort to facilitate the advancement of the field of radio communications and the

support of any literary or scientific undertaking promoting the advancement of the radio art.

2.1.3 Promote amateur radio by providing opportunities for fellowship among members and other interested persons for educational, civic, social, and recreational purposes.

2.1.4 Promote public awareness of amateur radio and its many contributions to public welfare.

2.1.5 Maintain licensed amateur radio stations for operation by its membership, in the name of its Trustee, when and where appropriate, under the rules of the Federal Communications Commission of the United States of America, hereinafter referred to as the FCC.

2.1.6 Exercise any and all general powers, whether herein enumerated or not, which a nonprofit corporation may or can exercise under the Constitution and Laws of the State of Tennessee that are not inconsistent with the purpose herein contained.

2.2 AFFILIATION

2.2.1 DARC is an affiliate of the American Radio Relay League "ARRL."

2.3 NON-PROFIT CORPORATION

2.3.1 The Delta Amateur Radio Club is a non-profit corporation and shall not have or issue shares of stock. No dividend will be paid, and no part of the income of the corporation will be distributed to its members. The Club may pay members fair market value for goods or services provided to the Club, and the Board may reimburse members for authorized expenses. The Club may offer door prizes that are appropriated in the budget.

2.3.2 **LOANS TO MEMBERS:** The Delta Amateur Radio Club shall make no monetary loans to any of its members.

2.3.3 RIGHTS AND INTERESTS IN ASSETS: No member shall have any vested right, interest, or privilege in or to the assets, functions, or affairs of the DARC, or any right, interest, or privilege which may be transferable or inheritable, or which will continue if their membership ceases.

2.4 AUTHORITY TO INDEMNIFY

2.4.1 The DARC does indemnify any directors, officers, incorporators, and employees of the DARC from any liability regarding the DARC and the affairs of the DARC, unless the person fraudulently and intentionally violated the law and/or maliciously conducted acts to damage and/or defraud the DARC, or as otherwise provided under applicable statute.

2.5 DISSOLUTION PROCEDURE

2.5.1 Upon dissolution of the Delta Amateur Radio Club, Inc., or the forfeiture of the DARC's Articles of Incorporation, the Board of Directors shall have the power to dispose of the assets of the DARC after paying or making provisions for payment of all liabilities of the DARC. The Board shall distribute or dispose of the assets of the DARC by transferring or conveying such assets, or the proceeds of the sale, to another corporation or organization which is organized and operated exclusively for charitable, educational, or scientific purposes. In the event the Board fails to or is unable to distribute such assets in accordance with the provisions of this Article, any DARC member may petition a court of appropriate jurisdiction to assume jurisdiction over the assets and accomplish a distribution in accordance with the intent and purpose of this section.

ARTICLE III – MEMBERSHIP

3.1 MEMBERSHIP APPLICATION

3.1.1 Membership in the DARC is open to all licensed amateur radio operators and to any other individuals with an interest in amateur radio without regard to race, creed,

color, sex, sexual orientation, national origin, religion, disabilities, or any other grounds prohibited by state and/or federal law.

3.1.2 Any person wishing to join the DARC may apply for membership by submitting a completed membership application, along with any necessary dues, to the Secretary or Treasurer or by mailing their completed application and dues to the DARC mailing address.

3.1.3 All prospective membership applications must be approved by a majority of the Board of Directors at the earliest board meeting following the application for membership. Should a membership application be denied, the Board of Directors must make every attempt to notify the applicant of the denial, as well as the reason for the denial, within thirty (30) days of the denial.

3.1.4 Members in the DARC shall hold membership based on only one (1) of the available membership classifications, as defined in Section 3.2.

3.2 MEMBERSHIP CLASSIFICATIONS

DARC offers the following classifications of membership:

3.2.1 Individual Annual Member: Anyone holding a valid amateur radio operator's license that is issued or recognized by the FCC.

3.2.2 Non-Licensed Individual Annual Member: Non-Licensed membership is available to anyone interested in amateur radio communications and who does not hold a valid amateur radio license as specified in Section 3.2.1. Non-Licensed members may not vote or serve on the Board of Directors. Non-Licensed members may serve on committees.

3.2.3 Family Annual Member: Anyone meeting the conditions of Individual Membership or Non-Licensed Individual Membership and who shall reside at the same address as an existing Individual Annual Member in good standing of the DARC. At least one (1)

member of the household shall be an Individual Annual Member of the DARC in order for any other member of the same household to apply for Family Annual Membership. Licensed family members shall have the same status as Individual Annual Members and unlicensed family members shall have the same status as Non-Licensed Annual Members.

3.2.4 Individual Life Member: This type of membership is no longer available, but those who were classified as such are entitled to all the privileges of Individual Annual Members.

3.2.5 Family Life Member: This type of membership is no longer available, but those who were classified as such are entitled to all the privileges of Family Annual Members.

3.2.6 Non-Licensed Life Member: This type of membership is no longer available, but those who were classified as such are entitled to all the privileges of Non-Licensed Individual Annual Members.

3.2.7 Honorary Life Member: Any person may be granted an honorary membership in the DARC by a majority affirmative vote of the membership present at any regular DARC meeting. Those who were classified as such are entitled to all the privileges of Individual Annual Members.

3.2.8 Change of Status: A membership classification is determined by the status of the amateur radio operator's license and may be subject to change during the course of the membership year, should the license status change during the membership year.

3.3 VOTING CLASSIFICATIONS

There shall be two classifications of voting rights consisting of:

3.3.1 Voting Member: All members who pay their annual dues (at the rate recommended by the Board and approved by the membership) and hold a current valid

amateur radio operator license as specified in Section 3.2.1. Individual, Family, Individual Life, Family Life, or Honorary Life shall have one vote each in all matters.

3.3.2 Non-Voting Member: All members not holding a valid amateur radio operator license. This will generally be, but is not limited to, Non-Licensed Individual Annual Members and Family Annual Members who do not hold a valid amateur radio operator license as specified in Section 3.2.1.

3.4 MEMBERSHIP DUES

3.4.1 Membership dues, in an amount determined by the Board of Directors and approved by a majority of the voting membership present at the next regular membership meeting, shall be assessed annually and are payable during the renewal period of January 1 through March 1. Honorary Life Members shall be exempt from payment of DARC dues.

3.4.2 Prorating of Dues: Dues for new members that have not been a member during the preceding three years shall be prorated from the date of application based on a quarterly basis according to the following schedule:

<u>From</u>	<u>To</u>	<u>% of applicable dues</u>
Jan 1	Mar 31	100 %
Apr 1	Jun 30	75 %
Jul 1	Sep 30	50 %
Oct 1	Dec 31	25 %

3.4.3 Non-Payment of Dues: Non-payment of DARC annual membership dues shall be cause for loss of club membership and all associated privileges until said payments are brought up-to-date in accordance with these bylaws. Members removed for nonpayment of dues shall be reinstated to their previous membership status upon full payment of all applicable dues for the current fiscal year.

3.5 EXPULSION FROM MEMBERSHIP

3.5.1 Expulsion of a Member: Any member who willfully and knowingly violates any of the DARC's or ARRL's policies and procedures shall be liable for expulsion from the DARC. A member shall also be subject for expulsion from the DARC for willfully and knowingly violating the FCC rules, Part 97, which results in suspension or revocation of that member's FCC license or results in a finally adjudicated monetary forfeiture to the U.S. Government.

3.5.2 Process of Expulsion: The Board shall determine if there is sufficient evidence and if the infraction rises to the level that necessitates expulsion from the DARC. These matters shall be handled on a case-by-case basis and by simple majority vote of the Board.

3.5.3 If the Board votes to recommend to expel, the accused member must be notified of the accusation of misconduct by certified mail, return receipt requested.

3.5.4 The Board will report its recommendation to the DARC membership at the next membership meeting. The accused member will then be given an opportunity to present a rebuttal of the accusation against them. If the accused member does not present a rebuttal, the accused member's membership shall be terminated.

3.5.5 When the accused member has finished making their rebuttal, the members of the DARC, by a two-thirds majority vote of the quorum, may adopt the recommendations of the Board. If the Board's recommendations are not adopted, the accusation(s) of misconduct made against the accused member shall be declared null and void.

3.5.6 An Officer or Trustee must first be removed from his or her office before an expulsion proceeding can commence.

3.5.7 After final adjudication and completion of expulsion proceedings, any member, Officer, or appointee shall be removed from the membership rolls of the DARC. Upon expulsion from the DARC, any member, Officer, or appointee shall immediately turn

over all records, assets, equipment, and information belonging to, or necessary for the continuing activities of the DARC. Once a member is expelled, re-admittance to DARC membership shall only occur upon a unanimous affirmative vote of the entire Board of Directors of the DARC.

ARTICLE IV – BOARD OF DIRECTORS

4.1 OFFICERS & BOARD OF DIRECTORS

4.1.1 The Officers of the Board of Directors shall be President, Vice-President, Secretary, Treasurer, Immediate Past President, Director of Programs, Director of Meetings and Special Events, Director of Publications, Director of Training, and the current Trustee of the W4BS club call. All officers shall have one vote in all matters on which the Board of Directors vote.

4.1.2 The President may appoint the following non-voting positions to serve on the Board of Directors concurrent with the President's term: Public Information Officer, Club Historian and Club Counsel. The appointed positions shall serve at the President's discretion.

4.1.3 The Board of Directors shall be composed of the DARC Officers and appointed positions.

4.2 TERM OF OFFICE

4.2.1 Board of Directors members described in these by-laws shall be elected annually at the regularly scheduled DARC meeting in November.

4.2.2 The DARC Officers shall take office on January 1 following the election and serve for one (1) year, or until their successor assumes their office.

4.3 CHAIRMAN OF BOARD

4.3.1 The President shall preside over all Board of Directors meetings unless otherwise specified in 5.2.3.

4.4 VOTING RIGHTS

4.4.1 All officers of the Board shall be entitled to vote on any matter properly brought before the Board of Directors unless otherwise prohibited within these by-laws.

4.5 DUTIES

4.5.1 The Board of Directors shall conduct all business of the DARC not otherwise delegated by the by-laws to the membership.

4.6 MEETINGS

4.6.1 The Board of Directors shall meet on the first Tuesday of each month.

4.6.2 All meetings of the Board of Directors will be open to all DARC members in good standing except as provided in Paragraph 4.6.3.

4.6.3 In cases where the Board of Directors is to discuss matters specified in Article IV Section 11, "Removal from Office," or Article III Section 5, "Expulsion from Membership," the Chairman shall have the authority to close, at their discretion, such meeting to anyone not a member of the Board of Directors for the duration of such discussion. This authority is given to the Chairman to allow for the protection of confidentiality and privacy of the DARC members involved.

4.6.4 The Board of Directors may consider matters that arise between meetings through electronic or other available means.

4.6.5 Quorum: A quorum shall consist of at least six (6) voting members of the Board. In the absence of a quorum, no action taken by the Board shall be valid.

4.7 REPORT OF MEETING

4.7.1 Following each Board of Directors meeting, the presiding Officer shall provide a report to the DARC membership in the Club newsletter and/or at the next regular DARC meeting. This report will include at a minimum a summary of any actions taken by the Board.

4.8 NOMINATIONS

4.8.1 A nominating committee consisting of three (3) members shall be appointed by the President at the regular August membership meeting. The nominating committee shall nominate a President, Vice President, Secretary, Treasurer, Director of Programs, Director of Meetings and Special Events, Director of Publications, and Director of Training. These names will be placed in nomination at the regular October membership meeting.

4.8.2 All nominees must be members of the DARC in good standing and possessing voting rights. To be nominated as an Officer of the DARC, nominees must have attended not less than 50% of the past twelve (12) meetings.

4.8.3 The presiding Officer at the regularly scheduled DARC meeting in October shall open the floor for nominations. Nominations will be taken from the floor for all elected Officers whose term expires on December 31. Once opened, the time period for nominations shall remain open through the November meeting elections. After any and all nominations have been received from the floor during the November DARC meeting, the presiding DARC Officer at the November meeting shall close the nominations. Elections shall immediately follow the closing of the nominations.

4.9 ELECTION PROCEDURES

4.9.1 The presiding DARC Officer shall supervise the election.

4.9.2 Balloting shall be by written ballot.

4.9.3 If there is only one candidate for an office, that candidate shall be declared elected by a majority voice vote of the members present. A candidate shall be elected to an office by a simple majority of licensed paid-up members in attendance at the regular annual November meeting.

4.9.4 If for any reason elections are not held in November, the election shall be held at the next regular membership meeting thereafter.

4.9.5 The DARC Secretary shall count written ballots cast at the election. The person receiving the highest number of votes for any office shall be declared elected. The secretary shall then inform the presiding DARC Officer and the members present at the election meeting of the results of the election. In the event of a tie an immediate run-off will be held.

4.9.6 The results shall be published in the next available issue of the DARC newsletter. They may also be published on the DARC's website and other DARC communications media.

4.9.7 The newly elected Board of Directors shall take office in accordance with these by-laws.

4.10 OFFICER VACANCY

4.10.1 Should any DARC office, except that of President, be vacated for any reason, that position shall be filled by any eligible DARC member who shall be voted upon and

approved by a simple majority of the remaining Board. This person shall serve the remainder of the current term.

4.10.2 Should the office of President be vacated for any reason, the Vice-President shall assume the office and duties of President for the remainder of the term leaving the office of Vice-President vacant for filling by the Board as set forth in these by-laws.

4.11 REMOVAL FROM OFFICE

4.11.1 The Board of Directors may recommend the removal of any DARC Officer for any of the following reasons:

(a) Poor attendance, such as being late or absent for multiple board and/or general membership meetings without good reason.

(b) Failure to pay dues within the period in which dues are to be paid.

(c) Gross misconduct as determined by a majority of the Board in the performance of official duties.

(d) Behavior that brings discredit to themselves or to the DARC such as an FCC license suspension, or other civil or criminal action.

4.11.2 Any Officer removed from their position retains membership within the DARC unless expelled from the DARC. Should such expulsion from the DARC be deemed necessary, then expulsion shall be handled as specified in Article III Section 5, "Expulsion from Membership."

4.12 PROCEDURES FOR REMOVAL

4.12.1 At the next Board of Directors meeting, the matter of removal from office of a DARC Officer must be taken up before any other business may be conducted. The Board members shall vote, except for the accused Officer, upon the removal action. A simple majority of the Board members present shall cause the motion to carry and the accused Officer shall be removed from office effective immediately.

4.12.2 Any vacancies resulting from this procedure shall be filled in accordance with Article IV Section 10, "Officer Vacancy."

ARTICLE V – DUTIES OF BOARD OF DIRECTORS

5.1 PRESIDENT

5.1.1 The President shall preside at all DARC membership and board meetings and shall vote only in the case of a tie in which case he or she will cast the deciding vote.

5.1.2 The President shall conduct the meetings according to the rules adopted: enforce due observance of the Charter of Incorporation and the By-laws, and decide all questions of order.

5.1.3 The President shall sign all official documents adopted by the club and none other.

5.1.4 The President shall perform all customary duties pertaining to the office of President.

5.1.5 The President shall be an ex-officio member of all DARC committees.

5.1.6 The President may, from time to time, delegate to others the authority to act as DARC spokesperson or representative of the DARC but shall retain the ultimate authority to act as the primary spokesperson and representative of the DARC.

5.2 VICE PRESIDENT

5.2.1 The Vice President shall serve as membership chairman and solicit and encourage new members.

5.2.2 The Vice President shall assist the President in the performance of the President's duties.

5.2.3 The Vice President shall preside over all DARC functions in the stead of the President should the President not be able to do so.

5.3 SECRETARY

5.3.1 The Secretary shall maintain the official and accurate record of all DARC activities, including, but not limited to:

(a) Copies of all meeting minutes, to include general membership, and Board meetings.

(b) Originals or copies, as appropriate, of all correspondence relating to DARC business, regardless of the author thereof.

(c) A copy of all amateur radio licenses issued to the DARC through its License Trustees as herein provided.

(d) The current name, address, and telephone number of the DARC License Trustee of the various DARC radio systems.

(e) A current and accurate list of the DARC membership. This list may include call signs, email addresses, meeting attendance or other appropriate information that is determined to be needed for the completion of Club duties. This list shall be shared by the Secretary with other Board members to assist in their roles.

(f) Any other documents deemed appropriate by the DARC Board of Directors.

5.3.2 Documents having legal or historical significance shall be stored and protected in an appropriate manner.

5.3.3 No original documents in the custody of the Secretary may be transferred, assigned, or given to any other party without the express permission of the President. Should information be required, only photocopies shall be provided to the requestor.

5.3.4 The Secretary may write official correspondence for the DARC.

5.3.5 The Secretary shall, upon completion of their term of office, turn over all materials and documents to the incoming Secretary in a timely manner.

5.4 TREASURER

5.4.1 The Treasurer shall maintain a checking account in the name of the Delta Amateur Radio Club, Inc. for the deposit of funds and the normal disbursement of funds.

5.4.2 The Treasurer shall maintain and keep accurate, current, and detailed records of all financial transactions to which the DARC is a party.

5.4.3 The Treasurer shall pay no bills except regular reoccurring expenses and those authorized by the current budget. All other expenditures other than the ones stated

must be approved by a vote of the general membership prior to making the expenditure.

5.4.4 The Treasurer shall maintain an interest-bearing savings account or Certificate of Deposit(s) for the deposit of funds in excess of normal operating monies.

5.4.5 The Treasurer shall set up and maintain an effective system to track budget status and projected budget conditions to alert the Board to any potential financial shortfalls that may occur.

5.4.6 The Treasurer shall prepare a budget according to Article 9 Section 4 “Adoption of the Budget.”

5.4.7 The Treasurer shall provide, as requested, to the Board or the President, a detailed and complete listing of receipts, expenditures, receivables, and liabilities.

5.4.8 The Treasurer shall provide at each regular Board meeting an itemized statement of receipts and disbursements. Should any DARC member wish to inspect the financial records, a request may be made to the Treasurer during a meeting of the Board. No information concerning DARC financial status shall be given outside normal DARC channels without the express permission of the Board. No document shall leave the possession of the Treasurer without the express permission of the Board.

5.4.9 The Treasurer shall report at each regular membership meeting the receipts and disbursements for the prior month. An itemized statement of receipts and disbursements for the prior month shall be published in the DARC newsletter each month.

5.4.10 The Treasurer shall assist other authorized parties in a timely manner, as required, with any audits or reviews of DARC books, tax matters, incorporation, and any other issues that may arise. Questions regarding how to handle these items shall be directed to the Board.

5.4.11 The Treasurer shall file, in a timely manner, the necessary tax documents with the appropriate State and Federal agencies, as required by the corporation by-laws. Copies of these reports shall be maintained with other financial records.

5.4.12 The Treasurer shall, at the completion of the term of office, turn over all materials and information to the incoming Treasurer in a timely manner.

5.5 DIRECTOR OF PROGRAMS

5.5.1 The Director of Programs shall be responsible for scheduling all speakers at club meetings; be responsible for ensuring that any special equipment, if required, is on hand for the presentation; and is to work with the program guest(s) to make sure that everything is provided for the presentation.

5.6 DIRECTOR OF PUBLICATIONS

5.6.1 The Director of Publications shall be responsible for gathering, editing, and publishing of information for any club publications, including but not limited to the monthly DARC newsletter and the DARC website.

5.6.2 The Director of Publications, with assistance of the Secretary, shall maintain a DARC email list of members and nonmembers for the purpose of distributing the DARC newsletter and other information.

5.7 DIRECTOR OF TRAINING

5.7.1 The Director of Training shall coordinate any classes or special training sessions of the DARC.

5.7.2 The Director of Training will plan, coordinate, and work with the Public Information Officer and the Director of Publications to distribute any information to the public on any such training sessions.

5.7.3 The Director of Training is responsible for coordinating the Net Control Operators for DARC repeater nets. The Director may appoint a Net Manager to serve concurrent with the term of the Director.

5.8 DIRECTOR OF MEETINGS AND SPECIAL EVENTS

5.8.1 The Director of Meetings and Special Events shall be responsible for ensuring that the meeting room is available.

5.8.2 The Director is responsible for purchasing refreshments for each monthly membership meeting.

5.8.3 The Director is also responsible for securing any meeting facilities for any sit-down eating meetings or club picnics, or for any other requirement for any meeting facilities that might occur.

5.9 PUBLIC INFORMATION OFFICER

5.9.1 The Public Information Officer shall be appointed by the President to be responsible for generating publicity and recognition for all DARC functions and activities.

5.9.2 The Public Information Officer shall maintain an accurate and permanent record of their activities and at the completion of the term of office turn over all materials and information to the incoming Public Information Officer in a timely manner.

5.9.3 The Public Information Officer shall have no voting privileges on Board matters.

5.10 CLUB HISTORIAN

5.10.1 The Club Historian shall be appointed by the President to keep a record, both written and pictorial, of all club events.

5.10.2 All written and pictorial documents shall be maintained and turned over to the successor in a timely manner.

5.10.3 The Club Historian shall have no voting privileges on Board matters.

5.11 CLUB COUNSEL

5.11.1 The Club Counsel may be appointed by the President to advise the Board of Directors on any legal matters that might arise.

5.11.2 The Club Counsel shall have no voting privileges on Board matters.

5.12 W4BS TRUSTEE

5.12.1 The Trustee shall be appointed by the President and will be responsible for any use of the W4BS call.

5.12.2 The Trustee shall hold a valid Amateur Extra Class license or the current highest FCC amateur radio license.

5.12.3 The Trustee will hold the position on the Board with full voting privileges on Board matters until the President recommends a successor and the Board approves the recommendation.

ARTICLE VI – MEMBERSHIP MEETINGS

6.1 MEETINGS

6.1.1 The regular meeting of members shall be held on the second Tuesday of each month at a time and place specified by the Board of Directors. The Board of Directors may change the date, place, and/or time of the meeting to coincide with special programs or occasions, and must notify the membership of the change via electronic mail (e-mail) at least one (1) day prior to the meeting date.

6.1.2 All DARC meetings and events may be recorded and published.

6.2 QUORUM

6.2.1 The members attending each meeting shall constitute a quorum for transaction of business: a majority rules.

6.3 SPECIAL MEETINGS

6.3.1 Special meetings may be called by the President at any time by a request of at least five members of the DARC. Notification shall be as outlined in Section 6.1.1.

6.4 ELECTRONIC MEETINGS

6.4.1 The Board of Directors may, in its sole discretion, determine that if any meeting of the members cannot be held in person, a meeting may instead be held through electronic or other available means.

Participation in a meeting held by electronic or other available means shall constitute presence in person at the meeting for all purposes, including quorum and voting.

ARTICLE VII – DARC COMMITTEES

7.1 COMMITTEES

7.1.1 All committees, both standing and interim, are expected to operate and to serve the DARC in a manner consistent with the stated purpose of the DARC as specified in Article I of these by-laws.

7.1.2 All committee chairpersons serve at the request and the pleasure of the DARC President.

7.1.3 Repeater Committee: The W4BS Trustee may appoint a committee, which shall be chaired by the W4BS Trustee.

ARTICLE VIII – CLUB LICENSE TRUSTEES

8.1 REQUIREMENTS

8.1.1 As required by Title 47, Part 97 of the FCC rules governing Amateur Radio, the DARC shall designate License Trustee(s) to hold the licenses necessary to fully operate the various DARC repeater systems. This Article is intended to supplement the FCC rules, and should it be determined that this Article is in conflict with FCC rules, the FCC rules will prevail.

8.2 QUALIFICATION

8.2.1 Each DARC License Trustee shall be a member in good standing of the DARC and shall maintain the highest-class license currently issued by the FCC.

8.3 TRUSTEES SELECTION

8.3.1 In the event a License Trustee of record no longer meets the requirements of this Article or the License Trustee is no longer willing or able to serve as License Trustee, the DARC President shall select a new License Trustee. The DARC Board of Directors will ensure that all appropriate records are updated in accordance with FCC rules and regulations in force at the time of selection.

ARTICLE IX – FISCAL AFFAIRS

9.1 PERIOD OF FISCAL YEAR

9.1.1 The DARC fiscal year shall be from January 1 through December 31.

9.2 EXPENDITURES

9.2.1 The Board of Directors shall, by majority vote when a quorum is present, have the authority to authorize the expenditure of funds as outlined in the Club budget.

9.2.2 The Board of Directors has no authority to assume any debt on the Club's behalf.

9.3 DEPOSITORY

9.3.1 The Board of Directors shall select the depository of Club funds and shall determine the procedure of writing checks.

9.4 ADOPTION OF THE BUDGET

9.4.1 The Treasurer, with the help of the Board, shall prepare a proposed written budget for the upcoming calendar year by the December Board meeting.

9.4.2 At the January Board meeting, the status of the DARC funds and the financial transactions of the past year will be reviewed. At this meeting, the Board shall confirm a proposed written budget for the current calendar year. The proposed budget shall be published in the February DARC newsletter.

9.4.3 This proposed budget will show the income and expenses for the past year as well as the expected income and expenses for the current year.

9.4.4 The proposed budget shall be voted upon by the membership present at the February general membership meeting. The budget will be considered adopted by a simple majority vote of those members present.

9.4.5 Should an unexpected event arise that would result in expenses exceeding the total budgeted expenditures, the Board can request to amend the budget during a regular or special membership meeting. The amended budget will be considered adopted by a simple majority vote of those members present.

9.5 BOARD DISCRETIONARY SPENDING AUTHORITY

9.5.1 The purpose of the Board Discretionary Spending Authority is to allow the DARC Board the ability to spend a limited amount of money as defined in Section 9.5.2, without any prior approval, as necessary to conduct the business of the DARC.

9.5.2 The specific amount of the Board discretionary account shall be reviewed and revised, as necessary, at least annually at the Board's January budget meeting and allocated in the approved fiscal year budget.

9.5.3 The Board may review the budget and reallocate funds among categories if it deems it appropriate, so long as the overall total budget is not changed.

ARTICLE X – PARLIAMENTARY AUTHORITY

10.1 PARLIAMENTARY AUTHORITY

10.1.1 The rules contained in "Robert's Rules of Order Newly Revised" shall govern in all cases to which they are applicable, and in which they are not inconsistent with these by-laws.

ARTICLE XI – AMENDMENTS TO THE BY-LAWS

11.1 AMENDMENT PROCEDURE

11.1.1 Any voting DARC member may submit a proposed amendment to these by-laws at any regular meeting of the DARC. Such proposals must be written, signed by five voting members of the DARC, and must be given to the DARC Officer presiding at the regular meeting, who shall in turn give it to the President.

11.1.2 At the next meeting of the Board of Directors, the President shall present the proposed amendment to the Board, which will then discuss it and recommend either adoption or rejection of the proposed amendment, including in the recommendation the reasons for adoption or rejection. A decision on a recommendation may be postponed until the next meeting of the Board if the Board feels that additional investigation is required.

11.1.3 At the first regular meeting of the DARC following the decisive meeting of the Board, the Officer presiding at the meeting shall present to the DARC the Board's recommendation on the proposed amendment to these by-laws. The only action the DARC may take at this time is to set a date, time, and place at which a vote on the proposed amendment shall occur.

11.1.4 The Secretary shall convey copies of the proposed amendment and supporting comments from its creators, and the Board's recommendations and comments on the proposed amendments to the DARC Director of Publications for incorporation into the

next DARC newsletter. The newsletter shall also announce the date, time, and place of the vote on the submitted amendment. The same information shall also be given to the web site manager for incorporation onto the DARC web site and the DARC email list may be used to transmit the information by email. The meeting date for voting shall also be announced on all DARC nets prior to the voting meeting.

11.1.5 At the meeting of the DARC at which the vote on the proposed amendment shall occur, a two-thirds majority vote of the quorum present in favor of the proposed amendment is required to adopt the amendment.

11.2 TECHNICAL AMENDMENTS OF THE BYLAWS

11.2.1 The Board of Directors is authorized to correct article and section designations, punctuation, and cross-references and to make such other technical and conforming changes as may be necessary to reflect the intent of Delta Amateur Radio Club.

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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