

# SPARKS

P.O. Box 342768 \* Memphis, Tennessee 38134-2768 \* Volume 71 \* December 2021



**Delta Amateur Radio Club (DARC)**

**Sparks Newsletter**

**Website: <http://deltaclub.org>**

**Facebook:**

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

## **W4BS**

### **REPEATER SYSTEM**

146.820 <sup>-107.2</sup>	* 147.360 <sup>+107.2</sup>
146.625 <sup>-107.2</sup>	443.200 <sup>+107.2</sup>
224.420 <sup>-107.2</sup>	443.700 <sup>+107.2</sup>
144.390 Digipeater	*Fusion

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

Topic: December 2021 Member Meeting

Time: Dec 14, 2021 07:00 PM Central Time (US and Canada)

Join Zoom Meeting

<https://us02web.zoom.us/j/85784575809?pwd=dDU5RU0yNVYwYmIrVzVWQXZTM1NIZzO9>

Meeting ID: 857 8457 5809

Passcode: 007789

**Program:** "WWII Radio Room Aboard USS Red Oak Victory" *via YouTube.*

There will be on FCC Testing Tuesday night.

## **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 for the 2022 Board of Directors was held during the November meeting.

Below is the list of DARC 2022 Board of Directors:

President: Mary Jean Hall KY4FB

Vice President: John Reiners KN4BVH

Secretary: Carolyn Horne KX4QF

Treasurer: Jim Martin KD4FUU

Director of Training: Joe Lowenthal WA4OVO

Director of Publications: Mike Harrison KM4MRW

Director of Programs: Steve Romagni W4DTA

Director of Meetings and Special Events: Scott Adams KM4PMU

## **President's Corner**

**Submitted by Steve Frazier, KK4VPT**

In November of 2013 I was looking for something new to do and thought I would enjoy amateur radio. I did not know anyone who was a ham, but had been around and used radios for as long as I can remember. My dad worked for a large construction company here in Memphis and had an "Adam-12" Motorola radio in his car from at least the early 1970's thru the 1990's. I had a CB radio in my car during the CB craze of the 70's and 80's and I have used radios as a private pilot since 1982. So I was comfortable with radios and interested to learn about what I now know is HF so I could communicate around the world. In addition to learning a lot more about radios, I thought I would have a chance to meet some new people.

As it turned out, I have learned a little about radios and been fortunate to meet a lot of new friends. I joined Delta Club January of 2014. So that I could learn more about Delta Club and ham radio, I participated in as many activates and functions that I could during 2014. In

recognition for my involvement, Delta Club named me as New Ham of the Year for 2014 and I would like to again say "Thank You" for that honor. I joined the Board of Directors in 2015 as Director of Meetings and Special Events. I was then VP during 2016 and 2017. And I have had the honor to be President of Delta Club from 2018 until now. I know that a lot of people hesitate to serve on the board of most clubs, but I will let you in on a secret and let you know that the upside of serving on the board offsets any downside.

Because of Covid, 2020 and 2021 have been full of changes and challenges. Delta Club has not only survived these challenges, but in many ways has actually grown. We were able to do this due to the dedication and hard work not only of our current members, but also because of the strong foundation built by all the members since 1961. I am confident that Delta Club is in good hands with the Board of Directors for 2022 and with your help will continue to be an important part of the amateur radio community and the Memphis area community.

I will be honest and say I have usually dreaded writing the President's Corner because I have always struggled to find the right words to say the right thing. This President's Corner is no exception. So I will just say "Thank you!"

Thank you for your support, for teaching me a little about radios, And for your friendship - in the past, now and in the future.

73 to all

Steve

**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**

October 30, 2021 through November 30, 2021

SUMMARY			
<b>Beginning Balance</b>	<b>\$18,623.91</b>	Minimum Daily Balance	\$15,623
Deposits & Credits	\$3,740.00 +	Average Monthly Statement Balance	\$17,836
Withdrawals	\$0.00 -		
Fees	\$0.00 -		
Automatic Transfers	\$0.00 +		
Checks	\$3,295.60 -		
<b>Ending Balance</b>	<b>\$19,068.31</b>		

DEPOSITS & CREDITS		
11/12	Deposit - Thank You	2,185.00
11/17	Deposit - Thank You	1,000.00
11/17	Deposit - Thank You	125.00
11/23	Deposit - Thank You	175.00
11/29	Deposit - Thank You	185.00
11/30	Deposit - Thank You	70.00
Total Deposits & Credits		<b>\$3,740.00</b>

CHECKS					
<u>Date</u>	<u>Check No.</u>	<u>Amount</u>	<u>Date</u>	<u>Check No.</u>	<u>Amount</u>
11/03	1556	3,000.00	11/30	1557	295.60
Total Checks					<b>\$3,295.60</b>

\* 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>
11/03	15,623.91	11/17	18,933.91	11/29	19,293.91
11/12	17,808.91	11/23	19,108.91	11/30	19,068.31

**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	\$37.17
<a href="#">View More Details</a>			

**Applications Received - Nov 2021**

(1) New Membership(s) - Pro-Rated Dues	\$25.00
(1) New Membership(s) - Dues Waived	\$0.00
(6) Membership Renewal(s)	\$145.00
Donations Received	\$25.00
<b>Total Received</b>	<b>\$195.00</b>

**Other Deposits**

Karen Chancellor Estate Sale	\$3,545.00
<b>Total Deposits</b>	<b>\$3,740.00</b>

<b>Debits/Payments</b>	
Check 1556 - Carol Chancelor (Estate Purchase)	\$3,000.00
Check 1557 - USPS (PO Box Rental / Postage)	\$295.60
<b>Total Payments</b>	<b>\$3,295.60</b>

**DARC Board of Directors Meeting Minutes**  
Submitted by Carolyn Horne, KX4QF

DARC Board of Directors Meeting Minutes for December 7, 2021

*Attendees: Steve Frazier KK4VPT, Mary Jean Hall KY4FB, Carolyn Horne KX4QF, Joe Lowenthal WA4OVO, Jim Martin KD4FUU, Mike Harrison KM4MRW, Ian Lucas KN4OEK, Ray Cole KX5RC, Scott Adams KM4PMU, Barry McDonald W5CJ and Len Grice W4MKS.*  
*Absent: None.*  
*Guests: Steve Romagni W4DTA.*

The regular monthly meeting of the Delta Amateur Radio Club Board of Directors was held on Tuesday, December 7, 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 current conditions warrant having a Zoom only meeting. The link to the meeting will be sent by email and may also be found on the in the SPARKS newsletter on the deltaclub.org website. Steve gave a review of this year’s accomplishments and activities and noted that he has been on the board since 2014, but feels it is time to pass the baton to Mary Jean Hall in 2022. He will elaborate on that in the President’s Corner.

Ian Lucas discussed options for our program this month. A program will be presented if time permits, with a general discussion following.

Jim Martin gave the Treasurer’s report. He also sent board members a draft of the proposed budget for 2022. The board had a brief discussion about any major expenses anticipated next

year. Joe Lowenthal mentioned the need for purchasing a unit for MTEARS link. Mike Harrison mentioned an invoice that came in for our website. Jim said he sent a check to cover it. There were questions about the cost which initially seemed high, but on review it was found to be reasonable. Steve Frazier said we have a couple of years left on our website domain name, so there should be no charges for that in 2022. Joe Lowenthal estimated that there is about \$1000 worth of equipment remaining to sell from Karen Chancellor's estate. A partial list will be published in SPARKS. Steve Frazier and Joe Lowenthal will also go through any consignment items that remain in the club's custody.

Joe Lowenthal said the General Class has finished. Seven students passed their exam. One person had the virus and could not make the test session, and another was in North Carolina so they will schedule their test session later. The class started with fourteen students, but some dropped out. Joe said he is planning an Extra Class for seven Monday nights starting January 3<sup>rd</sup> through February 14<sup>th</sup> from 6:15 to 9:30 PM. He has most of the instructors lined up. A Tech Class will probably start in mid-late in February.

Joe Lowenthal said that MARA plans to hold their FreeFest on Saturday, April 9, 2022. He made a motion to donate \$200 door prize for LeBonheur Children's Hospital drawing. Mike Harrison seconded the motion. All were in favor and the motion passed. Ian Lucas said the biggest concern the MARA board has is with the Bartlett Municipal Center which may limit attendees due to the virus. In view of that, the Delta Club board agreed to wait until February to buy prizes. Joe Lowenthal suggested we offer a battery as a prize again. For more information follow this link: <http://maraonline.org/freefest>.

Jim Martin said he renewed our P.O. box and bought stamps for the club. He asked about a donation to the Ellendale Church of Christ. Joe Lowenthal made a motion to donate \$300, Jim Martin seconded the motion, and all agreed. Joe will send them a letter based on the letter we sent them last year. The board agreed that it would be easier to switch accounts into new names next year. Jim said he will need some more checks from Steve until then.

Carolyn Horne read a list of one new and six renewed members (including one family). Joe Lowenthal made a motion to accept them all, Len Grice seconded the motion, and all agreed. Carolyn read a letter from Brad (Web) Webster, KC4WEB, which he sent to the club in appreciation of our support and activities, highlighting Joe Lowenthal, WA4OVO, as someone who has especially helped him along as a new Ham. He also included a donation, as have other members this year, and the board very much appreciates all of them.

Mike Harrison said he will send the SPARKS newsletter out by Sunday night, if not earlier. He will see about putting activities in the calendar for the New Year, 2022.

Steve Frazier announced that Swamp Stompers marathon is being held on Saturday, January 15, 2022, at Meeman-Shelby Forest State Park. He offered to be the main contact to coordinate our

club's participation. Mary Jean Hall said she would serve as Net Control again. For more info follow this link, where they call out the Delta Amateur Radio Club for our service in past years: [Swamp Stomper 50k/25k - January 15, 2022 \(ultrasignup.com\)](https://ultrasignup.com).

Barry McDonald gave an update on the 146.82 repeater and Channel 30 Brunswick Tower cable repairs. He said we still have intermittent problems, but we know it is due to arcing. He has been out to the site regularly and said they are to begin repairs this December. There are two large shipping containers there, a forklift, winch, and a trailer. He said their work should not shut us down at all.

Scott Adams said that the status of refreshments is good.

Joe Lowenthal suggested using PayPal for membership dues if we are going to continue meeting on Zoom in 2022. Steve Frazier said if we switch banks that may be an opportune time to do that.

The board welcomed guest Steve Romagni W4DTA as the new Director of Programs in 2022. Ian Lucas said he would get together with Steve to transfer historical program materials as well as suggestions submitted this year for programs not yet covered.

Mike Harrison reminded board members, especially new members, to send him a bio that he can publish on the club website.

Steve Frazier adjourned the meeting at 7:31 PM. The next regular Board of Directors meeting is scheduled for Tuesday, January 4, 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 November 9, 2021

### **Call to Order and Opening Remarks**

The regular monthly meeting of the Delta Amateur Radio Club was held on Tuesday, November 9, 2021, at 7:00 PM at the Ellendale Church of Christ and 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 46 members and guests were present for the meeting.

### **Minutes and Treasurer's Report**

Dan Wehner KN4FBJ moved to "approve the Treasurer's Report and Minutes as published in Sparks." Rick Kanschat N0KYN seconded the motion. The motion was adopted by the club without objection.

### **Announcements**

Steve Frazier KK4VPT thanked all who have served on the board this year. He then held a vote for the 2021-2022 Board of Directors candidates. All members present voted in favor with no objections. A list of candidates is available in this month's SPARKS.

Steve Frazier KK4VPT said there are items for sale from SK Karen Chancellor AG4CC's estate and invited members to view them if they are at the in-person meeting or look at the list published in SPARKS. There is reserve pricing right now, so they are not up for auction, but if more than one person is interested in an item, we will take bids starting at the price on the list.

Joe Lowenthal WA4OVO said the General Class has started, with the 2<sup>nd</sup> class held Monday night prior to the meeting. He said there are 12-13 students in the class, though 1 or 2 missed some sessions. Students are very active in their participation. There will be 6 nights of classes. An Extra Class is set to begin the first week of January, but he will wait until the first part of December to publicize it. All classes are on Zoom except for the test sessions. If anyone is interested in the Extra Class, they should send an email with the subject 'Extra Class' with their name, callsign, email and cell to [wa4ovo@gmail.com](mailto:wa4ovo@gmail.com).

Barry McDonald W5CJ gave an update on the 146.82 repeater. Climbers have been able to get up to the 146.82 repeater antenna at the 500-foot level and report on the state of the antenna and surrounding Channel 30 cable issues. There are still problems with the Channel 30 hard wire housing, which is leaking elevated levels of RF just above our antenna site. Barry showed photos and video taken by a climber which showed patching with JB Weld in the pipe flanges, gaps where leakage is occurring and active arcing along one of the cables while the climber was up there! There were burn marks as well from previous arcing at pipe flanges. Some of the joints are held together with cables and turnbuckles. The climber's video showed a loose connection in the pigtail that connects 1 5/8" cable to 1/2" heliax from our antenna, and he was able to tighten the connection after installing a shorter heliax. Barry said that was probably the source of our high SWR which forced us to shut down the repeater. With that fixed, the repeater has been switched back on, and we should be able to resume using it for club nets and events even though there may still be intermittent interference from the Channel 30 leaks. Another item on the climbers' list was



to head on up another 200 feet to the 700-foot mark and give a report on the club antenna at that level. Its feedline goes down to our area in the building at the bottom of the tower. Photos show that feedline going into a box, then to an approximately 10-foot antenna. Barry asked if anyone could identify the antenna, since it had no markings on it. Rick Tillman WA4NVM tested the SWR, and it was ok. They could not take an antenna analyzer up there because the RF would interfere with its operation. Barry closed by saying that he asked the Channel 30 Chief Engineer if repairs were being planned, and he said they were cleared by their board to begin in December 2021.

Ian Lucas KN4OEK asked if the 146.82 repeater would be used for the November 10<sup>th</sup> Wednesday night Delta Club Information Net, which he is hosting, and Joe Lowenthal WA4OVO said yes.

### **Discussion / Program**

This month's program is "Ask Dave Episode 14: Anatomy of a CW QSO" by Dave Casler KE0OG. Ian Lucas KN4OEK hosted the presentation.

### **Closing Remarks**

Steve Frazier KK4VPT outlined plans for the December meeting. He said typically there is a potluck, but there will probably not be one this year due to COVID restrictions. The option of having individually boxed meals was mentioned, and Steve invited anyone with suggestions for the meal format to let him know.

Joe Lowenthal WA4OVO wanted to go over the equipment for sale. Steve Frazier KK4VPT asked if anyone was interested in the items. There were a few items people were interested in buying, but we still have some equipment left.

Steve Frazier KK4VPT once again confirmed that the Delta Net will be on the 146.82 repeater starting on Wednesday, November 10<sup>th</sup>.

Joe Lowenthal WA4OVO moved to adjourn the meeting. All were in favor. Delta Club President Steve Frazier KK4VPT adjourned the meeting at 8:04 PM.

The next Delta Amateur Radio Club meeting will be Tuesday, December 14, 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**

*The year has come to an end with 53 licenses earned mostly via Zoom classes. I like the opportunity that Zoom provides since some students are remote from Memphis. However, the classes lose the camaraderie of in-class sessions. I look forward to the sixteenth year of classes for the Delta Club.*

*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 2022.*

*If you want to take a class, send an email to Joe at [wa4ovo@gmail.com](mailto: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*

34 Technician

15 General

4 Extra

### **Note:**

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

The current Technician ARRL Ham Radio License Manual is the Fourth Edition with question pool that became effective July 1, 2018 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 Technician license class will probably start in mid February 2022  
The next General license class will probably start in early November 2022

## PROPOSED CLASS

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

The next Extra Class license class will be via Zoom and start on Monday night, January 3, 2022 from 6:15-9:30pm for seven Monday nights until February 14th if there are six students registered. If you want to register for this class, send an email with Subject line: Extra Class and name, callsign, email address and cellphone number to wa4ovo@gmail.com.

## COMPLETED CLASSES

### **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.

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

A Technician license class was held on six Monday nights between September 20th and October 25th from 6:15-9:30pm. There were 16 students in the first class. The classes were held on September 20, 27, October 4,11 via Zoom.

The FCC exam was offered on October 18th after a review of the question pool questions and answers. Congratulations to Randy Clements KO4UDH, Ben Fonville KO4UDI, Kristine Howell KO4UDJ, Dylan Martin KO4UDK, Gordon Stark KO4UDL,

Dan Taylor KO4UDM, Jeff Blackwell KO4UDN and Jeffrey Foster KI5SEK. Extra congratulations to Kristine KO4UDJ and Ben Fonville KO4UDI for also upgrading to General. The FCC test session was at Ellendale Church of Christ, 7365 Hwy 70 (Summer Ave). Thanks to the Laurel VE team of Perry Hayes N4GJ, Steve Romagni W4DTA, Jelly Thompson N4HLT, Rick Tillman WA4NVM and Joe Lowenthal WA4NVM for providing the exam opportunity.

On October 25th there was an in-class equipment demonstration. Joe WA4OVO explained how to program radios for repeater operation, Rick WA4NVM showed Orbitron for satellite operations. He and Richard Martin K4DXF set up the satellite operations for an SO-50 pass. Rick Pellicciotti KJ4NWQ presented APRS and John Reiners KN4BVH informed the new hams about Shelby County ARES with an invite.



Class 5-21 Kristine KO4UDJ (seated) waiting to make SO-50 contact with the help of Rick WA4NVM and Richard K4DXF. Photo by Joe Lowenthal WA4OVO





Class 5-21 new hams learning about APRS from Rick KJ4NWQ Photo by Joe Lowenthal WA4OVO

### **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 22<sup>nd</sup> thru April 5<sup>th</sup> on Monday or Thursday nights. Twenty-two students started on the 22<sup>nd</sup> with 19 finishing the training. An in-person class was held on March 29<sup>th</sup> 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 15<sup>th</sup>. Congratulations to Mike Murell KO4QBT for earning his Technician and General licenses at the Olive Branch ARRL test session on April 20<sup>th</sup>.



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 24<sup>th</sup> . 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 4<sup>th</sup> thru February 25<sup>th</sup> 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 25<sup>th</sup> due to snow on the 18<sup>th</sup>. 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 25<sup>th</sup>.

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 26<sup>th</sup> to December 7<sup>th</sup> from 6:15-9:30pm. The nights were Monday October 26, Monday November 2<sup>nd</sup>, Thursday November 12<sup>th</sup>, Monday 23<sup>rd</sup> and ARRL FCC testing Monday December 7<sup>th</sup>.

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

upgrading to General on December 21<sup>st</sup> 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.

Karen Chancellor Equipment Pricing for December 2021 Sparks

NO	<u>New</u>	<u>eBay or eHam</u>	<u>Sell Price</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Model</u>	<u>Comments</u>
1	30		25	Antenna 20m mobile	MFJ	MFJ-1620T	3/8x24 threads
2	30		15	Antenna Throw Bag	Weaver		12oz w/ string
3	25		20	Antenna 6m mobile	MFJ	MFJ-1606T	3/8x24 threads
4	25		20	Antenna 6m mobile	MFJ	MFJ-1606T	3/8x24 threads
5	220	--	150	Antenna, HF	Cameleon	CHA-Hybrid-Mini	
6	75		50	Antenna, HF Sloper	Cable Help	75/80 meters	
7	400	428 350	300	Antenna, Loop	Cameleon	CHA-F Loop	
8	59	\$67	35	Battery Protection	Victron Energy	BP12/24 100	100 amp
9	45	--	15	Battery12V	MightyMax	ML22-12	22 amp SLA
10	30		15	Coax, RG-8X, 25ft	Southwire	991020	BNC-BNC
11	43		20	Coax, RG-8X, 50ft	Southwire	991020	BNC-BNC
12	60		30	Coax, RG-8X, 75ft	Southwire	991020	BNC-BNC
13	30		20	Ground Rod, 4ft, copper clad			New
15	60		30	Isolator, RF, Line	MFJ	MFJ-915	New
16	100	--	40	Mast, portable	Sotabeams	Tactical 7000hds	
17	33		20	PowerPole block	Chunzelhui	F-1011	45A 6 ports, no fuse
18	40		20	Receiver, SDR	RTL-SDR	RTL 283U	DVB-T+DAB+FM+SDR
19	30		20	Solar Panel	Sunapex		10 watt, flexible
20	105	43 237	60	SWR/Power Meter	Diamond	SX-200	1.8-200 MHz, 200 watts
21	57		45	SWR/Power Meter	Surecom	SW-102	up to 125 watts
22	44		30	SWR/Power Meter	Surecom	SW-33	up to 100 watts

23		600-750	700	Transceiver HF	Yaesu	FT891	w/ MFJ-939Y tuner
24	900	550	500	Transceiver HF/VHF/UHF	Yaesu	FT-817	w/Z-817 tuner
25	80	\$101	50	Transceiver Tri-Band 220	Btech	UV-5X3	144/220/440 1500mAh battery
26	80		25	Transceiver Tri-Band 220	Btech	UV-5X3	144/220/440 3800mAh battery/ only 220 antenna
27	275	--	100	Transceiver VHF 144	Kenwood	TM-281	works
28	27		20	Transceiver VHF/UHF	Baofeng	UV82L	w/charger, no manual in box
29	27		20	Transceiver VHF/UHF	Baofeng	UV82L	w/charger, no manual, no box
30	180	130	100	Tuner	MFJ	MFJ-939Y	w/ 1FT-891
31	114		90	Tuner, portable, QRP	LDG	Z-817	New in box/ 20w
32	19.22		15	Unun 1:49	HF Kits	kit	For end-fed antennas

Excerpt from Tennessee Section ARRL Update for November  
Supplied by Carolyn Horne, KX4QF

The ARRL Foundation Scholarship application period for the 2022-2023 academic year is open until December 31, 2021. For this academic year, 130 scholarships will be offered totaling \$900,000. Since only amateur radio operator students may apply, the chances of being selected for a scholarship are good. Since 1973, the ARRL Foundation, with the generosity of many donors and the hard work of a long line of dedicated Foundation Directors, has had a positive impact on the lives of many young amateur radio operator students. For more information, go to:

<https://na01.safelinks.protection.outlook.com/?url=http%3A%2F%2Fwww.arrl.org%2Fscholarship-descriptions&data=04%7C01%7C%7C7cac6b58407f4214b29308d99d956ef5%7C84df9e7fe9f640afb435aaaaaaaaaaaa%7C1%7C0%7C637714087404667496%7CUnknown%7CTWFpbGZsb3d8eyJWljojMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTiI6Iik1haWwiLCJXVCi6Mn0%3D%7C1000&sdata=MAKEnmkBLIIWjbsJIQRN8UHxJdhfE4qb5%2BcjgKjDn5o%3D&reserved=0>

**TN Auto License Plate Renewal**  
Supplied by Joe Lowenthal WA4OVO

You can renew by mail with copy of ham license and copy of renewal notice postcard to  
Shelby County Clerk  
P.O. Box 3743  
Memphis, TN 38173-0743

**Legacy CORES Registration System to be Retired**  
Supplied by Joe Lowenthal WA4OVO

Here is a URL link that has graphics for the below text. I received it from the Laurel VEC.  
2021-1031 - End of Legacy CORES.pdf

1. On Friday, 29 October 2021, the FCC published in the Federal Register a Report and Order (R&O) that requires entities and individuals doing business with the Commission to provide a valid email address when they register for FCC Registration Numbers (FRNs). Registrants are required to keep their information, including their e-mail address, current. The R&O is effective November 29, 2021.

2. After the rule revision goes into effect, the Office of the Managing Director (OMD) will announce by public notice the end date for access to legacy CORES.

### 3. Background

a. In 2000, the Commission established CORES, a web-based, password-protected, registration system that assigns a unique 10-digit FRN to a registrant for use when doing business with the FCC.

b. While initially voluntary, in 2001 the Commission established that individuals and entities were required to obtain FRNs and supply FRNs when doing business with the Commission. Email address information has not been previously required under the rule.

### 4. Key points

a. Although some individuals may lack resources or connectivity for a personal or home internet service, as compared to what was present at the time of the comment window for the 2010 NPRM, there is wide availability of free or low cost public internet access today. For example, users may access the internet for free in public libraries, and also in schools that offer internet connectivity for after-hours community use.

b. If there are entities and individuals that seek to do business with the Commission that lack access to internet service, they may need to use a proxy to register for an FRN with a valid email address, such as children seeking amateur radio licenses who rely on a parent or guardian to assist with the licensing process.

c. The public benefit of adopting this rule change, which will enable the Commission to retire legacy CORES and retain the new CORES to deliver enhanced features and security, outweighs the potential burdens that may be faced by a small subset of users to provide email address information. Because it helps authenticate the individuals who will be utilizing the Commission's information systems, the new CORES is a more secure tool for the Commission and external users through the use of personal username registration and email verification.

d. Requiring email address information as part of FRN registration and requiring users to keep up-to-date email addresses in CORES will enable the Commission to fully finalize its shift from U.S. Postal Service delivery to electronic delivery of notices and other correspondence related to CORES.

e. Therefore, retiring legacy CORES allows the Commission to operate more efficiently and effectively by freeing up the resources currently being used to maintain and operate two CORES systems, and by allowing the Commission to email CORES registrants CORES and FRN-related information rather than needing to send this information in mailed letters.

f. To streamline this transition and best prepare for any upcoming Commission business, new and current registrants are encouraged to use the modernized CORES as soon as possible. Because the modernized CORES has been available since 2016, users do not need to wait for legacy CORES to be retired or for the rule change announced here to go into effect to take this step.

g. Retiring legacy CORES will primarily impact three groups of CORES users. (1) First, users seeking to make changes related to their FRN will need to do so in the new CORES by associating with their FRN a user-specific identification (username) and password to continue managing their FRN. (2) Second, any person or entity that does not yet have an FRN, but seeks to do business with the Commission, will use the new CORES to register. (3) Third, users that forget their password and seek to reset their password online will use the new CORES to reset their password.

## 5. Recommendations.

a. Direct teams to stop referring applicants to the legacy CORES registration website effective immediately.

(1) Let's get out front of this change now.

(2) Applicants who register via the legacy CORES website will eventually have to use the updated CORES website to get a password and if applicable, pay their application fees.



**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](mailto: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>

**Can an Amateur Radio Handheld Stop a Train?  
Submitted By: Bob Vawter KW4RJ**

### Texas Club Averts a Train Disaster

Every year in the city of Weatherford (Parker County), Texas, the Peach Festival is held. As part of the festival, a bicycle ride - the Peach Pedal -- is conducted, supported by the cooperative efforts of local amateur radio clubs and their volunteers. This year, the Tri-County Amateur Radio Club of Azle, Texas, performed the pre-event legwork and organized the net control operators, rest stop operators, and the SAG (support and gear) vehicle operators. The Amateur Radio Club of Parker County and other clubs' members were signed up for other various radio positions to support the bicycle ride event. The forecast was fine.

The net control plan also called for a Parker County RACES operator to work the



radios in the Parker County Emergency Operations Center (EOC). This operator would be able to help with radio traffic between the Fire/EMS Dispatchers, the bicycle ride amateur radio net control, and the county Sheriff's deputies performing traffic control at busy intersections. The usual ride start-up radio traffic came and went, and then the calls for SAG began to increase for flat tires, broken chains, muscle cramps, and exhausted riders.

And then, cutting through the steady amateur radio traffic between the net control, rest stops, and SAGs, a SAG radio operator's voice could be heard transmitting, "Emergency, Emergency, Emergency." Mike Burns, KE5NCS, SAG 3 was sweeping the 61-mile course northbound on Bennett Road, following a pilot car and tractor/lowboy trailer with a large piece of equipment. The tractor-trailer high-centered and stopped on the Union Pacific Railroad road crossing. And then Burns heard an eastbound train blowing its horn for the road crossing. Net control Jon Diner, N5JLD, issued a stand-by, hold all radio traffic order, and transmitted, "Go ahead with your Emergency traffic, SAG 3."

Burns then transmitted: "Yes, there is a lowboy heavy equipment hauler with a bulldozer on it that just got high-centered on the railroad tracks at Bennett Road and Goen Road; it can't move, and there is a train coming." In the EOC, the Fire/EMS dispatcher said, "What did he just say?" just as net control N5JLD transmitted, "Please repeat your Emergency traffic."

The EOC Ride Control operator, Thad Weikal, KG5ATD, turned up the radio audio to near maximum so the dispatcher could hear the radio traffic clearly. As SAG 3 KE5NCS was repeating his Emergency traffic, the dispatcher said, "I am getting Union Pacific Railroad on the phone right now." Weikal at the EOC used a Fire/EMS radio to make a county-wide call to the county law enforcement dispatcher: "County, this is EOC Ride Control with Emergency traffic." The county dispatcher replied, "Go ahead with your Emergency traffic, EOC." "County, the railroad tracks at Bennett and Goen Roads are blocked by a tractor-trailer hauling a bulldozer, and there is a train approaching." The EOC dispatcher said, "UP has put out an all stop on all trains on that track." A County Deputy asked, "EOC, what was that location?" "Bennett Road and Goen Road." "Copy, I am en route," followed by radio silence.

When the EOC dispatcher's phone rang, the dispatcher answered and relayed, "UP says that they are showing all trains at full stop on that track." Weikal made a radio call to the County dispatcher, saying, "County, this is EOC Ride Control, Union Pacific is reporting all trains at full stop on that track at Bennett Road." "County copies that, EOC." Weikal then made a radio call to the ride net control, N5JLD: "Net control, this is EOC." "Go ahead, EOC." "Net control, Union Pacific is reporting all trains on that track

at full stop." "Copy that, EOC." "SAG 3, net control." "SAG 3, go ahead." "SAG 3, EOC is reporting that Union Pacific is showing all trains at full stop on that track at Bennett Road." "Uh...yeah...I can see...that..." -- the eastbound train had stopped 30 yards short of the tractor-trailer. There were no injuries or equipment damage. Weikal reported the road crossing clear 1 1/2 hours later. Yes, an amateur radio handheld can stop a train.

Thanks went out to all amateur radio volunteers and fire/dispatch operators for their quick effort to help narrowly prevent a disastrous collision between a train and a tractor-trailer hauling a bulldozer with a gross weight of 186,000 pounds. -- Thad Weikal, KG5ATD, Amateur Radio Club of Parker County (Texas) Director

<http://www.arrl.org/ares-el?issue=2021-10-20>

## 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](http://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**

We have lots of repeaters in the area with different frequencies, offsets, tone inputs and locations. Now we have a website that we can go to to look up this information on the internet. They have a repeater database for the whole world along with the United States. We can pick a city and state which will show repeaters in the area. They also have a database for GMRS repeaters in an area. The website has a section for articles about radios and repeater information. They have a section for FAQs about the website and how to register. You can access the website free and do not have to register to use database. To check out this nice repeater information site go to their webpage. The web address is <https://www.repeaterbook.com/>

**Amateur Hardware Update**  
**By: James Butler KB4LJV**

Many times we need to make wiring repairs in the field. Carrying solder and a soldering iron for emergencies can help keep field operations running. Sometimes we do not have access to a power supply to power the soldering guns. Typically electric soldering guns run on 115VAC with a power level of 25 to 50 watts. When a connection to be fixed is not close to a power plug another option is the butane soldering gun. These refillable units operate on butane used in cigarette lighters. They can operate from 30 minutes to one hour on a full tank of fuel. Once powered up a glowing element heats a standard soldering iron tip to do the work. For larger jobs a small torch unit can heat up connection to melt the solder on. Most butane soldering guns are the pencil type and very portable. Many include multiple tips for different jobs. If you are looking for a soldering iron you can use anywhere check out these butane powered soldering irons. On EBAY do a search for “Butane Soldering Iron”.



**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](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](http://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

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ky4fb@arrl.net  
901-356-1475

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#### **Public Information Officer**

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[W4MKS@arrl.net](mailto:W4MKS@arrl.net)  
901-522-6711

#### **Immediate Past President**

Ken Laseter, KI4AOH  
[KenLaseter@gmail.com](mailto:KenLaseter@gmail.com)  
901-487-9103

#### **Repeater Trustee**

Barry McDonald W5CJ  
[W5CJ@ARRL.NET](mailto: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
<b>Delta Club Information Net</b>	<b>146.820</b>	<b>- (107.2)</b>	<b>8:00p</b>	<b>Daily</b>
<b>YL Net</b>	<b>146.820</b>	<b>- (107.2)</b>	<b>8:45p</b>	<b>Sat</b>
<b>Four-Forty Net</b>	<b>443.700</b>	<b>+(107.2)</b>	<b>8:30p</b>	<b>Fri</b>
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)



**Joe Miller**  
Owner

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At Poplar and Massey  
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