

# SPARKS

P.O. Box 342768 \* Memphis, Tennessee 38134-2768 \* Volume 72 \* January 2022



**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: Delta Amateur Radio Club Monthly Meeting - Jan. 11, 2022

Time: Jan 11, 2022 07:00 PM Central Time

Join Zoom Meeting

<https://us02web.zoom.us/j/82152295176?pwd=c3pFSUVXUUi9IZEdZUjVPcWJzSWFIZz09>

Meeting ID: 821 5229 5176

Passcode: 499324

**Program:** *"Online Testing"* by Steve Romagni.

There will be no FCC Testing Tuesday night.

**VE TESTING:** Don't forget the monthly ARRL Volunteer Examiner testing session prior to in-person meetings. Registration begins at 5:30 PM and testing begins by 6:00 PM. Please remember to bring two (2) forms of identification, at least one a photo ID, and copies of any existing licenses or CSCE's you might have. Please be on time for registration, as you will not be allowed to enter the testing session after 6:00 PM. This is to allow our volunteer VE team to finish in time to attend the club meeting. For more VE testing information, please contact:

Dan Columbus AA4HV VE Liaison

Phone: 901-208-1535

Email: [aa4hv@arrl.net](mailto:aa4hv@arrl.net)

## **Announcements**

### **FOUR-FORTY NET**

The Delta Club has a 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.

## **President's Corner**

**Submitted by Mary Jean Hall, KY4FB**

Being active in church growing up, I often heard the saying, “The church isn’t the building. It’s the people.” The past two years, I’ve come to realize that the same can be said about Delta Club. We are far more than a group that meets the second Tuesday night of each month in a building. While that is part of our identity, Delta Club is so much more! We are a group of volunteers who step up when there is a need in our community. We are individuals who take time each night to check in and support a nightly net. We are a group that has displayed patience, flexibility and dedication to continue building and supporting our club and community in the midst of so much uncertainty.

We all may come from different backgrounds and situations, but we can be certain about having one interest in common: Amateur Radio. Collectively and individually, we have faced many unusual challenges over the past few years. We will likely continue to face challenges this year, and together we will overcome them.

I’d like to present you with one “challenge” worth having. This year, I challenge you to do that one thing in ham radio that you have been putting off. If you’ve had it on the back burner to upgrade to General or Extra, sign up for one of Delta Club’s classes! If there’s a piece of equipment you’ve been eyeing, now is the time to fit it into your budget. If you’ve been interested in doing more outside of checking into nets, keep an eye on SPARKS for upcoming volunteer opportunities. Have a friend or coworker who isn’t licensed yet? Take a moment to tell him or her about the possibilities of Amateur Radio!

If you aren’t sure where to start or how to achieve your goal, that’s what we are here for – to help each other and promote the growth of Amateur Radio. Success takes all of us. Thank you for all you have done as a member in Delta Club, and thank you for putting your faith in me to serve as your president this year. It’s been my honor to serve on the board the past four years, and I am looking forward to serving our membership in the upcoming year!

73,  
Mary Jean Hall  
KY4FB

# Treasurer's Report

## Submitted by Jim Martin, KD4FUU

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

<https://deltaclub.org/membership>

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

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

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

### LIFEGREEN CHECKING FOR BUSINESS

December 1, 2021 through December 31, 2021

SUMMARY			
<b>Beginning Balance</b>	<b>\$19,068.31</b>	Minimum Daily Balance	\$18,936
Deposits & Credits	\$485.00 +	Average Monthly Statement Balance	\$19,101
Withdrawals	\$0.00 -		
Fees	\$0.00 -		
Automatic Transfers	\$0.00 +		
Checks	\$131.57 -		
<b>Ending Balance</b>	<b>\$19,421.74</b>		

DEPOSITS & CREDITS			
12/13	Deposit - Thank You		220.00
12/13	Deposit - Thank You		30.00
12/31	Deposit - Thank You		235.00
Total Deposits & Credits			\$485.00

CHECKS		
Date	Check No.	Amount
12/02	1558	131.57

DAILY BALANCE SUMMARY					
Date	Balance	Date	Balance	Date	Balance
12/02	18,936.74	12/13	19,186.74	12/31	19,421.74

### SMALL BUSINESS CD \*0028

Available Balance	<u>INTEREST RATE</u>	<u>YTD INTEREST</u>	<u>INTEREST EARNED NOT PAID</u>
\$10,827.41	1.590 %	\$0.00	\$7.55
<a href="#">View More Details</a>			

**Applications Received - Dec 2021**

(0) New Membership(s) - Pro-Rated Dues	\$0.00
(0) New Membership(s) - Dues Waived	\$0.00
(10) Membership Renewal(s)	\$235.00
Donations Received	\$0.00
<b>Total Received</b>	<b>\$235.00</b>

**Other Deposits**

Karen Chancelor Estate Sale	\$250.00
<b>Total Deposits</b>	<b>\$485.00</b>

**Debits/Payments**

Check 1558 - Robert Vawter (GoDaddy Website Hosting)	\$131.57
<b>Total Payments</b>	<b>\$131.57</b>

<b>Proposed Budget</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Donations (cash)	\$ 50.00	\$ 50.00	\$ 50.00	\$ 50.00
Consignment Donated Gear	\$ -	\$ -	\$ -	\$ -
Membership (Jan. thru Dec.	\$ 2,000.00	\$ 2,000.00	\$ 2,000.00	\$ 2,000.00
Club Patches	\$ 10.00	\$ -	\$ -	\$ -
Estate Sale	\$ 750.00	\$ 800.00	\$ 1,000.00	\$ 1,500.00
Advertisement	\$ -	\$ -	\$ -	\$ -
Huntsville Trip	\$ 2,500.00	\$ 2,500.00	\$ 2,500.00	\$ 2,500.00
<b>Total:</b>	<b>\$ 5,310.00</b>	<b>\$ 5,350.00</b>	<b>\$ 5,550.00</b>	<b>\$ 6,050.00</b>
Tn. Annual Report	\$ (40.00)	\$ (120.00)	\$ (120.00)	\$ (120.00)
Meeting Space Donation	\$ (300.00)	\$ (300.00)	\$ (300.00)	\$ (300.00)
Training	\$ (50.00)	\$ (50.00)	\$ (50.00)	\$ (50.00)
Media / ZOOM	\$ -	\$ -	\$ -	\$ (200.00)
Meeting Refreshments	\$ (500.00)	\$ (500.00)	\$ (500.00)	\$ (500.00)
Food (Dec. Meeting)	\$ (100.00)	\$ (100.00)	\$ (100.00)	\$ (100.00)
Door Prize	\$ (500.00)	\$ (500.00)	\$ (500.00)	\$ (500.00)
PO Box (Annual Rental)	\$ (185.00)	\$ (210.00)	\$ (240.00)	\$ (290.00)
Equipment Insurance	\$ (182.00)	\$ (220.00)	\$ (220.00)	\$ (220.00)
Repeater System Upgrades	\$ (1,000.00)	\$ (2,000.00)	\$ (1,000.00)	\$ (1,000.00)
SouthEastern Repeater Assn.	\$ (35.00)	\$ (35.00)	\$ (35.00)	\$ (35.00)
Field Day	\$ (250.00)	\$ (250.00)	\$ (250.00)	\$ (250.00)
DARC Board Discretionary Fund	\$ (2,000.00)	\$ (2,500.00)	\$ (1,000.00)	\$ (1,000.00)
Huntsville Trip	\$ (2,500.00)	\$ (2,500.00)	\$ (3,000.00)	\$ (3,000.00)
Free Fest Donations	\$ (200.00)	\$ (200.00)	\$ (200.00)	\$ (200.00)
<b>Projected Total Expenses</b>	<b>\$ (7,842.00)</b>	<b>\$ (9,485.00)</b>	<b>\$ (7,515.00)</b>	<b>\$ (7,765.00)</b>
<b>Projected Net Operating Results (income-expenses)</b>				
Checking Acct:	\$ 16,052.00	\$ 25,177.00	\$ 25,000.00	\$ 19,068.00
CD #0228	\$ 10,488.00	\$ 10,656.00	\$ 10,673.00	\$ 10,785.00
CD #8041	\$ 10,905.00	\$ -	\$ -	\$ -

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

DARC Board of Directors Meeting Minutes for January 4, 2022

*Attendees: Mary Jean Hall KY4FB, John Reiners KN4BVH, Carolyn Horne KX4QF, Joe Lowenthal WA4OVO, Jim Martin KD4FUU, Mike Harrison KM4MRW, Steve Romagni W4DTA, Scott Adams KM4PMU, Barry McDonald W5CJ and Len Grice W4MKS.*

*Absent: None.*

*Guests: Steve Frazier KK4VPT.*

The regular monthly meeting of the Delta Amateur Radio Club Board of Directors was held on Tuesday, January 4, 2022, at 6:30 PM on a Zoom video conference call, with the President serving as chair and the Secretary being present. President Mary Jean Hall called the meeting to order.

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

The board discussed transition tasks for new board members.

Mike Harrison requested new and updated bios for all board members to publish on the club website. He will also have a website review with board members in upcoming meetings.

Bank account name transfers need to take place. Joe Lowenthal talked with the manager of the Memphis Branch of Regions Bank and is forwarding a contact card to Steve Frazier, Mary Jean Hall, and Jim Martin. They plan to go to the Bartlett Branch of Regions to effect that change. However, if there is a problem, they can contact the Memphis Branch. A copy of SPARKS with officer election information is required for the change.

Mary Jean Hall is now an admin on the Delta Club's social media sites. She will continue to post info on Facebook and YouTube.

Steve Romagni submitted a list of topics that may be scheduled as programs this year. He is interfacing with Ian Lucas KN4OEK to review past programs along with requested programs and will update his topic list accordingly. He is currently lining up guest speakers. He plans to give a presentation on 'On-line Testing' at the January Members Meeting. Joe Lowenthal recommended a program on bonding requirements when using a Tarheel setup in a truck, which may be incorporated into the February line-up.

John Reiners said there was not much of a handover for Vice President. Mary Jean Hall said she would get together with him to discuss membership enhancement plans.

Jim Martin gave the Treasurer's report. He also sent board members the proposed budget for 2022. Joe Lowenthal recommended adding a Zoom entry to cover a subscription plan for better Zoom coverage costs this year. The board agreed that \$200 would be sufficient to cover either a monthly or yearly subscription package. Joe Lowenthal made a motion to accept the budget, John Reiners seconded the motion, all were in favor, none opposed, and the budget passed.

Joe Lowenthal began an Extra Class with eight students on seven Monday nights starting January 3<sup>rd</sup> through February 14<sup>th</sup> from 6:15 to 9:30 PM. John Reiners was one of the instructors at the first class. Dean Honadle N2LAZ will teach the math portion next class. Joe has scheduled a Tech Class on six Monday nights from February 28<sup>th</sup> through April 4<sup>th</sup>. He said there is an opening for an ARRL VE Liaison since Jeff Krause AJ4GY has asked to step down.

Joe Lowenthal and Steve Romagni discussed the pros and cons of in-person versus on-line testing.

Barry McDonald gave an update on the 146.82 repeater and Channel 30 Brunswick Tower cable repairs. He said we still have intermittent problems. He was out at the site the day before this meeting and said they have not yet started the repairs. There is expensive equipment out there in preparation for the work.

Scott Adams said that since we are not having an in-person meeting this month, there is nothing to report on refreshments. He said we do need to update the church key list. Steve Frazier will give Mary Jean Hall his key.

Len Grice said he had nothing new to report for the meeting.

Carolyn Horne read a list of one new and nine renewed members (including two family memberships). Joe Lowenthal made a motion to accept them all, Len Grice seconded the motion, and all were in favor, with none opposed. Carolyn sent out the current membership card to the board and requested feedback on the format before sending out the 2022 cards. Joe Lowenthal requested a rearrangement of the repeater list, a label change, and adding our YouTube Channel. The new format was accepted.

John Reiners said he had nothing to report for the meeting.

Steve Frazier gave an update on the Swamp Stompers marathon being held on Saturday, January 15, 2022, at Meeman-Shelby Forest State Park. He is the main contact to coordinate our club's participation. Mary Jean Hall will serve as Net Control for the event. Steve said he has all the rest stations covered by at least three people with a good mixture of new and experienced Hams. For more info see [Swamp Stomper 50k/25k - January 15, 2022 \(ultrasignup.com\)](https://ultrasignup.com).

Mary Jean Hall adjourned the meeting at 7:42 PM. The next regular Board of Directors meeting is scheduled for Tuesday, February 1, 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 December 14, 2021

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

The regular monthly meeting of the Delta Amateur Radio Club was held on Tuesday, December 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 35 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**

Steve Frazier KK4VPT thanked Ned Savage KA4BLL for being on the air late at night giving reports on the storms over December 10-11.

May Jean Hall KY4FB gave a report on helping with disaster relief on location in Weakly County. She said there was a lot of damage near Dresden, but people are coming together to aid in all aspects of the clean-up. She is putting her ARES and events training to effective use in her efforts there. Contributions for disaster relief, even if it is just \$5, would be appreciated. Weakly County and the City of Dresden are coordinating the efforts. She said they are documenting things to get to FEMA.



Joe Lowenthal WA4OVO said the General Class has tested. Brad Webster KC4WEB tested early, and another group tested at the end of classes, with total of 7 out of 11 passing. One person in North Carolina must test there. An Extra Class is set to take place January 3<sup>rd</sup> thru February 14<sup>th</sup> from 6:15 to 9:30 PM. He said 8 people have signed up for the class. After that he will start a Tech Class. All classes are on Zoom except for the test sessions. If anyone is interested in the Extra Class or Tech Class, they should send an email with the subject 'Extra Class' or 'Tech Class' with their name, callsign, email and cell to [wa4ovo@gmail.com](mailto:wa4ovo@gmail.com).

Joe said he had electronic certificates to send out to NCOs. If anyone is interested in calling the Delta Net, they should let him know and he will put them on the alternate list. He and Steve Frazier KK4VPT thanked all NCOs for their service. Joe said we have sold quite a bit of Karen Chancellor's estate items and have made more money on sales than what we invested in their purchase. If anyone is interested in any of the equipment, just let him know. A partial list is published in SPARKS.

John Reiners KN4BVH said ARES will not be meeting this month as is usual over the holidays. The next meeting will be in January 2022.

Mary Jean Hall thanks Steve Frazier and the 2021 board members for their service this year.

Ray Cole KX5RC put a link to the program in the Zoom chat, as all agreed it would be something suitable for viewing outside of the meeting tonight, if members were interested.

Steve Frazier KK4VPT will post this meeting video along with the link on Facebook and YouTube. He thanked Joe Lowenthal WA4OVO for editing the articles and minutes for SPARKS. Steve said that Swamp Stompers would take place on Saturday, January 15<sup>th</sup>, 2022. If anyone is interested in participating in radio coverage of the event, please contact Steve. All that is needed is a Tech license and an HT, although a mobile/base station would be better. He said we can use the 146.82 repeater with the 443.700 repeater acting as a backup. For more information see: [Swamp Stomper 50K/25K - TN, USA - Jan 15, 2022 - 2022-01-15 | ahotu](#). He said that the MARA Freefest is taking place on April 9<sup>th</sup>, 2022, at the Bartlett Municipal Center.

## **Discussion / Program**

This month's program is "The Radio Room aboard the SS Red Oak Victory Museum Ship" by Stephen Hawes, WB6UZX, trustee of the USS Red Oak Victory Amateur Radio Club. The link to this presentation is: [The Radio Room aboard the SS Red Oak Victory Museum Ship - YouTube](#).

## Closing Remarks

Delta Club President Steve Frazier KK4VPT adjourned the meeting at 7:43 PM.

The next Delta Amateur Radio Club meeting will be Tuesday, January 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 sometime after April 1, 2022 after 90 days' notice in the Federal Register.

*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 2022 from Delta Classes*

0 Technician

0 General

0 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

### **Technician Class 2-22 – February 28 – April 4, 2022**

The next Technician license class will be via Zoom and start on Monday night February 28, 2022 from 6:15-9:30pm for six Monday nights until April 4th if there are ten students registered. The fifth night of class will be in-person for the FCC exam. The FCC exam will probably be given at Ellendale Church of Christ in Bartlett. If you want to register for this class, send an email with Subject line: Tech Class and name, callsign, email address and cellphone number to wa4ovo@gmail.com.

## CURRENT CLASS

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

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

There are eight students in the class: Paul Broom KN4WGX, Kevin Buddle KO4UTX, Charles Byars KI5HWA, Randall Haynes KO4KKA, Kevin Kelley KO4OAO, Dylan Martin KC4DTM, Scott McDermott KO4OWE, and Leo Seicshnaydre KC5LEO.

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

## 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.



## 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 Sparks

NO	New	eBay or eHam	Sell Price	Description	Manufacturer	Model	Comments
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	Battery 12V	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

## 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**

The dummy load is a nice accessory to have when checking transmitter output without putting a signal on the air. The two types of dummy loads are dry and oil filled. The oil filled absorbs transmitter power by heating the oil surrounding the resistive element in the dummy load. The dry dummy load uses no oil but releases heat to the air with a heat fin. Some dry dummy loads can have a fan that blows air across the heat fin to help dissipate the heat. The dummy load that you use must be sized to absorb the amount of transmitter power of your radio for the amount of time you transmit. MFJ Enterprises has dry and oil filled dummy loads for any application you need. Their oil filled units can handle up to 1.5 KW. MFJ also sells dummy load transformer oil. If you are want to buy a dummy load look at the large selection from MFJ. The web address is <https://mfjenterprises.com/search?q=dummy+loads>



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

One great resource we now have for information is the internet. YouTube which has videos has many hours of ham radio related videos. This information includes radio reviews of new ham radios that are on the market. They also have modification information on radios. Many videos show amateurs how to build radio kits that are on the market. Ham radio antenna building and operation videos are great to get information on a particular type you might want to try. The Ham 101 series of videos gets new hams acquainted with the hobby. For those wanting to learn about electronics YouTube has videos on transistor and tube theory to get you a background on these devices. You can watch videos of past HAMFESTS from around the world showing displays from companies and demos of new products. Setup and training on Kenwood, Icom ,

and Yaesu radios are also presented. Many hours of videos are also online on shortwave listening. So much is online. The web address is <https://www.youtube.com/>  
You can do a search for your subject.

**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 146.820 repeater for the YL Net. We enjoy hearing from you.

**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>.

## 2022 Board of Directors

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### **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/>

## 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)



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