

SPARKS

P.O. Box 342768 * Memphis, Tennessee 38134-2768 * Volume 85 * February 2023



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

This month's meeting will be **IN PERSON ONLY** at 7 pm on Tuesday, January 10, 2023 at the Ellendale Church of Christ, 7365 Highway 70 in Bartlett, TN (1 ½ miles north of Highway 64 / Stage Road).

There will be FCC Testing Tuesday night.

Program: "DMR for Dummies" by John Reiners, KN4BVH

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. Candidates **MUST** have an FCC Federal Registration Number (FRN) **BEFORE** coming to the testing session. For more VE testing, or FCC FRN information, please contact:

Bob Vawter, KW4RJ, VE Liaison

Phone: 901-438-4563

Email: KW4RJ@ARRL.net

Announcements

MARA FreeFest – April 8, 2023

SAVE THE DATE: The Memphis-South Amateur Radio Association’s annual FreeFest will be Saturday, April 8, 2023 from 9:00 am to 3:00 pm at the Bartlett Station Municipal Center, 5868 Stage Road in Bartlett, TN. The webpage for FreeFest can be found at: <https://sites.google.com/a/maraonline.org/mara-online/freefest>. More information will also be announced at a closer date.

Club Polo Shirt Order

We will submit another Delta Club polo shirt order in February. See the graphic below for available sizes and prices. If you would like to order an embroidered club polo shirt, email Mary Jean Hall KY4FB at ky4fb.tn@gmail.com or call/text at 901-356-1475. If your size is available to order, money will be due by the Delta Club meeting on Tuesday, February 14. Cash or checks will be accepted; make checks out to: Delta Amateur Radio Club. If your size is not yet available, still sign up and your money will not be due until it is possible to place the order.

CornerStone® - Select Snag-Proof Tactical Polo

Pricing: Price includes embroidered DARC logo with name/call sign

XS-XL:	\$41
2XL:	\$43
3XL:	\$47
4XL:	\$49

In the CS410: Small, 2XL, 3XL, 4XL and 5XL are out of stock.
The CS411 is all in stock.

CS410 (Mens cut)



With strategically placed mic clips and dual pen pockets, our tactical polo is designed for event staff, security and law enforcement. Built for performance, this snag-proof, moisture-wicking, odor fighting shirt will keep you sharp and professional looking on or off the job.

- 6.6-ounce snag-proof polyester
- Rental friendly
- Traditional, relaxed look
- Tag-free label
- Flat knit collar
- 3-button placket with dyed-to-match buttons
- Mic clips at center placket and shoulders
- Raglan sleeves
- Reinforced dual pen pockets on left sleeve
- Side vents

Email Mary Jean KY4FB at ky4fb.tn@gmail.com if you are interested in ordering a polo.

Color pictured: Royal

CS411 (Ladies cut)



Product Description

With strategically placed mic clips and dual pen pockets, our tactical polo is designed for event staff, security and law enforcement. Built for performance, this snag-proof, moisture-wicking, odor-fighting shirt will keep you sharp and professional-looking on or off the job.

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- Rental friendly
- Tag-free label
- Flat knit collar
- 3-button placket
- Dyed-to-match buttons
- Mic clips at center placket and shoulders
- Raglan sleeves
- Reinforced dual pen pockets on left sleeve
- Side vents
- Drop tail to stay tucked in

President's Corner

Submitted by Mary Jean Hall, KY4FB

With the start of a new year, we also start off with a “new” Board of Directors for Delta Club. I’d like to welcome Perry Hayes N4GJ, who is serving as Vice President, and Paul Broom KY4MX, who is serving as Secretary. I look forward to working with both of you, as well as the rest of the board, this year!

This month’s Delta Club meeting will be only in-person, so we will not have a link for Zoom. We will still try to record the meeting and post those videos to YouTube. So, if you are sick and cannot attend, we hope that can be an option for you to stay in the loop. Checking in to the Delta Club Information Net each night at 8pm is another good option to learn about important news and events.

2023 is the “ARRL Year of the Volunteer.” We are blessed to have so many active members in the Memphis area who volunteer in multiple avenues – community service activities, training programs, Net Control Operators, Volunteer Examiners, membership on boards and committees, Field Day, and in other ways not listed here. Volunteering is a great way to share your talents, or it could be a way to learn new skills. Whatever your reason may be, I encourage you to consider volunteering in a new way this year. If you already volunteer in multiple ways in our ham radio community, please continue that and know that your actions are truly appreciated.

Our first activity of the year, the Swamp Stompers Race in Meeman-Shelby Forest State Park, is this Saturday, January 14. We have a group of volunteers ready to help with communications, but if you are new to events and would like to volunteer with us, we’d be happy to have you!

No matter the reason that sparked your interest in Amateur Radio, we all have that one thing in common. The success and longevity of Amateur Radio is rooted in volunteerism, and it’ll take all of us working together to continue that. So, let’s enjoy our time together and celebrate through volunteering this year!

See you all Tuesday!

73,
Mary Jean KY4FB

Treasurer’s Report
Submitted by Jim Martin, KD4FUU

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

<https://deltaclub.org/membership>

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

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

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

LIFEGREEN CHECKING FOR BUSINESS

December 1, 2022 through December 30, 2022

SUMMARY

Beginning Balance	\$19,803.17	Minimum Daily Balance	\$19,479
Deposits & Credits	\$189.29 +	Average Monthly Statement Balance	\$19,521
Withdrawals	\$0.00 -		
Fees	\$0.00 -		
Automatic Transfers	\$0.00 +		
Checks	\$324.00 -		
Ending Balance	\$19,668.46		

DEPOSITS & CREDITS

12/20	Deposit - Thank You	109.29
12/30	Deposit - Thank You	80.00
	Total Deposits & Credits	\$189.29

CHECKS

<u>Date</u>	<u>Check No.</u>	<u>Amount</u>
12/01	1576	324.00

DAILY BALANCE SUMMARY

<u>Date</u>	<u>Balance</u>	<u>Date</u>	<u>Balance</u>	<u>Date</u>	<u>Balance</u>
12/01	19,479.17	12/20	19,588.46	12/30	19,668.46

SMALL BUSINESS CD *8481

Available Balance	<u>INTEREST RATE</u>	<u>YTD INTEREST</u>	<u>INTEREST EARNED NOT PAID</u>
\$5,000.00	1.980 %	\$0.00	\$18.20
SHOW ACCOUNT NUMBER *8481			
ISSUE DATE	LAST INTEREST AMOUNT PAID	PREVIOUS YEAR INTEREST	
10/28/2022	\$0.00	\$0.00	
ISSUE VALUE	DATE LAST INTEREST PAID	MATURITY DATE	
\$5,000.00	10/27/2022	11/25/2023	
▲ Hide More Details			

SMALL BUSINESS CD *8503

Available Balance	<u>INTEREST RATE</u>	<u>YTD INTEREST</u>	<u>INTEREST EARNED NOT PAID</u>
\$11,000.00	2.230 %	\$0.00	\$45.12
SHOW ACCOUNT NUMBER *8503			
ISSUE DATE	LAST INTEREST AMOUNT PAID	PREVIOUS YEAR INTEREST	
10/28/2022	\$0.00	\$0.00	
ISSUE VALUE	DATE LAST INTEREST PAID	MATURITY DATE	
\$11,000.00	10/27/2022	11/26/2024	
▲ Hide More Details			

Applications Received - December 2022

(0) New Membership(s) - Pro-Rated Dues	\$0.00
(0) New Membership(s) - Dues Waived	\$0.00
(0) New Membership(s)	\$0.00
(4) Membership Renewal(s)	\$80.00
(0) Donations Received	\$0.00
Total Dues Received	\$80.00

Other Deposits & Credits

(0) ARRL Club Commission - New Members (\$15.00)	\$0.00
(0) ARRL Club Commission - Renewals (\$5.00)	\$0.00
Karen Chancellor Estate Sale	\$109.29
Total Other Deposits	\$109.29

Total Deposits \$189.29

Checks & Debits

Check # 1576 - USPS PO Box Renewal & Book of 20 Stamps	\$324.00
Total Payments	\$324.00

DARC Board of Directors Meeting Minutes Submitted by Paul Broom, KY4MX

DARC Board of Directors Meeting Minutes for January 3, 2023

Attendees: Mary Jean Hall KY4FB, Perry Hayes N4GJ, Paul Broom KY4MX, Jim Martin KD4FUU, Joe Lowenthal WA4OVO, Mike Harrison KM4MRW, John Reiners KN4BVH, Scott Adams KM4PMU, and Barry McDonald W5CJ.

Absent: Len Grice W4MKS

Guests: None.

The regular monthly meeting of the Delta Amateur Radio Club Board of Directors was held on Tuesday, January 3, 2023 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.

Joe Lowenthal asked if ARRL club site had been updated for recent changes in the BOD. Mary Jean Hall was to research and make updates as needed.

Mary Jean Hall asked that the BOD members review and update their website bios. New BOD members were to send preferred contact information to Mike Harrison by the weekend.

A discussion was held on logistical issues regarding hybrid meetings and the need to obtain a computer and WIFI access if hybrid meetings would continue. After discussion, it was suggested to have the January meeting be an in person meeting only. A motion was made by Barry McDonald W4CJ and seconded by Scott Adams KM4PMU to hold the January meeting as in person only. The need for a new computer and internet access was tabled pending further research.

Joe Lowenthal gave an update on the recent General Class, indicating that 3 of the 4 students who tested passed, and with results of the 4th student still pending. The extra class was to start on Saturday January 7 from 9:00 to 1:00, and run through February 25. All session will be conducted via Zoom except for the final class. A decision on the next Tech Class has not been finalized.

Mike Harrison requested that everyone review and update their profiles and send him preferred contact information as soon as possible for inclusion in Sparks and to update the website.

Scott Adams requested feedback on the hams provided during the December potluck. All comments were favorable.

Barry McDonald said the repeaters are running smoothly. He recently visited the repeater site and said it appears that some additional work is about to be performed on the tower. He is planning a follow up visit after the weather and ground conditions improve.

John Reiners is planning to do a presentation titled DMR for Dummies at the January meeting. He hopes to dispel the misconceptions of DMR and show how to program a DMR radio.

Perry Hayes had nothing to report.

Paul Broom and Mary Jean Hall presented a total 9 membership renewals. Barry McDonald made a motion to accept these renewals, with Jim Martin seconding the motion. The motion

passed. A discussion was also held on the inclusion of a revision date in the bylaws. It was agreed that Paul would include this in the current bylaws and forward a copy to all BOD members. Mary Jean Hall was also going to confirm that the revised bylaws had been sent to the ARRL.

Jim Martin reviewed the treasurer's report that had been previously emailed to the BOD. He also reviewed the payment of liability insurance for the club. Lastly, he reviewed the proposed budget for the year. The proposed budget will be presented to the membership for approval at the February meeting.

Mary Jean Hall discussed the Facebook page and posts regarding upcoming events. She asked that everyone let her know upcoming events to and she would post on the Facebook page.

Mary Jean Hall adjourned the meeting at 7:54 pm. The next regular Board of Directors meeting is scheduled for Tuesday, February 7, 2023, at 6:30 PM on Zoom.

Respectfully submitted by Paul Broom KY4MX, Secretary

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

DARC Meeting Minutes for December 13, 2022

Call to Order and Opening Remarks

The regular monthly meeting of the Delta Amateur Radio Club was held on Tuesday, December 13, 2022, at 7:00 PM at the Ellendale Church of with the President serving as chair in-person and the Secretary being present. Club President Mary Jean Hall KY4FB called the meeting to order and then welcomed everyone to the meeting. At least 30 members and guests were present for the meeting.

Minutes and Treasurer's Report

Jeffrey Krause AJ4GY moved to “approve the Treasurer’s Report and Minutes as published in Sparks.” Dan Wehner KN4FBJ seconded the motion. The motion was adopted by the club without objection.

Announcements

Mary Jean Hall KY4FB took a roll call of those present. She said that starting January 2023 we will have tickets for the year-end drawing available at the sign-in table.

Mary Jean reminded members that the weekly YL Net has started up again Saturday evenings at 8:45 PM on the 146.82 repeater. All members, YL’s and OM’s are encouraged to participate.

Mary Jean reported on some upcoming events: Swamp Stompers on January 14th. If you are interested in participating in a support role for this event, please contact Steve Frazier KK4VPT by email at sfrazier1@bellsouth.net. Freefest has been scheduled for Saturday April 8th.

Mary Jean reminded everyone that membership applications were available at the sign-in table.

After a short break, our annual potluck dinner was served. Thanks to all who brought so many tasty dishes and accoutrements! It was a time to reflect on 2022 and enjoy some great fellowship.

Discussion / Program

After the potluck, Mary Jean Hall KY4FB hosted the annual service awards ceremony. This was to recognize those who have given of their time and resources to support Club activities. Here are the awardees:

DARC Net NCOs (Joe Lowenthal WA4OVO is emailing these certificates to the recipients)

Art Barnett WA4PSS

Barri Munday WA4SWP

Tom Butas KM4AEM

Carrie Blackwell KN4LCV

Bob Vawter KW4RJ

Ed Itkin KK4VPU

Mary Jean Hall KY4FB

Will Tenney KO4TLY

John Reiners KN4BVH

John Volmer KN4LCV

Barry McDonald W5CJ

Scott Fletcher KM4RT

Ian Lucas KN4OEK

Jason Terrell KO4DOH

Paul Broom KY4MX

John Duty KK4LST

Perry Hayes N4GJ

Joe Plunk NS4E

Carolyn Horne KX4QF

YL NCOs

Linda Laseter KJ4CTX

Betsy Freeman KD4KOM

Carolyn Horne KX4QF

Carrie Blackwell KN4LCU

Sylvia Lucas KN4OEJ

Mary Jean Hall KY4FB

2022 Elmer of the Year

Last awarded in 2017. This special award is occasionally given to a ham who goes above and beyond to help advise other hams.

This special award is given to a Delta Club ham who has given to the club for the benefit of our members over many years. He has authored the AMATEUR HARDWARE UPDATE and PACKET UPDATE articles for over 25 years. These articles have given insight to many hams to expand their sphere of ham radio.

James Butler KB4LJV

2022 New Ham of the Year

This award is given to someone who has been licensed within the past 18 months or so and has been active in the club.

This ham has served as an NCO this year for the Delta Club Information Net and the Four-Forty Net. He volunteered to help with communications at the Swamp Stompers race. He attended Field Day and just upgraded to General this month.

Will Tenney KO4TLY

2022 Ham of the Year

This award is given to a ham who has gone above and beyond to be active in Delta Club and the Amateur Radio Community.

This ham served as an NCO for the Delta Club Information Net and was one of the first to call the Delta Club Four-Forty Net on Friday nights. She also served as a YL NCO. She served as Secretary for two years, where she did an exceptional job. She took the early morning shift during Field Day making contacts in CW. She also took the 7 QRP radios from Karen AG4CC's estate and made sure that they were operational and evaluated the online pricing to suggest a reasonable price for the club's sale price.

Carolyn Horne KX4QF

Closing Remarks

Delta Club President Mary Jean Hall KY4FB adjourned the meeting at 7:48 PM.

The next Delta Amateur Radio Club meeting will be Tuesday, January 10, 2023, at 7:00 PM.

Respectfully submitted by Carolyn Horne KX4QF, Secretary (2022)

Delta Ham License Training, 2022

Submitted by Joe Lowenthal, WA4OVO, DIRECTOR OF TRAINING

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

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

Licenses Earned in 2022 from Delta Classes

22 Technician

5 General

7 Extra

Note:

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

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

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

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

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

PROPOSED CLASSES

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

The next **Technician** license class will probably start in mid to late February 2023. **If interested, send an email to wa4ovo@gmail.com with Subject line: Tech Class and name, email address and cellphone number is text.**

The next **General** license class will probably start in early November 2023

CURRENT CLASS

Extra Class 1-23 – January 7 – February 25, 2023

An Extra Class license class is being held for seven Saturdays from 9am to 1pm from January 7th to February 25th except January 28th. There are eight students registered. The first six classes will be via Zoom with the seventh period an in-class opportunity to take the FCC exam. The instructors are Joe WA4OVO, John KN4BVH, David KY4FH, Barry W5CJ, Dave AD4Q, Paul KA4X. Pat W4OQG, Park AI5CY and Bobby KD5BS. The FCC exam session will probably be at Ellendale Church of Christ, 7365 Hwy 70 (Summer Ave) at 7pm.

COMPLETED CLASSES

General Class 5-22 – November 7 – December 5, 2022

A General Class license class was held for five Monday nights from 6:15-9:30pm from November 7th to December 5th. The first four classes were via Zoom with the fifth class in person at Ellendale Church of Christ, 7365 Hwy 70 (Summer Ave). The ARRL FCC exam was offered on the fifth night of class. There were 13 students registered for the class. Seven students completed the class with only four testing.

Congratulations to Davis Colston K5TGR, Bob O'Gradr KO4ZCJ and Will Tenney KO4TLY for upgrading to General.



General Class 5-22 ARRL FCC test session Photo by Joe Lowenthal WA4OVO

The instructors were Joe WA4OVO, Steve KK4VPT, Perry N4GJ, Paul KA4X, Barry W5CJ, Len W4MKS, Park AI5CY and David KY4FH.

The Delta Club ARRL VE Team of Bob KW4RJ, Mary Jean KY4FB, Perry N4GJ, Bob AI4GI and Joe WA4OVO provided the opportunity for FCC testing.



General Class 5-22 VEs

Photo by Joe Lowenthal WA4OVO

Tech Class 4-22 – July 7 – August 18, 2022

A Technician license class was held from July 7th to August 18th on six Thursday nights from 6:15-9:30pm excluding August 4th. The first four classes were via Zoom with the fifth and sixth classes in person at Ellendale Church of Christ, 7365 Hwy 70 (Summer Ave). Nine students began the classes with seven completing the instructional period. The FCC exam was offered on the fifth night of class, August 11th.

Congratulations to all four students who earned their Technician license: David Colston KI5WQA, Morgan Fancher KI5WQL, Ilea Hymes KQ4CQF and Rod Robinson KQ4CNU. Thanks to Laurel VE team of Joe WA4OVO, Bob AI4GI, Jeff AJ4GY, Perry N4GJ, Rick WA4NVM and Mary Jean KY4FB.

The four students took the opportunity to obtain an Explorer QRZ-1 dual band 2m/70cm radio after they got their licenses.



Tech Class 4-22 Testing

Photo by Joe Lowenthal WA4OVO



Three of the Laurel VEs grading the exams: left to right-Bob AI4GI, Jeff AJ4GY and Perry N4GJ. Photo by Joe Lowenthal WA4OVO

The sixth night was equipment demonstrations on FM Radio Basics by Joe WA4OVO, Satellite contact by Rick WA4NVM and Richard K4DXF, APRS by Joe WA4OVO, and digital radios by John KN4BVH.

The instructors were Joe WA4OVO, Paul KA4X, Pat W4OQG, Steve KK4VPT, David KY4FH and John KN4BVH.

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

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

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

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



Rick KJ4NWQ on APRS Demo
Photo by Joe WA4OVO



John KN4BVH on Digital Demos
Photo by Joe WA4OVO



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

Photos by Joe WA4OVO

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

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

A Technician license review session was held in Dr. Eric Welch (WD5FTA)'s junior level Introduction to Unmanned Aerial Vehicle class for 13 Christian Brother University students on February 23rd. Congratulations to Juan KO4YBR, Juan KO4YBS, Hector KO4YBT, Jake KO4YBU, Dan KO4YBV, Joshua KO4YBW, Aldrin KO4YBX, Carlos KO4YCN, and James KE8UAR earned their Technician licenses.

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

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

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

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

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



Extra Class 1-22 Test Session

Photo by Joe Lowenthal WA4OVO

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

**Pictures from the December 2022 Delta Club
Potluck Dinner**

Submitted by Mary Jean Hall, KY4FB
Photos provided by Scott Adams, KM4PMU



Mary Jean Hall KY4FB (R) presents Carolyn Horne KX4QF (L) with the Delta Club 2022 Ham of the Year award during the December meeting.





How to Print Your FCC License

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

INDIVIDUAL EMAIL ADDRESS IN QRZ
Submitted by Joe Lowenthal, WA4OVO

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

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.

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.

ARRL MEMBERSHIP COMMISSIONS Submitted by Joe Lowenthal, WA4OVO

Recently ARRL revised their membership commissions to ARRL clubs that process individual ARRL memberships through the club. The club can receive \$15 for new memberships or renewals of past ARRL memberships over two years old. Current renewals generate a \$5 commission. Current ARRL members can renew/extend their ARRL membership at any time. If you renew early, your ARRL membership is extended for the renewal period from the expiration of your current ARRL membership. The club only gets \$5 for each renewal application no matter how many years being renewed.

Here is a link to the ARRL membership renewal form.

[ARRL-Membership-Application.pdf](#)

Fill it out and bring a check made payable to ARRL to the meeting or mail to the Delta Amateur Radio Club at PO Box 342768, Bartlett TN 38134-2768. Or, you can pay Jim Martin KD4FUU in cash at a meeting. Even though credit card information is on the application, the Delta Club does not want to have access to credit cards so we will not accept an application with a credit card information for payment.

Also, here is a link to the Delta Club Membership Application:

[application-15-3.pdf \(wsimg.com\)](#)

Packet Update

By: James Butler KB4LJV

Many times when working on equipment we need to replace nuts, bolts, or screws to complete the job properly. Getting 3 or 4 screws in a package at the store is an expensive way to get what we need. A better way is to buy a larger quantity of assorted fasteners. These can come in different styles such as wood screws, sheet metal screws, self tapping bolts, and bolts with matching nuts. The material can also be selected. You pick plated steel, black oxide steel, stainless steel, brass, or aluminum. The head style of screwdriver type, hex head, or allen head can be selected. You can also pick the quantity you need. Most assortments also include a nice case that organizes them by size and length. An assortment of these at you home will let you have them at hand and save a trip to the store. All of these can be bought on Ebay. Do a search for “assorted screws” to see all the different connectors that are available.



Amateur Hardware Update

By: James Butler KB4LJV

When we connect wires together two type of connectors come to mind. The Butt splice style crimp connector works well but is not reusable. In home wiring the twist style connector can be used but care must be used to insure a good connection. The newest style of connector for wiring is the “WAGO” connector system. These connectors have many advantages over older style methods. Wago connectors can be used for solid, stranded, and fine stranded wire types. The system has a transparent case so you can see you have a proper and safe connection.

Specifications:

12/ 24 volt DC as well as 115,240 and 480volt AC

28 to 12 gauge wire

Max current 20 amps

Rated voltage 600 volts

Strip length 9 to 10 MM

2/3/5 number of connections points

You can buy these in multi packs with an assortment of different styles off of Ebay. On Ebay do a search for “Wago Connector”.



**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**

The YL Net is every Saturday at 8:45 pm on the 146.820 frequency, which has a PL tone of 107.2 Hz. We encourage all YLs to check in with us on the YL Net!

Sparks Newsletter and Delta Club Information

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

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

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

Delta Club Members Can Like Us/Follow Posts On Facebook!
Go to <https://www.facebook.com/darcmem>.

2023 Board of Directors

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Upcoming Events

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

January 14, 2023:	Swamp Stompers Race, Shelby Forest
January 27-28, 2023:	Jackson MS Capital City Hamfest / ARRL Mississippi State Convention (Jackson, MS)
February 10-12, 2023:	Orlando HamCation (Orlando, FL)
April 8, 2023:	MARA's FreeFest, Bartlett, TN
June 17, 2023:	Knoxville Hamfest and Electronics Convention / ARRL Tennessee State Convention (Knoxville, TN)
June 24-25, 2023:	ARRL Field Day
September 30, 2023:	Bluff City Blues Bike Ride, Shelby Forest

Memphis Area VHF/UHF Nets

Name of Net	Frequency (MHz)	Offset/Tone	Local Time	Day of Week
Delta Club Information Net	146.82	- (107.2)	8:00p	Daily
YL Net	146.82	- (107.2)	8:45p	Saturday
Four-Forty Net	443.7	+(107.2)	8:30p	Friday
Mid-South Bullfrog Net	146.535	[simplex]	7:30p	Daily
Elmer Net	444.175	+ (107.2)	9:00p	Sunday
MedMERS Net	146.82	- (107.2)	12:00p	Wednesday
ARES Training Net	146.85	- (107.2)	9:00p	Thursday
Sunday Super Niner Net	927.6125	- (146.2)	8:30p	Sunday
TN Statewide DMR Net	Digital – DMR		8:00p	Friday
Crittenden ARO	147.15	+ (107.2)	8:00p	Sunday
Linked	442.4	+ (107.2)	8:00p	Sunday
Olive Branch ARC	147.255	+ (79.9)	8:30p	Thursday
Linked	444.7	+ (107.2)	8:30p	Thursday
Desoto County EMA	146.91	+ (107.2)	8:30p	Monday
Tipton ARS	145.49	+ (100.0)	7:30p	Thursday

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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