SPARKS

P.O. Box 342768 * Memphis, Tennessee 38134-2768 * Volume 115 * August 2025

Delta Amateur Radio Club (DARC)

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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*

144.390 Digipeater *DMR

You are invited to attend our monthly membership meeting at 7 pm on: Tuesday, August 12, 2025.

The meeting will be held at Mid-America Theological Seminary located at 2095 Appling Rd, Memphis, TN 38016. See the Delta Club webpage at: http://www.deltaclub.org for detailed instructions on how to find the correct entrance. Parking is available at the back of the south end of the building. The meeting will be in the Betty Howard Special Events Room.

- **FCC Testing begins at 5:30 pm in Room B201**
- **HAM 101 begins at 6:00 pm in Room B202**
  - Ed Fong antenna delivery and construction
- **Meeting Programs begins at 7:00 pm**
  - ARRL Delta Division Director David Norris K5UZ Q&A via Zoom

FCC 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 FCC testing, or FCC FRN information, please contact:

Don Strahl KZ4GJ, VE Liaison
Phone: 901-833-1270
Email: KZ4GJ.Don@gmail.com

Club Announcements!

HAM 101

Ed Fong antenna construction - I will have everyone's antennas labeled and bagged as well as PVC available. Several members of the club ordered the triband antenna which requires some fine tuning before assembly in the PVC. Lowe's has a bulk discount on PVC so I bought 20 sections to minimize waste and cost. The average person won't pay more than $6 for their share of PVC. Of course, you can bring your own pipe just make sure it's schedule 20, NOT schedule 40.

Delta Club Training

A Technician license class has been held on five previous Monday nights from 6:15-9:30pm with the final one being August 11th. Nine students attended the first class with several enrolled students who were absent. The classes are being held at the Memphis Police Department Appling Farms Station training room, 6850 Appling Farms Pkwy, Memphis. Congratulations to the following for earning their Technician license! Three students plan to test on August 12th at the club test session prior to the meeting.

- Mike Haney KJ5MKR
- Patrick Haney KJ5MKS
- Jessica Powell KR4FVA
- Julie Stoval KR4FVB
- Greg Wagner KR4FVC

The next **General** license class will start in November 2025
The next **Extra** license class will start January 2026.

Huntsville Hamfest Bus Trip – August 16, 2025

Delta Club has a bus trip again this year to Huntsville Hamfest on August 16th. If you want to go, you can pay cash or check payable to Delta ARC to Joe WA4OVO at this month's club meeting. The bus will leave Germantown Baptist Church by 6:30am, get to Von Braun Center about 9:45; leave after the 4pm door prize drawing and return to GBC about 8pm. The fare is $120. The fare includes transportation, $15 Hamfest entry ticket, two Danver's breakfast biscuits of ham, sausage or plain, soda, water, cookies, crackers and fruit on the way down, during the day and on the return to Germantown. The bus will back up to the loading dock so you can bring your purchases to the bus rather than having to carry them around all day as well as getting something to drink or something to munch on.

Equipment for Sale
Submitted by Joe Lowenthal, WA4OVO

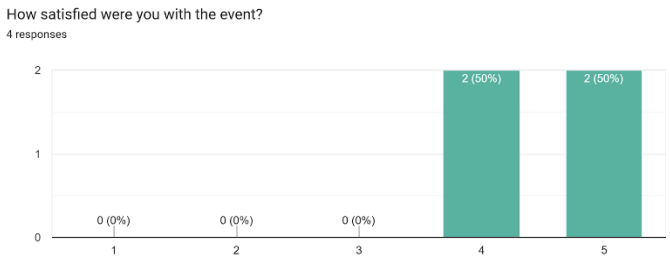
Available at the 8/12/2025 meeting. A comprehensive list is embedded at the end of this edition that will go with us to Huntsville Hamfest.

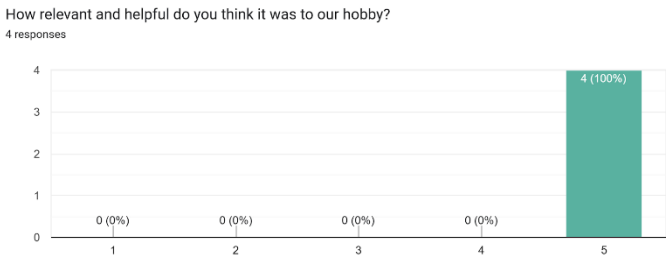
New	eBay	Sell Price	Description	Manufacturer	Model	Serial Number	Notes
$380		$200	Headset	Heil	Pro7		
	$275	$250	Key	Vibroplex		56555	
$170		$125	Power Supply	MFJ	MFJ-4225MV		primary
		$10	Solder Sucker, large				
		$4	Solder Sucker, small				
$95		$25	Soldering Tool	Portasol	P-1K		Gas operated
	$888	$800	Transceiver HF/VHF/UHF	Kenwood	TS-2000	70700014	
	$810	$800	Transceiver HF/VHF/UHF	Yaesu	FT-857	5J010255	
	$300	$300	Transceiver VHF/UHF	Icom	ID-880H	502434	D-Star
	$250	$75	Transceiver, handheld	Kenwood	TH-F6A	60600218	
	$250	$125	Transceiver, handheld	Kenwood	TH-F6A	30800590	
	$165	$120	Transceiver, VHF	Yaesu	FTM-3200DR	6G081819	65/30/5 watt
	$80	$85	Multimeter	Simpson	360 Series 5		w/ test leads, no Z batts

July Membership Meeting Signal Report

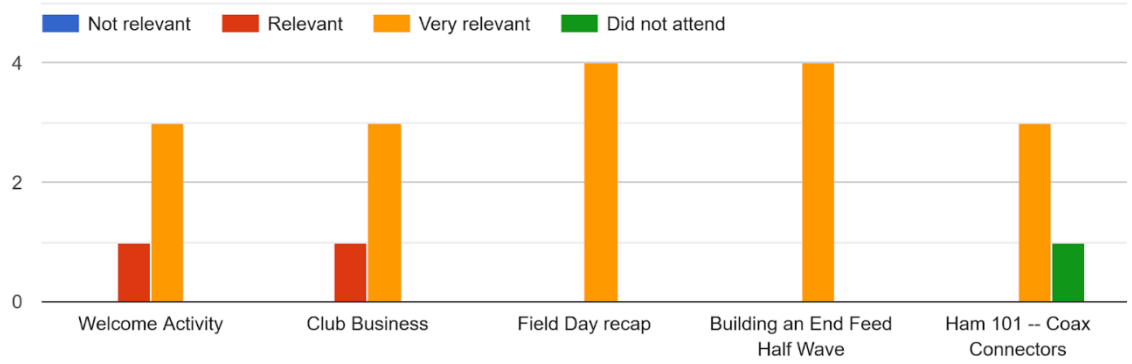
I wanted to share the "Signal Report" from the meeting last month. We had **42** people on the sign in sheet and **4** surveys submitted. The results are shown below. Based on the survey data the programs were well received. Thank you for filling out the survey and giving the club leadership feedback on how things are going. We want to hear from the membership, both good and bad. It gives us the opportunity to hear from you and respond. Our surveys allow us to quickly respond to things that are liked and things that are not liked. If we are doing something that is not getting good feedback we are committed to changing it and making it better. Please enjoy the results from last month below.

Thank you.





Which sessions did you find most relevant?



What would you like to see in the Ham 101 time slot?
2 responses

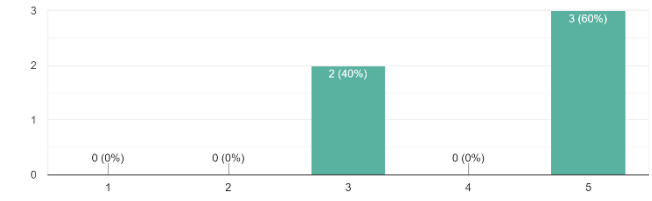
- RTTY contest guide
- Building dxcommander antenna

June Membership Meeting Signal Report

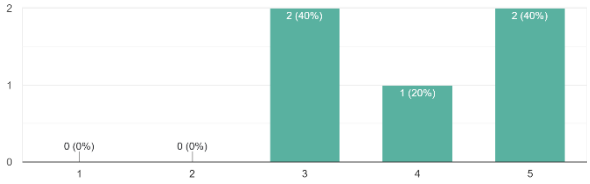
I wanted to share the "Signal Report" from the meeting last month. We had 44 people on the sign in sheet and 5 surveys submitted. The results are shown below. Based on the survey data the programs were well received. Thank you for filling out the survey and giving the club leadership feedback on how things are going. We want to hear from the membership, both good and bad. It gives us the opportunity to hear from you and respond. Our surveys allow us to quickly respond to things that are liked and things that are not liked. If we are doing something that is not getting good feedback we are committed to changing it and making it better. Please enjoy the results from last month below.

Thank you.

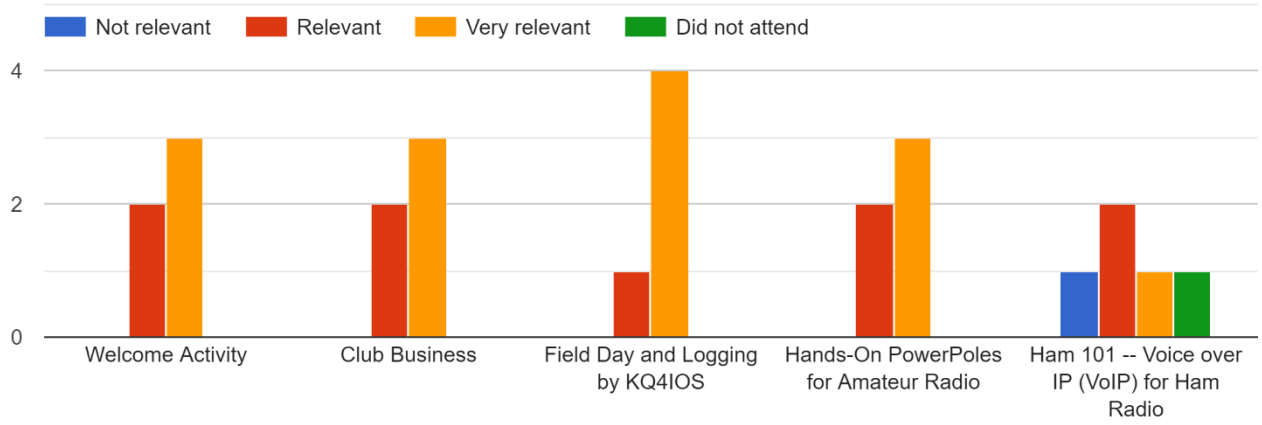
How satisfied were you with the event?
5 responses



How relevant and helpful do you think it was to our hobby?
5 responses



Which sessions did you find most relevant?



What would you like to see in the Ham 101 time slot?
2 responses

- A simple building project, maybe putting connector on coax, build a dipole or J pole or a simple qrp transmitter. Also build a simple circuit on a circuit board. Something hand on. Designing a simple circuit on a circuit board.
- Building Allstar nodes

In Memoriam
Submitted by John Reiners, KN4BVH

Mr. Johnnie Spotts was the first President of the Delta Club. Please take a few moments to remember him.

Johnnie Spotts, W6HTY
of Lexington, TN
October 7, 1927 - July 12, 2025

Mr. Johnnie Bowen Spotts, age 97, passed away peacefully on July 12, 2025 in Lexington, Tennessee. Born on October 7, 1927 in Walnut Ridge, Arkansas, Johnnie was the beloved son of Helen Hill Spotts and John Owen Spotts. He was a proud graduate of Hulbert High School and Auburn University.

A man of deep faith and commitment, Johnnie served as a Baptist Deacon Emeritus and was a devoted member of his church community. His passion for aviation was lifelong, he was a highly experienced private pilot and an active member of the Aircraft Owners and Pilots Association (AOPA). He also held memberships with the San Fernando Valley Radio Club and the Delta Amateur Radio Club, where he pursued his interest in HAM radio operation. Johnnie was also the first President of the Delta Amateur Radio Club. Johnnie had a distinguished career in aviation and industry, working with Southern Airways, Winnebago, Fluor Corporation, Penn Corp and Peterson Aviation. Among his many accomplishments, he served as a private pilot for the legendary Frank Sinatra.

Johnnie will be remembered not only for his professional achievements, but for his integrity, warmth and unwavering devotion to his family and faith.

He is survived by his six children: Adelle Taylor (Larry), Donna Burns, Howard Spotts (Kathy), Karen Rodriguez, Curtis Spotts and Linda Schiffner (David); grandchildren: Joy Pierce (Mike), Cody Taylor (Sarah), Casey Taylor (Andie), Brandon Burns, Payton Burns (Katie), Alisha Long (Jeremy), Jonathan Spotts (Kellyn), Cory Spotts (Claire), Savannah Schiffner, Jordan Schiffner and Anna Rodriguez and great-grandchildren: Nick Lee, Hunter Long, Beau Long, Caysen Taylor, Mary Taylor, Rylee Burns, John Luke Burns, Alice Spotts, Alyse Spotts, Amelia Spotts, Elizabeth Spotts and Owen Spotts.

Johnnie was preceded in death by his loving wife of 63 years, Joyce Evelyn Davis.

News and Articles for our Membership

President's Corner

Submitted by Joe Plunk, NS4E

Connections. You could ask anyone in our hobby what "Connections" means to them, and I guarantee that you would get a different answer from each person. That is one of the great things about our hobby –the wide variation of things that you are able to explore in the hobby.

However, please allow me to expound on what I think "Connections" means in the context of our club. For me it means people. What do I mean by people? I mean interacting with people and making bonds with them. It could be as simple as making a radio-based QSO with someone or as complex as seeing someone in the club in need and offering to help them. It could be that you connect with a new HAM and "Elmer" them through their first contact or assist them with the physical connection between radios and antennas.

Field Day in June showed us that in a short period of time we are able to setup and begin connecting with people from around the world. We as a club managed to connect with 481 stations (393 as the 4A club W4BS and 88 as the GoTA call W4NRC). Why do I bring Field Day back up? In the context of connections, it is a shinning example of people connecting with people: a way for us to have our hobby shine.

An additional thought on connections: this past week on the nightly Delta Net I heard a shining example of people connecting via our hobby. We had a contact join the nightly net from Salt Lake City. You may be asking how did someone from Salt Lake City connect to our night net here in Memphis. This particular person was exploring All Star and was a former resident of Germantown. He saw that our 146.82 repeater was connected via All Star, so he connected to it. After connecting to it he checked in and let us know that he was formerly from the area and that he loved being able to connect to his former area via our hobby.

As much as we focus on making connections, we do have to take a moment and recognize that we do lose connections. We lose our friends and fellow hobbyists as they become Silent Keys. We have lost a few connections this year. At the risk of not being a complete list, I will mention those that I have been informed of. We lost Barry McDonald, W5CJ; Pat Lane, W4OQG; James "Jim" Martin, KD4FUU; Don Gilmore, AA4JA; and the Delta Club's first President Johnny Spots, W6HTY. We are thankful that we were able to have connections to these fellow friends and hobbyists and for their service and leadership in helping our club become what it is today.

It is never too late to make connections. I invite you to join us on the Huntsville bus trip this coming Saturday August 16th. It is truly a VIP experience to have the bus pull up to the back of the convention center and have us walk in the back door and onto the HamFest floor. If

you are interested in joining us—we still have spots—please contact Joe Lowenthal at WA4OVO@gmail.com.

Finally, please take a few minutes and look for the newest Hams to join our hobby. Our own Director of Training, Joe Lowenthal's latest Technician class has produced new licensees! Please join me in welcoming these new Hams to the hobby: Mike Haney KJ5MKR; Patrick Haney KJ5MKS; Jessica Powell KR4FVA; Julie Stovall KR4FVB; and Greg Wagner KR4FVC. Congratulations to each of them! I challenge each of our members to connect to these new hobbyists. I would also challenge each of our members to connect and say thank you to Joe Lowenthal for the dedication that he exhibits to the training and testing of new Hams.

Lastly, please ask one person to join our club and have fun with us! We look forward to meeting them soon!

73

Joe Plunk, NS4E

Vice President's Corner

Submitted by Tyler Henley, KQ4QEV

Hey everyone, hope all is well. We're now into the back half of the year which means approaching cooler temps and hopefully some more outside activities. We have an incredible bus trip option available to members to go to Hamfest with us in Huntsville Alabama. I went last year for the first time and it was incredible to see just how alive the hobby really is! People of all ages were everywhere buying new things, slightly used things and buying projects for things they want to do.

If you can't make it out, we totally understand but would like you to consider going next year. I know a lot in the club are bound by some physical constraints and this heat isn't helping anything out. However, as cooler temps approach, think about getting with other members and maybe doing a POTA activation or finding another one of the events on the ARRL website. There is a lot to do out there in this hobby.

I'll see and hear you on the airwaves!

Program's Corner
Submitted by Adam White, K4SPB

My Ed Fong antenna personal notes that I've gleaned either from Ed himself or my experience with them over the past year.

- The bottom approx. six inches in the pipe is just coax and not active antenna. This is for clamp mounting to a mast.
- Gluing/cementing the top cap is optional. If you are suspending the antenna from the top it is highly recommended. Gluing the bottom cap (with the coax connection) WILL void your warranty. These still seal quite well with compression.
- Paint of some kind is strongly encouraged. PVC degrades under UV light. Ed recommends regular rustoleum (avoid metallic colors, hammered textures, etc.) I've had success with tan for blending with trees and grey for blending with the sky. Another option I've experimented with to much success is vinyl dye from auto parts stores.
- Once coax is connected, I use a long section of coax wrap or Keeney miracle wrap starting from the coax below the connector and moving up followed by electrical tape covering that completely.

I recently experienced a failure of one of my antennas that had been up about a year. It was suspended from the top and I believe the weight of the coax (heavy LMR400) and movement in the wind caused the nut to loosen while also expanding the hole. Eventually this movement caused a failure at the solder joint in the center conductor within the antenna. This was a very simple repair but to prevent repeat failure I used electrical tape running vertical followed by the procedure in the last bullet point. If you're mounting to a mast you likely won't have a risk of this issue but you could include a service loop in your coax to remove any weight on that connection.

Hopefully having all of this in writing will be a helpful reference to anyone assembling or installing these. Lastly, I designed a 3D printed mount to attach these antennas to threaded, telescopic paint poles. If you use a mast like this, I can share the STL with you or print one for you.

The failure:

Repeater Trustee's Corner
Submitted by Dan Fleek, AA4DF

I'm looking forward to picking up my Ed Fong dual-band j-pole antenna. For less than $50, I'll have an outdoor antenna to put up. I'm finally getting some antenna stuff set up at the house. I have been spoiled by living 2 miles from the 146.820 repeater and can almost hear the repeater with the antenna off my HT. I've been getting more involved with some of the ARES efforts and realize I need better reach to get to other systems. This weekend was the Shelby County ARES Simplex Net and I don't really have the gear to participate, so time to get some gear.

There are a lot of opportunities to participate in the club. I really appreciate the help that I have received from others stepping up. From those that have helped me run cable, climb up on top of Methodist North, build controllers, to those who donate parts, connecters, cables, and even antennas, it helps immensely. One thing that I have learned is that I don't have to know everything. That is part of the fun - engaging others that have various skills to get the job done. Don't be afraid to step up and take on a task. Others will help. Want to get experience as a net controller? Sign up to be one. Do you want a fox hunt? Pick a day and be the coordinator and don't worry about your knowledge. Others will help once there is a leader. Mistakes will be made, but that is part of ham radio - learning and improving. You have to start somewhere.

Start somewhere. Step up and help. Put up an antenna. Help someone else with a problem. Make a mistake and learn. Come to a meeting and meet someone new and encourage them in the hobby. Be an active part of your local ham community.
See you at the club meeting and on the air!

Dan
AA4DF

Packet Update
Submitted by James Butler, KB4LJV

A new digital mode is now available for amateurs. FT8 has become a common mode for confirming contacts on the band. The mode is very effective weak signal mode. A new mode called JS8 Call is now available for download. The mode offers FT8 style weak signal propagation but is used for keyboard to keyboard communications. The program is free to download and use. The program can be downloaded for Windows, Apple, and Linux. You can find out more about using this mode by going to their website. The web address is http://js8call.com/

JS8Call comes in a variety of builds.

- Desktop Linux (64-bit x86_64, deb)
- Desktop Linux (32-bit i386, deb)
- Raspbian Stretch (armv7, deb)
- Windows 10 (win32_64)
  - Windows 10 is the only officially supported Windows build at this time, but the application has been confirmed to work all the way back to Windows XP.
- Mac OSX 10.11+ (x86_64)

JS8Call Frequencies

From version . 0.5.x the default calling frequencies set up in JS8Call are listed below, but please note these are not set in stone and can easily be changed in your settings, or you can simply manually retune your radio to another frequency.

1.842Mhz	3.578Mhz	7.078Mhz
10.130Mhz	14.078Mhz	18.104Mhz
21.078Mhz	24.922Mhz	28.078Mhz
	50.318Mhz	

James Butler
KB4LJV

Amateur Hardware Update
Submitted by James Butler, KB4LJV

We now have a lot of different brands of HTs. A new popular model is the Quansheng UV-K5(8). This portable radio has lots of nice features along with maximum frequency coverage. The radio has an easy to view fantastic amber screen. The radio has a 5 watt output. It has dual band standby with 200 memory channels. This radio has 50 to 600 MHZ full band receiving capability. The K5 has crossband operation. The receiver will receive the FM radio band and AM aviation band. The 10 NOAA weather stations are built in. The DTMF function is also built in. The K5 comes with a drop in charger base and headphone-speaker system. The on board battery is 1600 milliamp hours. You can upload new operating software for more features. A small add on PC board with S14732 receive IC for under $10 extends receive band down into the shortwave bands and allows for SSB reception. You can also modify the radio for dual antennas. This radio offers unbeatable features and upgrades with a price of less than $40. Do a search on YouTube for "Quansheng K5" to see all the features and upgrades. Search "Quansheng K5" on EBAY to see prices.

James Butler
KB4LJV

Historian's Corner
Submitted by John Reiners, KN4BVH

A Brief History of the Huntsville Hamfest Bus Trip

If you have ever listened to the nightly nets on the .82 repeater during the months of June, July, or August; I am certain you have heard the announcement regarding the bus trip to the Huntsville Hamfest. While we can almost recite the announcement regarding the fare, the Danver's biscuits, and being able to rest your weary feet, how many of you know much about the history of this trip over the years?

As it turns out, this trip originated in 2007 or 2008 and was organized by the fine folks over at MARA. Back then the trip was done with a local bus company in Bartlett before they were bought out by Cline. About those Danver's biscuits we all crave, well in the early years of this trip Lane Morris N4GMT, used to cook all the breakfast biscuits for those going on the trip. Another interesting tidbit is that back then the fare was only $47.00 and the trip averaged just under 50 people.

Joe Lowenthal WA4OVO began organizing the trip in 2009. In an effort to make things more convenient, he tried having 2 pickup points, 1 at Ellendale Church of Christ and the other at Germantown Baptist. This was eventually abandoned as the time it took for the bus to get from Ellendale to Germantown was much longer than anticipated.

When asked if any of these trips were "Eventful?" Joe mentioned one of the years, the bus ran out of fuel on its way back just outside of Walnut, MS. The area had some really high grass on the shoulder, so everyone had to stay on the bus or face getting eaten up with chiggers. Thankfully the driver was able to contact someone, and they brought enough diesel to get the bus to a filling station in Walnut.

So, there you have it, a brief history of this trip. Please feel free to send me any comments or memories you have of this annual trek to Hunstville. You can email me at Historian@Deltaclub.org

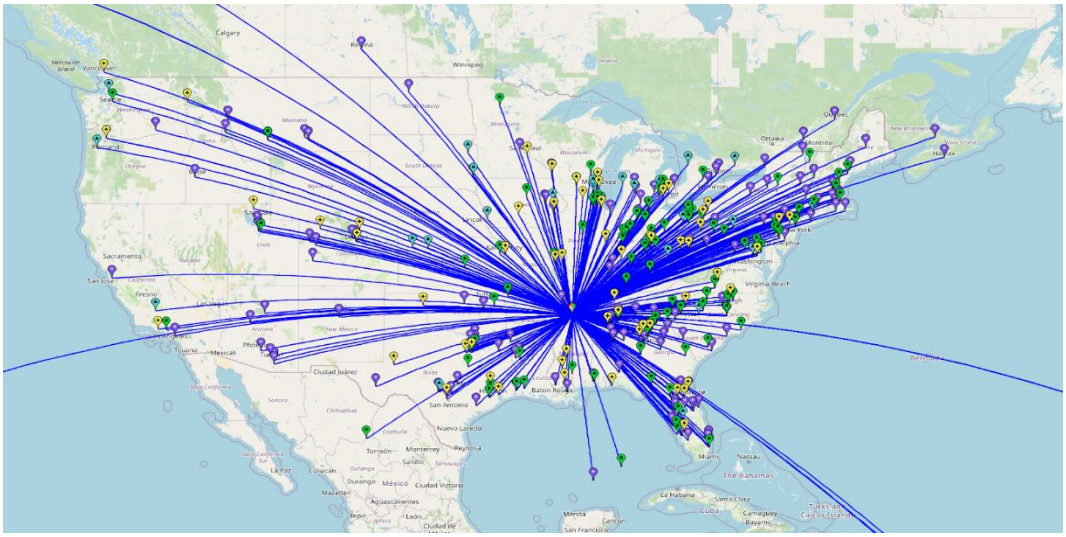
Field Day Recap
Submitted by Joe Plunk, NS4E

Field Day 2025 is in the logs! I wanted to take a few moments and give everyone a review of Field Day by the numbers.

Contacts Made as W4BS : 393
Contacts Made as W4NRC (GoTA): 88
Preliminary Total Score: 3,424
Total Contacts by Band and Mode:

Band	CW	Phone	Dig	Total	%
80	0	0	59	59	15
40	21	72	19	112	28
20	63	95	33	191	49
15	0	0	31	31	8
Total	84	167	142	393	100

States Worked: 46
States Not Worked: 4-- Alaska, Nevada, Nebraska and Arkansas
United States Counties worked: 73
Canadian Provinces worked: 5—Ontario, Nova Scotia, Quebec, British Columbia, and Saskatchewan
Countries worked: 3 – Canada, Puerto Rico, Japan
Farthest Country: Japan
Continents worked: 3


Calgary
Winnipeg
Ottawa
Montréal
Sacramento
Fresno
Phoenix
Mexicali
Ciudad Juárez
San Antonio
Baton Rouge
Nuevo Laredo
Monterrey
Torreón
Saltillo
Durango
Mexico
Ciudad Victoria
Aguascalientes
León
La Paz
Culiacán
Miami
Nassau
The Bahamas
La Habana
Cuba
Mérida
Cancún
San Francisco

DARC Director's Reports

Treasurer's Report
Submitted by Paul Broom, KY4MX

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 dues are $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

Blank applications are also available at club meetings. If you prefer, you can print and bring the completed form, along with applicable membership fees, to any in-person meeting. Please contact Paul Broom,KY4MX at **treasurer@deltaclub.org** with any questions or concerns regarding application submission and/or payment of annual dues.

LIFEGREEN CHECKING FOR BUSINESS
July 1, 2025 through July 31, 2025

SUMMARY

Beginning Balance	**$18,774.88**		Minimum Daily Balance	$18,597
Deposits & Credits	$1,799.50	+	Average Monthly Statement Balance	$19,124
Withdrawals	$0.00	–		
Fees	$0.00	–		
Automatic Transfers	$0.00	+		
Checks	$300.97	–		
Ending Balance	**$20,273.41**			

DEPOSITS & CREDITS

07/21	Deposit - Thank You	609.50
07/23	Deposit - Thank You	770.00
07/28	Deposit - Thank You	300.00
07/28	Deposit - Thank You	120.00
	Total Deposits & Credits	$1,799.50

CHECKS

Date	Check No.	Amount	Date	Check No.	Amount
07/28	1652	123.50	07/09	1654	87.00
07/10	1653	72.75	07/10	1655	17.72
				Total Checks	$300.97

* Break In Check Number Sequence.

DAILY BALANCE SUMMARY

Date	Balance	Date	Balance	Date	Balance
07/09	18,687.88	07/21	19,206.91	07/28	20,273.41
07/10	18,597.41	07/23	19,976.91		

Applications Received - June 2025		
(0) New Membership(s) - Pro-Rated Dues		$0.00
(3) New Membership(s) - Dues Waived		$0.00
(0) New Membership(s) - Individual		$0.00
(0) New Membership(s) - Family		$0.00
(1) Membership Renewal(s) - Individual		$20.00
(0) Membership Renewal(s) - Family		$0.00
(0) Donations Received		$0.00
	Total Dues Received	**$20.00**
Other Deposits & Credits		
(0) ARRL Club Commission - New Members ($15.00)		$0.00
(0) ARRL Club Commission - Renewals ($5.00)		$0.00
ARRL Affiliated Club - Individual Membership Fees		$0.00
Sale of Delta Club Patches (0 @ $5)		$5.00
Ed Fong Antenna order Receipts		$584.50
Estate Sales		$120.00
2025 Huntsville Hamfest - Bus Fares Received		$1,070.00
	Total Other Deposits	**$1,779.50**
	Total Deposits	**$1,799.50**
Withdrawals & Debits		
None		$0.00
	Total Withdrawals	**$0.00**
Checks		
Check #1652 - Dan Fleek - Purchase of sound card for the 146.625 repeater		$123.50
Check #1653 - Josh Cunningham - Field Day Food		$72.75
Check #1654 - Tyler Henley - Bandpass Filter		$87.00
Check #1655 - Joe Lowenthal - Field Day supplies		$17.72
Check #1656 - Ed Fong - Antenna Order ($1,348.00 outstanding)		$0.00
Check #1657 - Cline Tours - Huntsville Bus ($2,575.00 outstanding)		$0.00
	Total Payments	**$300.97**

SMALL BUSINESS CD *8481

Available Balance	INTEREST RATE	YTD INTEREST	INTEREST EARNED NOT PAID
$5,413.68	4.160 %	$42.94	$121.02

SHOW ACCOUNT NUMBER
*8481

ISSUE DATE	LAST INTEREST AMOUNT PAID	PREVIOUS YEAR INTEREST
10/28/2022	$42.94	$263.01
ISSUE VALUE	**DATE LAST INTEREST PAID**	**MATURITY DATE**
$5,000.00	1/22/2025	8/22/2025

▲ Hide More Details

SMALL BUSINESS CD *8503

Available Balance	INTEREST RATE	YTD INTEREST	INTEREST EARNED NOT PAID
$11,646.29	4.160 %	$124.14	$217.01

SHOW ACCOUNT NUMBER
*8503

ISSUE DATE	LAST INTEREST AMOUNT PAID	PREVIOUS YEAR INTEREST
10/28/2022	$124.14	$274.10
ISSUE VALUE	**DATE LAST INTEREST PAID**	**MATURITY DATE**
$11,000.00	2/23/2025	10/22/2025

▲ Hide More Details

DARC Board of Directors Meeting Minutes
Submitted by Perry Hayes, N4GJ

Delta Club BOD Meeting Minutes August 5, 2025

Minutes of the Delta Amateur Radio Club Board of Directors Meeting - August 5, 2025

Present: President Joe Plunk, NS4E, Vice President Tyler Henley, KQ4QEV, Secretary Perry Hayes N4GJ, Treasurer Paul Broom, KY4MX, Director of Meetings and Special Events, Scott Adams KM4PMU, Director of Publications Johnathan Urschel, KO4WAQ, Director of Training Joe Lowenthal, WA4OVO, Repeater Trustee Dan Fleek, AA4DF, Director of Programs Adam White, K4SPB, Club Historian John Reiners, KN4BVH.

Absent: None.

Guests: Dr. Randy Redd, KQ4HJH.

The Delta Amateur Radio Club (DARC) Board of Directors (BOD) met on August 5, 2025, via a ZOOM video conference call. The President and Secretary were present. President Joe Plunk, NS4E, called the meeting to order at 6:30pm

Secretary Perry Hayes called the roll and declared a quorum.

President Joe Plunk thanked Vice President Tyler Henley and everyone else for covering for him at the July Membership meeting. He had a great trip with the Boy Scouts.

Joe Plunk asked if there were any objections to the Secretary's Minutes of the July Membership Meeting, which were circulated by email. There were no objections. Johnathan Urschel made a motion that the minutes be submitted to the membership, which was seconded by Tyler Henley. The minutes will be submitted to the membership at the August meeting.

Treasurer Paul Broom presented the membership applications that have been received since the July BOD Meeting. Perry Hayes moved to accept all of the applications, with a second by Repeater Trustee Dan Fleek. The motion passed unanimously.

There was a discussion about the renewal of DARC's Certificate of Deposit with an account number ending in *8481. The CD matures on 8-22-25. The consensus of the BOD was to renew the CD for 13 months at an interest rate of 3.75%. Perry Hayes made a motion to give Paul Broom the authority to renew the CD on those terms, which was seconded by Scott

Adams. The motion passed without opposition.
Treasurer Paul Broom presented the July Treasurer's Report. Perry Hayes made a motion to accept the Treasurer's Report, which was seconded by Johnathan Urschel. The motion passed unanimously.

There was a discussion about bills expected to be submitted in the month of August.

Joe Lowenthal said he wanted to spend up to $90 on a President's Jacket for Mary Jean Hall, KY4FB. Tyler Henley made a motion to approve that expenditure from the BOD's Discretionary Fund, which was seconded by Scott Adams. There was no opposition.

Adam White said he would request reimbursement for the shipping cost of the Ed Fong antennas, which will be about $20. There were no objections.

Joe Plunk said he would request reimbursement for the Club's Zoom fees, which will be around $170.

Joe Plunk said that he was contacted by Fred Miller, President of Nashoba Amateur Radio Club. Nashoba offered to reimburse DARC for half of the food bill for Field Day, which was $315.49.

Director of Programs Adam White discussed the Ham 101 and Program topics for the August meeting.

Repeater Trustee Dan Fleek said that he will be replacing connectors and the APRS antenna at the Methodist North repeater site. Dan also needs a power supply for the DMR repeater at the Brunswick site.

Johnathan Urschel offered to donate a VHF/UHF antenna for Methodist North.

Paul Broom said he has prepared a standard receipt for donations to DARC as a 501(c)(3) non-profit. Paul will provide Johnathan with a receipt.

Director of Publications Jonathan Urschel asked everyone to submit their articles for Sparks as soon as possible. Johnathan said he is working on automating the process for creating the newsletter and will have more information at future meetings.

Joe Lowenthal said that 20 people have paid for the bus trip to the Huntsville Hamfest and an additional seven people have expressed interest. Four of those seven are students in the current Technician Class, and he expects to hear from them by next Monday.

Joe Plunk thanked Joe Lowenthal for all of his hard work in organizing the bus trip.

Joe Plunk asked everyone to be thinking about items to be offered for prizes at the November meeting.

Jonathan Urschel agreed to coordinate the prizes this year.

[The Zoom recording was temporarily paused as Randy Redd made a confidential presentation to the BOD]

Joe Plunk asked Paul Broom to check and see if DARC has made any charitable contributions to the Mid-America Baptist Theological Seminary this year.

Joe Plunk asked if any BOD members had additional reports.

Paul Broom said he would upload his 501(c)(3) receipt to the shared drive.

Joe Plunk thanked Adam White for all of his work on the Ed Fong antenna order.

Director of Training Joe Lowenthal said the Technician Class License Class took their exams last night. 7 students tested and 5 passed. 1 student could not attend, but may test at the 8/12 DARC meeting.

Joe said that some of the students may participate in the bus trip to Huntsville.

Dan Fleek reminded everyone about the DMR net on Wednesday evenings at 7:30pm.

Club Historian John Reiners said that he was doing some research on Johnie Spotts, W6HTY - the first President of DARC. Johnny recently became an SK.

Jonathan Urschel said he made his first contacts on FT8 during a recent trip.

There being no further business, President Joe Plunk said he would entertain a motion to adjourn. Perry Hayes made a motion to adjourn, which was seconded by Dan Fleek. The motion passed unanimously.

President Joe Plunk adjourned the meeting at 7:43pm.

The next regular meeting of the Delta Amateur Radio Club Board of Directors is scheduled for

Tuesday, September 2, 2025 at 6:30pm, via Zoom.
Respectfully submitted,
Perry Hayes, N4GJ
Secretary

Minutes of Last Month's Club Meeting
Submitted by Perry Hayes, N4GJ

Minutes of the Delta Amateur Radio Club Membership Meeting July 8, 2025

The July 2025 Delta Amateur Radio Club (DARC) Membership Meeting was held on Tuesday, July 8, 2025 at the Mid-America Baptist Theological Seminary. The Vice President served as the chair and the Secretary was present. Club Vice President Tyler Henley, KQ4QEV, called the meeting to order at 7:00pm. There were 42 members and visitors in attendance.

Present: Vice President Tyler Henley, KQ4QEV, Secretary Perry Hayes, N4GJ, Treasurer Paul Broom, KY4MX, Director of Training Joe Lowenthal, WA4OVO, Repeater Trustee Dan Fleek, AA4DF, Director of Meetings and Special Events Scott Adams, KM4PMU, Director of Programs Adam White, K4SPB, Director of Publications Johnathan Urschel, KO4WAQ.

Absent: President Joe Plunk, NS4E, Club Historian John Reiners, KN4BVH

Vice President Tyler Henley welcomed everyone to the meeting.

Secretary Perry Hayes, N4GJ, called the roll of the Board of Directors (BOD) and declared a quorum.
Tyler Henley asked everyone to introduce themselves and give their license class.

Josh Cunningham, KQ4IOS, made a motion to accept the Secretary's Minutes, as published in Sparks. Dr. Randy Redd, KQ4HJH, seconded the motion. The motion passed unanimously.

Adam White, K4SPB, made a motion to accept the Treasurer's Report, as published in Sparks. Dan Wehner, KN4FBJ, seconded the motion. The motion passed without opposition.

Tyler Henley asked if any BOD members had reports for the Club.

Director of Programs Adam White said that the topic for this evening's Ham 101 session was "Crimping Coax Connectors." Adam encouraged everyone to make suggestions for future topics on the Signal Report survey.

Repeater Trustee Dan Fleek, AA4DF, said that lightning took out the APRS antenna at the Methodist North repeater site, but the radio appears to be in good shape. The grounding and lightning suppression seem to have worked. Dan plans to replace the APRS antenna, and also to replace the audio board at the 146.625 repeater site in Germantown.

The Bylaws Committee did not have a report.

Director of Training Joe Lowenthal, WA4OVO, said that the Technician Class License Class met for the second time last night. 9 of the 11 students attended, and it looks like a good class.

Joe reported that 12 people have registered for the bus trip to the Huntsville Hamfest on August 16th.

After a short break, Tyler Henley hosted an informal discussion about Field Day 2025. Several members shared their experiences and talked about what they enjoyed most. There was a slide show of pictures from Field Day, and a discussion about what was going on in the photos. There was also a discussion about possible areas for improvement next year.

Director of Programs Adam White delivered a program entitled “End Fed Antennas and How to Build Them.” Adam discussed the theory behind end fed antennas, the use of transformers, winding toroids, selecting antenna wire and hanging configurations. Adam covered several of the EFHW kits and parts that are commercially available.

Tyler Henley encouraged everyone to complete a Signal Report survey.

There being no further business, Vice President Tyler Henley said that he would entertain a motion to adjourn. Perry Hayes made the motion, which was seconded by Dan Wehner. The motion passed unanimously. Vice President Tyler Henley adjourned the meeting at 7:55pm.

The next regular membership meeting of the Delta Amateur Radio Club is scheduled for Tuesday, August 12, 2025 at the Mid-America Baptist Theological Seminary, beginning at 7:00pm.

Respectfully submitted,

Perry Hayes, N4GJ
Secretary

Delta Ham License Training, 2025

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 Administration 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 2025 from Delta Classes

13 Technician

1 General

3 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 Tenth Edition with question pool that became effective July 1, 2023 for four years.

The current ARRL Extra Class License Manual is the Thirteenth Edition with question pool that became effective July 1, 2024 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.

If interested in a class, send an email to wa4ovo@gmail.com with Subject line: Tech, General or Extra Class and name, email address and cellphone number is text.

The next **General** license class will probably start in early November 2025.
The next **Extra** license class will probably start in early January 2026.
The nest **Technician** license class will probably start in mid to late February 2026.

SCHEDULED CLASSES

None

CURRENT CLASSES

Tech Class 3-25 – June 30 – August 11, 2025

A Technician license class is being held on six Monday nights from 6:15-9:30pm on June 30, July 7,21,28, August 4 and 11. Nine students attended the first class. The classes are being held at the Memphis Police Department Appling Farms Station training room, 6850 Appling Farms Pkwy, Memphis. Seven students took their exam on August 4 th . Congratulations to Mike Haney KJ5MKR, Patrick Haney KJ5MKS, Jessica Powell KR4FVA, Julie Stovall KR4FVB and Greg Wagner KR4FVC who earned their Technician license. Three students plan to test on August 12th at the club test session prior to the meeting.

Tech Class 3-25 first class with Bobby KD5BS providing instruction
Photo by Joe Lowenthal WA4OVO

The instructors are Bobby Stroud KD5BS, Paul Broom KY4MX, John Reiners KN4BVH, Perry Hayes N4GJ, Carolyn Horne KX4QF, Steve Frazier KK4VPT, and Joe Lowenthal WA4OVO.
The equipment demonstrators during the sixth class are Rick Tillman WA4NVM and Richard Martin K4DXF on satellites; Rick Pellicciotti KJ4NWQ on APRS; John Reiners KN4BVH on ARES, D-STAR, Fusion and DMR; and Joe Lowenthal WA4OVO on repeater basics.

PREVIOUS CLASSES

Tech Class 2-25 – February 24 – April 7, 2025

A Technician license class is being held on Zoom on 6 Monday nights from 6:15-9:30pm on February 24, March 3, 17, 24, 31 and April 7. There is no class on March 10th. There were 16 students during the first class. Thirteen students finished the class.
Aaron KR4BZN tested online on March 7th. Five students, Owen KR4CVK, Cassie KJ5KTT, Tom KR4CUX, Bill KR4CVJ and Danny KR4CVH passed their Technician license at the in person testing on March 31st. The Laurel VE team of Perry N4GJ, Don KZ4GJ, Jeff AJ4GY, Rick WA4NVM and Joe WA4OVO provided the test session.
Mike Benakovich passed his Technician license online on April 5th. Erica KJ5LDJ earned her Technician license in Houston on April 26th. The other students are out of town so they will take their exam locally or online.

The instructors were Park AI5CY, Paul KY4MX, John KN4BVH, Perry N4GJ, Carolyn KX4QF, Steve KK4VPT and Joe WA4OVO. The demonstration team was Joe WA4OVO on analog radio basics and Echolink, Rick WA4NVM on satellites, Rick KJ4NWQ on APRS, and John on digital radio basics.

Extra Class 1-25 – January 4 – February 15, 2025

An Extra Class license class was held via Zoom on 5 Saturdays from 9:00am to 1:00pm on January 4,12,18, February 1 and 8. There was not a class on January 25th. The class had the opportunity to take the FCC exam at the Delta Club test session on Tuesday February 11th. Seven students started the class with two from out of state. Five finished: Mark WB0ROG, Josh KQ4IOS, Greg KQ4OVD, Vernon KQ4WCL and Tommy KQ4SQC.
Congratulations to Josh KQ4IOS who passed at the Delta Club January test session and Mark WB0ROG who passed on February 1st at his local Arizona test session. Congratulations to Vernon KQ4WCL who passed at the February 11th Delta Club test session.
The instructors were Paul KY4MX, David KY4FH, Dave AD4Q, Park AI5CY, Carolyn KX4QF, Paul KA4X, Bobby KD5BS and Joe WA4OVO.
Thanks to the Delta Club VE team - Mike KW4RI, Dana WI4B, Tom AC5MR, Ham W4GMM and Roger WR4R.

General Class 4-24 – November 7 – December 12, 2024

An in-person General license class will be held on five Thursday nights November 7, 14, 21, December 5 and 12 from 6:15-9:30pm. The 5th class will be an opportunity to take the FCC exam. The classes will be held at the Memphis Police Department Appling Farms training room, 6850 Appling Farms Parkway. The seven students are Michael KQ4QLJ, John KQ4UIC, Eric KN4QNU, Tony KN4FBK, William KQ4UEO, Randy KQ4HJH, and Rich KN4OEI.

Congratulations to William KQ4UEO who upgraded on December 3rd.
Congratulations to Michael KQ4QLJ and Tony KN4FBK for upgrading to General on December 12th.
Thanks to the Delta Club VE Team of Mike KW4RI, Jeff KX4LO, Perry N4GJ, Randall KY4MY, Doug WA4CB, Don KZ4GJ, Dan KN4FBJ and Joe WA4OVO who provided the test session.

The instructors are Paul KY4MX, Park AI5CY, Steve KK4VPT, Billy WL4B, Perry N4GJ, Randall KY4MY, Carolyn KX4QF, Bobby KD5BS, John KN4BVH and Joe WA4OVO. The Delta Club ARRL VE Team will provide an opportunity for FCC testing on December 12th.

Randall KY4MY presenting to General Class 4-24
Photo by Joe Lowenthal WA4OVO

Tech Class 3-24 – July 8 – August 12, 2024

An in-person Technician license class was held on six Monday nights on July 8, 15, 22, 29 August 5 and 12 from 6:15-9:30pm. The 5th class was a review of the question pool and opportunity to take the FCC exam. There were 12 students registered with eight completing the instructional period. Congratulations to Technicians Chris Pechak KQ4TQT and Daniel Lees KQ4TQ9U who tested at the Delta Club July 9th ARRL test session. Bill Matthews KQ4UEO also tested early on-line for Technician. Congratulation to John Burwell KQ4UIC, and Dexter Haney KJ5HMT for earning their Technician license. Congratulations to Cody Hubley KQ4UJD for earning Technician and General.

Steve KK4VPT presenting

Perry N4GJ presenting

Satellite Demo by Rick WA4NVM FM Digital Opns by John KN4BVH
Photos by Joe Lowenthal WA4OVO

The instructors were Park AI5CY, Paul KY4MX, John KN4BVH, Perry N4GJ, Carolyn KX4QF, Steve KK4VPT and Joe WA4OVO.

The last class was demonstrations on FM Repeater Basics, satellite operations, APRS, and FM digital operations.

The equipment demonstrators are Rick WA4NVM on satellites, Rick KJ4NWQ on APRS, John KN4BVH on FM digital radios and Joe WA4OVO on repeater basics. The classes were held at the Memphis Police Department Appling Farms Precinct, 6850 Appling Farms Parkway.

Previous Months' and Nice to Know Information

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 https://www.qrz.com and log in. Then enter your email address on QRZ page so other hams can contact you via 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. If you go by your middle name or a nickname, you can add a Nickname. After signing in to QRZ, hover over your callsign. Click on Edit (CALLSIGN). Click on Update the basic name. Go to Nickname. Enter your nickname. Go to bottom of page.

ARRL Benefits

ARRL amateur radio community. When you renew, a few of the benefits you will enjoy are: - Digital access to all four ARRL publications -- QST, On the Air, and QEX. QST is the official membership journal of ARRL or On the Air aimed at helping new and emerging radio communicators get active and, on the air, QEX covering topics related to radio communications experimentation, and National Contest Journal (NCJ), covering radio contesting. - Access to ARRLs 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. **If you join or renew through Delta Club, the club receives a commission. For new ARRL members or expired membership over 2 years there is a $15 commission: for renewals a $5 commission** ARRL Application.pdf

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 Mary Jean Hall, KY4FB

The YL Net is every Saturday at 8:45 pm on the 146.820 W4BS repeater, which has a PL tone of 107.2 Hz. Each YL Net has a designated "general discussion" section, which is a great time for hams of all experience levels to discuss various topics ranging from ham radio to gardening and then some! You do not have to be a YL to check in on the YL Net - everyone is welcome!

We are looking for more YL Net Control Operators (NCOs)! You do not need to have experience calling a Net to be a YL NCO; you just need to be able to get into the repeater and read from a script. It's a great Net to try out as being a NCO, and you would only call the YL Net about once a month. If interested, please email Mary Jean KY4FB at ky4fb.tn@gmail.com or call/text at 901.356.1475. 73!

2025 Board of Directors

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OPEN

Immediate Past President
VACANT

Repeater Trustee
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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.

Upcoming Events

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

Memphis Area VHF/UHF Nets

Name of Net	Frequency (MHz)	Offset/Tone	Local Time	Day of Week
Mid-South Bullfrog Net	146.535	[simplex]	7:30p	Daily
Delta Club Info Net (Primary)	146.82	- (107.2)	8:00p	Daily
Delta Club Info Net (Secondary)	443.200	+(107.2)	8:00p	Daily
YL Info Net (Primary)	146.820	- (107.2)	8:45p	Saturday
YL Info Net (Secondary)	443.200	+(107.2)	8:45p	Saturday
Sunday Super Niner Net	927.6125	- (146.2)	8:30p	Sunday
Elmer Net	147.030	+ (107.2)	9:00p	Sunday
Desoto County EMA	146.910	+ (107.2)	8:30p	Monday
MedMERS Net	146.820	- (107.2)	12:00p	Wednesday
Midsouth DMR Net	DMR – TG31471		7:30p	Wednesday
Crowley's Ridge ARC	147.150	+ (107.2)	8:30p	Wednesday
Crowley's Ridge ARC	145.450	+ (107.2)	8:30p	Wednesday
Tipton ARS	145.490	+ (100.0)	7:30p	Thursday
Olive Branch ARC	147.255	+ (79.9)	8:30p	Thursday
OBARC Linked	444.700	+ (107.2)	8:30p	Thursday
ARES Training Net	146.850	- (107.2)	9:00p	Thursday
TN Statewide DMR Net	DMR – TG3147		8:00p	Friday
Four-Forty Net	443.200	+ (107.2)	8:30p	Friday
Neshoba Club Info Net	146.625	- (107.2)	8:30p	4th Monday

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

Comprehensive equipment list for sale

EQUIPMENT for SALE 8/8/25

Box No	Pcs No	Own	Sold Price	Sold To	New	eBay	Sell Price	Description	Manufacturer	Model	Serial Number	Notes
2	224	k			$30		$20	Amplifier, Headphone HiFi	FiiO A1	FA1121		Shows out of stock
2	225	k					$15	Amplifier, Headphone HIFI				16-300 Ω
5	261	DS					$50	Amplifier, VHF	Tokoyo Hy-Power HL-30V			
5	260	DS			$300		$200	Amplifier, VHF/UHF	Mirage	BD-35	UN	New FM, 35 watts
T1	360	BM					$10	Antenna			Possibly 6M	66" long w/PL259 o
L	276	BM					$20	Antenna Base 220 MHz Vertical				Home made ¼ wave
L	277	BM			$220	$150	$150	Antenna Base VHF/UHF	Comet	GP-9		
T1	247						$10	Antenna Coil, HF				
4	361	BM					$25	Antenna Dipole 20m				16 ft legs
2	22	k					$20	Antenna kit, Low Power w/insulator, 2 clamps, 1 round connector & 1 shrinkwrap 70ft long wire				
T1	73	JK					$15	Antenna Mobile 6M	Hustler	RM-6		18-1/8"long
T1	113	JK					$20	Antenna Mobile 6M	Wilson			The Silver Load
T1	58	JK					$15	Antenna Mobile CB				Rust color 50-8/8"
T1	60	JK					$15	Antenna Mobile CB	Firestik			61-1/2" long
T1	100	JK			$30		$15	Antenna Mobile HF 17M		17M		New
T1	131	JK			$45		$25	Antenna Mobile HF 60M	Hustler	RM-60		
T1	248						$25	Antenna Mobile VHF 144	Diamond	DP-LC22L		Foldover, SO239 bas
T1	366	BM			$50		$35	Antenna mobile VHF/UHF	Diamond	NR770HAB		
T1	367	BM			$17		$10	Antenna mobile VHF/UHF	Nagoya	NL-770R		
T1	368	BM					$15	Antenna mobile, 2m		Gutter clip		10ft RG-58+PL-259
T1	140	JK			$39		$20	Antenna Resonator 40M	Hustler	40M		
T1	81	k			$75		$40	Antenna Top Hat Loop	Cameleon			
T1	142	JK					$25	Antenna UHF 440	Cushcraft			Loaned to KQ4TDL
PL	260	PL					$15	Antenna, 2m magmount				At 2.0 on 70cm
2	226	k					$50	Antenna, Dipole, 20/40M QRP				Dipole in blue bag
5	257	k					$15	Antenna, dipole, 40M				CW 7.04MHz
T1	114	AS			$128	$99	$50	Antenna, VHF/UHF	Larsen	NMO-2/70B		
1	14	F			$150	$80	$75	Artificial Ground	MFJ	MFJ-931		
4	369	BM			$21		$15	Attenuater 20dB w/4 ft coax				BNC to N
1	212	F				$115	$75	Attenuator	Weinschel Engineering	35-20	AE8367	20dB/25W/5kw peel
5	8	k					$3 ea	Audio jacks				
PL	346	PL			$40	$39	$35	Balum	LDG	RBA-4:1		New 200 watt
2	23	k			$29		$15	Battery Pack	Talent Cell	YB1203000-USB		
3	47	F					$5	BatteryCharger, Float	Chicago	41288		
L	370	BM					$50	Bench, work, steel 6ft, 6 drawerss, 1 shelf, unassembled				
6	371	BM			$20		$15	Bolts, Hex head 3/8x3/4 steel zinc plated w/Nuts				75 sets new
BS	301	BS					$5	Bracket, Antenna, steel	Workman	TM-3		Mirror mount
BS	309	BS					$5	Bracket, Antenna, Swivel Adjustable				Heavy duty
BS	310	BS					$5	Bracket, Antenna, Swivel Adjustable				Heavy duty
BS	311	BS					$5	Bracket, Antenna, Swivel Adjustable				Heavy duty
BS	312	BS					$5	Bracket, Antenna, Swivel Adjustable				
BS	313	BS					$5	Bracket, Antenna, Swivel Adjustable				
3	32	F					$15	Bumper mount	Kenwood	VP-1		

2	235	k					$10	Cable	Elecraft	KI02		
2	234	k					$15	Cable FT8/FT4				For Elecraft K2 radi
3	256	k			$32		$20	Cable Set, 8 Guage, 6ft	Power Bright			Red/Black
4	372	BM					$2/ft	Cable, 10 conductor	Belden	9946	29 ft 6 in	22ga,shielded
6	373	BM					$1	Cable, 7mm	AE-Cel	Yellow jacket silicone performance-Red end		
6	374	BM					$1	Cable, 7mm	AE-Cel	Yellow jacket silicone performance-Black end		
6	375	BM					$2	Cable, audio, 6ft				5mm to 7mm plugs
6	376	BM				$15	$2	Cable, data RS-232	Dell	389G0728LAA21H		15 pin VGA male
6	378	BM					$1	Cable, phono				5ft w/2 RCA yellow
6	377	BM					$10	Cable, phono, military				2 CC-66 jacks
3	189	F					$5	Capacitor	Sprague	3500 MFD	Type DCM	510-087-7606
3	190	F					$5	Capacitor	Sprague	3500 MFD	Type DCM	539-2755-02
3	191	F					$5	Capacitor	Sprague	15000-100DC Powerlytic		86211 1901
3	192	F					$5	Capacitor	Sprague	15000-100DC Powerlytic		86211 1901
3	193	F					$5	Capacitor	Sprague	15000-100DC Powerlytic		86211 1901
3	194	F					$5	Capacitor	Sprague	15000-100DC Powerlytic		86211 1901
4	380	BM			$13.50ea		$5 ea	Capacitor, 450v 220uF	Michicom			15 ea
6	445	BM					$15	Capacitors and Transisitors				bag
BS	303	BS					$5	Charger, mobile	Kenwood	DC-4		
5	381	BM					$5	Coax				1 ft BNC-BNC
5	382	BM					$5	Coax				52” BNC-BNC
5	385	BM					$5	Coax				1 PL259
4	384	BM					$20	Coax LMR-240	Ecore Cable	EMR-240		44” w1 PL-259
4	450	BM					$15	Coax LMR-240	Ecore			23” 1 PL259+2 slott
4	451	BM					$10	Coax RG-58	Mil-C-17	12515		30” 2
6	385	BM					$5	Coax RG-58				4ft,1 PL-259
6	386	BM					$5	Coax RG-58/U	Tandy			8ft w/1 PL-259
4	389	BM			$1.23/ft		$75	Coax RG-58A/U	Belden	8259		New 78 ft
6	388	BM					$5	Coax RG-58A/U	Belden	8259		5.5ft, 1 SO-239
4	452	BM					$20	Coax RG-8X	Belden	9258		5’10” 2 PL-259s
2	48	F					$1	Coax seal				
6	392	BM			$6		$5	Coax Seal	Coax-Seal			60” x ½”
4	444	BM					$50	Coax Switch				3 position
6	275	DB				$34	$15	Code practice oscillator	Bud	CPO-128B		Codemaster
6	395	BM					$2 ea	Components, Capacitors and Transistors				
5	397						$2 ea	Connectors, BNC/N/UHF				Multiple
5	396						$1 ea	Connectors, miscellaneous				Multiple
PL	344	PL					$2 ea	Connectors, UHF,BNC,N				
6	52	F					$5	Cord, HDMI				
6	398	BM					$1	Cord, power 125v				Flat 3 wires, gray
2	259	k			$130		$50	Data Interface	Monoprice	MiniPro SC		
2	260	k					$20	Digital to Analog Converter	Monoprice			
2	134	k			$55		$15	Earbuds, wireless	Beben	X8		Bluetooth 5.0
BS	302	BS					$10	Earphone/Microphone	Alinco	EME-24		
2	30	k			$495		$300	Filter DSP	TimeWave	DSP-59+	46784	Works perfectly/ goo
3	59	F					$35	Filter, Intermod	Tucker	TF-144		Used-50w max

5	254						$15	Filter, Low pass	JW Miller	C-514T		2000 watt max
5	255						$15	Filter, Low pass	RL Drake			1000 watt max
BS	5	BS			$120	$90	$50	Filter, low pass	MFJ	MFJ-704		1.5KW in box
BS	110	BS			$130		$50	Filter, low pass	AEA	LPF-30		30MHz 1500 watts
BS	307	BS					$15	Filter, low pass	Drake	TV-3300-LP		1000 Watt SSB
2	209	k			#####		$40	Filter,Laserbeam Digital CW	SOTA Beams			New
1	58	F				$150	$100	Generator, Sine Wave	Loftech	TS-1		
2	228	k					$5	Ground Adapter, Banana Jack	StaticTek	X001G5VJAJ		Banana jack
4	448	BM			$40	$13	$15	Ground Strap				1/2”x10ft
BS	6	BS			no longer mfg		$15	Headphone	Compuc Cessory	CCS59224		Noise cancelling w/s
2	37	k			$40		$20	Headset	Sennheiser	HD 202		
2	252						$5	Headset	Archer			8Ω
2	440	BM					$15	Headset	Panasonic			
4	441	BM			$380		$200	Headset	Heil	Pro7		
6	401	BM			$6		$5	Heat Sink Compound	Tech Spray	1703-2X		2oz tube
6	402	BM			$8		$5	Hemastat				
PL	323	PL				$275	$250	Key	Vibroplex		56555	
PL	324	PL				$150	$50	Key	Bencher	BY-2		Chrome
2	38	k					$150	Key, Bencher				
PL	345	PL					$15	Key, manual				
5	262	DS			$80		$45	Keyer, Delux Electronic	MFJ	MFJ-407C		
BS	9	BS					$25	Keyer, Deluxe	MFJ	MFJ-8043		
2	45	k					$45	Keyer, Memory	Unified Microsystems			
5	263	DS				$50	$50	Keyer, Memory	MFJ	MFJ-482		Grandmaster
1	215	C					$25	Meter, FM Modulation	ECM Corp	ECM-5B		
1	214	F				$80	$60	Meter, Grid Dip	Heathkit	GD-18		
2	232	k			$80		$50	Microphone	Elecraft	MH3		w/ mini stereo plug
2	24	k					$15	Microphone, mini				Mini plug, no switch
4	404	BM			$25		$15	Motor Control	Conrac	393A-A	(5 sec)	black case
4	405	BM					$15	Motor Control		CDB31-1000	(60sec)	yellow case
4	406	BM					$15	Mount, Mobile Radio			33” for seat bolt installation	
6	274	DB				$80	$85	Multimeter	Simpson	360 Series 5		w/ test leads, no Z ba
2	233	k					$10	Paddle Key				
2	157	k			$30		$15	Paddle Switch	Whitebrook	MK-43		
BS	304	BS					$5	Plug, 20A 1250V	Hubbell	L5-20		
BS	305	BS					$5	Plug, 20A 1250V	Hubbell	L520P		
BS	306	BS					$15	Plug, 20A 250V	lHubbell	HBL2321		
7	407	BM					$1	Power cord	Sony			
7	408	BM			$9		$1	Power cord 12v	LG	LGVPC4500		Cigaret connector
7	409	BM					$1	Power cord 12v	Verizon	MICUSBVPC		USB mini
7	410	BM					$1	Power cord 6ft	Foxconn	FF-01W		10A 125v
7	411	BM					$1	Power cord 6ft	Longwell			10A 125v
7	412	BM					$1	Power cord w/ 41-5791 connector		1A125v		6ft
7	413	BM					$5	Power cord w/12 pin connector and fuse holder				6ft
7	414	BM					$5	Power cord w/12 pin connector and fuse holder				6ft
7	415	BM					$5	Power cord w/12 pin connector and fuse holder				6ft

7	416	BM					$1	Power cord w/2 pin connector		12v		6ft
7	417	BM					$1	Power cord, 125v 7A	Kawaski	KS-5E		
PL	328	PL			$50		$30	Power Strip-6 outlet	Archer	61-2780A		metal
4	420	BM			$403	$229	$250	Power Supply	Astron	RS-50A		s/n 2012060021
6	118	JP					$15	Power Supply	Vista	III-R		3A
6	121	AS				$12	$10	Power Supply	Icom	BC-25U		120v – 12v 1.25a
6	199	F					$5	Power Supply	KMCC	SP-5Z		4.5A
PL	330	PL			$170		$125	Power Supply	MFJ	MFJ-4225MV	L80000 16271	field
6	270						$1	Power Supply wallwart				
7	421	BM					$1	Power Supply wallwart	Dell	PA-1650-05D		
7	422	BM					$1	Power Supply wallwart	Group West	57A-15-1800CT		15vac 1800mA
7	423	BM					$1	Power Supply wallwart	Mitsubishi	FZA-0008A		5.8VDC 550mA
7	424	BM					$1	Power Supply wallwart	Atari	C016353		9VDC 500mA
7	425	BM					$1	Power Supply wallwart	Microlife	DSA-0051-05FUS		6V 0.6A
7	426	BM					$1	Power Supply wallwart	Motorola	FMP5185B		5.0V 550mA
7	427	BM					$1	Power Supply wallwart	LG	TA-P02WR		5V 1A
7	270	DS					$1	Power Supply wallwart	Qualcomm	TAACA0001		12V 300mA
6	122	AS				$16	$10	Power Supply, wall wart	Westell	085-200010		120v – 12v 1.25a
3	17	EK					$1	Power supply, wallwart		KY-12V61		
4	442	BM					$25	Radio Interface	MFJ	MFJ-5124		
4	428	BM				$30	$25	Scanner	Radio Shack	Pro-2026		
PL	321	PL					$10	Solder Sucker, large				
PL	320	PL					$4	Solder Sucker, small				
1	216	F			$95		$25	Soldering Tool	Portasol	P-1K		Gas operated
5	265	DS				$25	$20	Sound Card	West Mtn Radio	RigBlaster		RS-232 input/RJ-45
6	201	F					$5	Speaker 5-1/4”	Magnadyne	S640		12” magnet
2	229	EK					$5	Speaker, round, desktop				W/cord and jack
T2	29	k			$69		$50	Strut, Channel, slotted	McMaster-Carr	3230T26 aluminum		New, 2pcs, 4 ft long
3	95	C					$1	Switch, foot, metal				
4	443	BM					$20	Switch, foot, plastic	CNTD	CFS-01		
3	167	EK					$10	SWR Meter	Micranta	21-525A		
3	167						$10	SWR Meter	Micranta	21-525A		
BS	128	BS					$15	SWR Meter	Continental Elect	CM-52		
PL	332	PL				$30	$30	SWR/Wattmeter	Heathkit	HM-15		
PL	333	PL			$180	$180	$150	SWR/Wattmeter	MFJ	MFJ-874		1.8-525MHz
1	218	F					$5	Tool, Telephone Punch Down		714_E2		For 66B blocks
PL	334	PL				$888	$800	Transceiver HF/VHF/UHF	Kenwood	TS-2000	7.1E+07	
PL	335	PL				$810	$800	Transceiver HF/VHF/UHF	Yaesu	FT-857	5J010255	
PL	336	PL				$210	$100	Transceiver VHF	Alinco	DR-135 Mk II	w/ speaker Radio Shack 21-54	
PL	338	PL				$300	$300	Transceiver VHF/UHF	Icom	ID-880H	502434	D-Star
2	175	EK					$10	Transceiver, CB	JC Penney			23 channel
PL	341	PL				$250	$125	Transceiver, handheld	Kenwood	TH-F6A	3.1E+07	No charger
PL	342	PL				$250	$75	Transceiver, handheld	Kenwood	TH-F6A	6.1E+07	No charger, pixels m
5	271	DS					$15	Transceiver, handheld 220	Kenwood	TH-31A		Ext power only
2	65	k			$250		$150	Transceiver, HF,QRP,CW	MFJ	MFJ-9200		6 bands DVB-T+DA
2	173	EK					$5	Transceiver, VHF	Regency	123A		34/94 crystals

4	431	BM				$165	$120	Transceiver, VHF	Yaesu	FTM-3200DR	6G081819	65/30/5 watt
3	26	w				$27	$15	Transistor Checker	Heathkit	IT-27	_02541	
2	231	k			$25		$20	Tripod Adapter	Elecraft	AXT1		
PL	339	PL			$220		$200	Tuner	LDG	Z-11 Pro		in ammo box
PL	340	PL					$175	Tuner	LDG	Z-11 Pro		
1	18	EK				$155	$125	Tuner, HF	Kenwood	AT-200		
4	434	BM				$200	$200	Tuner, HF	MFJ	MFJ-993B		w/12VDC power co
L	435	BM			$450		$300	Wire, #6 stranded, coated	copper	E66625	32.5# THHN	360 ft on spool
L	436	BM			$187		$125	Wire, #6 stranded, coated	copper	E66625	16.9# THHN	150 ft on spool
5	437	BM					$10	Wire, 1 Pair + Shield	Prestolite	Mil-C-27072/1965		17ft 6in
6	438	BM					$5	Wire, 3 conductor	Romex	Simpull		10ft
1	222	F					$15	Wire, telephone Station	RadioShack	278-385		45 feet 24ga/4 wire/t
3	239	C					$10	Wire,spool, 24 ga	Belden	8052 1/2lb		SGL Beldsol
3	240	C					$10	Wire,spool, 26 ga	Belden	8053 1/2lb		SGL Beldsol
3	241	C					$10	Wire,spool, 26 ga				Small
3	243	C					$10	Wire,spool, 28 ga	Hydrometals			
3	244	C					$10	Wire,spool, 30 ga				Small
3	245	C					$10	Wire,spool, 32 ga	Belden	8056 1/2lb		SGL Beldsol
3	246	C					$10	Wire,spool, 32 ga	Hydrometals			