

SPARKS

P.O. Box 342768 * Memphis, Tennessee 38134-2768 * Volume 46 * November 2019



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}

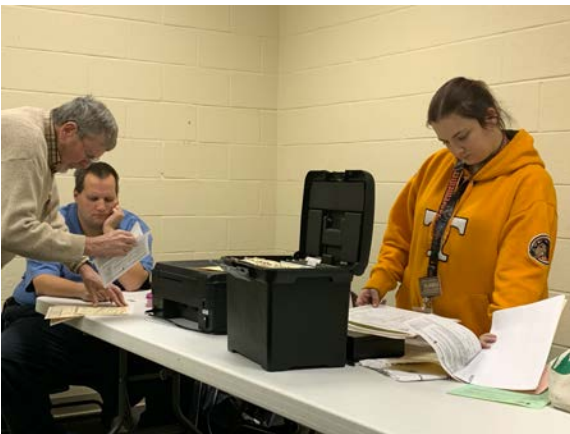
224.420^{-107.2}

144.390 Digipeater *Fusion

This month's meeting begins at 7 pm on November 12, 2019, at Ellendale Church of Christ, 7365 Highway 70 Memphis, TN (1 ½ miles north of Highway 64 (Stage Road)).

Program: **Prize drawings!**

Delta Club FCC testing sessions are held monthly except December. Registration begins at 5:30 PM; testing begins by 6:00 PM. Please bring a photo ID and another form of



identification, copies of existing licenses or CSCEs, and your FCC Registration Number (FRN) if one has been issued. Please be on time for registration to allow our Volunteer Examiner (VE) team to complete their work prior to the club meeting. The 2019 test fee is \$15 (cash or check). Individuals receiving their initial FCC license grant at a Delta Club test session or through a Delta Club training class will receive a complimentary individual club membership for the remainder of the current calendar year when they also show proof of ARRL membership. For more information, please email

our VE Liaison, Jeff Krause, AJ4GY at AJ4GY@comcast.net or call at 901-301-6776.

NOTE: Jeff is looking for a VE Liaison replacement. If you are interested, please contact Steve @ sfrazier1@bellsouth.net or 901-218-6385

New and upgraded hams from the 10/8/19 VE test:

Tonia Cardoza W4NET – general, Norman Cathey KN4YFQ – general, James Ham KN4ZES – tech, Donald Cannon KB5OCB – general, Brian Cathey KK4EFO – general, Joseph Tamboli KG4CZH – general, Peter Gee KN4ZET – tech, Andrew Ditto KN4ZEU – tech, Robert Cooper KN4ZEV – tech, Nelaine Cooper KN4ZEW – tech.

President's Corner

Submitted by Steve Frazier, KK4VPT

As you may know by now, our 146.82 repeater has been having some problems. This repeater is what most of us think of as our primary repeater due to its coverage. The coverage is due to the repeater antenna location at approximately the 500 ft. level of the 1200 ft. WATN TV tower. This advantage has become a disadvantage when it comes to maintenance. Our trustee Barry McDonald W5CJ with the help of several other members have done all they can this year to maintain and update the repeater. As reported recently, Barry had a crew scheduled to replace the antenna and do other maintenance on the tower. The crew did not do the work on our antenna as planned. Barry was already working on other options when we had heavy rain and other weather cause problems that cannot be fixed until we are able to get a crew up the tower. We are working on this and will keep you updated. In the meantime, this is why we have other repeaters available in the area.

During the November meeting, we will have our election for the 2020 Board of Directors. After the election, we will have our annual drawing for door prizes. To allow time for this, there will not be a presentation during the November meeting. We will have cards at each table so that you can submit suggestions for presentations you would like during 2020. While your input is always welcome, this will give the Board input we will use to plan 2020.

The November meeting is also the day after Veterans Day. With the large number of veterans we have as members of Delta Club, I look forward to the opportunity each November to recognize and thank our veterans for your service.

Don't forget to check into the net that we have every night at 8pm, While the 146.82 repeater is down, we will be using the 146.625 repeater which requires 107.2 PL tone. The only night we don't have the net is the 2nd Tuesday of the month and that is when we look forward to seeing you at the monthly meeting.

73

Steve Frazier
KK4VPT

Treasurer's Report
Submitted by David Jackson KM4SEC

Please RENEW your Delta membership right away, so you won't forget about it! Download the new member or renewal form: <http://deltaclub.org/documents/application-15-3.pdf> Membership for one is \$20 or family is \$25. You can fill out the form online and email to David Jackson KM4SEC. davidjackson@bellsouth.net

If you prefer you can print the form and bring the completed form, along with the membership fee to any meeting.

Checking Account 10/31/2019

09/01/2019, Beginning balance: \$13,353.05

Deposits: (1)

10/11/2019:

Redeposit \$500.00

Membership: \$100.00

Equip. club sale: \$210.00

Total: \$810.00

Balance: \$14,163.05

Checks: (6)

Club door prize: (\$57.94)

Club door prize: (397.00)

Club food: (\$44.10)

Printing: (\$24.99)

SERA m'ship (\$35.00)

Stamps (\$11.00)

Total: (\$570.03)

Balance: \$13,593.02

Petty cash: \$50.00

CD-0028: interest rate: 1.590%. Maturity date: 10/19/2022. Balance: \$10,447.03

CD-8041: interest rate: 2.230%. Maturity date: 01/14/2020. Balance: \$10,905.83

DARC Board of Directors Meeting Minutes
Submitted by Mary Jean Hall KN4FBL

November 5, 2019, submitted by Mary Jean Hall KN4FBL

Attendees: Steve Frazier KK4VPT, Bob Van Keuren KM4SEB, Mary Jean Hall KN4FBL, David Jackson KM4SEC, Joe Lowenthal WA4OVO, Bob Vawter KW4RJ, Ian Lucas KN4OEK, Scott Adams KM4PMU, Barry McDonald W5CJ, Len Grice W4MKS and one guest.

Absent: N/A

Steve F. called the meeting to order at 6:31 p.m. at the Ellendale Church of Christ.

Barry M. updated the board on the progress of replacing the antenna and troubleshooting issues with the 146.820 repeater. He is working on our options to replace the antenna. In the meantime, he plans to change the 146.625 repeater in Germantown over to 146.820, since that is the most widely used repeater frequency in our area. He will let Bob Vawter KW4RJ know when he gets it switched over so Bob can send an email out to the Delta Club members.

Joe L. announced the dates for an upcoming General Class: November 7 – December 19, except Thanksgiving Day on November 28. So far there are ten students who have signed up for the class. He is working on planning an Extra Class to start in January or February. The board then discussed possible options to expand training to other organizations and universities to help additional people get their amateur radio licenses.

Scott A. asked if anyone had recommendations for snacks at the meetings. He also asked for feedback about the two hams that Delta Club provides for the December potluck. Steve F. said that the board elections are next week, and we will also have the yearly drawings. Ian said that the November program was covered, as well as the December program with the potluck. He is gathering ideas for other programs.

Mary Jean H. updated the board on the status of the final tasks for the W4M event. Everything has been mailed except a few certificates with incomplete mailing information. She has updated the Life Membership card to the current template. So, if any Life Members need a replacement card, let her know! The board discussed a few member suggestions about ways to reach out into the community.

The board discussed the annual donation to the Ellendale Church of Christ for use of the church facilities. The board unanimously approved to donate \$300 in December to express Delta Club's

continued appreciation. The board discussed the 2020 awards to be issued at the December club meeting: Ham of the Year and New Ham of the Year.

The board discussed the review of memberships per the club's bylaws.

David J. read the Treasurer's Report and said that he is working on the 2020 proposed budget, though he doesn't expect it to change much from this year. The board discussed the certificate of deposit that is maturing in January. Given the recent 146.820 repeater issues, the board decided to reassess at the December meeting whether or not to immediately roll the C.D. over. The board unanimously approved the Treasurer's Report.

Bob V. said he is in the process of switching over our club website server to GoDaddy, since that must be completed by the end of December.

Barry M. made a motion to adjourn. Without objection, Steve F. adjourned the meeting at 7:40 p.m. The next Board of Directors meeting is scheduled for Tuesday, December 3, 2019 at 6:30 p.m. at Ellendale Church of Christ.

Minutes of Last Month's Club Meeting

Submitted by Mary Jean Hall KN4FBL

DARC Meeting Minutes for October 8, 2019

Call to Order and Opening Remarks

Club President Steve Frazier KK4VPT called the meeting to order at 7:01 p.m. at the Ellendale Church of Christ and welcomed everyone to the meeting. Everyone then introduced themselves by name and call sign. 44 members and three guests were present for the meeting.

Secretary's and Treasurer's Reports

Ham Hilliard W4GMM moved to approve the previous meeting's minutes and the Treasurer's Report as published in Sparks. Barry McDonald W5CJ seconded the motion. The minutes and the Treasurer's Report were unanimously approved by the club.

HAM 101

Ham Hilliard W4GMM said that November's discussion will cover band plans, as well as why CW is separate. Ham 101 will not meet in December due to the potluck. Ideas for Ham 101 can be emailed to him at W4GMM@bellsouth.net. Ham 101 is at 5:30 p.m. before the Delta Amateur Radio Club meeting upstairs in the Ellendale Church of Christ Fellowship Hall.

Bluff City Blues Bike Ride

Ken Laseter KI4AOH thanked everyone who volunteered for the Bluff City Blues 100-mile bike ride on October 5, 2019. It is expected to be the largest community service event that Delta Club will support this year. About 540 riders participated, and there were 14 communications volunteers. Thankfully, there was no need for an ambulance this year. The upcoming Bluff City Blues ride will be on October 3, 2020, so mark your calendars for next year!

VE Testing

Bill Stevens WC9S announced that ten individuals tested tonight, with five passing the General exam and five passing the Technician exam.

Announcements

Barry McDonald W5CJ said that a new antenna has been purchased for the 146.820 repeater. It is ready to be installed with the first available opportunity. Steve Frazier KK4VPT said that there are odds and ends pieces from consignment sales available for purchase tonight. He encouraged everyone to find something and "make an offer!"

YL News

Linda Laseter KJ4CTX said that the upcoming YL Luncheon will be 11:30 a.m. Saturday, October 26 at the Ellendale Church of Christ. Some of the YLs will make soup and chili, so donations are appreciated.

Announcements

Mary Jean Hall KN4FBL let everyone know that Delta Club members who participated in the W4M event have certificates to pick up at the front. Anyone who didn't pick up the certificate tonight will likely have it mailed to them.

Steve Frazier KK4VPT reminded everyone that the Delta Amateur Radio Club Board of Directors elections were set to be held at the November meeting. The current board members have said that they would be willing to serve another year. However, Steve F. encouraged anyone who may be interested in serving next year to let a current board member know!

Here are the current nominees for the 2020 year:

President – Steve Frazier KK4VPT

Vice President – Bob Van Keuren KM4SEB

Secretary – Mary Jean Hall KN4FBL

Treasurer – David Jackson KM4SEC

Director of Training – Joe Lowenthal WA4OVO

Director of Publications – Bob Vawter KW4RJ

Director of Programs – Ian Lucas KN4OEK

Director of Meetings and Special Events – Scott Adams KM4PMU

Break/Presentation

Steve Frazier KK4VPT called for a break from 7:26 p.m. to 8:01 p.m. so everyone could shop the consignment items.

Closing Remarks

With no objection, Steve Frazier KK4VPT adjourned the meeting at 8:01 p.m. The next Delta Amateur Radio Club meeting will be Tuesday, November 12, 2019 at 7 p.m. at the Ellendale Church of Christ.

Delta Ham License Training, 2019

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.

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 2019 from Delta Classes

38 Technician

10 General

6 Extra

Note:

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

The current ARRL General Class License Manual is the Eighth Edition with question pool that became effective July 1, 2015 for four years.

The current ARRL Extra Class License Manual is the Eleventh Edition with question pool that became effective July 1, 2016 for four years.

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

If you know anyone interested in a class, send an email to wa4ovo@gmail.com with the Subject Line for the class they want and name, email address and cellphone number in the text. If a ham, add callsign to the text.

PROPOSED CLASSES

A Technician license class will probably start in late February 2020.

All classes will be six sessions; one per week.

SCHEDULED CLASSES

Extra Class 1-20 – January 4 – February 15, 2020

Extra Class 1-20 will be held on six Saturdays from January 4th thru February 15th except January 25th (Jackson MS Hamfest) from 9:00am to 1:00pm. The classes will meet on January 4,11, 18, February 1,8, and 15. We need at least six students registered for the class by December 20th to have the class. The location will be at the Germantown Police Department training room, 1930 South Germantown Road.

CLASSES IN PROGRESS

General Class 4-19 – November 7 – December 19, 2019

General Class 4-19 is being held on six Thursday nights from November 7th thru December 19th from 6:15-9:30pm at the Germantown Police Department training room, 1930 South



Germantown Road... There are 10 students in the class.

Perry Hayes N4GJ presenting Digital Modes at General Class 4-19

Photo by Joe Lowenthal WA4OVO

The instructors are Joe Lowenthal WA4OVO, Perry Hayes N4GJ, Len Grice W4MKS, Barry McDonald W5CJ, John Reiners KN4BVH, and Pat Lane W4OQG. The Delta Club VE Team will provide the exam session on December 19th.

COMPLETED CLASS

Tech Review for CBU - October 30, 2019

A Tech Review class was held on October 30th for eight Christian Brothers University students in the Engineering Department upper division elective course, Unmanned Aerial Systems Design. Dr. Eric Welch WD5FTA requires the students to earn their FCC Technician and General Class licenses for this course. There are 11 students in the class with three who had earned their Tech license last February in the Intro class.

All eight students earned their Technician license and five upgraded to General. Congratulations to Mat Donnelly KN4ZNI, John Clark KN4ZNJ, Nicholas Ireland KN4ZNK, Jonathan Looney KI5GZS, Pablo Marin KN4ZNM and Zhaoliang Ni KN4ZNN who earned their Technician licenses. Congratulations to Riggs Markham KN4ZNL and Zach Yancy KN4ZNO who earned Tech and also upgraded to General. Congratulations to Josue Becerra KN4SQK, Ian Dover KN4SQQ and Bryce Whitfield KI5DLE who upgraded to General.

Dr. Welch WD5FTA is the Department Chair of Electrical and Computer Engineering. The Laurel VE Team of Dr. Welch WD5FTA, Joe Lowenthal WA4OVO, Bill Stevens WC9S, Barry McDonald W5CJ and Perry Hayes N4GJ administered the FCC test session.

Tech Class 3-19 – July 8 - August 12, 2019

Tech Class 3-19 was held on six Monday nights from July 8th thru August 12th from 6:15-9:30pm

The location was at the Germantown Police Department training room, 1930 South Germantown Road. Eleven students originally registered for the class, two more became students, and two resigned. So, eleven students completed the class. There was one ham who audited the class.



Entrance at Germantown Police Department for Tech Class 3-19
Photo by Joe Lowenthal WA4OVO

Congratulations to Rodney Adams KN4WGV, Daniel Brieck KN4WGW, Robert Broom KN4WGX, David Cary KN4WGY, Jim Dollar KN4WGZ, Joshua Foster KN4WHA, Vicky Gamber KN4WHB, Lauren Martin KN4WHC, Matthew Massey KI5FYA, Jonathan Pesce KN4WHD, and Shawn Thomas KN4WKF who earned their Technician licenses.

Congratulations also to Robert Broom and David Cary who also earned their General licenses, as well as, Mary Jean Hall KN4FBL who upgraded to General. Six more of the students tried for General but did not pass.

The instructors were Joe WA4OVO, Paul KA9VAU, Pat W4OQG, John KN4BVH, Perry N4GJ, and Len W4MKS. Barry W5CJ presented Echolink and Allstar information. John KN4BVH demoed DMR with information on D-Star and Fusion. On Monday, August 12th there was equipment demonstrations. Joe WA4OVO and John KN4BVH provided repeater basics and a CHIRP demo. The students checked into the Delta Net. Rick WA4NVM and Richard K4DXF made a live SO-50 satellite contact while Rick KJ4NWQ informed on APRS. Pat W4OQG showed off the non-FM side of ham radio with his Kenwood TS-2000 HF SSB setup with a long wire and talked about MARS.



Tech Class 3-19

Photo by Joe Lowenthal WA4OVO

The Laurel VE team of Joe WA4OVO, Bill WC9S, Jelly N4HLT, David W4DWW, Karen AG4CC, Barry W5CJ, Len W4MKS and Perry N4GJ administered the 20 exams.

Tech Class 2-19 – February 21-March 28, 2019

Tech Class 2-19 was held on six Thursday nights from February 21 thru March 28th. The location was the Germantown Police Department training room, 1930 South Germantown Road. Sixteen students signed up for the class with thirteen attending the first class and a self-study Tech auditing the class. Eight students earned their ham radio licenses.

Congratulations to Chuck Chow KN4TMR, Al Dyer KN4TMQ, Brian Hagood KN4TME, Andrew Humphreys KN4TMG, Thomas Humphreys KN4TMF, Bryan Parker KN4TMH, Mark Parrish KN4TMO, and Bob Stroud KI5DWP who earned their Technician licenses. Chuck also earned his General Class license. Since the class Chuck has upgraded to Extra as KX4RE. Congratulations to Tom Thibeault KN4SLP who audited the class and upgraded to General. Two others will test at a later date.

Thanks to the Laurel VEC team of Bill WC9S, Barry W5CJ, David KV4QI, Len W4MKS and Joe WA4OVO for providing the FCC test session.

Demonstrations were given on March 28th. John KN4BVH previewed DMR, Fusion, and Echolink. Joe WA4OVO instructed on programming FM radios and APRS while Pat W4OQG showed off HF and long wire antenna. Rick WA4NVM and Richard K4DXF made a satellite contact.

Tech Review for CBU February 20, 2019

A Tech Review class was held on February 20th for 11 Christian Brothers University students in the second Engineering Department upper division elective course, Introduction to Unmanned Aerial Systems. All 11 students earned their Technician license. The students were either Electrical, Mechanical or Computer Engineering majors. Dr. Eric Welch WD5FTA is the professor. He is Department Chair of Electrical and Computer Engineering. The Laurel VE Team of Dr. Welch WD5FTA, Joe Lowenthal WA4OVO, Bill Stevens WC9S, Barry McDonald W5CJ and Len Grice W4MKS administered the FCC test session

Extra Class 1-19 January 5 – February 16, 2019

Extra Class 1-19 began on January 5th through February 16th excluding January 26th (Jackson MS Hamfest) on six Saturdays from 9am-1pm at the Memphis Police Department Northeast Precinct, Appling Farms Station, at 6850 Appling Farms Parkway. Nine students began with seven completing the class.

Congratulations to Steve Evans KM4VYA, Carolyn Horne KX4QF, Jerry Kirkscey KX4QE, Robert Murry KN4OEF, and Bob Waters KN4PDW for earning their Extra Class license at the class ARRL FCC test session. Congratulations to Jim Martin KD4FUU who upgraded at the Delta Club test session on April 9th. The Delta Club VE Team of Jeff Krause AJ4GY, Joe Lowenthal WA4OVO, Barry McDonald W5CJ, Bill Stevens WC9S, and David Webb KV4QI provided the FCC test session on February 16th.

Extra Class 1-19 from l to r: Jerry KX4QE, lead instructor Joe WA4OVO, Carolyn KX4QF, Scott KM4PMU, Robert KN4OEF, and Bob KN4PDW

Photo by David Webb KV4QI

General Class 4-18 November 1 – December 13, 2018

General Class 4-18 was held from 6:15-9:30 on six Thursday nights from November 1st to December 13th excluding November 22nd at EMHC Ambulance Company training room, 6972

Appling Farms Parkway. Fourteen students began the class. Ten students finished the class with six upgrading to General Class.

Congratulations to Steve Beale KM4AEO, Carrie Blackwell KN4LCU, Bill Johnsen KM4VXW, Jim Martin KD4FUU, Robert Murry KN4OEF, and Bob Waters KN4PDW. I'm sure the other four will get their upgrade soon. Also testing during the class test session, congratulations to William Womble KI4CRC for earning his Technician license and Rick Armstrong KN4IKP and Carolyn Horne KN4QNV for upgrading to General.

The instructors were Joe Lowenthal WA4OVO, Pat Lane W4OQG, Len Grice W4MKS, Barry McDonald W5CJ, Perry Hayes N4PSH and John Reiners KN4BVH. The Delta Club VE team led by Jeff Krause AJ4GY provided the FCC testing session at 7pm on December 13th. Thanks also to Ham W4GMM, Stacy Krause KJ4MDA, Joe Lowenthal WA4OVO, Barry McDonald W5CJ, Bill Stevens WC9S and Tom Ungren KK4ZZZ

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.
9. Print your License.

USE OF CELLPHONE WHILE DRIVING

As of July 1st, it is against the law to hold a cellphone while driving. However, amateur (ham) radio is exempted per the below paragraph 1(a)3 of State of Tennessee House Bill 164. It might be wise to carry a copy of this document and a copy of your amateur radio license in case you get stopped by police and they are not aware of the exemption.

"Wireless telecommunications device" means a cellular telephone, a portable telephone, a text-messaging device, a personal digital assistant, a stand-alone computer, a global positioning system receiver, or substantially similar portable wireless device that is used to initiate or receive communication, information, or data. "Wireless telecommunications device" **does not include** a radio, citizens band radio, citizens band radio hybrid, commercial two-way radio communication device or its functional equivalent, subscription-based emergency communication device, prescribed medical device, **amateur or ham radio device**, or in-vehicle security, navigation, autonomous technology or remote diagnostics system.

<https://www.handsfreetn.com/files/pc0412.pdf?fbclid=IwAR3vZvmm5nPLyCeZg1gqUkgL0EaltPBt3sX9XSUpYpyFARjnYNuRu3fNbtU>

Here are the two weather service websites I spoke of in the ARES meeting.

preview.weather.gov/edd

<https://www.arcgis.com/apps/MapSeries/index.html?appid=5dfbf1be13b74f1097a93cd954a3c4f8>

Joe WA4OVO

Silent Key

Albert Russell Snyder, APRIL 17, 1933 – OCTOBER 10, 2019

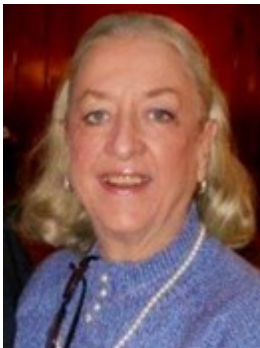


Al Snyder was at one time a member of the Delta Club. He moved to Texas to live near his daughters due to health issues.

His Funeral was Saturday October 19 2019 at 10:00 am.

Al was KI4PGK

Nancy Hale Vickers



Life member of Delta Amateur Radio Club

Nancy Hale Vickers, 71, of Collierville, Tennessee, passed away on Tuesday, October 1st, 2019. Mrs. Vickers is survived by her husband Tom Vickers N4TV, also a life member of DARC.

HQ 101

Submitted by Ham Hilliard W4GMM

HQ 101 is for new hams, old hams, and hams that want to know more about their hobby. This class is for you and I need to know what you want to learn about, so if you have a subject you are curious about let me know and if there is enough interest I will offer it one month. Email me at w4gmm@bellsouth.net.

November topic will be allocations **Discussion of the Band plan and Frequency**

Ham 101 meetings are upstairs above the Delta club meeting hall beginning at 5:30 pm just before the Delta club meeting.

YL News

November 2019 – submitted by Linda KJ4CTX

YL NET –

Please join us each Saturday night at 8:45 p.m. on the 146.820 repeater for the YL Net. We enjoy hearing from you.

YL LUNCHEON – The weather was a little unpredictable when we met on October 26th but several of us brave souls made it to the Ellendale Church with no problems. We had a very nice luncheon. The food was good, and Betsy made the cutest fruit pumpkin eatable decoration for us to enjoy and eat.

Our speaker (Ms. Hailey Duffy) from the Carl Perkins Center for Abused Children did an excellent job of providing us with the history of the center and the work they do. We elected to sponsor at least one child from the center this year and possibly two. This will depend on the list we receive early in November of each child's needs. We are also looking at decorating and providing a Christmas Tree next year in the Center's Festival of Trees Christmas Event which is a big fund raiser for the center. These are both very worthwhile events and would love to see more of the YL's join in. Shopping and decorating is always fun!

Our last luncheon of the year is November 9, 2019. This is going to be a big day for us. We plan to meet at the Oakland Walmart at 9:00 a.m. on the 9th and carpool to Somerville to visit a craft show at the Somerville Methodist Church. Following the craft show we will tour the Carl

Perkins Center and then back to Oakland for lunch at Olympic Steak and Pizza. If you plan to join in the fun, please RSVP Linda KL4CTX at lindalaseter@gmail.com or call or text to 901 268-1766.

Mary Jean
these rainy
was cold



won a beautiful warm and cozy blanket. Will be great for wintery nights. I was wishing I had it yesterday when it and raining.

The YLs are sponsoring a child for Christmas this year as part of the Fayette County Carl Perkins Center Christmas sharing program. A donation jar will be passed around during the meeting, and everyone is encouraged to donate to help this child have a generous Christmas. The YLs plan to get together to shop for the wish list and needed items this month, so any donations will need to be submitted this week.

If you would like to help the YLs support this child, bring cash to the Delta Club meeting on Tuesday, November 12!

Amateur Hardware Update
Submitted by James Butler, KB4LJV

Many times when running batteries we want to monitor the voltage to see when they need to be recharged or replaced. On 12 volt batteries, radios may not work properly if the voltage is too low or we could damage the battery if we run it down too far before recharging. Ebay has listings for a 12 VDC battery voltage alarm we can use. This is a completed PC board ready to go. Hook up the two wires from your battery to the board and adjust the low voltage at which the alarm will turn on with the on board variable resistor. When the threshold voltage is reached the LED lights up and the buzzer sounds the alarm. The alarm works well and makes a nice addition to your portable station. The prices on Ebay can be under \$2.00 with free shipping. Do a search on Ebay with “12 volt alarm protection board “.

D.C. VOLT ALARM BOARD



Amateur Packet Update
Submitted by James Butler, KB4LJV

Many times when we make or repair cables for our equipment we need replacement connectors. Debc Electronics sells a complete variety of connectors. They sell ribbon cable connectors, DIN connectors, power plugs and jacks and banana plugs and jacks. They also have alligator clip wire jumpers. Debc has gender changers for DB9, DB15 and DB25 connectors. Coax stripping and crimping tools are also sold on the site. Debc has a selection of the standard Powerpole connectors used for equipment we deploy in an emergency. They have a selection of electronics hand tools you can get if needed. Check out Debc Electronics for your connector and electronics needs. Their web address is <https://www.debcoelectronics.com/>

Sparks Newsletter and Delta Club Information

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

Delta Amateur Radio Club *P.O. Box 342768 * Memphis, Tennessee 38184-2768
Please note that you must provide your name and call sign if you're requesting specific actions or personal follow-ups, and also be aware that any profane or mean-spirited comments will be unceremoniously discarded without consideration.

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

2019 Board of Directors

President

Steve Frazier, KK4VPT
sfrazier1@bellsouth.net
901-218-6385

Vice President

Bob Van Keuren KM4SEB
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Treasurer

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901-438-4563

Director of Programs

Ian Lucas KN4OEK
KN4OEK@gmail.com
901-828-6209

**Director of Meetings &
Special Events**

Scott Adams, KM4PMU
scottedadamsjr@hotmail.com
901-573-6280

Repeater Trustee

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

**Public Information
Officer**

Len Grice, W4MKS
W4MKS@arrl.net
901-522-6711

Immediate Past President

Ken Laseter, KI4AOH
KenLaseter@gmail.com
901-487-9103

ARES
Amateur Radio Emergency Service
Emergency Coordinator (EC) - John Reiners KN4BVH

If you are interested in joining Shelby County ARES, complete an application at www.tnares.com. Click (do not pull down) on INFORMATION on the top right of the page. Then, go to TN ARES Membership and Appointment Application Forms and then click on ARES Membership Application: FSD-98. Complete the form and click on Submit at the bottom. You should get an acknowledgement soon after submitting.

Public Service Events

If you are a coordinator for any of these events, please review the listed information. Please email corrections or additions to vawter.bob@gmail.com.

2019 Date	Event	Contact Information
Jan. 20	Swamp Stompers 50K/25K Run	Ken Laseter KI4AOH
May 12	MARS contacts	
June 22-23	Field Day @ Morgan Woods Park, G'town	
Sep 7-8	MS-150 Bike Ride	Darrell Sheffield KK4D
Oct 5	Bluff City Blues Bike Ride	Ken Laseter KI4AOH
2020 Date	Event	Contact Information
Jan. 20	Swamp Stompers 50K/25K Run	Ken Laseter KI4AOH
May 12	MARS contacts	
June 22-23	Field Day @ Morgan Woods Park, G'town	
Sep 7-8	MS-150 Bike Ride	Darrell Sheffield KK4D
Oct 5	Bluff City Blues Bike Ride	Ken Laseter KI4AOH

Hamfests in the Southeast Area

2019

January 25-26	Capitol City Hamfest in Jackson, MS
February 8-10	HamCation 2019 in Orlando, FL
February 16	LCARC's 2019 Winterfest in Hoxie, AR
March 1-2	BirmingHamfest 2019 in Birmingham, AL
March 9	MTARS Hamfest Tullahoma, TN
March 23	Ides of March Hamfest in Union City, TN
March 30-31	April Fool Hamfest in Corinth, MS
April 13	Memphis FreeFest in Bartlett, TN
May 17-19	Hamvention in Xenia, OH
July 27	Greater Nashville & Middle TN HamQuest in Lebanon, TN
August 17-18	Huntsville Hamfest in Huntsville, AL
October 18-19	Hamfest Chattanooga in Chattanooga, TN

2020

January 24-25	Capitol City Hamfest in Jackson, MS
February 7-9	HamCation 2019 in Orlando, FL
February 16	LCARC's 2020 Winterfest in Hoxie, AR
March 6 - 7	BirmingHamfest 2019 in Birmingham, AL
March 14	MTARS Hamfest Tullahoma, TN
March 28	Ides of March Hamfest in Union City, TN
March 28 - 29	April Fool Hamfest in Corinth, MS
April 11	Memphis FreeFest in Bartlett, TN
May 15 - 17	Hamvention in Xenia, OH
July 25	Greater Nashville & Middle TN HamQuest in Lebanon, TN
August 22 - 23	Huntsville Hamfest in Huntsville, AL
October 16 - 17	Hamfest Chattanooga in Chattanooga, TN

Tennessee Amateur Radio License Plate
Submitted by Joe Lowenthal, WA4OVO

• **As of October 2018 all you need to renew your ham tag is to provide a copy of your FCC license with a copy of your last year's registration or a renewal notice, if you received one, and your payment.**

The link below is for information and instructions about Tennessee ham radio call sign Emergency/Safety automobile license plates:

<https://www.tn.gov/revenue/title-and-registration/license-plates/available-license-plates/emergency-safety.html>

The application can be found at this link:

<https://www.tn.gov/content/dam/tn/revenue/documents/forms/titlereg/fl312601Fill-in.pdf>

The following link from the Tennessee Department of Revenue

<https://www.tn.gov/revenue/title-and-registration/license-plates/available-license-plates/emergency-safety.html> has the Amateur Radio auto tag information.

Memphis Area VHF/UHF Nets

Updated January, 2018

Name of Net	Freq. MHz	Offset/Tone	Local Time	Day of Week
Delta Club Information Net	146.820	- (107.2)	8:00p	Daily
YL Net	146.820	- (107.2)	8:45p	Sat
Mid-South Bullfrog Net	146.535	[simplex]	7:30p	Daily
Elmer Net	145.210	- (107.2)	9:00p	Sun
MedMERS Net	146.820	- (107.2)	12:00p	Wed
ARES Training Net	146.850	- (107.2)	9:00p	Thu
Sunday Super Niner Net	927.6125	- (146.2)	8:30p	Sun

TENNESSEE HF NETS

As of January 2019
All times are Central Time

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 (Center for United States Earthquake Consortium)	7.180		As needed

3980 kHz – Tennessee Phone Net

Mon-Fri - 5:40 AM, 6:45 AM & 6:30 PM

Saturday - 8:00 AM & 6:30 PM

Sunday - 8:00 AM only

Holidays - 8:00 AM only

Used equipment for sale

Please ONLY contact the person offering the equipment.

If you would like to advertise equipment you have for sale, please email Bob. My email address is vawter.bob@gmail.com.

Lel Nicholson

If you're interested please give me a call @ **901 4136096**.

Alinco vhf/uhf twin band Dr 735 (new in the box) \$260

Alinco EDS 30 (new in the box) \$45

2 speakers kit HSN4039 pictures 1 and 2 (new in the box) \$40

Kenwood THK20 (new in the box) \$115

Galaxy Blue light digital frequency counter (new in the box) \$40

Kenwood charger (new) \$25

Interested mainly in getting his 95' tower taken down; willing to pay someone

Also has some ham equipment for sale.

When you contact him be sure and tell him you are with Delta club.

Ray Parks

WB4ZHI

PARKS, RAYMOND M

2625 GALAXIE

MEMPHIS, TN 38134-4623

raymphs@bellsouth.net

DELTA CLUB ADVERTISEMENTS



MID-SOUTH AMATEUR RADIO SUPPLY (MSARS)

6631 Vallendar Cv., Bartlett, Tennessee 38135

tel: 901-371-9700 • fax: 901-266-3374 • web: www.msars.com

CURRENTLY STOCKING

Antennas	Antenna Mounts	Connectors	Coax & Cable
HT	Magnet	UHF	RG-213
Mobile	Trunk Lip	"N"	RG-8/U Mini
Base Station	Roof Mount	SMA	RG-58
HF	Window Mount	BNC	450 & 300 Ohm
Wire	Swivel Ball	RCA	Rotor Cable

LDG Electronics	Accessories	Miscellaneous
Automatic Antenna Tuners	RF Chokes	Gordon West Books
Remote Tuners	Power Poles	Coax Seal
Brand Specific Antenna Tuners	Antenna Switches	Fuse Holders
Baluns	SWR/Power Meters	Remote Tuner Boxes
Ununs	Mic Holders	Dog Bone Insulators

**Owners/
Operators**

**Steve
W5VAA**

**Rosalinda
WN2V**

**Ham
W4GMM**

Mid-South Amateur Radio Supply, (MSARS.COM) is owned and operated by local hams who are dedicated to promoting the hobby and providing help to anyone interested in ham radio. We actively support the local amateur radio clubs and are ARRL members.

MSARS offers free antenna building classes each year and help many new hams with guidance on their first radio, setting up a ham shack, programming a radio and much more. We are proud to be a part of the ham radio community and are *here to help you*.

DELTA AMATEUR RADIO CLUB

**P.O. Box 342768
Memphis, TN 38134-2768**

DARC Meeting: Second
Tuesday of every month
at Ellendale Church of Christ
7365 Hwy 70, Bartlett TN



W4BS REPEATER SYSTEM
146.82- 147.36+ (107.2Hz tone)
224.42- 443.20+ (107.2Hz tone)



Joe Miller
Owner

Chick-fil-A Paragon Place
6282 Poplar Avenue
At Poplar and Massey
Memphis, TN 38119
W - 901.766.1875
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Joe.Miller@cfafranchisee.com
chick-fil-a.com

*Advertisement forms can be downloaded
from our website –
<http://deltaclub.org/aboutUs.html>*