DATE: April 8, 2014 (2nd Tuesday of each month)

PLACE: Ellendale Church Of Christ, 7365 Highway 70
       Memphis, TN (1 ½ miles north of Hwy. 64 – Stage Road)

TIME: 7:00 PM

PROGRAM: "EchoLink®"
          Presented by: Michael Knight  KK4IOH

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

Bill Stevens, WC9S, VE Liaison
Phone: 901-603-3448
Email: wc9s@att.net

Congratulations to Patrick Yarbro KK4YGS, John Carpenter KG5AGY, Harold Perry KK4YGT, and Randy King KK4YGU for earning their Technician license; to Jan Spoerre KK4VQA and Doug Spoerre KK4VQB for upgrading to General; and to William Forrester KV4VG (formerly KK4WNP) for upgrading to Extra at the February 11th Delta Club test session. Congratulations to Barri Munday WB4SWP for upgrading to General at the March 10th test session.
Well, here it is the first of April. Can you believe the first quarter of the year has come and gone? We received a letter from St. Jude Children’s Hospital thanking us for our communication volunteers, even though the race was cancelled.

We have some great things to look forward to starting this month with the Memphis FreeFest April the 12th and the March for Babies at Shelby Farms on the 26th. I hope everyone has bought some tickets for FreeFest. Remember, all proceeds go to LeBonheur Children’s Hospital. This is just one more way the hams can reach out to the community. Let’s also not forget that the Dayton Hamvention is just around the corner in May. For those of you that have never been, it is a fantastic event that every ham should experience, at least once. It is also not too early to start saving your change for the Huntsville Hamfest in August. Joe WA4OVO has already started checking into getting the bus for that trip. I know it is April, but you didn’t think these things just magically happen over night, did you?

I want to thank all 70 plus people at last month’s meeting. We had a fantastic program given by Glen Popiel KW5GP. He gave us some breaking news on his new book due for release by the ARRL at the Dayton Hamvention. I am looking forward to that and to hear him again at Dayton. You see, if you had been at the March meeting, you would have seen a preview of one of the Dayton seminars. Don’t miss this month’s meeting. We have none other than our Vice President, Michael Knight KK4IOH, with a program about EchoLink®. I think that will be really interesting.

If you get a chance, give David Campbell KD4NOQ, a thanks for the great programs this year. As I said before, these things don’t just happen. There is a lot of planning months in advance. We welcome others to help. Have an idea and a solution - give a board member an email or a call.

73 and have a great month
TREASURER’S REPORT
Submitted By: Rick Tillman WA4NVM

Beginning Balance as of March 1, 2014 $9,943.97

<table>
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<th>Expenses</th>
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<tbody>
<tr>
<td>Howard's Donuts</td>
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<tr>
<td>SwapFest</td>
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<td><strong>Total Expense</strong></td>
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<td><strong>SubTotal</strong></td>
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<td>Tickets</td>
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<td>Donated Gear</td>
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<td><strong>Total Income</strong></td>
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Ending Balance as of March 31, 2014 $11,009.77

Certificate of Deposit #1 Balance $10,188.10
Certificate of Deposit #2 Balance $5,000.00
Total DARC Assets Balance $26,197.87

BOARD MEETING MINUTES
March 5, 2014 - Presented by: Tom Raggett KJ4LMH Secretary

- Present: Rick Tillman, Bill Stevens, Michael Knight, Joe Wray, David Campbell, Tom Raggett, Joe Lowenthal, Denise Ganucheau

- Swap Meet will be held March 15, 2014, 8am to 12pm at Ellendale Church of Christ.

- Programs—David Campbell reported that Glen Popiel will give presentation on the Arduino Micro Controller. Denise Ganucheau requested that we have a program on the various building code rules for the different communities. David will research.

- Treasurer Report—Rick Tillman presented the Treasurer’s report. The Board approved the report.

- Kenwood 850—There was a discussion about whether to sell the Kenwood 850 retrieved from an estate. After much discussion Tom Raggett made motion that we sell, Rick Tillman seconded, motion passed. We sell the Kenwood 850.
• Grand Prize at yearend drawing—Joe Lowenthal made a motion that only a club member can win the Grand Prize at the yearend drawing, Michael Knight seconded, motion passed.

• Training—There is a Tech class beginning March 10 and ending April 14.

• Presidents Jackets—Joe will continue research sizes, colors and prices.

• Antenna Trailer—There was much discussion on selling the antenna trailer. There were many different options. One option was to break it into components and sell separately. No final decision on any option, although we will try to price the individual pieces. No one took responsibility to get the prices. More discussion required.

• Web site—Web site has been updated and Joe Lowenthal is reviewing and correcting any errors.

• Meeting adjourned.

GENERAL CLUB MEETING MINUTES
March 11, 2014 - Presented by: Tom Raggett KJ4LMH

• Present Joe Wray called meeting to order and urged everyone to sign in. Introductions were held.

• Minutes—Correction to the February minutes—The Tour de Cure bike ride will be held on May 31. The date was in error on the February minutes. Ham Hilliard made motion to accept the minutes as corrected and Bill Covington seconded. Minutes approved.

• Treasurer Report—Rick Tillman presented the Treasurer’s Report. Bill Covington made motion to accept and Ham Hilliard seconded. Report was approved.

• St. Jude Marathon—The Club received a letter from St Jude fundraising thanking us for our support of the marathon. Even though it was not held there were several club members on site when it was cancelled.

• Testing—1 person tested and passed General license.

• Mt. Nebo contesting—DARC group placed 10th nationally and 4th in our Division.

• FreeFest—Tony Brignole reported that FreeFest on April 12 was 100% full. There is still room in the Flea Market area. Tony urged everyone to pass the word and to buy and sell tickets for the drawing. Presale of tickets is very important. All proceeds will go to LeBonheur Children’s Hospital.

• Training—There is an Extra class to complete on April 12. There is a Tech class to complete on April 14. There will be another Tech class scheduled after July 4th.
• Swapfest—Joe Wray reminded everyone of the Swapfest to be held March 15, 2014 at Ellendale Church of Christ.

• Program –Glen Popiel did presentation on the Arduino Micro Controller.

• March for Babies—The March for Babies will be held on the last Saturday in April. The date is April 26. Need 20 volunteers, see Joe Lowenthal to sign up.

• Drawing—Roger Schlichter (wr4r) won the door prize.

• Meeting adjourned.

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AMATEUR PACKET UPDATE
By: James Butler - KB4LJV

Many times when we build up our own wire antenna we need a Balun to go from the unbalanced coax cable to the balanced antenna. One company that carries a lot of these is DX Engineering. They have several brands that they carry. They offer the COMTEK Jerry Sevick W2FMI Series Current Baluns as part of their line. These are available in different power levels and in 1:1 and 4:1 configurations. They will insure efficient transfer of signal to the antenna. They are built up in a weatherproof box and use stainless steel mounting hardware. To see the full line of Baluns at DX Engineering check out their website at www.dxengineering.com/

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AMATEUR HARDWARE UPDATE
By: James Butler - KB4LJV

Many times we want to program Microprocessors to do things for us. To check the circuits out, we need a test board to hook up the input switches and output LEDs to check for proper program operation. The Input/Output test board is made by RSR Electronics. It is in KIT form and is a good practice exercise for soldering on PC boards. The board has terminal strips to make connections to the microprocessor board inputs and outputs. It also has power supply connections to run the LEDs. It also has a clock output. Eight switches on the board are on/off style. They also have 2 pushbutton momentary switches on the PC board. The LEDs already have the current limiting resistors wired in on the board. I also wired in clips to hook up to a power supply and mounted it on a small wood board. The website for the board is http://www.elexp.com/tst_0dig.htm
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.

**Licenses Earned in 2014 from Delta Classes**

- 0 Technician
- 8 General
- 1 Extra

Note: The question pool for the Technician Class license exam in The ARRL Ham Radio License Manual Revised Second Edition will expire on June 30, 2014. The new manual is the Third Edition which will be available in late May from ARRL.

**CLASSES SCHEDULED**

**Tech Class 4-14 – July 14 – August 18, 2014**

Tech Class 4-14 will be held on 6 Monday nights from July 14th to August 18th at Lord of Life Lutheran Church at 6865 Poplar Pike just east of Kirby Parkway. If you are interested, send an email to Joe Lowenthal at wa4ovo@gmail.com with Tech Class in the Subject line and name, email address and cellphone number in the text. Pre-registration is required. The text for the course will be the new The ARRL Ham Radio License Manual 3rd Edition which will be available from ARRL in late May and becomes effective July 1, 2014 for four years.

**CLASSES IN PROGRESS**

**Tech Class 3-14 – March 10 – April 21, 2014**

Tech Class 3-14 is being held on 6 Monday nights from March 10th to April 21st at EMHC ambulance offices at 6972 Appling Farms Parkway. Ten students were registered with only seven continuing. The instructors are Pat Lane W4OQG and Joe Lowenthal WA4OVO. The Elmers are Casey Nepa NO1NO, Tom Ernst N4LIA, and Geoff Wilson KV4LE.
Extra Class 2-14 – February 22 – April 12, 2014

Extra Class 2-14 is being held on 6 Saturdays from February 22nd until April 12th from 9am-1pm at EMHC ambulance offices at 6972 Appling Farms Parkway and the FCC exam at . The students are Art Barnett WA4PSS, Jimmy Butler KK4SZQ, Dorothy Cantrell KF5TAV, Tommy Ferrer Poratta K4VOZ, James Jones KI4HTC, Janet Kelly KK4PRT, Jerry King KD4EYU, Michael Knight KK4IOH, Ray Phetteplace KJ4SBC, Chuck Pigue KK4NEO, Dean Plessala KC5RDP, and Sue Plessala KF5ZJI. The instructors are Ed Arndt KV4LF, Dean Honadle N2LAZ, Pat Lane W4OQG and Joe Lowenthal WA4OVO. Dan Lasely NE7JN is an Elmer. Congratulations to Dorothy Cantrell KF5TAV for upgrading to Extra before the end of the class at the CARA ARRL FCC test session on March 17th.

TECHNICIAN CLASS

If you are interested in the first amateur license class, Technician, please let us know by sending an email to wa4ovo@arrl.net with subject line "Technician Class" and give name, email address, and a contact phone number (preferably a cell number). Or you can go to the Delta Club webpage www.deltaclub.org click on Training Classes; then click on Technician Class and send an email, or call at 901-628-4318. We usually publish class schedules a month or two in advance. You will be notified by email or phone when the class is set if you send an email informing us of your desire to be in a class.

There is no charge for the class, but registration is required. Advanced study of The ARRL Ham Radio License Manual, Revised Second Edition with sample test CD, product #0977, ISBN 978-0-87259-097-7 (red-brick colored cover) is strongly suggested, as well as study of the 396 question and answer Technician Class License question pool. You can purchase it online from www.msars.com, www.arrl.org/catalog, on Amazon.com, or possibly Barnes & Noble booksellers.

The current Technician Class License question pool, which was approved by the NCVEC on February 1, 2010, can be seen at http://www.ncvec.org/page.php?id=356. Testing for this question pool started July 1, 2010 and is valid through June 30, 2014.

Practice tests are highly recommended. The www.qrz.com website is free. To access the sample tests, go to www.qrz.com. From the QRZ home page click on RESOURCES in the blue band on the top right. Then click on 2010 Technician Exam Practice Test. When you start answering the questions, it will show you if you answered correctly or not with CORRECT! or SORRY BUT THAT ANSWER IS NOT CORRECT. Statistics are kept below the test question at This Quiz with the number of questions answered correctly and the percentage correct. Also shown is the number of questions answered correctly from the 396 questions of the question pool. It keeps track of your correct answers on subsequent tests. Below the This Quiz line is Questions In This Test, that is a list of the 35 question numbers of the current test. If answered correctly, the question number radio button turns green. If answered incorrectly, it turns red.

There are a number of other free sample-test sites on the internet. Here are some of the ham radio practice exam sites:
- www.hamstudy.org
- www.aa9pw.com
- http://kb0mga.net/exams
- www.qrz.com
- http://www.hamradioclass.org
The 35-question FCC exam will be given during the class by a Volunteer Examiner (VE) team. The ARRL VEC FCC exam fee is $15.00.

**GENERAL CLASS**

If you are interested in a General License class, please let us know by sending an email to wa4ovo@arrl.net with subject line "General Class." Or you can go to the Delta Club web page www.deltaclass.org; click on Training Classes; then click on General Class to send me an email with name, email address and contact phone, preferably cell number, or call at 901-628-4318. The current question pool became effective July 1, 2011 and valid through June 30, 2015. The text is *The ARRL General Class License Manual, Seventh Edition* with sample test CD, ARRL product #8119, ISBN 978-0-87259-811-9. You will be notified by email or phone when the class is set if you have sent an email.

**BASIC ELECTRONICS**

Basic Electronics is geared toward bridging the gap between the General and Extra Class licenses. **There is not a Basic Electronics class in the classroom anymore** since there is so much on the internet. Alan Proffitt AE5RX has created a Google website for basic electronics for the Delta Club with useful links. Click on https://sites.google.com/site/darcelectronics/my-forms and then click on syllabus.docx at the bottom of the list. Alan, alan.proffitt@comcast.net, will Elmer anyone who would like help or refer them to another Elmer. One site inside this Google site is the US Navy Electricity and Electronics Testing Site (NEETS). There are 24 modules with excellent information. If you want to go directly to it, go to http://jacquesricher.com/NEETS/.

**EXTRA CLASS**

If you are interested in an Extra Class, please pre-register by going to the Delta Club web page www.deltaclass.org; click on Training Classes; then click on Extra Class to send an email with name, email address and contact phone, preferably cell number, to Joe Lowenthal, WA4OVO, at wa4ovo@arrl.net or call at 901-628-4318. You will be notified by email or phone when the class is set. Classes are usually held on Saturdays from 9am-1pm for 6 or 7 weeks in January and February. The text is *The ARRL Extra Class License Manual 10th Edition*, ARRL product #5170, ISBN 978-0-87259-517-0.

**COMPLETED CLASSES**

*General Class 1-14 – January 4 – February 15, 2014*

General Class 1-14 began on January 4th for 6 Saturdays from 9am-1pm through February 15th. The location was at EMHC ambulance offices at 6972 Appling Farms Parkway. The instructors were Joe Lowenthal WA4OVO, Ed Arndt KV4LF and Pat Lane W4OQG. Elmers were Dan Lasley NE7JN and Art Barnett WA4PSS. Eight hams have upgraded to General. Congratulations to Jimmy Butler KK4SZQ, Ed Itkin KK4VPU, Dean Plessala KF5ZJH, Sue Plessala KF5ZJI, Thomas Showers KF5VEB, Doug Spoerre KK4VQB, Jan Spoerre KK4VQA and Steven Wiley WB4PAG. The Delta Club VE team led by Bill Stevens W9S provided the ARRL FCC testing on February 15th. Thanks to Bill Stevens W9S, Ed Arndt KV4LF, Jeff Krause AJ4GY, Ken Laseter KI4AOH, Ray Turner AE0AE, David Webb KV4QI, and Joe Lowenthal WA4OVO.
Dangerous Goods and Hazardous Materials Identification Guide
Are you interested in knowing what is carried in that truck in front of you with that hazardous material placard? Here is a website which gives you that information.
www.phe.gov/emergency/responseguide/Pages/default.aspx

MARA FreeFest
(Yes a Free Hamfest)

Saturday April 12, 2014
9 am to 3 pm
Bartlett Station Municipal Center
5868 Stage Road Bartlett, TN - North side of Stage Road just west of Bartlett Blvd by the railroad tracks
Admission Free

LIST of MAIN PRIZES

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<th>Description</th>
<th>$ Value</th>
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<td>$500</td>
<td>Leading Edge Communications</td>
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<tr>
<td>Apple IPAD 16 GB</td>
<td>$500</td>
<td>Turner Construction</td>
</tr>
<tr>
<td>Apple IPAD-Mini 16 GB Wi-Fi</td>
<td>$400</td>
<td>Johnson Controls</td>
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<tr>
<td>$250 Gift Card for Sam’s/Wal-Mart</td>
<td>$250</td>
<td>Sam’s &amp; Lance Morris</td>
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<tr>
<td>Yaesu FT2900 75 Watt 2 Mtr Mobile</td>
<td>$175</td>
<td>Bullfrog Net</td>
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<tr>
<td>TenTec 80 Mtr CW Kit</td>
<td>$125</td>
<td>Delta Amateur Radio Club</td>
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<tr>
<td>MFJ-4225 20 Amp Power Supply</td>
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<td>$100</td>
<td>Linda and Ray Ware</td>
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<td>$100 Gift Card to Flemings Steak House</td>
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<td>Rosalinda Melina &amp; Steve Smith</td>
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<td><strong>$2275.00</strong></td>
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An additional prize, a 42” TV, was received after the tickets were printed. The TV drawing will be at approximately 12:30pm and you will have to be present to win.

VE testing until 11am, Seminars Noon to 3 pm
PUBLIC SERVICE EVENTS COMING UP
APRIL & MAY
Submitted by: Joe Lowenthal  WA4OVO

Saturday April 26th  March for Babies – 4-1/2 mile walk
   Sponsor: March of Dimes
   Website: www.marchofdimes.com/tennessee/events/10226_3135323834.html
   Ham Operator Times: 6am-12 noon
   Location: Shelby Farms
   Need: 13 more operators
   Requirements: Handheld radio on VHF simplex
   Contact: Linda Laseter KJ4CTX
   Email: llaseter@laseterinc.com
   Cellphone: 901-268-1766

Saturday May 31th  Tour de Cure - 10mile/40mile/62mile/100mile bike rides
   Sponsor: American Diabetes Association
   Website: http://main.diabetes.org/site/TR/TourdeCure/TourAdmin?fr_id=9367&pg=entry
   Ham Operator Times: 5:30am-3pm
   Location: Mud Island to Shelby Forest/Tipton County and back
   Requirements: Mobile radio
   Contact: Denise Ganucheau KJ5DG
   Email: kj5dg.denise@gmail.com
   Home: 248-4806 Cell: 504-919-9635

TENNESSEE HAM RADIO LICENSE PLATE
Submitted by: Joe Lowenthal  WA4OVO

The link below is for information and instructions about Tennessee ham radio callsign automobile license plates:

http://www.tn.gov/revenue/vehicle/licenseplates/emergency/emergsaftey.shtml
The application is at www.tn.gov/revenue/forms/titlereg/f1312601Fill-in.pdf
Two men from St. Charles County killed when communication towers collapse in Kansas

BLAINE, Kan. - The two men killed Tuesday when communication towers collapsed in Kansas were from St. Charles County.


Before 9:30 a.m. Tuesday, two towers collapsed in the town of Blaine in northeastern Kansas.

Pottawatomie County Sheriff Greg Riat said the workers were on the older tower, dismantling it, when it went down.

Riat said the men were more than 250 feet off the ground when the towers collapsed. Powers died at the scene. Garner was rushed to a local hospital, where he died.

Riat said the men were removing equipment from the old tower when it came down. They were both wearing safety equipment, Riat said.

Two other workers were on the ground and saw the accident, Riat said.

Riat said the cause of the collapse is under investigation by his office and the U.S. Occupational Safety and Health Administration.

"We document everything very well, and OSHA is going to come in and take a look at it," the sheriff added.

A man who answered the phone at Wireless Horizon would not comment Wednesday.
SPARKS NEWSLETTER & 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, 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

2014 BOARD OF DIRECTORS

President:  
Joe Wray  WD4GXI  
901-246-6113  
wrayjoe@yahoo.com

Vice-President:  
Michael Knight  KK4IOH  
901-832-8636  
kk4ioh@arrl.net

Secretary:  
Tom Raggett – KJ4LMH  
901-517-0492  
kj4lmh@gmail.com

Treasurer:  
Rick Tillman – WA4NVM  
901-268-7047  
wa4nvm@comcast.net

Director of Training:  
Joe Lowenthal – WA4OVO  
901-628-4318  
wa4ovo@yahoo.com

Director of Publications:  
Kenneth Laseter – KI4AOH  
901-853-0400  
kmlaseter@laseterinc.com

Director of Programs:  
David Campbell – KD4NOQ  
901-388-6166  
kd4noq@arrl.net

Director of Meetings & Special Events:  
Denise Ganucheau  KJ5DG  
901-248-4806  
kj5dg@arrl.net

New board members joining us in 2014 are listed in red.
# HAM FESTS OF INTEREST

<table>
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<th>DATE</th>
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<td><a href="http://birminghamhamfest.org/">http://birminghamhamfest.org/</a></td>
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<td>April 2014</td>
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# PUBLIC SERVICE EVENTS --- 2014

If you are a coordinator for any of these events, please review the listed information. If it is incorrect or changes need to be made, please provide me with the correct information. Please email corrections to me at kmlaseter@laseterinc.com.

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<th>DATE</th>
<th>EVENT</th>
<th>COORDINATOR</th>
<th>CONTACT INFO.</th>
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<td>January 2014</td>
<td>Swamp Stompers.</td>
<td>Danny – KJ4FXZ</td>
<td><a href="mailto:kj4fxz@arrl.net">kj4fxz@arrl.net</a></td>
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<tr>
<td>19&lt;sup&gt;th&lt;/sup&gt;</td>
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<td>February 2014</td>
<td>Boy Scout Merit Badge University.</td>
<td>Ken – KI4AOH</td>
<td><a href="mailto:kmlaseter@laseterinc.com">kmlaseter@laseterinc.com</a></td>
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<td>April 2014</td>
<td>March for Babies (March of Dimes).</td>
<td>Linda – KJ4CTX</td>
<td><a href="mailto:llaseter@laseterinc.com">llaseter@laseterinc.com</a></td>
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<td>May 2014</td>
<td>Tour de Cure</td>
<td>Denise – KJ5DG</td>
<td><a href="mailto:kj5dg.denise@gmail.com">kj5dg.denise@gmail.com</a></td>
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<td>September 2014</td>
<td>MS 150 Bike Ride</td>
<td>Darrell - KK4D</td>
<td><a href="mailto:kk4d@xipline.com">kk4d@xipline.com</a></td>
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<td>December 2014</td>
<td>St. Jude Marathon</td>
<td>Roger – WR4R</td>
<td><a href="mailto:wr4r@bellsouth.net">wr4r@bellsouth.net</a></td>
</tr>
<tr>
<td>6&lt;sup&gt;th&lt;/sup&gt;</td>
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MEMPHIS AREA VHF/UHF NETS

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<th>Net Name</th>
<th>Freq. MHz</th>
<th>Local Time</th>
<th>Day</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mid-South Barefooted Bullfrog net</td>
<td>146.535</td>
<td>7:30p</td>
<td>Daily</td>
</tr>
<tr>
<td><strong>Delta Club Traffic and Information Net</strong></td>
<td><strong>146.820</strong> - (107.2)</td>
<td><strong>8:00p</strong></td>
<td><strong>Daily</strong></td>
</tr>
<tr>
<td>Secret Service Net</td>
<td>224.780</td>
<td>8:30p</td>
<td>M</td>
</tr>
<tr>
<td>Elmer Net</td>
<td>147.030 + (107.2)</td>
<td>9:00p</td>
<td>M</td>
</tr>
<tr>
<td>The Short Winded Net</td>
<td>146.850</td>
<td>8:30p</td>
<td>Tu</td>
</tr>
<tr>
<td>MedMERS Net</td>
<td>146.730 - (107.2)</td>
<td>12:00p</td>
<td>W</td>
</tr>
<tr>
<td>Six Meter Tech Net</td>
<td>53.01</td>
<td>8:30p</td>
<td>W</td>
</tr>
<tr>
<td>The 440 Net</td>
<td>443.200 + (107.2)</td>
<td>9:00p</td>
<td>W</td>
</tr>
<tr>
<td><strong>Collierville CERTPlus Net</strong></td>
<td><strong>444.125</strong> + (107.2)</td>
<td><strong>7:00p</strong></td>
<td><strong>W</strong></td>
</tr>
<tr>
<td>TAC 2 Net</td>
<td>224.420</td>
<td>8:30p</td>
<td>Th</td>
</tr>
<tr>
<td>ARES Training Net</td>
<td>146.880 - (107.2)</td>
<td>9:00p</td>
<td>Th</td>
</tr>
</tbody>
</table>

TENNESSEE HF NETS

<table>
<thead>
<tr>
<th>Net Name</th>
<th>Freq. MHz</th>
<th>Local Time</th>
<th>Day</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tennessee CW Net</td>
<td>3.563</td>
<td>7:00p</td>
<td>Daily</td>
</tr>
<tr>
<td>Tennessee Slow CW Net</td>
<td>3.682</td>
<td>7:30p</td>
<td>T-Su</td>
</tr>
<tr>
<td>Tennessee Early Morn Phone Net</td>
<td>3.980</td>
<td>5:40a</td>
<td>M-F</td>
</tr>
<tr>
<td>Tennessee Morning Phone Net</td>
<td>3.980</td>
<td>6:45a</td>
<td>M-F</td>
</tr>
<tr>
<td>Tennessee Evening Phone Net</td>
<td>3.980</td>
<td>6:30p</td>
<td>T-Su</td>
</tr>
<tr>
<td>CUSEC (Center for United States Earthquake Consortium)</td>
<td>3.810</td>
<td>As needed</td>
<td></td>
</tr>
<tr>
<td>CUSEC (Center for United States Earthquake Consortium)</td>
<td>7.180</td>
<td>As needed</td>
<td></td>
</tr>
</tbody>
</table>

DELTA CLUB 146.82 NET PREAMBLE (11/21/13)

Good evening, this is [first name and callsign] calling this session of the DELTA CLUB's Information Net. This net meets nightly at 8:00 pm central time except the second Tuesday of the month on the 146.82 W4BS repeater and requires a PL tone of 107.2 Hz. This net provides an opportunity to present information about club events and amateur related topics. This Net also provides new amateur stations training, and allows all amateurs a regularly scheduled session for testing their radios and communicating with the amateur radio community. In the event of severe weather this is the National Weather Service Skywarn Repeater for the Memphis area.

All licensed amateurs are encouraged to participate. All stations are requested to refrain from transmitting without being acknowledged by net control. Stations not providing their callsign or suffix will not be acknowledged.

Delta Amateur Radio Club
April 2014 Sparks
Before we begin, is there any station with emergency or priority traffic?

During this net should any station have emergency or priority traffic please use a double break followed by your call sign.

Does any station have announcements for the net? (Does any station have any questions or need any fills?)

This is [first name and callsign] with the Delta Club’s Information Net.

We will now take Early Check-Ins. Are there any stations that need to leave early? If so please come now, phonetically, with your suffix only, and please remember to spread them out by waiting for the courtesy tone. (Ask for additions or corrections only once)

We will now take checkins phonetically, by suffix only if your suffix begins A – H, Alpha through Hotel. Please come now and remember to spread them out. (Ask for additions or corrections only once if you have a short list)

This is [first name and callsign] with the Delta Club’s Information Net.

We will now take checkins phonetically, by suffix only if your suffix begins I – Q, India through Keebeck. Please come now and remember to spread them out. (Ask for additions or corrections only once if you have a short list)

We will now take checkins phonetically, by suffix only, if your suffix begins R – Z, Romeo through Zulu. Please come now and remember to spread them out. (Ask for additions or corrections only once if you have a short list)

This is [first name and callsign] with the Delta Club’s Information Net.

1. The Delta Club meets the second Tuesday of each month at the Ellendale Church of Christ, 7365 HWY 70 in Bartlett at 7:00 pm.
2. VE registration begins at 5:30 pm, with testing starting by 6:00 pm. A copy of your license and CSCE is required.
3. For VE information contact Bill, WC9S at 603-3448 or by email at WC9S@att.net
4. For membership information contact Tom KJ4LMH at 517-0492 or by email at KJ4LMH@arrl.net.
5. For training information contact Joe WA4OVO at 628-4318 or by email at WA4OVO@arrl.net.
6. Local area code is niner – zero – one.

Are there any additional announcements? (does any station have any questions or need any fills?)

We will now take late check-ins from any anywhere in the alphabet, A – Z, Alpha through Zulu. Please come now, phonetically, with your suffix only, and please remember to spread them out. (ask for additions or corrections)

CLOSE

Is there anything this station or the net can do for anyone before we close?

This is [first name and callsign] now closing this session of the Delta Club’s Information Net. I would like to thank all _______ stations for checking in tonight, and would like to ask that everyone check in tomorrow night at the same time. Goodnight and 73, the net is now closed. This is [first name and callsign] clear.
DELTA CLUB ADVERTISEMENTS
See Advertisement Order Form for Instructions.

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+ (107.2 Hz tone)
224.42 - 443.20+ (107.2 Hz tone)

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Fax: 901-766-1878
E-mail: ben@cfaparagonplace.com

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ACCESS CONTROL • CCTV
901-685-1900

Alex Miller
901-258-7484
Alex@millerprotective.com
1203 Ridgesway Road
Suite 202
Memphis, TN 38119
TN License C-0291
Delta Amateur Radio Club
Sparks Advertising Order Form

Date: ____________

Name: ______________________________

Call Sign: __________     Phone: ____________       Email: ______________________________

TO PLACE AN ORDER

1. Mark the box below indicating the ad size you are purchasing and the three (3) months you want your ad to appear in Sparks.

2. Submit this completed order form, your camera ready ad, and your check payable to Delta Amateur Radio Club (DARC) to Kenneth Laseter KI4AOH via mail at 684 Oasis Cove, Cordova, TN 38018 or give it to him at the monthly Delta Club meeting. Camera ready means that the ad you submit is exactly as you want it to appear in your ad and fits within the dimensions specified below. Ads may be submitted in gif or jpg format or submitted as a hard copy and we will scan and place your ad for you.

3. Your ad order must be received on or before the first Tuesday of the month before you want it to appear in Sparks.

SPARKS ADVERTISING

<table>
<thead>
<tr>
<th>SPARKS ADVERTISING</th>
<th>FULL PAGE</th>
<th>HALF PAGE</th>
<th>¼ PAGE</th>
<th>BUSINESS CARD</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$50.00 for 3 Months</td>
<td>$25.00 for 3 Months</td>
<td>$15.00 for 3 Months</td>
<td>$10.00 for 3 Months</td>
</tr>
<tr>
<td></td>
<td>7” w X 8 ½” h</td>
<td>7” w X 4” h</td>
<td>3 ½” w X 4” h</td>
<td>3 ½” w X 2” h</td>
</tr>
</tbody>
</table>

|----------|----------|----------|----------|----------|----------|-----------|----------|-----------|----------|----------|----------|

DEBROD MEETING MINUTES
January 4, 2011
Call sign____________________ License Exp. Date _____/_____/_______ New Member _____ Renewal_____

License Class (Check One) ________NOV ______TECH ______TECH + ______GEN ______ADV ______EXTRA

Last Name_______________________ First Name________________ _______ ARRL Member ____Yes ____ No

Address____________________________ BirthdayMonth _____Day_____

City_ _________________________________________ State _________ Zip+4 __________+_______

Area Code___________ Home Phone______________________ Email___________________________

This membership current through December 2013

This membership current through December 2014

Club dues: INDIVIDUAL MEMBERSHIP ($30.00)* $ ________
FOR FAMILY MEMBERSHIP ADD ($5.00) $ ________
DONATION $ ________
TOTAL $ ________

* Individual dues will be pro-rated quarterly for new members only (NOT RENEWALS), as follows: January to March – 100% ($30.00), April to June – 75% ($22.50), July to September – 50% ($15.00), October to December – 25% ($7.50).

Family membership is five dollars in addition to the individual membership fee, which includes any immediate licensed or unlicensed family members living in your home who desire to be Delta Club members.

Please provide family member information below ONLY if you are applying for a family membership.

Name (First, Middle, Last)         Call sign (if licensed)        Lic. Class         Lic. Exp. Date Birthdate: (Mo/Day)
1. _______________________________________________________________________________________
2. __________________________________________________________________________________________
3. __________________________________________________________________________________________
4. ___ ____________________________________________

CLUB USE ONLY, PLEASE DO NOT WRITE BELOW THIS LINE

***** *************************************  *************  **************************** **
_____ CASH______CHECK #__________ AMOUNT________ RECEIVED BY: ______________

PROCESSED BY SECRETARY________________________ DATE ______________

PROCESSED BY TREASURER______________________ DATE ______________

PROCESSED BY DISTRIBUTION________________________ DATE ______________

Delta Amateur Radio Club       April 2014 Sparks