DATE: October 8, 2013 (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: “PL259 Installation Demonstration”
         Presented by: Ham Hilliard W4GMM

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 P M. 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 the examinees of the September 10th Delta Club test session: Technicians Steven Ripley KK4TXA and Jeremy James KK4TWZ; General upgrades for Betsy Freeman KD4KOM and Mitch Waits KK4SNG; and Extra upgrade for Casey Nepa KV4QW (formerly KK4SZR).

Until further notice, the FCC is not processing any Amateur Radio license applications. The Delta Club will still provide testing and forward the results to the ARRL. However, the ARRL is not able to load the data to the FCC database due to the federal work stoppage.
**ELECTION OF NEW OFFICERS**  
By: Kenneth Laseter  KI4AOH  

**It’s not too late!** If you would like to be on the board, now’s the time to put your name on the ballot. Or, if you know someone you think would make a good director, just let Thomas Raggett kj4lmh@arrl.net or Rosalinda Melena wntwow@gmail.com know. There are only two basic requirements 1) you must be a club member, and 2) you must have attended at least six (6) club meetings during calendar 2013. Please be thinking about helping us fill all the board positions. We will discuss nominations at this month’s club meeting. Remember, election of new officers will be held at our regular club meeting in November.

**PRESIDENT’S CORNER**  
By: Rosalinda Melena WN2V

Not Received.

**BOARD MEETING MINUTES**  
September 3, 2013 - Presented by: Tom Raggett KJ4LMH Secretary

Present: Tom Raggett, Bill Stevens, Joe Lowenthal, Rosalinda Melena, Ken Laseter, David Gilbert, Rick Tillman.

- Treasurer’s Report — The Treasurer’s report was read and approved by the Board.
- Training — Joe Lowenthal is in process of scheduling a Tech class for November and General class for January. The Basic Electronics courses are not being held due to non-attendance after scheduling.
- Nomination of new Officers — Nomination should be done by October, with election in November. The officers will take office on January 1, 2014.
- Prizes for November drawing — Rick Tillman was given authorization to purchase the prizes for the drawing.
- October Program — David Campbell with continue with “Share Your Shack” series.
- Next Swap meet — Tentative date is October 19, 2013.
- Meeting adjourned.
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<thead>
<tr>
<th>Description</th>
<th>Amount</th>
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<tr>
<td>Beginning Balance as of September 1, 2013</td>
<td>$12,802.50</td>
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<tr>
<td>Expenses</td>
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<tr>
<td>David Gilbert Meeting Treats</td>
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<tr>
<td>Amazon November Prize</td>
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<td>Giga Parts November Prize</td>
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<td>Income</td>
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<td>Membership Dues Year 2013</td>
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<td>Tickets November Drawing</td>
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<td>Donations</td>
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<tr>
<td>Ending Balance as of September 30, 2013</td>
<td>$11,985.75</td>
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</table>

TREASURER’S REPORT
Submitted By: Rick Tillman WA4NVM

GENERAL CLUB MEETING MINUTES
September 10, 2013  - Presented by: Tom Raggett KJ4LMH

- President Rosalinda Melena called meeting to order and introductions were held.
- Rosalinda reminded everyone that elections were a month away and emphasized that candidates needed to be nominated. If someone wants to run please give name to any Board member.
- Program—Ben Shott from the National Weather Service gave a short presentation on the changes that the Weather Service is making to amend the way the Ham Operators support the Weather Service during severe weather.
- Club Swap Meet—The club swap meet will be held on October 26, 2013. This date is an update to the October 19, 2013 discussed in the Board Meeting minutes. The Meet will be held at the Ellendale Church of Christ.
- Minutes—The Board and General meeting minutes were approved as printed in SPARKS. Steve Smith made motion to accept, Bill Covington second.
- Treasurer’s Report—The Treasurer’s report was approved as printed in SPARKS. Ned Savage made motion to accept, Larry McMillin second.
• Audit of Huntsville Bus Trip—Rick Tillman present the details of the finances of the Huntsville Buss Trip.

• Training—Tech class scheduled November 4, 2013 through December 9, 2013. General class scheduled to start 2nd week in January 2014 and the Extra class will be scheduled after completion of the General class. Extra candidates are “on your own” for the Basic Electronics class, due to non-attendance.

• Testing—There were 2 new Techs, 2 General, and 1 Extra.

• Bluff City Blues Bike Ride—Danny Banks requested 6 to 8 operators to support the Bike Ride.

• Silent Key—Jim Cissel announced that 96 year old Dave Gojo(w4cgt) is now a silent key.

• MS 150 Bike Ride—Darrel Scheffield thanked everyone who attended and worked the MS 150 Bike Ride. The Ham Operators were awarded the Rico Bullock Volunteer of the Year award by the MS organization.

• St. Jude Marathon—Roger Schlichter announced that the St. Jude Marathon will be held on Dec 7, 2013. Roger has a need for 55 operators to fully staff the event. Contact Roger at WR4R@bellsouth.net.

• Program—David Campbell continued the program of the “Share Your Shack” series.

• Drawing—Jeff Krause AJ4GY won door prize.

• Meeting adjourned.

Many times when we run Morse code, the key or paddle wiring can get tangled up. I saw a Chinese key with a coiled cable hooked to the key. By picking up old torn up used microphones at Hamfests you can cut off and reuse the coiled cable for your Morse code key. The microphone cables have more than enough conductors for a key or paddle. It looks a lot neater than a few pieces of wire. I wired up my SPEEDX key with a coiled cable to give it a try. It is easier to move around and store. Save and recycle those old microphone cables for your keys and paddles.
Many of us will be looking at buying new radios in the future. The current trend is to do as much as possible with the radio using software. The Software Defined Radio (SDR) is the radio of the future. The ARRL has come out with a publication about Software Defined Radios on how they work and what they can do. This book is a good way to get acquainted with this new and exciting technology. The book is called The ABCs of Software Defined Radio and is at the ARRL bookstore for $19.95. The website is http://www.arrl.org/shop/Whats-New

Saturday October 12, 2013 at 8 am there will be a J pole class held at Steve and Rosalinda's Garage. Cost will be $30.00 this just covers the materials. There will be a sign up sheet at the club meeting. Persons signing up for the class will be responsible for the cost of materials if they attend or not as we will purchase the necessary items before the class. The address is 6631 Valendar Cv. They can also e-mail me w4gmm@bellsouth.net and sign up but again if the commit they will be responsible for the materials purchased. There will be no walk ins as we will purchase materials for those who commit by signing at the meeting or by e-mail to me only no extras will be available. Each attendee will build a j-pole antenna to take home with them. Only 2 meter, 220 and 440 antennas will be built but info will be available to build a 6 meter j-pole if desired. If someone wants a j-pole on each of those frequencies they it will be $30.00 each. The class will last approx. 4 hours depending how many attend. Space is limited to 10 to 12 in the class.

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 2013 from Delta Classes

<table>
<thead>
<tr>
<th>License Level</th>
<th>Count</th>
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<tbody>
<tr>
<td>Technician</td>
<td>24</td>
</tr>
<tr>
<td>General</td>
<td>26</td>
</tr>
<tr>
<td>Extra</td>
<td>7</td>
</tr>
</tbody>
</table>

New to the Basic Electronics Class is information on a Google website created by Alan Proffitt AE5RX.

SCHEDULED CLASSES

Tech Class 5-13 – November 4 – December 9, 2013

Tech Class 5-13 will be held on 6 Monday nights from 6:15-9:30pm from November 4th through December 9th with the FCC exams given on December 2nd. Classes will be held at EMHC ambulance services’ office at 6972 Appling Farms Parkway Suite 110, Memphis. If you are interested in the class or know someone who

Delta Amateur Radio Club October 2013 Sparks
is, have them send an email to Joe Lowenthal at wa4ovo@arrl.net with Tech Class in the subject line and name, email address and cellphone number in the text. See the Future Classes Technician Class below for the text to be used.

**CLASSES PLANNED**

**General Class 1-14**

A General class is being planned for starting mid-January either on Saturday mornings from 9am-1pm or Monday nights from 6:15-9:30pm. If you are interested, send an email to Joe Lowenthal at wa4ovo@arrl.net with General Class in the subject line and name, email address and cellphone number in the text. Specify your preference of one of the two days stated above. See the Future Classes General Class below for the text to be used.

**Extra Class 2-14**

An Extra class is being planned for starting late February or early March on 6 Saturdays from 9am -1pm. If you are interested, send an email to Joe Lowenthal at wa4ovo@arrl.net with Extra Class in the subject line and name, email address and cellphone number in the text. See the Future Classes Extra Class below for the text to be used.

**CLASSES IN PROGRESS**

None

**CLASS INFORMATION**

**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 to 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, product #0977/ISBN 978-0-87259-097-7* (red-brick colored cover) is strongly suggested as well as study of the 396 questions and answer Technical Class License question pool. Barnes & Noble Booksellers may have this manual. You can purchase it online from [www.msars.com](http://www.msars.com), [www.arrl.org/catalog](http://www.arrl.org/catalog) or on Amazon.com. The list price is $29.95 (which includes a CD). The older ARRL Ham Radio License Manual, Second Edition was priced at $24.95, but did not have a CD.

The current Technician 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](http://www.ncvec.org/page.php?id=356). Testing for this question pool started July 1, 2010.

Practice tests are highly recommended. The [www.qrz.com](http://www.qrz.com) website is free. To access the sample tests, go to [www.qrz.com](http://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. The following are some other ham radio practice exam sites:

- www.aa9pw.com
- http://kb0mga.net/exams
- www.qrz.com
- http://www.hamradioclass.org

The 35-question FCC exam will be given at the end of class by a Volunteer Examiner (VE) team. There is a $15.00 ARRL VEC FCC exam fee.

**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.deltaclub.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. A new question pool became effective July 1, 2011. The new textbook is *The ARRL General Class License Manual, Seventh Edition, item #8119, ISBN 978-0-87259-811-9*. This edition with its question pool is valid through June 30, 2015. Lately, we have been running a combined Technician-General class. You will be notified by email or phone when the class is set.

**Basic Electronics Class**

Basic Electronics is geared toward bridging the gap between the General and Extra Class licenses. There will not be a Basic Electronics class in the classroom anymore since there is so much on the internet. However, 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](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/](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.deltaclub.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 have been held on Saturdays for 6 or 7 weeks in January and February.

**COMPLETED CLASSES**

**Technician Class 4-13 – July 8 - August 12, 2013**

**Tech Class 4-11 Revisited**

**General Class 3-13 – April 1 – May 6, 2013**

**Tech Class 2-13 – February 11 – March 18, 2013**

**Extra Class 1-13 – January 12 – February 23, 2013**

**Troop 225 Merit Badge Class – February 9, 2013**
For those of you who are wondering, here is a partial list of prizes procured for the Christmas drawing. Here are the major prizes:

- **Yaesu 857D**  -----  Worlds Smallest HF/VHF/UHF Mobile Radio
- **Kindle Tablet**  -----  E-Book Reader
- **Several $50 Bills**  -  Universal Gift Certificates

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**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

**2013 BOARD OF DIRECTORS**

- **President:** Rosalinda Melena – WN2V  
  901-921-4474  
  wntwov@gmail.com

- **Vice-President:** Richard Martin – K4DXF  
  901-372-3722  
  k4dxf@att.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:** David Gilbert – AJ4LV  
  aj4lv@hotmail.com
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.

<table>
<thead>
<tr>
<th>DATE</th>
<th>EVENT</th>
<th>COORDINATOR</th>
<th>CONTACT INFO.</th>
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</thead>
<tbody>
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<td><strong>January 2013</strong></td>
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<td></td>
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<tr>
<td>20th</td>
<td>Swamp Stompers.</td>
<td>Danny – KJ4FXZ</td>
<td><a href="mailto:kj4fxz@arrl.net">kj4fxz@arrl.net</a></td>
</tr>
<tr>
<td><strong>February 2014</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8th</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><strong>April 2013</strong></td>
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<tr>
<td>27th</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>27th</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>19th</td>
<td>Memphis in May Triathlon.</td>
<td>Ned - KA4BLL</td>
<td><a href="mailto:ka4bll@arrl.net">ka4bll@arrl.net</a></td>
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<td><strong>September 2013</strong></td>
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<tr>
<td>7th and 8th</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><strong>December 2013</strong></td>
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<tr>
<td>7th</td>
<td>St. Jude Marathon</td>
<td>Roger – WR4R</td>
<td><a href="mailto:wr4r@bellsouth.net">wr4r@bellsouth.net</a></td>
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**MEMPHIS AREA VHF/UHF NETS**

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<td>146.535</td>
<td>7:30p</td>
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<tr>
<td><strong>Delta Club Traffic and Information Net</strong></td>
<td>146.820 - (107.2)</td>
<td>8:00p</td>
<td>Daily</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>
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<tr>
<td>The 440 Net</td>
<td>443.200 + (107.2)</td>
<td>9:00p</td>
<td>W</td>
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<tr>
<td>Collierville CERT Net</td>
<td>444.125 + (107.2)</td>
<td>7:00p</td>
<td>W</td>
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<tr>
<td>TAC 2 Net</td>
<td>224.420 -</td>
<td>8:30p</td>
<td>Th</td>
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<tr>
<td>ARES Training Net</td>
<td>146.880 - (107.2)</td>
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**TENNESSEE HF NETS**

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<td>Tennessee CW Net</td>
<td>3.563</td>
<td>7:00p</td>
<td>Daily</td>
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<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>
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<td>Tennessee Morning Phone Net</td>
<td>3.980</td>
<td>6:45a</td>
<td>M-F</td>
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<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>
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GOOD EVENING: This is _____________ calling this session of the DELTA CLUB'S TRAFFIC AND INFORMATION NET. This net is affiliated with the ARRL and the NTS and is organized to pass traffic in and out of the mid - south area, in addition to providing information about club events and amateur related topics. This net meets nightly at 8:00 p.m. CT except the second Tuesday of the month on the 146.82 W4BS repeater and requires a pl. tone of 107.2 Hz. All stations will refrain from transmitting without being acknowledged by net control.

All licensed amateurs are encouraged to participate.

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.

Is there an NTS Liaison station on frequency?

Is there any station wishing to list formal written traffic?

Does any station have announcements for the net?
(If anyone asks to make an announcement after you finish handling the ones taken here ask them to hold until after the monolog. Eliminate the following sentence unless there are announcements.)

Does any station have any questions or need any fills?

We will now take check-ins. Are there any stations that are mobile, on battery power, or needing to leave early, if so please come now phonetically with your suffix only and please remember to spread them out?

We will now take check-ins phonetically by suffix only if your suffix begins ALPHA through HOTEL please come now and remember to spread them out.

We will now take check-ins phonetically by suffix only if your suffix begins INDIA through KEEBECK please come now and remember to spread them out.

We will now take check-ins phonetically by suffix only if your suffix begins ROMEO through ZULU please come now and remember to spread them out.

The DELTA CLUB meets the second Tuesday of each month at the ELLENDALE CHURCH OF CHRIST 7365 HWY 70 in Bartlett at 7:00 P.M. V. E. Registration begins at 5:30 P.M. with testing starting promptly at 6:00 P.M. A copy of your license and CSCE is required. For V. E. Information contact Bill, WC9S at 603 -3448. For membership information contact Tom, KJ4LMH at 517-0492. For training information contact Joe WA4OVO at 628-4318.

Are there any additional announcements?

We will now take late check-ins from anywhere in the alphabet ALPHA through ZULU please come now and spread them out.

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

This is _____________ now closing this session of the DELTA AMATEUR RADIO CLUB'S Traffic and information net and would like to thank all _______ stations for checking in tonight. And would like to ask that everyone to check in tomorrow night at the same time.

GOODNIGHT AND 73: THE NET IS NOW CLOSED. _____________ CLEAR
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)

DELTA CLUB ADVERTISEMENTS
See Advertisement Order Form for Instructions.

DEBOARD MEETING MINUTES
January 4, 2011

Savage Tile Company
Installers of commercial & residential ceramic, quary, marble & slate tiles
(901) 365-9607 or Fax (901)365-1992
5579 Federal Avenue
Memphis, TN 38118-7918
Ned Savage
35 YEARS of EXPERIENCE

Ben Richhart
Sales and Service Director

Chick-fil-A at Paragon Place
6282 Poplar Avenue
Memphis, TN 38119
Phone: 901-766-1875
Fax: 901-766-1878
E-mail: ben@cfaparagonplace.com

Miller Protective Service, Inc.
24 HOUR CENTRAL MONITORING STATION
BURGLAR • FIRE • HOLD UP
RESIDENTIAL • COMMERCIAL ALARMS
ACCESS CONTROL • CCTV
901-685-1900

Alex Miller
901-258-7484
Alex@millerprotective.com

1203 RIDGEWAY 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>FULL PAGE</th>
<th>HALF PAGE</th>
<th>¼ PAGE</th>
<th>BUSINESS CARD</th>
</tr>
</thead>
<tbody>
<tr>
<td>$50.00</td>
<td>$25.00</td>
<td>$15.00</td>
<td>$10.00</td>
</tr>
</tbody>
</table>

for 3 Months  
7” w X 8 ½” h  
3” w X 4” h  
3 ½” w X 4” h  
3 ½” w X 2” h

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

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DELTA AMATEUR RADIO CLUB
P.O. Box 342768, TN 38184-2768
2013 MEMBERSHIP APPLICATION

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_________________ ___________________________________ Birthday Month ______ Day______

City_________________ State _________ Zip+4 __________+_______

Area Code___________ Home Phone_______________ __________ Email_______________________

This membership current through December 2013

This membership current through December 2013

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. ______________________________________________________________________________________

5. ______________________________________________________________________________________

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
October 2013 Sparks