

SPARKS

P.O. Box 342768 * Memphis, Tennessee 38134-2768 * Volume 21 * September 2015



Welcome to the Delta Amateur Radio Club

Visit our home on the web at: <http://www.deltaclub.org>

EMAIL: darc4you@gmail.com

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 ⁻	

CLUB MEETINGS (7:00 PM, 2nd Tuesday of each month)

NEXT DATE: September 8, 2015

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

PROGRAM: "Intro to JT65-HF" by Michael Knight, KK4IOH

FCC Amateur Radio License Testing: Delta Club FCC testing sessions are held every month except December. 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. You need to know your FCC Registration Number (FRN) if one has been issued. Please be on time for registration; this is to allow our Volunteer Examiner (VE) team to finish in time to attend the club meeting. 2015 test fee is \$15 (cash or check). Individuals who successfully test for 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 contact:

Jeff Krause, AJ4GY - VE Liaison

Phone: 901-301-6776

Email: AJ4GY@comcast.net

Congratulations to a trio of successful Technician license candidates at our August club meeting test session: Rick Henry, KM4MUF; Russ Chatham, KM4MUG; and Jennifer Arndt, KF4DZF (upgrade from Novice).

PRESIDENT'S CORNER

Submitted by: Joe Wray, WD4GXI

It looks like the Huntsville Hamfest went well. If it were not for the Mid-South hams there, they would probably be in the red. Everywhere I looked I saw someone I knew from the Memphis area. I personally obtained two new antennas - one for the car and one for portable use. As some of you may know, I went there via Nashville. My Son is a Ham and I could kill two birds with one stone; a little family time and some Ham time too. This is a really good Hamfest. If you have not been before, you should make plans for next year. The club chartered bus is an excellent option. Everyone seems to have a good time.

Now for business: Art Barnett, WA4PSS; Tom Dichiaro, AC5MR, and Dan Lasley, NE7JN; are doing an excellent job searching for people to run for office. If you feel you have been overlooked, please let us know. One of the criteria is you must have attended at least 6 meetings since November, 2014. Also remember - we do not always know all of the qualifications some of our members have. We have to get these positions filled.

I am having a difficult time writing this article because I am out of town and forgot to bring my laptop. I guess some of you are probably pretty good at using a touch screen keyboard (like on the I-pad used to write this), but I grew up using a real keyboard.

Don't forget the 2015 Bike MS: FedEx Rock-N-Roll fundraising event is coming Sept 12 & 13. Darrell Sheffield, KK4D - darrell.sheffield@memphistn.gov (901) 277-8122, would sure appreciate your help. That is also the weekend of the September VHF contest. Some of us will again be trekking up to Mt. Nebo, AR to participate. Our contest call is NE5BO. If you have some VHF gear, look for us on the calling frequencies. We will be operating 6, 2, and 432 bands for sure. We'd appreciate your giving us contacts for the contest.

I will see you at the meeting; as always, be sure to check into the net as often as you can.

73 - Joe Wray

VOLUNTEER OPERATORS NEEDED FOR TEMA AUXCOM EXERCISE

Submitted by David Webb, KV4QI

Area amateur radio operators are needed to support the Fall 2015 TN Emergency Management Agency AUXCOM (Auxiliary Communications) exercise being conducted from October 1-3, 2015 at the Shelby County Office of Preparedness, 1075 Mullins Station Road, Building C, Memphis, TN 38134. This exercise will involve agencies across the State, and will simulate events occurring 100 hours after a large scale New Madrid seismic event. **Participant registration is required not later than September 17th** via the URL shown following. Note that this registration link is also available from <http://www.tnarrl.org/>

<https://docs.google.com/forms/d/1KpH-qNuhHuoEOoAVJTpOfONiQznWsoogoc9ST58d4G8/viewform>

Please register to receive additional exercise information as it's developed!

From a TEMA perspective, this exercise features use of WINLINK Global EMAIL messaging in radio only mode. For more information on WINLINK, go to <http://www.winlink.org/>

Observers/Operators are not required to have HF digital equipment to participate in this exercise at the local level. Dispatched local field observation/reporting teams will use 2 meter equipment.

At the Mullins Station location, Friday (Oct 2nd) a.m. training classes are being planned on the subjects of:

- Incident Command System (ICS) Overview
- “If you didn’t bring it – you don’t have it” Go Kit Essentials
- WINLINK Basics
- FLDIGI Basics

Exercise Operational Periods will be conducted on Friday (Oct 2nd) afternoon and Saturday (Oct 3rd) morning. As planned, operator teams with 2 meter equipment will be dispatched for local site observation and situation reporting tasks at multiple locations around Memphis and in Fayette County. Simulated messages will be provided for volunteer operators, and no previous AUXCOM experience is required. You may register for one or more periods, you do not have to attend every day of the exercise to locally participate.

Howard “Jelly” Thompson, N4HLT – Captain with the Germantown Fire Department – will be Incident Commander for the local Office of Emergency Preparedness. He may be reached via EMAIL jelly@germantown-tn.gov

Fayette County participants may use this same registration URL, selecting a location of “Other” with the note of “Fayette County” being entered. Steve Kellett, KF4SJU - will serve as the Fayette County Incident Commander, and can be reached via EMAIL stevekellett@hotmail.com

September is National Preparedness Month, and this exercise is a great opportunity for all Amateur Radio operators to demonstrate that they can truly operate “When all else fails”.

TREASURER'S REPORT

Submitted by: Rick Tillman, WA4NVM

Beginning Balance	as of August 1, 2015	\$10,679.97
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Expenses

Jim Sheats	Food for Meetings	\$163.69
Hanover Insurance	Club Liability Insurance	\$200.00
Huntsville Hamfest	Hamfest Tickets	\$312.00
Huntsville Bus Trip	Food for Bus Trip	\$166.73
Huntsville Bus Trip	Driver Tip	\$75.00

Total Expense	\$917.42
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SubTotal **\$9,762.55**

Income

Membership Dues	Year 2015	\$35.00
Tickets	November Drawing	\$65.00
Bus Trip 2015		\$560.00

Total Income	\$660.00
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Ending Balance	as of August 31, 2015	\$10,422.55
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Submitted by Rick Tillman WA4NVM

Certificate of Deposit #1	Balance	\$10,280.23
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Certificate of Deposit #2	Balance	\$5,025.00
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Total DARC Assets	Balance	\$25,727.78
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BOARD MEETING MINUTES

7:00p – September 1, 2015 - Submitted by: Barri Munday, WB4SWP

Officers and Directors Present: Joe Wray, WD4GXI – Michael Knight, KK4IOH - Barri Munday, WB4SWP – Rick Tillman, WA4NVM – Joe Lowenthal, WA4OVO - Jim Cissell, KI4I - Jim Sheats, KK4VGL - Bill Stevens, WC9S. Also attending Nominating Committee members Dan Lasley, NE7JN - and Art Barnett, WA4PSS

1. Meeting called to order by J.Wray at 7:00pm
2. Board of Directors meeting location returned to the Ellendale Church of Christ.
3. Treasurer's Report presented by R.Tillman. Motion to approve by J.Sheats, seconded by M.Knight. Report approved by acclamation.
4. August BOD meeting minutes – Motion to approve as posted in SPARKS newsletter by J.Sheats, seconded by R.Tillman. Report approved by acclamation.
5. Nominating Committee reported that conversations with a number of people have been held for open Board positions, with a new candidate identified for Director of Meetings and Special Events.
6. J.Lowenthal reported Huntsville Hamfest bus charter made a profit of \$46.27.
7. J.Lowenthal reported tentative plans for upcoming classes (as detailed on page 10 of this month's newsletter).
8. J.Wray reported that Darrell Sheffield, KK4D - has filled many of the communications positions needed for the 2015 Bike MS: FedEx Rock-N-Roll fundraising event.
9. B.Stevens confirmed approvals for order of a Antenna G7-144 Hustler Base and Antenna G7-220 Hustler Base for Methodist North and also a 220 repeater for Methodist North
10. Move to adjourn made by J.Sheats and seconded by J.Wray. Meeting was adjourned at approximately 8:30pm.

GENERAL CLUB MEETING MINUTES

July 14, 2015 - Submitted by: Barri Munday, WB4SWP

1. President Joe Wray, WD4GXI - called meeting to order, and offered a reminder that Delta Bylaws prohibit political propaganda during club meetings and nightly Information Net sessions. Joe asked for attendee introductions – noting over 69 people were in attendance – GREAT!
2. July meeting minutes – Ham Hilliard, W4GMM - made motion to approve the minutes as published in the SPARKS Newsletter & Steve Smith, W5VAA - seconded. Minutes approved by member acclamation.
3. Treasurer's report - Bill Covington, KC4SXT made motion to approve as published in SPARKS newsletter and Ned Savage, KA4BLL - seconded. Report was approved by member acclamation.
4. Joe Lowenthal, WA4OVO made several announcements:
 - a. latest Technician training class resulted in 14 of 15 students passing
 - b. Huntsville bus trip details/reminders were given
 - c. three individuals passed their FCC licensing test at this month's meeting
5. H. Hilliard announced that he will sponsor another wire antenna training class in October, 2015 – details are pending.
6. Jim Cissell, KI4I made an informative presentation on portable generators.
7. Darrell Sheffield, KK4D – made his annual request for HAM volunteers willing/able to support the 2015 Bike MS: FedEx Rock-N-Roll fundraising event coming up on September 12-13, 2015. The two-day fundraiser for Multiple Sclerosis starts at the Landers Center in Southaven, goes to the Gold Strike Casino in Tunica, and returns on second day. For more information on volunteering, please EMAIL darrell.sheffield@memphistn.gov or call him at (901) 277-8122. Additional info on the event can be found at URL http://main.nationalmssociety.org/site/TR?pg=informational&fr_id=25500&type=fr_informational&sid=10968
8. I was unable to record details on formal motion for dismissal, but meeting was concluded with the orderly departure of attendees.

AMATEUR PACKET UPDATE

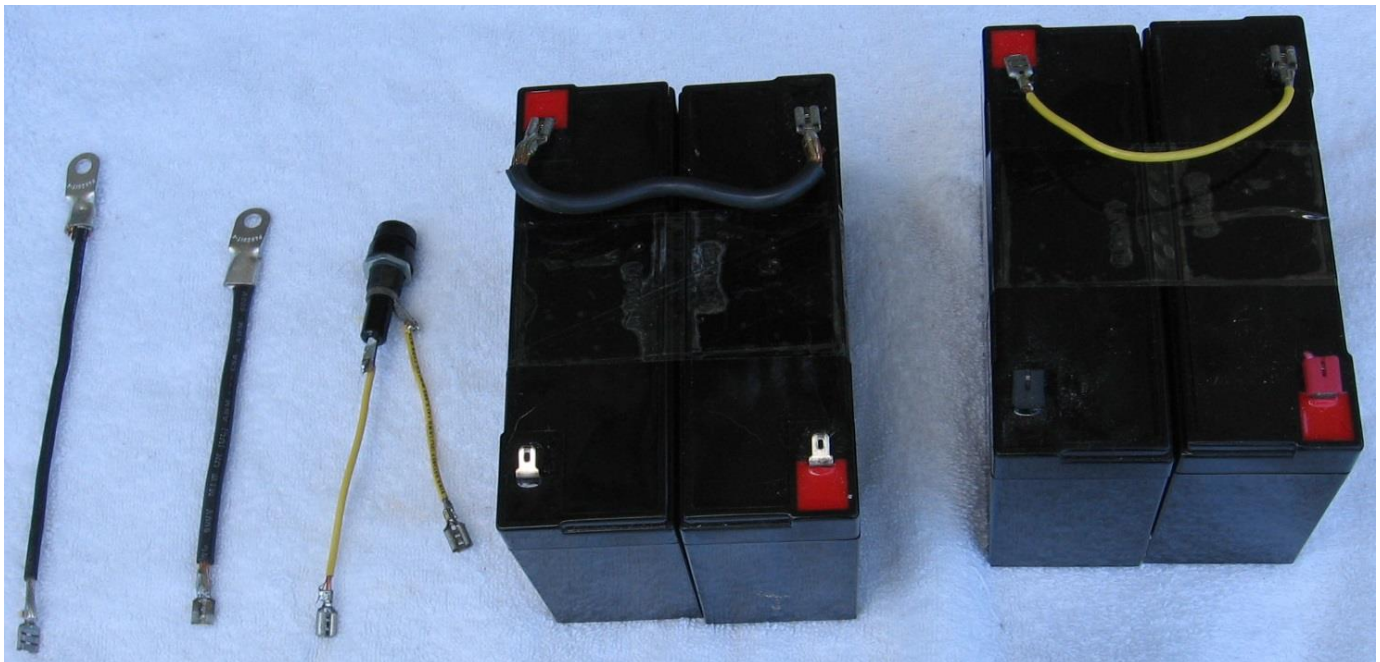
Submitted by: James Butler, KB4LJV

Many times we run our radios on battery power when the main power goes out. KI0BK has developed a microprocessor controlled battery monitor for keeping track of your battery's state of charge. LED color on the board will show the battery condition. Violet means high voltage. Blue means full charge. Green indicates charging. Orange shows your rig is running on battery power. Red denotes a low battery. The board also has a low voltage audible alarm to let you know when the battery has discharged to critical levels. A push button lets you silence the alarm. If you are looking for a nice battery monitor, check out the SLA Battery monitor and alarm from KI0BK. The URL is <http://ki0bk.no-ip.com/~pwrgate/LLPG/Site/Welcome.html>

AMATEUR HARDWARE UPDATE

Photo and Article Submitted by: James Butler, KB4LJV

Often we look for surplus batteries for equipment that we use in the field. This may be for Field Day or emergency operation. Twelve volt DC batteries sell at a premium because most mobile equipment uses 12 volts for operation. Six volt batteries are cheaper because about the only devices running on 6 volts are emergency lights. Battery voltage is determined by the chemistry of the battery which determines the voltage per cell and the number of cells in series within the battery. Six volt batteries can be wired in series to produce 12 volt batteries we can use for our equipment. By soldering on jumpers and taping the matching 6 volt batteries together, we can create a 12 volt battery. The jumper wire needs to be large enough to handle current requirements of the battery pack. In examples below, I've soldered a wire with a built in fuse holder and fuse for short circuit protection, and made adapters from the female spade terminal on the battery to the larger ring terminals. Keep an eye out for matching 6 volt batteries, as they can be adapted to our needs.



HAM LICENSE TRAINING 2015

Submitted by: Joe Lowenthal, WA4OVO

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 to Date in 2015 from Delta Classes

21 Technician

8 General

7 Extra

COMPLETED CLASS

Article info/photos this page and next shared by Joe Lowenthal

Tech class 4-15 was conducted July 9 - August 13, 2015 at the EMHC ambulance company training room with 15 enthusiastic students attending. Joe Lowenthal, WA4OVO; and Pat Lane, W4OQG were the instructors. Of particular note, the class was able to observe the variation of signal strength with different antennas on the same handheld radio when measured by a sophisticated spectrum analyzer. A question pool review and the FCC exams were offered on the fifth night of the class, August 6th.

Congratulations to Jim Winter, KM4MRR; Bryan Wiles, KM4MRS; Curt Warhurst, KM4MRT; Betty Talley, KM4MRU; Hunter Short, KM4MRV; Mike Harrison, KM4MRW; Tom Griffiths, KMRMRX; Len Grice, KM4MRY; Debra Bell-Pullen, KM4MRZ; and Joe Thomas, KG5IXG – each of whom earned their Technician license.

Congratulations also to Anthony Howald, KM4MSA; Ron Wiggins, KM4MSB; and Mary Amanda Nash, KM4MSC on passing both Technician and General exams.

Finally, but surely not least, a triple round of applause goes to Eric Pullen, KW4ME for passing his Technician, General and Extra Class license exams in one sitting!

Equipment demonstration presenters on August 13th were Michael Knight, KK4IOH on Echolink, D-STAR, Fusion and AllStar; Rick Pellicciotti, KJ4NWQ on APRS; Pat Lane on HF long-wire antenna, WinLink and MARS. Rick Tillman, WA4NVM demonstrated Satellite operations on an SO-50 pass on July 23rd.

Elmers for the class were Tom Ernst, N4LIA and Danny Banks, KJ4FXZ.

Thanks to the Delta Club VE team of Jeff Krause, AJ4GY; Stacy Krause, KJ4MDA; David Webb, KV4QI; Ray Turner, AE0AE; Scott Vanzandt, N2WMD; Henry Leggett, WD4Q; and Joe Lowenthal for giving of their time to work the test session.

We offer our continued thanks to EMHC ambulance company for generously providing their training room for the many ham radio classes given there.



Tech Class 4-15 during question pool review before the exam (left to right): Hunter Short, KM4MRV; Len Grice, KM4MRY; Ron Wiggins, KM4MSB; Jim Winter, KM4MRR; Anthony Howald, KM4MSA; Joe Thomas, KG5IXG; Curt Warhurst, KM4MRT; Betty Talley, KM4MRU; Mary Amanda Nash, KM4MSC; Bryan Wiles, KM4MRS; Tom Griffiths, KM4MRX; Eric Pullen, KW4ME; Debra Bell-Pullen, KM4MRZ; Anya Wilson (no call); Mike Harrison, KM4MRW



Pat Lane, W4OQG (dark pants standing just to left of modified ammo box); demonstrates HF long-wire antenna with Curt Warhurst kneeling for a closer inspection

HAM LICENSE TRAINING 2015 (continued)

Submitted by: Joe Lowenthal, WA4OVO

CLASSES SCHEDULED

If you are interested in attending, send an EMAIL to Joe Lowenthal at wa4ovo@gmail.com with the desired class name in the subject line, along with your name, EMAIL and (cell) phone number in the text.

Tech Class 5-15 – November 9 – December 14, 2015

Tech Class 5-15 is scheduled to be held on six Monday nights from November 9th through December 14th at EMHC ambulance company training room, 6972 Appling Farms Parkway.

Extra Class 1-16 – January 9 – February 20, 2016

This class is scheduled for six Saturdays from 9am to 1pm at EMHC ambulance company training room, 6972 Appling Farms Parkway if six students commit to the class by December 15th. There will not be a class on January 30th due to the Capital City Hamfest held in Jackson, MS

General Class 2-16 – March 5 – April 9, 2016

This class is scheduled to start March 5th for six Saturdays from 9am to 1pm at EMHC ambulance company training room, 6972 Appling Farms Parkway.

You may want to do some pre-study by going to www.KE0OG.net On the right side he has links to Technician, General and Extra Class YouTube video training.

Alternative approach: If you want to check on class availability and/or to register for a future training class, go to URL www.deltaclub.org and click on the link under Training – registration form will guide you through needed information, and EMAIL will be automatically sent.

Licenses Earned in 2014 from Delta Classes

25 Technician

12 General

6 Extra

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

Alternative EMAIL address to generically offer Board your suggestions, ask questions, voice complaints is darc4you@gmail.com

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!

<https://www.facebook.com/darcmem>

2015 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:

Barri Munday, WB4SWP
901-756-5259
annbarrimunday@att.net

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:

David W. Webb, KV4QI
901-465-8315
dwebb1518@gmail.com

Director of Programs:

Jim Cissell, KI4I
901-326-5544
james4296@aol.com

Director of Meetings & Special Events:

Jim Sheats, KK4VGL
901-756-0031
jdsheats@bellsouth.net

Repeater Trustee:

Bill Stevens, WC9S
WC9S@att.net

Immediate Past President:

Rosalinda Melena, WN2V

Board members beginning their service in 2015 are listed in red.

If you are interested in serving in any position on the 2016 Board of Directors, please let us know. We already know we will have position openings for President, Treasurer, Director of Publications, Director of Programs and Director of Meetings & Special Events; you are welcome to submit your name as a candidate for any elected position.*

**FCC licensed members whose current year dues are paid and have been in attendance at not less than 50% of the past twelve (12) meetings shall be eligible for the election to office during the regular November club member meeting.*

FUTURE PUBLIC SERVICE EVENTS

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 email corrections to dwebb1518@gmail.com .

<u>DATE EVENT</u>	<u>PUBLIC SERVICE EVENT</u>	<u>CONTACT INFORMATION</u>
Sept. 12-13, 2015	2015 Bike MS: FedEx Rock-N-Roll Landers Center in Southaven to Gold Strike Casino in Tunica and back on 2 nd day Multiple Sclerosis fundraising event	Darrell Sheffield, kk4d darrell.sheffield@memphistn.gov (901) 277-8122
October 3, 2015	Bluff City Blues Ride Starts on Mud Island and goes thru Shelby Forest	Danny Banks, kj4fxz kj4fxz@arrl.net
December 5, 2015	St. Jude Marathon 26.2 mile run from downtown Memphis	Roger Schlicter, wr4r wr4r@bellsouth.net
January 2016	SwampStomper 50k/25k Run thru Meeman Shelby Forest	Contact TBD
April 2016	March for Babies 4 mile walk around Memphis Botanical Gardens March of Dimes fundraising event	Linda Laseter, kj4ctx lindalaseter@gmail.com
June 4, 2016	Diabetes Tour de Cure Start on Mud Island and ride thru Shelby Forest	Pat Lane, w4oqg w4oqg@bellsouth.net

TENNESSEE HAM RADIO LICENSE PLATE

Submitted by: Joe Lowenthal, WA4OVO

The link below is for information and instructions about Tennessee ham radio call sign 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

NOTES OF POSSIBLE INTEREST

Submitted by David Webb, KV4QI

I was contacted by the Stone Mountain Hamfest group, who asked that we include their following promotional flyer in our communications, so here it is. The referenced URL supports an on-line ticket function.

The flyer is enclosed in a black border. At the top, the title "Largest Hamfest in Georgia" is written in red, and "2015 Georgia Section Convention" is in blue. Below this is a blue rectangular box containing the text "GEORGIA'S LARGEST HAMFEST" at the top. Underneath, it says "Sponsored by the" followed by two logos: "ALFRED MEMORIAL RADIO CLUB" and "STONE MOUNTAIN HAMFEST AND COMPUTER EXPO". Below the logos, the dates "November 7 & 8, 2015" are displayed. To the right of the blue box is a QR code. Below the blue box, the location "Gwinnett County Fairgrounds, Lawrenceville, GA" is written in green. At the bottom of the flyer, it lists activities: "TailGate, Flea Market, Forums, Door Prizes and Raffle" and provides the website "www.StoneMountainHamfest.com".

Hams - Please Make Sure Your Membership "Current" Is On!

Download the new and improved .pdf Delta Club Membership Application Form from the web at

<http://www.deltaclub.org/application-15-3.pdf>

Thanks for Your Active Support of Delta Amateur Radio Club
Membership Matters!

NOTES OF POSSIBLE INTEREST

Submitted by David Webb, KV4QI

In a recent EMAIL to Delta District ARRL members, Delta Division Director David A Norris, K5UZ - announced that **effective January, 2016, ARRL membership rates are set to increase**. As an example, an annual membership will increase by \$10 to \$49 per year; (current rate is \$111 for a 3 year period – don't have the increased 3 year rate at this time). If you act before the January increase, you'll avoid increased membership cost.

I was previously able to apply an additional promotion code of "RN3E", allowing you to receive one of five free publications with your paid ARRL membership.

Promotion Code Incentives

Thank you for entering the code **RN3E**.

Please select an incentive item from the list below.

- ARRL Extra Q & A
- ARRL General Q & A - 5th edition
- Even More Wire Antenna Classics v. 3
- Hints & Kinks for the Radio Amateur 18th Ed.
- Repeater Directory Pocket 2015-2016

I won't repeat all the reasons that I think belonging to Delta Club and ARRL are important, but I will again offer my personal opinion that **Membership Matters!** *I hope* that this reminder will urge you to take membership action that will also save you money in the long-run. **I know** that both groups are excellent sources of information, support, and provide for an increased enjoyment of amateur radio by their members.

If you don't find what you're looking for here, please note that fully detailed information (example of nightly information Net preamble) remains available online at URL www.deltaclub.org

Quote from EMAIL "ARRL Letter for September 3, 2015

The FCC Universal Licensing System (ULS) and other FCC website public applications went down for maintenance on September 2 at 2200 UTC and will remain unavailable until 1200 UTC on Tuesday, September 8. The outage will also affect the Electronic Comment Filing System (ECFS) and the Electronic Document Management System (EDOCS). During the ULS outage, it will not be possible to file any Amateur Radio applications, including examination session documents, or conduct any license or application searches.

While the requirement to pay a regulatory fee for Amateur Radio vanity call sign applications officially ended as of September 3, prospective vanity applicants now will have to wait until after 1200 UTC on September 8 to file an application for an available call sign. The FCC has told ARRL that the approximately 18-day vanity call sign waiting period will remain in place "for now."

MEMPHIS AREA VHF/UHF NETS

Name of Net	Freq. MHz	Tone	Local Time	Day of Week
Delta Club Information Net	146.820	- (107.2)	8:00p	Daily
Mid-South Barefooted Bullfrog Net	146.535		7:30p	Daily
Secret Service Net	224.780		8:30p	Mon
Elmer Net	444.175	+ (107.2)	9:00p	Mon
The Short Winded Net	146.850	- (107.2)	8:30p	Tue
MedMERS Net	146.820	- (107.2)	12:00p	Wed
CERTPlus Net	443.200	+ (107.2)	8:30p	Wed
ARES Training Net	146.880	- (107.2)	9:00p	Thu
Super Sunday Niner Net	927.6125	- (146.2)	8:30p	Sun

Delta Club sponsored Nets are shown in bold/dark blue font style

TENNESSEE HF NETS

Net Name	Freq. MHz	Local Time	Day of Week
Tennessee CW Net	3.563	7:00p	Daily
Tennessee Slow CW Net	3.682	7:30p	Tue-Sun
Tennessee Early Morn Phone Net	3.980	5:40a	Mon-Fri
Tennessee Morning Phone Net	3.980	6:45a	Mon-Fri
Tennessee Evening Phone Net	3.980	6:30p	Tue-Sun
Tennessee Alternate Phone Net	7.238		As needed
CUSEC (Center for United States Earthquake Consortium)	3.810		As needed
CUSEC (Center for United States Earthquake Consortium)	7.180		As needed

DELTA CLUB ADVERTISEMENTS

See Advertisement Order Form for Instructions.



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RG-58A/U and RG-213U

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Full Line of **Antenna Tuners***

**Patch Cables, Antenna Wire
and Insulators**

*Please thank our sponsors by using their services and mentioning
that you saw their ad in the Delta Club SPARKS Newsletter!*

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



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

Please thank our sponsors by using their services and mentioning that you saw their ad in the Delta Club SPARKS Newsletter!

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**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 months you want your ad to appear in Sparks.
2. Submit this completed order form, your camera ready ad, via email at dwebb1518@gmail.com
Make check payable to Delta Amateur Radio Club (DARC) at monthly Delta Club meeting, or send US Mail to club mailing address at P.O. Box 432768, Memphis, TN 38134-2768. Camera ready means that ad copy is exactly as you wish it to appear, scaled to fit within the dimensions specified below. Ads may be submitted in .gif or .jpg format, or submitted as a hard copy (we will scan and place your ad for you).
3. Your ad order and payment must be received on or before the first Tuesday of the **month before** you want it to appear in Sparks.

SPARKS ADVERTISING

FULL PAGE			HALF PAGE			¼ PAGE			BUSINESS CARD		
\$50.00			\$25.00			\$15.00			\$10.00		
for 3 Months			for 3 Months			for 3 Months			for 3 Months		
7" w X 8 ½" h			7" w X 4" h			3 ½" w X 4" h			3 ½" w X 2" h		
Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sept	Oct	Nov	Dec