

# ZERO BEAT

Official Newsletter  
Kingsport Amateur Radio Club  
Bays Mountain Radio Club

September 2010

---

## Important Dates

Every Sunday  
2 meter Net on 146.970 at 8:30 PM  
(Backup Repeater is Gate City 146.820)

October 14  
KARC/BMRC Club Meeting  
Toy F. Reid Employee Center  
Room 214  
7:00 PM

October 16  
Breakfast Get-Together  
Golden Corral, Eastman Road  
8:30 AM

---

## Meeting Dates – Members Providing Snacks

October 14	Randy Smith
November 11	Walt Baldree
December 9	<b>Christmas Party</b>

Silent Key

Charles K. Perry, K4OZX  
September 9, 2010

Our thoughts and prayers are with his family at this time.

## 2010 KARC/BMRC Club Officers

KARC President Billy Taylor, KI4TNS  
423-245-3336

KARC Vice-President Phil Alley, KE4FFO  
423-239-3113

KARC Secretary Phyllis Maness, KG4DTX  
423-246-6503

KARC Treasurer Robin Oaks, KJ4NAW  
423-963-0570

KARC Club License Trustee  
Jeff Pierce, WD4NMQ  
423-239-5496

BMRC Vice-President Rick Light, KG4WZG  
423-279-0884

BMRC Secretary-Treasurer  
Phil Alley, KE4FFO  
423-239-3113

W4TRC Webmaster Earl Oaks, N4ZFA  
423-863-3378

Zero Beat Editor Phyllis Maness, KG4DTX  
423-246-6503

Station Committee Chairperson  
Billy Taylor, KI4TNS  
423-245-3336

Activities Manager David Gulley, KI4AAU  
423-245-7272

Chaplain Lynn Anderson, KA4LRU  
423-765-0714

Club Photographer Jennifer Taylor, KI4TNT  
423-245-3336

Field Day Captain John Taylor, KJ4KYM  
423-245-3336

Net Manager Ed Williams, AC4ED  
423-360-7613

## Club Meeting

The meeting was called to order by President Billy Taylor, KI4TNS. The opening prayer was led by Lynn Anderson, KA4LRU. Jeff Pierce, WD4NMQ, made a motion to accept the minutes as printed in the Zero Beat. George DeVault, W3KPT, seconded the motion. The motion carried.

The Treasurer Report was given by Phil Alley, KE4FFO. A motion was made by Earl Oaks, N4ZFA, to accept the Treasurer Report. Paul Marcum, AC4QZ, seconded the motion. The motion carried.

The Repeater Report was given by Jeff Pierce, WD4NMQ. Jeff stated that a bad hardline connection at the repeater site on Bays Mountain had been repaired. The club has purchased a new DB224 Antenna. George DeVault will allow the club to place the new antenna on the tower located at the site. Eddie Palmer, K4JP, and Jeff have rounded up some additional parts needed to install the antenna.

The website is still doing well according to Webmaster Earl Oaks.

Activities Manager David Gulley, KI4AAU, informed the club that the Christmas Parade is coming up soon. He also thanked all the members for their help during recent club events.

The club had a discussion about purchasing a post office box. A motion was made by Phil Alley to rent the box. Paul Marcum, AC4QZ, seconded the motion. The motion carried. The fate of the 10 KW Generator owned by the club was discussed as well. It was decided that the club would sell the generator for \$500. This will be as is with no warranty. The bids should be sent to Phil Alley at his email, [ke4ffo@yahoo.com](mailto:ke4ffo@yahoo.com). The club will accept bids until October 10.

Eddie Palmer informed the club that at the October meeting he will bring a service monitor to check out members' radios.

George DeVault made the motion to adjourn the meeting and Eddie Palmer seconded the motion. The motion carried and the meeting was adjourned.

## October Meeting Program

Members should bring your Base, Mobile or HT Radios to the meeting to get checked out. Eddie Palmer, K4JP, will provide a Motorola Service Monitor, Bird Watt meter, Bird Dummy load and Lambda power supply for members to come and check out their FM handhelds and base rigs. He will check transmitter frequency, power output, FM deviation and receiver sensitivity. Have your radios set on 146.520 or 444.500 before arriving and bring your manual.

### KARC Test Sessions

If you need a test session, KARC will set up a session for you. All classes of testing are available. Contact Ed Williams, AC4ED or Earl Oaks, N4ZFA. The testing fee is \$15. This can be paid in cash or by personal check made out to ARRL/VEC. You will need a copy of your current license and a photo ID.

### *Birthdays*

October 17

Jennifer Taylor, KI4TNT

October 28

Jeff Pierce, WD4NMQ

## 10 KW Generator for Sale

10 KW Generator for sale for \$500.00 (AS-IS – NO Warranty)

The club will be taking bids on the generator until October 10, 2010

Please include the following:

YOUR FULL NAME:

PHONE NUMBER:

ARE YOU A MEMBER OF KARC OR BMRC?

YOUR BID IN DOLLARS:

Send your bid to [Ke4ffo@yahoo.com](mailto:Ke4ffo@yahoo.com) (Phil Alley)

The club reserves the right to reject any or all bids. The condition of the generator is no warranty. The generator is mounted on a small trailer.

---

## ARES Marks 75<sup>th</sup> Anniversary

The emergency communications arm of the ARRL is celebrating its 75<sup>th</sup> anniversary between September and December of this year. According to the ARRL Letter, the anniversary date is based on the first mention of an organized amateur radio response organization within the ARRL, which first appeared in QST in September, 1935. The Amateur Radio Emergency Service (ARES) has gone through several variations on its name and initials over the years, but its mission has always been the same – providing communications during emergencies and disasters when normal means of communicating are either disabled or overloaded.

*-CQ Newsroom, Posted September 1, 2010*

## ARRL Comments on FCC Proposal for 5 MHz

The ARRL has filed formal comments on the FCC's proposal to do a channel-swap on the 60-meter band, along with permitting increased power and additional modes. Currently, hams may use five specific channels at 5 MHz with upper sideband only and 50 watts effective radiated power, on a secondary, non-interference basis. The FCC proposal, which came in response to an ARRL petition, would substitute 5358.5 kHz for 5368.0 kHz, which is frequently occupied by its primary (government) user; would permit the requested power increase and permit CW, PSK31 and Pactor in addition to USB. According to the ARRL Letter, the League's comments were generally supportive, recommending only a few further tweaks to the FCC's proposal.

*-CQ Newsroom, Posted September 1, 2010*

## Ham Satellites to be Featured at Air & Space Museum Event

AMSAT is scheduled to show off ham radio and ham radio satellites to the public at a mid-October event at the National Air and Space Museum in Washington, DC. According to the AMSAT News Service, the event is part of the museum's Hispanic Heritage Month celebration and focused on Argentina in air and space. Argentina's first ham radio satellite, LUSAT-OSCAR 16, was one of the earliest packet radio satellites and helped give global reach to amateur packet networks.

*-CQ Newsroom, Posted September 21, 2010*

## Spinning Electrons Could Generate RF

A report in Science Daily says researchers at the National Institute of Standards and Technology (NIST) have found theoretical evidence that electron spin could be put to use generating RF at microwave frequencies that are more secure and less subject to interference than currently transmitters. NIST predicts that a special type of stationary wave called a soliton could be created as part of a multilayered “magnetic sandwich” in which applying an electric current would prompt electrons in that layer to oscillate at frequencies above 1 GHz. The research team predicts that this effect – if borne out by experimental data – could result in oscillators that use far less energy than current devices and that could be have frequency changes so quick that the signals would be difficult to jam or intercept.

*-CQ Newsroom, Posted September 21, 2010*

## Transmitters That Take the Heat

So you think your transmitter runs well in a hot environment? How about operating in 900 degrees C (1650 degrees F)? A team of researchers at Newcastle University in the United Kingdom has developed a silicon-carbide-based transmitter that can be dropped into a volcano or provide data from inside a jet engine, according to a report in Science Daily. Goals include using the device for real-time monitoring of changes in volcanic activity that may help predict eruptions and/or keeping track of conditions inside a nuclear power plant. The group is working on packing the circuitry into a box tha is roughly the size of an iPhone.

*-CQ Newsroom, Posted September 21, 2010*

## Florida Looks into Narrowband Repeaters

The Florida Repeater Council has formally proposed adopting a narrowband repeater bandplan for 2 meters and 70 centimeters, in order to make more frequency pairs available for repeaters. It is proposing adding repeater pairs with 7.5 kHz separation on the part of the 2-meter band that currently has 15-kHz separation between channels, and 10-kHz separation on lower frequencies that currently have 20-kHz separation. The new pairs would be used to accommodate narrow-band modes such as D-pStar and P-25. The council is seeking comment on the proposals. Complete details are available online at [www.florida-repeaters.org](http://www.florida-repeaters.org).

*-CQ Newsroom, Posted September 21, 2010*

### **Interested in placing information in the newsletter?**

Contact Phyllis Maness, KG4DTX

at

[kg4dtx@gmail.com](mailto:kg4dtx@gmail.com)