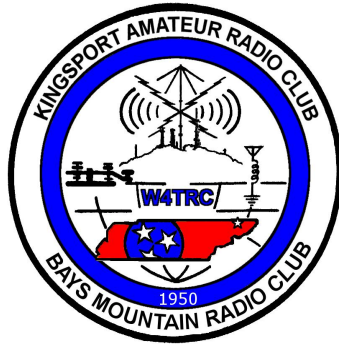


ZERO BEAT

APRIL 2017



NEXT MEETING

Our next Meeting will be Thursday April 13th. 2017
7-PM at the Eastman Toy F. Reid Employee Center,
400 S. Wilcox in Kingsport Tennessee.

Program for this meeting will feature a a discussion on
Yaesu System Fusion technology by George Odem K4ETN.

If anyone is interested in V. E. testing before the meeting
please contact Tom Price KI4CVU 423-429-1500.

SYSTEM FUSION REPEATERS IN TENNESSEE

Being that or talk this month will be on System Fusion here is
the latest list of Fusion repeaters in the State of Tennessee.
There are a bunch! Also more in Va. And N.C.!

145.0400	+1.6 MHz		Knoxville, Bluff Mtn	Sevier	KD4CWB	OPEN	●
145.1500	-0.6 MHz	118.8	Greeneville, Viking Mountain	Greene	K4MFD	OPEN	●
145.1700	-0.6 MHz	114.8	Murfreesboro	Rutherford	KU4B	OPEN	●
145.2100	-0.6 MHz	100.0	Knoxville, Sharp's Ridge	Knox	W4BBB	OPEN	●
145.2500	-0.6 MHz	100.0	Sweetwater	Monroe	W4YJ	OPEN	●
145.4500	-0.6 MHz	141.3	Morristown	Hamblen	KQ4E	OPEN	●
145.4900	-0.6 MHz	100.0	Woodbury, short mt	Cannon	WB4LHO	OPEN	●
146.7150	-0.6 MHz		Hollow Rock	Carroll	KM4TFZ	OPEN	●
146.7900	-0.6 MHz	107.2	Chattanooga, WDEF tower	Hamilton	K4VCM	OPEN	●
146.8650	-0.6 MHz	118.8	Crossville	Cumberland	W8EYU	OPEN	●
146.8800	-0.6 MHz	91.5	Elizabethton, Holston Mountain	Sullivan	WM4T	OPEN	●
146.8800	-0.6 MHz	107.2	Memphis, Clark Tower	Shelby	WB4KOG	OPEN	●
146.9250	-0.6 MHz	114.8	Cleveland, CARC Clubhouse	Bradley	W4GZX	OPEN	●
146.9700	-0.6 MHz	123.0	Kingsport	Sullivan	W4TRC	OPEN	●
146.9700	-0.6 MHz	107.2	Medina	Gibson	WT4WA	OPEN	●
147.0000	-0.6 MHz	100.0	Dupont Springs, Greentop	Sevier	KD4CWB	OPEN	●
147.0150	+0.6 MHz	110.9	Rockwood, Mount Roosevelt	Roane	KE4RX	OPEN	●
147.0300	+0.6 MHz		Bean Station, Clinch Mtn	Grainger	W2IQ	OPEN	●
147.1050	+0.6 MHz	156.7	Lebanon, WJFB-TV Tower	Wilson	WC4AR	OPEN	●
147.1200	+0.6 MHz	CSQ	Sulphur Springs	Washington	K4DWQ	OPEN	●
147.2100	+0.6 MHz	107.2	Jackson	Madison	WF4Q	OPEN	●
147.2700	+0.6 MHz	107.2	Eaton	Gibson	KI4OAS	OPEN	●
147.3000	+0.6 MHz	114.8	Gallatin, Music Mountain	Sumner	W4CAT	OPEN	●
147.3000	+0.6 MHz	100.0	Walland, Chilhowee Mtn	Blount	W4BBB	OPEN	●
147.3900	+0.6 MHz	162.2	Oakfield, Jackson, TN area	Madison	WA4BJY	OPEN	●
442.0750	+5 MHz	110.9	Dayton, Lone Mountain	Rhea	KK4GGK	OPEN	●
442.1000	+5 MHz	100.0	Tellico Village	Loudon	K1AT	OPEN	●
442.5000	+5 MHz	118.8	Gray	Washington	KK4FPB	OPEN	●
442.6500	+5 MHz	100.0	Chattanooga , Lookout Mountain	Hamilton	W4EDP	OPEN	●
442.7250	+5 MHz		Chattanooga	Hamilton	W4EDP	OPEN	●
443.0500	+5 MHz	100.0	Lenoir City, Greenback Community	Loudon	W4WVJ	OPEN	●
443.1000	+5 MHz	118.8	Jonesborough	Washington	K4ETN	OPEN	●
443.2500	+5 MHz		Nashville, Lipscomb University	Davidson	K4LRC	OPEN	●
443.3250	+5 MHz	123.0	Kingsport, Bays Mountain	Sullivan	W4TRC	OPEN	●
443.8500	+5 MHz		Crossville, Fairfield Glade Resort	Cumberland	W8EYU	OPEN	●
443.9500	+5 MHz	118.8	Johnson City	Washington	W4YSF	OPEN	●
444.0000	+5 MHz	100.0	Dupont Springs, Green Top Mtn	Sevier	KD4CWB	OPEN	●
444.1000	+5 MHz	CSQ	Chattanooga, Lookout Mountain	Hamilton	W4AM	OPEN	●
444.1500	+5 MHz		Chattanooga, Falling Water	Hamilton	W4PL	OPEN	●
444.2000	+5 MHz	118.8	Greeneville, Viking Mountain	Greene	K4MFD	OPEN	●
444.2500	+5 MHz	127.3	Lenoir City	Loudon	W4IC	OPEN	●
444.2750	+5 MHz	114.8	Cleveland	Bradley	W4GZX	OPEN	●
444.4000	+5 MHz	107.2	Williston	Fayette	WB4KOG	OPEN	○
444.5750	+5 MHz	100.0	Walland, Chilhowee Mtn	Blount	W4BBB	OPEN	●
444.9500	+5 MHz	118.8	Lebanon, Sparta Pike	Wilson	KM4GHM	OPEN	●

SECRETARY'S REPORT

KARC/BMRC

MEETING MINUTES

Mar 9, 2017

OPENED 19:00 by George DeVault (W3KPT)

Prayer given by John Williams (JK4ZFK)

TREASURY REPORT

David Stevens (WB4DES) reported that the Club has 493.69 in checking and 57744.20 in saving as of Mar 8

SECRETARY REPORT

Rick Johnson(WB4RLJ)reported that Feb meeting held at Bob Evans. No business meeting was conducted Tour of WJHL was conducted before eating

NET REPORT

Rick Johnson (WB4RLJ) reported that he will be NSC for mar 12

REPEATER REPORT

Ken Klotz (W4IJK) reported repeater is working well and the Echolink should be up within a month. ARES REPORT

Walt Baltree (K4YCP) reported that there will be a ARES meeting on Mar24 at 630pm in the Blue Ridge Room at Holston Valley.

OLD BUSINESS

The Kingsport 100 QSL cards will signed by the people making the contact then mailed. NEW BUSINESS

Welcome to the new Ham Liz Burns

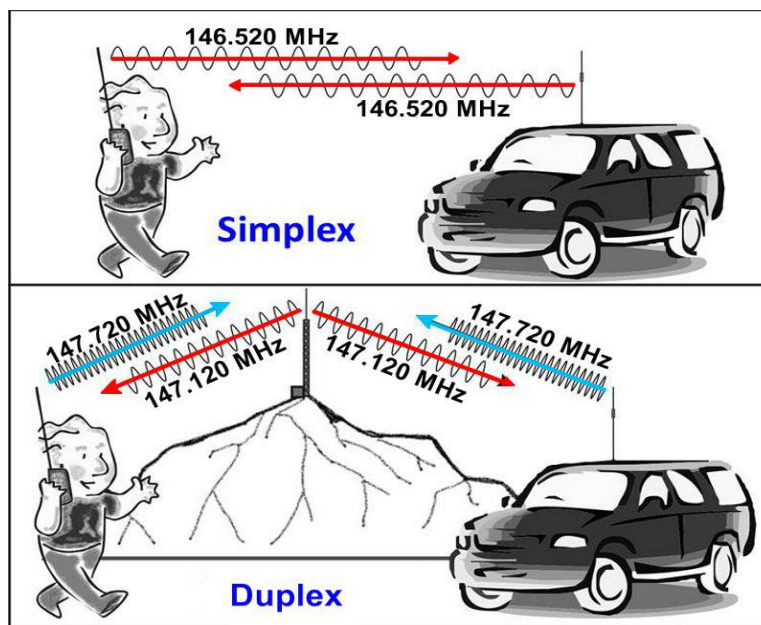
Meeting closed by George DeVault (W3KPT)

Red Cross program

REPEATER DISCUSSION SERIES

Starting out, just what is a repeater and how does it work?

Let's begin by looking at one way or simplex transmission. When we turn on our AM – FM radio we receive a one way transmission. One transmitter is broadcasting and every one else is “listening”. This is the same for “Simplex” two way radio I that one unit (should at a time) be transmitting and the others receiving. See the example at the top of the diagram below. A single frequency is employed.



Now look at the lower example. This is a typical repeater application. Everyone is “listening” on the frequency of the repeater “output” (in this case 147.120 Mhz) and when someone wants to transmit they do so on what is the repeater “input” frequency (in this case 147.720 Mhz). Also ideally it is wanted that only one “user” at a time be transmitting.

When more than one attempt to transmit at a time it is referred as “doubling” and on the receive end, be it the repeater or in simplex the “listeners” receivers, the stronger signal usually “wins”.

This all will be too simple and lame for many of you but to the newcomer it may be helpful. But anyway this is basically “it”. Talking through a repeater is simply listening to the repeater output while others transmit into the repeater on a different frequency. Although this is referred as “Duplex” it is actually more correctly called “semi-duplex” as every user is either talking or listening, not both at the same time. Full duplex where two or more and both talk and listen at the same time is true Full Duplex. Your Cell phone is true full duplex, but that is another discussion on just how that works.

Next month we will look at the physical components that make up a typical HAM repeater and how they work together.



Radio Ham and Eggs breakfasts – see calander!

EVENTS CALENDAR

APRIL

13th. KARC BMRC Meeting 7 PM.

15th. Saturday Radio Ham and Eggs Breakfast 10AM at Perkins in Colonial Heights.

26th. Radio Ham and Eggs Breakfast at Bob Evans in Johnson City 10AM.

MAY

3rd. Radio Ham and Eggs Breakfast Randall's restraurant in Church Hill 10AM

11th. KARC BMRC Monthly meeting 7PM

13th. Radio Ham and Eggs Breakfast 10AM at Perkins in Colonial Heights.

19th. 20th. And 21st. Dayton Hamvention !!!

24th. Radio Ham and Eggs Breakfast at Bob Evans in Johnson City 10AM.

NET - Every Sunday at 20:30 (8:30pm) 146.970 rptr. !!

SWAP AND SHOP

Ken has a 15" VGA computer monitor - .28 dot pitch - lightly used in excellent condition \$0.01 (one cent) (no foolin'). Also a 13" color TV (analog) lightly used also and in great working condition \$0.01 (one cent) (also no foolin'). Certainly someone could use these! See Ken W4IJK after the club meeting.

To list items in the newsletter please send the details to: Ken W4ijk at w4ijk1@gmail.com TNX.

VISIT W4TRC.ORG !!

please submit material for the ZERO BEAT to: Ken, w4ijk1@gmail.com

73

THE ZERO BEAT NEWSLETTER

Published monthly by the Kingsport Amateur Radio Club and Bay's Mountain Radio Club. For more information on the Zero Beat, please contact : Ken Klotz at W4IJK1@gmail.com

W4TRC 146.970 MHz REPEATER INFORMATION:

Location is on Bays Mountain, Kingsport, TN

2 Meter repeater: 146.970 MHz, (-) PL Tone, 123.0 Hz. Or C4FM

440 Repeater: 443.325 Mhz. (+), PL Tone, 123.0 Hz. Or C4FM

33Cm. Repeater: 927.025 Mhz. (-) PL Tone 123.0 Hz.

50-watt Packet Station Frequency, 145.050 MHz, and the Alias is BaysND.

Sunday Night Informational Net on 146.970 at 8:30 P.M. EST

For More Information on the KARC/BMRC and Amateur Radio,
Visit our Club Website at www.w4trc.org

For More Amateur Radio News, Visit the American Radio Relay
League Website at www.arrl.org

Kingsport/Bays Mountain Radio Clubs' Officers 2015

Larry Dale: KD4FTN, KARC/BMRC President,

George De Vault Jr.: W3KPT, Vice President

Rick Johnson: KM4LZF, KARC Secretary

Dave Stevens: WB4DES, KARC Treasurer / BMRC Treasurer, Secretary

Ken Klotz: W4IJK Club Repeater License Trustee

Rick Light: KG4WZG, BMRC Vice President

Web Site: www.w4trc.org

A.R.E.S.

Walt Baldree, K4YCP, West Sullivan County ARES® Coordinator