

The RCARC Beacon

“Uniting The World Through Amateur Radio”

Repeaters sponsored by RCARC on Roosevelt Mtn.
KE4RX/r 147.015 + (pl 110.9) Roane County ARC
KE4RX/r 443.975+ (pl 110.9) Roane County ARC
K4EAJ/r 147.120 + (pl 82.5) Morgan County ARC
AC4DR/r 224.840 (pl 88.5) David Rogers AC4DR



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Roane County Amateur Radio Club

Visit the club website at www.ke4rx.org

RCARC Meeting :June 12th, at 7 pm. Roane County Rescue Sqd in Midtown.

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Welcome to the RCARC Beacon!!

Hello Everyone!!

This Thursday is the June Meeting for The Roane County Amateur Radio Club in The Roane County Rescue Squad building in Midtown TN. Try to make it if you can! We have 2 big items on the agenda.

Roane County VE Team offers Ham Radio Exams

The Roane County VE Team offers ham Radio Exams on every even numbered month at the Trenton Street Baptist Church in Harriman at 9 am. If you are interested in scheduling a HAM radio exam, get in touch with Jim Dalton K4FPG or Keith Dalton WV4G to make arrangements.

Send E-mail to:

Jim Dalton :jsdaltonk4fpg@att.net

-Or-

Keith Dalton:wv4g.keith@gmail.com

What they need is your name, the date you want to take an exam and your phone number for them to be able to contact you.

*The next exam is on **June 14th** by appointment.
Good Luck!!.*

First ,Camp Buck Toms Boy Scout Merit Badges. RCARC along with several other HAM Radio Groups has volunteered to help the scouts at Buck Toms ear their Communication and Electronics Merit Badges. We only have a few volunteers so far and need more. Please Consider Helping. Last month Applications for Scout Leaders were passed out. Phil KE4LSH needs these back Thursday night so he can get them to the council in Knoxville in time for our week which is June 23 - 27th 2014. Please consider helping with this project. The scouts have always been very appreciative in the past.

Second, we have Field Day!! Field Day is Saturday 6/28/14 about noon to setup through Sunday 6/29/14 about noon to take down. RCARC will be setup at Fort Southwest Point again in Kingston at the pavilion behind the baseball field. Everyone come on down and have some fun. As always the public is invited!!

73, Jim White K4APY

Www.ke4rx.org

On Facebook: The Roane County Amateur Radio Club

Meet the Roane County VE Team!!



(Left to Right) David Rogers AC4DR, Mike Winters AG4OT, Jim Dalton K4FPG, Buddy Miles K4CPF (certified pipe fitter!!) and the VE Team Leader Keith Dalton WV4G. They are always ready to answer any ARRL Testing related questions and to schedule an exam. Exams are offered on the second Saturday of every even numbered month at 9:00 am By Appointment at the Trenton Street Baptist Church in Harriman, TN. E-mail Keith for more information or to schedule your exam. Wv4g.keith@gmail.com

New Format

I've been working on a new format for the newsletter. Having trouble getting it to work right so hopefully in a couple months this thing will have a new look. If you have an article for the Beacon be sure to send it to me. I can use all the help I can filling this up!! C-ya

Jim
K4APY

Are you an ARRL Member?

The American Radio Relay League **ARRL** is our supporting organization to help give us a voice in the FCC and work toward protecting our frequencies from threats by other commercial services. They also manage and operate many of the contests we enjoy and provide a QSLcard forwarding service many take advantage of. They have a very good monthly magazine to members called QST that is chocked full of information and many other valuable services. Or club is also sanctioned by The ARRL as well. Please consider joining the ARRL and see what it has to offer! [Www.arrl.org](http://www.arrl.org)

2014 RCARC Officers

President: Phil Newman KE4LSH
newhayes@juno.com

Vice President: Harry Tirrell
W1LQU htirrell@tirrell.org

Secretary: Ed Smith K5QPO
edosumis@yahoo.com

Treasurer: Jim White K4APY
k4apy@arrl.net

Check Out The RCARC Website
WWW.KE4RX.ORG

Regional Hamfests
(Within 100 Miles)

06/14/2014
Knoxville RACK Hamfest
Knoxville, TN.
8:30 – 4:00
Www.w4bbb.org

9/20/2014
8:00 AM.
The Sweetwater Tailgate
Hamfest
Sweetwater, TN.
Www.w4yj.com

10/25/14
Chattanooga Hamfest
Chattanooga, TN.
8:00 - ?
Www.chattanoogahamfest.org

Join The ARRL
Today!
Www.arrl.org

ROANE COUNTY VE INFORMATION

The Roane County Amateur Radio ARRL Volunteer Examiner (VE) Testing Team provides the following information.

First time test candidates need to bring to the test session:

- 1) a photo ID,
- (2) Social Security Number, and
- (3) \$15.00 test fee.

Please bring correct change. Test fees are subject to change as directed by the ARRL.

If you are planning to upgrade to a higher class license, or modify your license in any way, bring:

- (1) a copy of your current license which we are required to send in with the paperwork,
- (2) a photo ID,
- (3) your FRN* or Social Security Number, and
- (4) \$15.00 test fee.

If you have just passed an Amateur test for the first time, you can normally find your new call sign posted on the ARRL data base at <http://www.arrl.org/advanced-call-sign-search> or the FCC data base at <http://wireless2.fcc.gov/UlsApp/UlsSearch/searchLicense.jsp> by Friday of the week after your test. Once you see your call sign posted, you can legally get on the air on any frequencies assigned to your class of license.

The Roane County Amateur Radio Club meets on the second Thursday of each month in the United Way Conference Room in the Roane County Rescue Squad Building at Midtown at 7:00 PM. We encourage you to join the Club and participate in its activities. Additional Information about the Roane County Amateur Radio Club can be found at: www.ke4rx.org/

The Roane County Amateur Radio Club has a Net each Monday night, except on major national holidays, at 8:00 on the Club's KE4RX repeater. The repeater frequency is 147.015+ with a tone of 110.9. The backup repeater for KE4RX is K4EAJ, 147.120+ with a tone of 82.5.

The second backup repeater is WD4ORB 147.330+ toned at 82.5. The AC4DR/r repeater 224.840+ toned at 88.5, is also available for Amateur use.

The Roane County Amateur Radio Emergency Service (ARES) Net is called each Tuesday evening at 8:00 on K4EAJ 147.120+ repeater with a tone of 82.5, except on the third Tuesday of the month when the monthly meeting is held at 7:00 in the Roane County EOC at Kingston. The backup repeaters for K4EAJ are; KE4RX and if needed WD4ORB.

Amateur radio tests are given on the second Saturday of even months, i.e. Feb, Apr, Jun, etc. by appointment only. A VE testing team member must be contacted prior to the scheduled Saturday or the team will not be at the test location. Applicants should have studied from the current license study guide for the license class they will be tested.

Roane County VE team members are:

Keith Dalton, (Team Leader) WV4G: wv4g@arrl.net or wv4g.keith@gmail.com Phone: 931-261-4599

Buddy Miles, K4CPF: jbuddymiles@msn.com Phone: 865-376-7842

David Rogers, AC4DR: ac4dr@arrl.net Phone: 865-435-0159

Mike Winters, AG4OT: preachermike@comcast.net Phone: 865-883-9350

Jim Dalton, K4FPG: k4fpg@arrl.net or jsdaltonk4fpg@att.net Phone: 865-882-2639

Tests are given in the Fellowship Hall at Trenton Street Baptist Church in Harriman at 519 Trenton Street. Coming through downtown Harriman on US 27 (Roane St.) turn East at traffic light # 7, go one block on Queen St., turn left on to Trenton Street, then immediately left into the church parking lot. Signs will direct you to the Fellowship Hall.

*First time license applicants are allowed to use their Social Security (SS) number on Form 605, however after that, if an applicant needs to modify their license in any way, they must use an FCC Registration Number (FRN). The FRN uniquely identifies an applicant in all future transactions with the FCC, and avoids the need to continually provide a SS number on application forms. You can obtain your individual FRN from the FCC by going to the following FCC website: <https://fjallfoss.fcc.gov/coresWeb/publicHome.do>

RCARC Net News!

The Roane County Amateur Radio Club net is back on 147.015+ pl 110.9 each Monday evening at 8:00 pm except on major holidays (Those where US Mail is not delivered). Join us every Monday evening for a great informal 2 meter net!!

Net Controller Schedule:

First Monday night : Bill White KK4AGX

Second Monday Night: David Rogers AC4DR

Third Monday Night: Cliff Segar KD4GT (Note Change)

Fourth Monday Night: Jim White K4APY (Note Change)

Fifth Monday Night and Alternate: Jim Dalton K4FPG

Roane County ARES/DEC nets are every Tuesday on 147.120 pl 82.5 at 8:00 pm except the third Tuesday which is the monthly meeting at The Roane County EOC , 230 N. 3rd Street in Kingston, TN. Roane County ARES welcomes anyone interested in emergency communications and training. Contact Bill Farnham **KI4FZT** for more information on ARES/DEC bfarnham@utk.edu COML (Type III All Hazard Comm Unit Leader)**Division of Emergency Communication Roane County Office of Emergency Services & Homeland Security**

June 2014

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2 Mon Night Net 147.015 8:00 PM	3 ARES/DEC Net 147.120 8:00 PM	4	5	6	7
8	9 Mon Night Net 147.015 8:00 PM	10 ARES/DEC Net 147.120 8:00 PM	11	12 RCARC Meeting @ RC Rescue Squad 7:00 pm	13	14 RCARC VE Exam E-mail Keith WV4G.keith@gmail.com RACK Hamfest in Knoxville
15	16 Mon Night Net 147.015 8:00 PM	17 ARES/DEC Net 147.120 8:00 PM	18	19	20	21
22	23 Mon Night Net 147.015 8:00 PM	24 ARES/DEC Meeting @ EOC 6:30 PM	25	26	27	28 Field Day at Southwest Point in Kingston!
29 Field Day at Southwest Point in Kingston!	30 Mon Night Net 147.015 8:00 PM	July 1 ARES/DEC Net 147.120 8:00 PM	2	3	4 Independence Day!!	5
6	7 Mon Night Net 147.015 8:00 PM	8 ARES/DEC Net 147.120 8:00 PM	9	10 RCARC Meeting @ RC Rescue Squad 7:00 pm	11	12

Easy 2 meter portable antenna project

This is a 2 meter portable antenna project similar to one I saw in a CQ-VHF magazine I got when I first got my license. This little antenna is only $\frac{1}{4}$ wave and light weight, but very handy for a quick antenna to toss up in an emergency and I have found it to be very effective using repeaters. It doesn't have any gain, but is easy to build and anyone should be able to make one. The one I made was out of an SO239 and some #12 THHN Copper wire.

The vertical radiator (A) should be soldered to the center connector of the SO239. .

The four base radials (B & C) and (D & E) can be soldered or bolted to the SO239 mounting holes. The four base radials then should be bent downward to a 45 degree angle. (Use stainless hardware if using bolts)

The antenna can be mounted by clamping the PL259 to a mast or even passing the coax through a 3/4 ID PVC pipe and compression clamping the PL259. I added a loop to the top of my radiator to tie a rope to so hoisting into a tree was very easy.

Either way be creativity and see what works best for you. If you plan on mounting it outside, apply RTV or sealant around the center pin and PL259, and tape well, to keep water out of the coax.

Make each radial a $\frac{1}{4}$ wave of your desired xmit frequency. Sometimes it helps to add a little extra length to the radials and radiator. This will give you some adjusting room when you adjust the SWR.

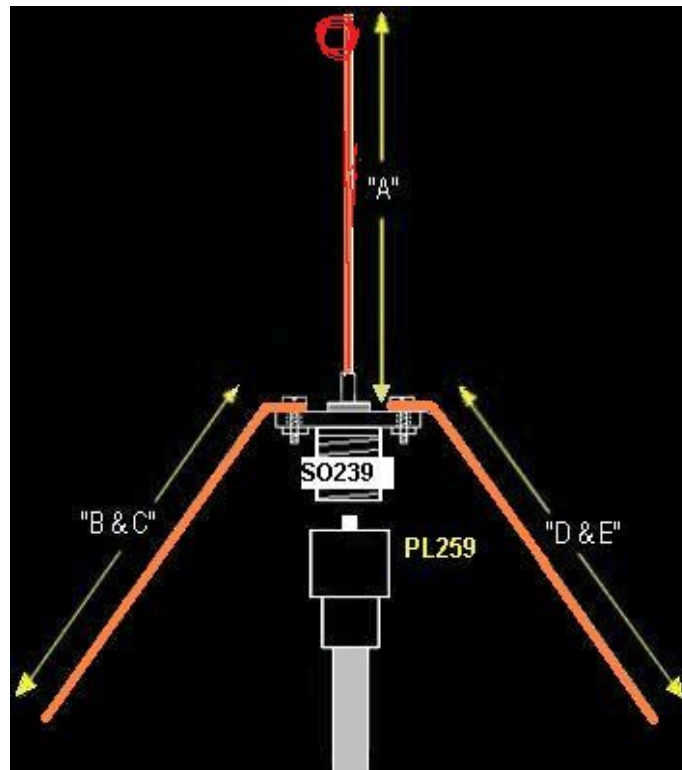
(If adjustment is needed, clip all radials equally about $\frac{1}{8}$ inch at a time while checking SWR, USING LOW POWER). Center the lowest swr on your transmit operating frequency.

LENGTHS FROM FORMULA ($234/\text{FREQ MHZ} = \text{Length of element in feet.}) + 5\%$ LONGER FOR RADIALS

Freq (mhz) 146

A (inches) 19.23 (Note "A" length is to the SO-239 insulator but not critical)

B THRU E (INCHES) 20.19



RCARC Photos

RCARC May 2014 Meeting



Great Turnout at the RCARC May Meeting!!



Cody Anderson KI4FUV, Harry Tirrell KB4AA, Cliff Segar KD4GT and a Visitor gearing up for the meeting.



Don Coffman KJ4VWE and Bill Farnham KI4FZT .



Phil Reams KC4UVU, Norm Burns KK4YEU and Lee Grace KM4AKE at the RCARC May Meeting!

Join RCARC Today!! Learn How on www.ke4rx.org

RCARC Classifieds

Bag Style Cell Phones for sale: I have 4 of these older bag style cell phones. I don't think anyone will activate them anymore, but would be good source for parts for projects I am sure. Asking \$20 each or \$50 for all 4.
Contact Jim K4APY@arrl.net for more info.

RCARC has ebroidered club logo patches for sale. These are high quality Iron on / Sew On 4" diamter patches. Great for a jacket or shirt. \$4 /each or 3 / \$10. See Phil KE4LSH or Jim K4APY . newhayes@juno.com for more information/

RCARC Has several 500Gb SATA hard drives for sale. These have been removed from service and have been tested by Sterling N4VAV to be working. Hitachi Deskstar Model 118032497 and Seagate ST3500641NS \$10/each E-mail Phil for more information.
newhayes@juno.com or Jim k4apy@arrl.net

Harry Tirrell KB4AA has the following for sale. All Proceeds will benefit RCARC.

- ⌚ FAA VHF amplifier AM-6154/GRT-21 : Condition unknown. Articles are on the internet on turning this into a 2 meter amp.

Contact Harry for more information on pricing and purchasing this merchandise.
865-285-9211

If you have something to put on the RCARC Classifieds send it and a photo if available via e-mail to Jim K4apy@arrl.net

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