



WCARS.org
July 2012

The Official Publication of
The Western Carolina Amateur Radio Society, Inc

President's Microphone

I can not stress enough the importance of our Hamfest so hang with me one more time.

Setup and Operational help is needed. If you attend the dinner please bring 2 dishes (with food) ... this is a must please!

I know it is a hardship do what you can and I will say no more till next year except thanks and the club thanks you

See you there!

Thanks much,

Scott

Meeting Minutes for July 5, 2012

(A meeting of the WCARS Executive Committee preceded the regular membership meeting)

The July 5, 2012, meeting of the Western Carolina Amateur Radio Society was called to order at 1931 hours EDT by Scott W4IYS, WCARS President.

He welcomed everyone and invited everyone to join him in the Pledge of Allegiance. He then asked everyone to introduce themselves giving their name, call sign (if any), and QTH.

The Minutes of the June 2012 meeting were published in SMOKETEST (WCARS newsletter).

**Meeting for August is on the 9th
W. Asheville Library
7:30 PM**

INCLEMENT WEATHER NOTE

Club meetings are subject to the following:

Should Buncombe County offices close due to inclement weather, the library will close. If that happens, our meeting will be canceled.

BC-ARES

By Carl Smith, N4AA, EC Buncombe County

We have not had a face-to-face meeting for a few months with all of the other activities going on. I will make plans to have a meeting for July 19th at EOC. I have to schedule this with the folks at EOC, but that is not usually a problem. I will send email to all of those I have records for later this week.

There will be an ARRL/ARES forum at the Hamfest. This will be around 10-11 on Saturday morning. Both our Section Manager, Bill Morine, N2COP and the Roanoke Division Vice Director, Jim Boehner, N2ZZ will be there. As part of this forum, the annual presentation of the KB4C Miriam Smith Memorial Award will be made. I invite all of you to attend the forum and show your support for both Bill and Jim.

Meeting Minutes for July 5, 2012

KE4KPU was on hand working on an article on ham radio for a September issue of MOUNTAIN EXPRESS.

The Treasurer's Report was given by Steve Emory N4SET. The report was received with thanks.

Scott reported the purchase for the Club of four antenna extension masts for use in future events. The masts collapse into short units for easy storage and easy erection when needed. Scott showed a sample name badge with the WCARS logo. Orders for personal badges for members can be made at the Hamfest at the vendor's booth.

Scott announced that the Hendersonville ARC will be holding a swapfest on July 7.

Scott reported that the special call for the Mountain State Fair activity will be "N4F" to be held at the Ag Center September 9-16, 2012.

Members are asked to respond to an email coming that asks if they have any objections to having their name, call, address, etc. published in SMOKETEST (WCARS newsletter). If a member has no objection, the information will be published for the benefit of other members. Members are asked to advise if any information is **NOT TO BE PUBLISHED** on any list published by WCARS.

Carl Smith N4AA reported the totals for Field Day 2012: 80meters = 26 contacts SSB, 40m = 500 contacts (CW via Carl), 20m = 300 CW, 25 SSB, 15m = 15 SSB, 10m = 3 SSB, 2m = 3. One young man under the age of 18 made a contact which gave youth bonus points to the event. Last year the club made approximately 4600 contacts, this year approximately just over 5000 contacts. Everyone who helped were thanked for their support and work.

Meeting Minutes for July 5, 2012 (continued)

A suggestion was made that a copy of the band plan for all license classes be printed and placed at each operating position so new operators can refer to it when needed.

An updated list of commercial vendors planning to come to the Hamfest was announced. The Hamfest chairman passed around a sign-up sheet for members to volunteer for hamfest day/time slots.

Norman Harrell N4NH reported that Randy became an Extra Class recently. **APPLAUSE!**

Norman will be lining up new code classes to start around the first of September. He recommended that folks obtain a key/oscillator or a "clicker" to help in the practice.

Norman announced that the new EXTRA class exam is now in print after several revisions/updates. It was announced that Duke W4DK of the Hendersonville club is planning to start a class in September.

The Shut In Trail event is set for the first Saturday in November (Nov. 3).

The 50-50 drawing was made and awarded. The club hat ticket was drawn and was awarded.

The meeting adjourned at 2038 EDT with refreshments and fellowship following.

Submitted by Bob Dockery WD4CNZ
WCARS Secretary

Executive Committee Meeting Minutes for July 5, 2012

Here are the notes from the Executive Committee Meeting:

- \$100 limit to the Road Show Club for all of WCARS requested support (QSL cards & Certificates) and not \$100 for each item.
- QSL cards and certificate requests should be made to WCARS
- WCARS will need a copy of the logs
- No purchase of any QSL cards or certificates until a final total is figured after the event
- 4 - 30 foot telescoping antenna masts (Channel Masters) were approved for purchase
- tripod(s) need would be evaluated at a later time to see if it is really needed
- Hamfest prizes were discussed: buying online at HRO or Gigaparts or if a Hamfest dealer was within \$15 to \$20 of the online price to buy from the local vendor.
- Was agreed to buy from the Hamfest vendor if the price was close.

Submitted by Paul - KK4BRD

NC Mountain State Fair

There will be a special event station—N4F at the NC Mountain State Fair September 9 - 16th.

The clubs in Hendersonville, Waynesville and Spruce Pine will be supporting the station; WCARS has been asked operator support as well.

If you are interested in helping at the special event station simply attend the fair and locate the station.

Field Day 2012

Here are the results of Field Day:

Band	# of Contacts	Operator(s)
2 M	3	Paul KK4BRD, Tony KJ4CRO
10 M	3	Randy KI4VLW
15 M	85	Elwood KN4ST, Tonya WD0VDK, Max KE4KPU
20 M Vox	37	John AC4JK, Aaron N4ANE
20 M CW	300	John AC4JK
40 M Vox	14	Aaron N4ANE
40 M CW	500	Carl N4AA
80 M	76	Marc KG4OPM

Total Contacts:

800 CW
167 Vox

WCARS and BC-ARES would like to extend a special thank you to WA4GTT - Jerry Vehann for allowing the use of the facility, equipment and personnel to support the equipment, and his continued support of Amateur Radio in our community. And to Roger K14FPC for the fantastic meal and Steve N4SET for setup, helping out and closing down the event. Thanks to all who participated and supported Field Day! - Paul - KK4BRD

FIELD DAY- Carl Smith - N4AA

Although I have not had time to finalize the numbers I know that we did better than last year. This was thanks to a lot of hard work by a lot of people. I won't try to call names as I'm sure to miss someone and that would not be fair at all. I'll just say THANK YOU to everyone who was there. Your very presence at the site made it worthwhile.

WCARS / VEC Exam Schedule

Asheville - AB-TECH, Rm 134, Elm Bldg

**9:00 AM on the THIRD SATURDAY of:
January, April, July and October**

VE Team Leader: Bob Helton - KS4FX
Phone: 828-684-0249

**2:00 PM on the THIRD SUNDAY of:
February, May, August and November**

VE Team Leader: Steve Lankford - AG4BY
Phone: 828-768-2141

Burnsville - Yancey County Library

Contact:

VE Team Leader: David McCarty - W4TDM
Phone: 828-657-1044

Marion

Contact:

VE Team Leader: Harriet Fullbright - K4ICU
Phone: 828-291-7521

Rutherfordton - Isothermal College

Contact:

VE Team Leader: Bruce Tessineer - AD4OJ
Phone: 828-657-5464

Waynesville

Contact:

VE Team Leader: Al Sanders - WD4A
Phone: 828-926-8244

Weaverville - Reems Creek FD

9:00 AM on the First Saturday of:
April, July, October and December

VE Team Leader: Harley Bullman - AJ4PI
Phone: 828-645-0889

**For other locations contact:
Norman Harrill
N4NH@arrl.net / 828-253-1192**

From the Editor

I enjoyed Field Day, although Tony and I did not make a lot of contacts, it is just good to get out and do an event and get some socializing in as well.

Having read some of the comments in the Mountain Xpress article (if you did not see it here it is:

<http://www.mountainx.com/article/43719/Photos-WCARS-keys-up-the-mic-for-ham-radio-Field-Day>)

The comment about none of the equipment being EMP proof although accurate shows the lack of understanding held by many who have been swept up in the EMP disaster scenario. While yes EMP is a scenario that we should be aware of it is however not the only role and function of Amateur Radio, as illustrated in this edition of the ARRL Newsletter. While reacting in a disaster situation is what Amateur Radio has become known for it is important not to forget that it is not always about the next disaster. There is an element of this that is a hobby, and as such it tends to get overlooked. If you haven't already made up your mind about coming to the Ham-fest, you should come out and visit talk to the other members of the club and have fun.

Just a reminder to WCARS members that the WCARS information net is held every Monday at 9 PM all are welcomed to call into the net.

And on Wednesday nights at 9 PM BCARES net is held, members are encouraged to call in and participate. If you are monitoring and the net is not called after a couple of minutes have passed with no one starting the net; you are encouraged to call the net and make a log of call ins. This is good practice in case there is a real emergency where the usual operators are not able to call the net.

If you have something you would like to send to Smoke Test please send it to kk4brd@gmail.com.



Elwood - KN4ST and Randy - KI4VLW during Field Day 2012

For more photos see:

<http://www.mountainx.com/article/43719/Photos-WCARS-keys-up-the-mic-for-ham-radio-Field-Day>

CW Class

There will be a code class beginning tentatively in September.

Preliminary numbers for the class show approximately 20 people.

Norman - N4NH suggested getting a key in advance of the class. Randy - KI4VLW has confirmed that Ham World Inc. who will be at the Hamfest will have the MFJ straight key for \$39.00; this is the key that Norman recommends getting.

If you are interested in taking the code class contact Norman at n4nh@arrl.net.

Name Badges

Bill Harmon - AF4WP will be at the Hamfest with his engraving equipment to make name badges. Bill is a local vender and operator from Waynesville.

His prices for 1—26 badges is \$7.00 with a magnetic backing (not a pin).

Visit www.harmonwoodworks.com to see the color selections available and for contact information regarding special requests.

If you are needing a new badge or need an extra come out and support Bill.

Regional Hamfests

8th Annual MCARC Hamfest

When: July 21st

Where: Athens Regional Park

Decatur Pike (State Route 30)

Athens, TN

Talk-in: 147.060 / 145.150 (both PL 141.3)

Covington Georgia Hamfest

When: July 21st

Where: Newton County Radio Club

3183 Mill Street

Covington, GA

Talk-in: 146.925 (PL 88.8)

Mid-Summer Swapfest

When: July 21st

Where: Ritter Park

301 West Lochmere Drive

Cary, NC

Talk-in: 146.88 -0.6 (no PL)

14th Annual Cape Fear ARS Swapfest

When: August 4th

Where: Methodist University / Reeves Auditorium

5400 Ramsey Street

Fayetteville, NC

Talk-in: 146.910 (PL 100)

Roanoke Hamfest

When: August 4th

Where: William Byrd High School

2902 East Washington Avenue

Vinton, VA

Talk-in: 146.985 (PL 107.2)

Hamfest 2012

Update by Randy - KI4VLW and Paul - KK4BRD

Vendors that are confirmed to attend the Hamfest are:

AC/DC Electronics
DEBCO
DBJ Electronics
TAW Electronics
Ham World
The Wireman
Satellite Sam

We always need people to help both Friday (setting up) and Saturday. I need someone to be in-charge of the Pole Barn to collect fees and assign spaces. Please contact Randy - KI4VLW at 828-298-6685 or e-mail rtsp71@aol.com.

WCARS will be providing a dinner Friday night those wishing to attend should bring 2 covered dishes.

A volunteer sign up sheet to help out at the Hamfest will be at the next meeting. We really need the support of the club to do this so please if you can help sign up.

WCARS Hamfest is Saturday July 28th, at the Haywood County Fairgrounds—758 Crabtree Road, Waynesville.

The gates open at 6 AM and doors open at 8 AM.

Talk-in is available on the WCARS repeater (W4MOE, 146.910 minus, 91.5 pl tone) and on HCARC repeater (N4DTR, 147.390 plus, 94.8 pl tone).

Advanced ticket price is \$5.00
At the gate ticket price is: \$7.00

Ham World Inc, will have MFJ straight keys on sale for \$39.00. These are the keys that Norman recommends getting for the class.

There will also be VE Testing at the Hamfest for anyone wishing to take an upgrade test or wants to get their Technician license. Remember for those who are upgrading to Extra, that the new tests are now in use!

We need a count of how many people are going to help out so we can get enough food for lunch, this year will be steaks, potato salad, baked beans and dinner rolls. Please contact Randy ASAP!

Hamfest flyer is at back of Smoketest.

Information Disclosure Request

There have been several requests by members of WCARS for a complete Membership Roster including address, phone and email address.

While this is not a problem for most members; some members have specifically requested that their information not be published.

If you do not want to be included in the Membership Roster you will need to contact any of the following officers of WCARS:

Scott - W4IYS - esmcabe@charter.net | 828-252-0583

Steve - N4SET - n4set@arrl.net | 828-658-0261

Paul - KK4BRD - kk4brd@gmail.com | 828-712-0477

Submissions can be made in writing to:

**Western Carolina Amateur Radio Society, Inc.
PO Box 1488, Asheville, NC 28802**

You must submit your request within 30 days of this publication, failure to submit your request will result in your information being published in the Membership Roster.



The ARRL Letter

Materials in the ARRL Letter are taken from The ARRL Letter online, full credit is given to The ARRL Letter and the American Radio Relay League, as per republication guidelines require.

<http://www.arrl.org/arrlletter>

Colorado Hams Provide Disaster Communications During Wildfires

07/05/2012

Thanks to an extremely dry season, portions of Colorado have been ravaged by wildfires. As of July 5, only a handful of the fires are considered extinguished or fully contained, with the majority considered still active. According to InciWeb, almost 170,000 acres are affected by 11 active fires. Since June 9 -- when the High Park Fire, the first of the wildfires began -- hams in Colorado have been assisting with disaster communications, providing communications support to the State and served agencies.

Randy Long, K7AVV, of Masonville, told the *Denver Post* in an article published June 14, that beginning June 10, he “he has been managing operators staffing eight-hour shifts around the clock. [The hams have been] doing such things as setting up portable radio repeaters and relaying messages between the fire lines and command posts. About 40 operators have volunteered [to help provide communications support].”

Along with Long, Robert Wareham, N0ESQ and a handful of ARES volunteers reported to the National Guard Armory in Fort Collins as the High Park fire encircled the Buckhorn and Horse-tooth mountains, the sites for some of the public safety communications towers for Larimer County. “These are the kind of things we train for day in and day out,” Wareham told the *Denver Post*. “We just want to keep the people in this county safe.” The paper reported that there are about 50 repeater sites located in the mountains.

Shortly after the High Park broke out, radio amateurs in Estes Park and Fort Collins were called upon to help provide communications support to the American Red Cross. Hams set up antennas and a crossband repeater to provide communications from Red Cross Headquarters in Estes Park to their facilities at the fire base, as well as to a Red Cross evacuation center that had been set up at a local high school.

ARRL Colorado Section Manager Jack Ciaccia, WM0G, and ARRL Boulder County Emergency Coordinator Allen Bishop, K0ARK, were returning from the High Park Fire on June 26 when they were notified that Boulder County Office of Emergency Management had activated ARES for another fire, the Flagstaff Fire. According to Ciaccia, a lightning strike had hit just west of Boulder, causing a 20 acre that had spread to 230 acres in only 30 minutes, due to high winds.



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Colorado Hams Provide Disaster Communications During Wildfires (continued)

“The Boulder Office of Emergency Management wanted Boulder County ARES (BCARES) positions manned at the Emergency Operations Center,” Ciaccia told the ARRL. “They also wanted to send additional operators to video positions and set up packet and voice communications at a local school noted, as it would serve as the evacuation center. We set up a resource net on the local Boulder Amateur Radio Club repeater and assigned a Net Control Station to set up there.”

Ciaccia said that within one hour, ATV hams with BCARES had a video camera set up, while other hams at the evacuation center team had set up packet communications, providing data and video, as well as 2 meter FM voice communications. “Another net was up and running simultaneously on our operations repeater, with another Net Control Station working at the EOC,” he explained. “Other portable video positions were fully operational by the end of two hours. Our live video feeds were up on the huge video screens at the EOC, allowing the entire emergency staff to see helitankers and US Forest Service bomber aircraft making fire retardant drops. They could also see the fire live from the backside, which was not otherwise visible without our portable ATV teams live video feeds. When the Type I federal fire teams showed up to determine whether the fire would escalate to their level, they noticed the live video feeds at the EOC and made special trips to our field video sites. They were unaware that a TV resource was available that could be used for their purposes and were quite pleased at that capability and wanted us to continue operations if it escalated to a Type I.” The fire never grew beyond 300 acres and it remained at a Type II level.”

“The served agencies -- the Boulder County Sheriff’s Office and their Office of Emergency Management -- were extremely pleased that we responded so fast and so well,” Ciaccia told the ARRL. “Joe Pelle, the Boulder County Sheriff, made it a point to stop by and thank us, as did Mike Chard, the Director of the Boulder Office of Emergency Management.”



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California Ham Cited for Opening Unlicensed Radio Station

07/02/2012

On July 2, the FCC issued a *Notice of Apparent Liability for Forfeiture and Order (NAL)* in the amount of \$17,000, accusing Brian R. Ragan, KF6EGI, of Suisun City, California, of “apparently willfully and repeatedly violating” the Communications Act of 1934, as amended by operating an unlicensed radio transmitter on frequency 104.9 MHz and failing to allow an inspection of his station by FCC personnel. The Commission said that Ragan, “as a licensed Amateur Radio operator for at least six years, should be aware that any radio equipment at his station must be made available for inspection at any time when requested by the FCC, and also should be aware of the proper operation of his amateur station in accordance with the Rules.”

In February 2012, an FCC agent used direction-finding techniques to locate the source of radio frequency transmissions on 104.9 MHz. The agent traced the source of the transmission to Ragan’s residence. About two weeks later, agents again used direction-finding techniques to locate the source of the same frequency after hearing the unlicensed station identifying itself over the air as “KBRS.” The agents determined that the signals on frequency 104.9 MHz exceeded the limits for operation under Part 15 of the Commission’s rules and, as such, required a license. Commission records showed no authorization issued to Ragan or to anyone else for operation of a broadcast station on frequency 104.9 MHz in Suisun City, California. The agents heard the station operating in the garage and attempted to inspect Ragan’s station, but he did not answer their knock at his door. The agents posted a *Notice of Unlicensed Operation (NOUO)* at Ragan’s front door for operating an unlicensed FM broadcast station.

Two days after the agents posted the *NOUO*, Ragan contacted the FCC concerning the *NOUO*. “During his conversation with the agent, Ragan admitted to operating the broadcast station on frequency 104.9 MHz for six months,” the *NAL* stated. “Ragan also stated that he was present at the time when the agents were knocking at his door, but was afraid to answer the door because he heard the agents say that they were with the FCC. Because Ragan, by his own admission, consciously operated the station and did so on more than one day, the apparent violations of the Act were both willful and repeated.”



The ARRL Letter

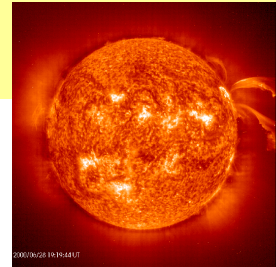
Materials in the ARRL Letter are taken from The ARRL Letter online, full credit is given to The ARRL Letter and the American Radio Relay League, as per republication guidelines require.

<http://www.arrl.org/arrlletter>

California Ham Cited for Opening Unlicensed Radio Station (continued)

Besides being ordered to pay the \$17,000 fine (the base forfeiture amount for operation without an instrument of authorization is \$10,000, and the base forfeiture amount for failure to permit inspection is \$7000) by July 31, 2012, Ragan must also submit a written statement by that date “pursuant to Section 1.16 of the Rules, signed under penalty of perjury by Mr. Ragan, stating that he is in full compliance with Section 301 [of the Communications Act of 1934, as amended] and is no longer engaged in the unauthorized operation on frequency 104.9 MHz or any other frequency for which he has no license, and will make his authorized amateur station available for inspection as required by the Rules.” While Ragan may request a reduction or cancellation of the \$17,000 forfeiture, he must still provide the written statement.

Solar Weather



NOAA Solar Forecasts

Sunspot Number: 94

Updated at: 2012 July 12

Spotless Days

Flare	0-24 hr	24-48 hr
Class M	80%	80%
Class X	35%	35%

Current Stretch: 0 days
 2012 total: 0 days (0%)
 2011 total: 2 days (<1%)
 2010 total: 51 days (14%)
 2009 total: 260 days (71%)
 Since 2004: 821 days
 Typical Solar Min: 486 days
 Updated 12 July 2012

Geomagnetic Storms

Mid-latitudes	0-24 hr	24-48 hr
Active	20%	40%
Minor	05%	15%
Severe	01%	01%

Interplanetary Magnetic Field

B_{total} : 4.3 nT B_z : 1.4 nT north

High-latitudes	0-24 hr	24-48 hr
Active	15%	15%
Minor	15%	30%
Severe	10%	30%

The Radio Sun

10.7 cm flux: 165 sfu

HF Conditions	Day	Night
80 m - 40 m	Poor	Good
30 m - 20 m	Poor	Good
17 m - 15 m	Good	Good
12 m - 10 m	Good	Poor
VHF Conditions	Day	Night
Aurora	Band Closed	
6 m EsEU	50 MHz ES	
4 m EsEU	70 MHz ES	
2 m EsEU	Band Closed	
2 m EsNA	Band Closed	
EME Deg	Fair	

SMOKETEST

Official publication of the

Western Carolina Amateur Radio Society, Inc.

PO Box 1488, Asheville, NC 28802

www.wcars.org

W 4 M O E

Repeater: 146.91 (PL-91.5)

Spivey Mountain, Asheville, NC

2012 OFFICERS

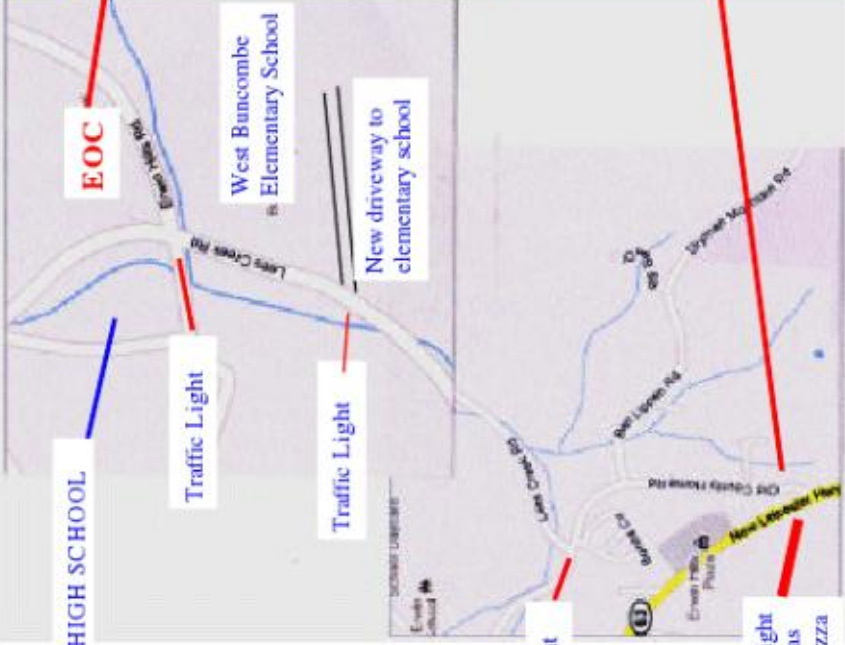
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Smoke Test Editor	Paul Tilley	KK4BRD	712-0477	kk4brd@gmail.com

HF/VHF/UHF Net Information				
<u>NET NAME</u>	Freq offset / PL	Day	Local time	Notes
6600	145.190 -	Saturday	9-PM	Many check-ins-Wide area coverage
Blue Ridge Traffic	146.610 -	Nightly	9-PM	ARES/Skywarn in bad weather
BRARC	146.640 - 91.5	Sunday	9-PM	
Buncombe Cty Emerg. Mgt.	146.910 - 91.5	Wednesday	9-PM	Directed net, ARES/RACES
Carolinas Net - Early	3.573	Daily	7-PM	CW Traffic
Carolinas Net - Late	3.573	Daily	10-PM	CW - 15-18 WPM Traffic
Carolinas Net - Slow	3.571	Daily	8-PM	Slow CW - 8 to 10 WPM Traffic
Franklin, NC - Winesprings Bald	147.240 + / 151.4	Daily	9-PM	
Good Morning	146.760 -	M-W-F	9-AM	Informal, Everyone welcome
Haywood County Roundtable	147.390 + 94.8	Monday	8-PM	Informal, Everyone welcome
K4UUQ Morning	7.228	Daily	7-AM	Ragchew
Madison Cty-AmRadComTeam	224.660 100	Tuesday	9-PM	Madison County Emergency Comm
Mount Mitchell 220	224.540	Monday	8-PM	Informal, Everyone welcome
Mount Mitchell Ragchew	442.225 + 107.2	Monday	9-PM	Directed, Everyone welcome
Mount Mitchell Sunrise Net	442.225 + 107.2	Thursday	9-AM	Informal - Everyone welcome
Mount Pisgah 220	224.260	Sunday	9-PM	Informal, Everyone welcome
NC Evening Traffic	3.923	Daily	6:30-PM	SSB
NC Morning Traffic	3.927	Daily	7:45-AM	SSB
Oasis Shrine Radio Corp.	145.190 +	Sunday	9-PM	
SATERN	14.265	Daily	3-PM	Salvation Army Team-Emergency
Tarheel Emergency Net	3.923	Daily	7:30-PM	Directed, NC Emerg. Mgt - Traffic
Volunteer	147.180 + 136.5	Friday	9-PM	Info, News and Swap
WCARS Information	146.910 - 91.5	Monday	9-PM	Informal, Everyone welcome
???	224.600			WB4PLA on Spivey Mtn. ???
W4YK	53.630 - 100	Friday	9-PM	???
Traders Net	147.05 - 91.5	Tuesday	9-PM	
Skywarn	145.27 - 91.5	As Needed		
SC Hearts / NC Hears / SW VA Net	444.250 - 91.5	Daily	8-PM	
NC Hears	444.250 - 91.5	Daily	9:30 PM	
K4MFD Greenville - 440	444.200 + 173.8			Located on Bald Mtn. N. of Asheville
K4MFD Greenville - 6 Meter	53.400			Located on Bald Mtn. N. of Asheville Linked to N2GE 224.660 & KI4DNY 224.600 fulltime
Blue Ridge Weather Watch	145.190 -	T-T	9-PM	Directed net, Skywarn, everyone welcomed

Regional Repeater List		
Frequency / offset / PL	Location	Notes
145.190 -	Mt. Mitchell	
146.520 Simplex	National Calling Frequency	
146.910 - 91.5	WCARS	
146.640 - 91.5	Hendersonville	IRLP
146.610 -	Greenville, SC	
147.105 + 91.5	Hendersonville	
145.270 - 91.5	Hendersonville	
145.370 - 91.5	Greenville, SC	
147.390 + 94.8	Waynesville	
147.315 + 123	Spartanburg	
147.060 + 123	Greenville, TN	
145.410 - 127.3	Greenville, TN	
145.390 - 186.2	Greenville, TN	
146.760 -	Mt. Pisgah	
146.880 -	Shelby	
147.135 +	Brevard	
147.285 +	Tryon	
145.330 -	Tryon	
146.790 -	Anderson, SC	
442.225 + 107.2	Mt. Mitchell	
442.450 +	Hendersonville	
442.850 +	Brevard	
444.875 + 131.8	Waynesville	IRLP
224.520 - 91.5	Mt. Spivey	
224.600 - 94.8	Asheville	
224.240 -	Hendersonville	
224.960 -	Hendersonville	
224.540 -	Mt. Mitchell	
224.260 -	Mt. Pisgah	
224.200 -	Shelby	
224.460 -	Shelby	
224.360 -	Marshall	
224.660 - 100	Madison County	
53.630 - 100	Mt. Mitchell	
53.130 - 100	Hendersonville	
53.410 - 131.8	Greenville, SC	

Map to EOC

Talk-in on 146.91 (PL-91.5) if needed



164 Erwin Hills Road, Asheville, NC 28806

The EOC is a LARGE brick/rock building on the left inside a chain link fence with a roll-back gate across the driveway.

**Buncombe County
ARES Meeting
Thursday, July 19th
7 to 9 PM**

**In West Asheville
Turn onto NC Highway 63
(New Leicester Highway)
Please watch your odometer.
This intersection is roughly 2 miles from PATTON AVENUE (Ingles supermarket at that intersection)**

ERWIN HIGH SCHOOL

EOC

West Buncombe Elementary School

New driveway to elementary school

Traffic Light

Traffic Light

Traffic Light

Traffic Light
Exxon Gas
Papa's Pizza

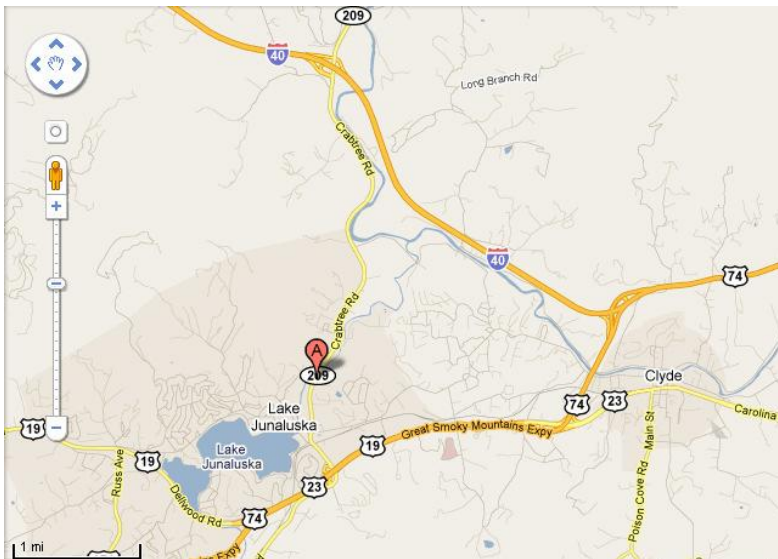
HAMFEST—Saturday July 28, 2012

Sponsored by Western Carolina Amateur Radio Society www.wcars.org
 Randy Harris, Chairman 828-298-6685

WHERE: Haywood County Fairgrounds
 758 Crabtree Road, Waynesville, NC
 Latitude: 35.533414 / Longitude: -82.960174

Gates open at 6:00 AM, Doors open at 8:00 AM. *Advance tickets are \$5.00, Tickets at the gate are \$7.00, correct change is appreciated.*

Talk-In on WCARS repeater (W4MOE, 146.910 minus, 91.5 tone, Asheville), HCARC (N4DTR, 147.390 plus, 94.8 tone, Lake Junaluska)



Free parking ~ Hourly Prizes ~ VE Testing ~ Forums ~ Reserved Inside Tables ~ Covered Flea Market Spaces ~ On-Site Camping with Electric and Water (first come basis, 12 Noon Friday July 27th through 4 PM Saturday)

Hamfest	ADVANCE ORDER FORM		WCARS 2012
Name:	Callsign	No. Tickets @ \$5.00	= \$
Address		Tables @ \$12.00	= \$
		Covered Spaces @ \$10.00	= \$
Phone		Total Enclosed: = \$	
Email			

Please include an e-mail address so that we may confirm your order, along with an SASE for ticket delivery.

Requests received after July 16th will be held for pickup at the hamfest site on event date.

Mail to: WCARS, PO Box 1488, Asheville, NC 28802