



[WCARS.org](http://WCARS.org)  
September 2008

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

### President's Microphone...

With September almost upon us, now is the time to evaluate your ability to endure adverse living conditions should a disaster occur. September is National Preparedness Month. As potential emergency radio operators, all amateurs should also be self sufficient in their daily affairs and ready to respond should the need arise. Now is also the time to consider club officer elections in November. The club always needs someone to accept the nomination for any of the officer's positions. Please share with all members your recommendations for the officer's positions called for in our bylaws, and please, don't hesitate to accept any nomination for any of the officer's jobs when asked. Hope to see everyone at the next meeting.

73 Dean ~ k2jb

### Vanity Call Sign Fees

On August 11, the FCC announced that the cost of an Amateur Radio vanity call sign will increase 60 cents, from \$11.70 to \$12.30. The fee will increase 30 days after notice of the increase is published in the Federal Register; no date has yet been set for publication. The Communications Act of 1934, as amended, authorizes the FCC to collect vanity call sign fees to recover the costs associated with that program. The vanity call sign regulatory fee is payable not only when applying for a new vanity call sign, but also upon renewing a vanity call sign for a new 10 year term. The vanity call sign fee has fluctuated over the 12 years of the current program -- from a

### August 7<sup>th</sup> Minutes...Steve - KF4TVD

Meeting called to order at 7:30pm.

Pledge to the flag recited.

Introduction of members and guests, 27 in attendance.

K2JB - Dean gave Treasurers report, \$4780.56 in checking, \$3952.13 in savings, \$8732.69 total assets.

Motion to waive formal reading of minutes of July meeting made, seconded and carried.

Event sponsor requests club communication for the Blue Ridge Bike Relay if anyone is interested in coordinating the clubs involvement.

N4KOX - Russell presented evening program, NVIS antennas, and flight of the bumblebee.

K2JB - Suggested replication of FD with a special event.

N4AA - Carl Reported latest DX-pedition information - Glorioso is a French island off east coast of Africa, a valid DX entry.

50/50 won by W4SKI - Paul.

Door prize won by KI4NXM - Sam.

Motion to adjourn made, seconded and carried at 8:45 pm.

### Vanity Call Sign Fees (cont'd)

low of \$11.70 to a high of \$50. The FCC said it anticipates some 15,000 Amateur Radio vanity call sign "payment units" -- or applications -- during fiscal year 2009, collecting \$184,734 in fees from the program.

ARRL

## **National Preparedness Month...**

More than 1200 national, regional, state and local businesses and organizations -- including several Amateur Radio groups -- have pledged their support and joined the 2008 National Preparedness Month Coalition. The fifth annual National Preparedness Month helps to raise awareness and promote action by Americans, businesses and communities on emergency preparedness...

I want to thank the hundreds of coalition members who are making a difference in their communities by helping raise the basic level of preparedness in our country," said Homeland Security Secretary Michael Chertoff. "Individual preparedness is the cornerstone of emergency preparedness. Experience shows that if Americans take steps ahead of time, they stand a much better chance of coming through an emergency unharmed and recovering more quickly." "The Ready campaign and Citizen Corps are specifically encouraging individuals across the nation to take important preparedness steps," said ARRL Public Relations and Media Manager Allen Pitts, W1AGP. "These steps include getting an emergency supply kit, making a family emergency plan, being informed about the different emergencies that may affect them, as well as taking the necessary steps to get trained and become engaged in community preparedness and response efforts"...

Groups and individuals can register to become members by visiting the Ready Web site and clicking on the National Preparedness Month banner. Information is also available by phone at 1-800-BE-READY or 1-888-SE-LISTO (in Spanish)...

According to Pitts, participating in September's National Preparedness Month is "an easy win". The federal people are already doing all the hard work. All you really have to do is sign up. Most clubs and ARES groups are already doing activities that fit into their structure, so why not get credit for your actions?

ARRL

## **National Preparedness Month and**

**Area 14...** I ask you this, are we prepared for an emergency? I can answer that in one word, NO! Can we become prepared for an emergency? Yes we can. First we need to make a plan, listing the things we need to do in the event of an emergency. The plan should include evacuation, where to go, where the shelters are located, a location where we can meet up with other family members, a list of telephone numbers that should be updated and reviewed frequently. Choose an emergency contact person outside the area. These are just a few of the things that should be included in your emergency plan. Think about what types of emergencies you are likely to encounter in your area, such as flash floods, high winds, severe thunderstorms or hazmat spills (remember we are on two Interstate Highways and also a major rail line; they all handle hazardous materials.) In any emergency situation, keep informed. Have enough food, water and medical supplies for 72 hours (three days). There is much more I could add.

Now, there is something we Americans are all guilty of, "Creeping Complacency." Remember 1999 when there was great concern that when all computers clicked over to 2000 (Y2K), and they would all fail, and the world would plunge into crisis? There was an outpouring of preparedness as we planned for this. Well nothing happened. All that preparedness was neglected. Shortly after 9/11 we went into preparedness mode as we readied our gear for the terrorist threat. Years later our preparedness efforts were neglected. After Katrina many of us readied our gear, sharpened our skills and prepared to respond when the next "big one" happened. Today, our gear is scattered and we are not near as ready to respond as we were just after Katrina.

I encourage each of you take a little time to get into the response/preparedness mode so if the "Big One" hits you will be ready.

Tommy K4BNP

## SILENT KEY

With deep regret WCARS records the loss of fellow amateur Harry Judd Mills.



A prominent local amateur radio operator, Harry, K4HU, 100, passed away Saturday, Aug. 9, 2008, at the Cardinal Care Center in Hendersonville after a period of declining health.

Born Sept. 19, 1907, to the late Louise Judd Mills and Harry Townsend Mills of Beaver, Pa., he had been a resident of Hendersonville since his retirement in 1972, after a 30-year worldwide career with RCA as an engineer and manager.

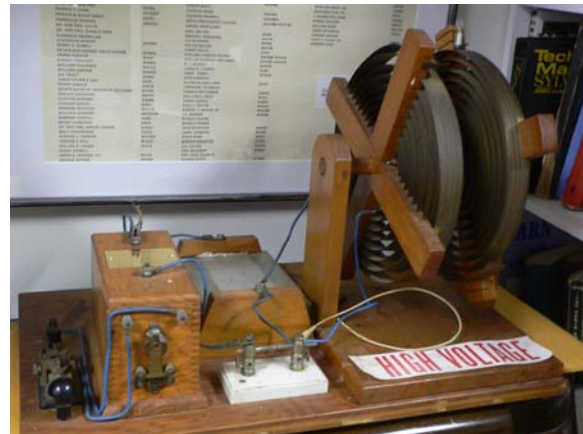
He was an 80-year member of the American Radio Relay League, a founder and past president of the Quarter Century Wireless Association, Chapter 76 of Hendersonville, and a fellow of the Radio Club of America. He attended Geneva College, Marshall College, and Washington and Jefferson College, and graduated from Tri-State University with a degree in Radio Engineering. He was a brother of Lambda Chi Alpha fraternity.

He was preceded in death by his wife, Margaret Gerig Mills, in 1991; a sister, Margaret Mills Beatty; and two brothers, Frank and James. A son, Richard Mills of Hendersonville; two daughters, Dinah Mills of Wenatchee, Wand Bernice Mills of Livermore, Calif.; and numerous grandchildren and great-grandchildren survive him.

No memorial services are planned.

Thos. Shepherd & Son Funeral Directors and Cremation Memorial Center is in charge of the arrangements. [www.thosshepherd.com](http://www.thosshepherd.com).

From the Hendersonville Times, August 12, 2008



Spark Gap transmitter built by K4HU

For an interesting article on Harry, go to: <http://tinyurl.com/2rvxog>

## Hamfest Calendar

### Sep 26-27

9th Annual Ten-Tec Hamfest, Ten-Tec, Inc., 1185 Dolly Parton Parkway, Sevierville, TN <http://www.tentec.com>, Contact: Stan Brock, WD0BGS, 1185 Dolly Parton Parkway, Sevierville, TN 37862, Phone: 865-453-7172, Fax: 865-428-4483, Email: [sales@tentec.com](mailto:sales@tentec.com)

## ARRL VE Exam Schedule

**06-Sep**, Sponsor: Gaston County ARS

Time: 9:30 AM (Walk-ins allowed), Contact: Cyrus B. Rowe (704)864-4388, VEC: ARRL/VEC  
Location: Gaston County Public Library  
1555 E Garrison Blvd Conference Room  
Gastonia, NC 28054

**06-Sep**, Sponsor: University of TN ARC

Time: 1:00 PM (Walk-ins allowed), Contact: Bobbie E. Williams (865)983-0055, Email: [bobbie@usit.net](mailto:bobbie@usit.net), VEC: ARRL/VEC  
Location: Walk ins allowed until start of testing session, 1128 E Weisgarber Rd, call to confirm! cell: 865-254-3067 Knoxville, TN 37909

**06-Sep**, Greenville, South Carolina - 8:30 AM

Walk-ins normally accepted, Contact: Sue L. Chism, N4ENX, 139 Mustang Circle, Simpsonville, SC 29681-5753, 864-967-0001

Location: Red Cross Building - 940 Grove Road, Greenville, SC  
**13-Sep**, Sponsor: KG4LVO, Time: 10:00AM (Walk-ins allowed), Contact: Edwin A Flowers, (828)321-2136, Email: KG4LVO@yahoo.com  
VEC: ARRL/VEC, Location: Andrews Public Library Conference Rm, 871 Main St Business US 19 at Walnut St, testing fee \$14, Andrews, NC 28901

**17-Sep**, Sponsor: Trident ARC, Time: 7:00 PM (Walk-ins allowed), Contact: Robert N Johnson, (843)761-7637, Email: [ae4rj@amsat.org](mailto:ae4rj@amsat.org), VEC: W4VEC VEC, Location: Goose Creek Masonic Lodge #401 145 St James Avenue, across from Bilo Shopping Ctr, pre-registration appreciated! Goose Creek, SC 29445

**20-Sep**, Sponsor: WCARS-VEC, Time: 8:00 AM (Walk-ins allowed), Contact: Stephen C Shaffer (864)862-3549, Email: [af4rn@bellsouth.com](mailto:af4rn@bellsouth.com), VEC: Western Carolinas ARS VEC, Location: Red Cross Building, 940 Grove Rd, arrive 8:15 AM for paperwork, Greenville, SC 29605

Contact VE for exam dates, Yancey County Public Library - Town Square **Burnsville, NC**, David McCarty, W4TDM, 391 E. Main Street, Burnsville, NC 28714, 828-675-9044, Barry McKinney, Rt 2 Box 1122, Burnsville, NC 28714, 828-682-9270 (Walk-ins only)

Contact VE for exam dates, **Columbus, NC**, Wayne Ackerman, W3GYK, 621 Laurel Lake Drive, Unit B-104, Columbus, NC 28722-7436, 828-894-5542

Contact VE for exam dates, Rutherford County, NC, Isothermal College, **Spindale, NC**, F. Bruce Tessinear, KD4OJ, P. O. Box 341, Henrietta, NC 28076, 828-657-5464; A. B. Brackett, AB4E, 117 Toney Rd, Bostic, NC 28018, 828-245-6334

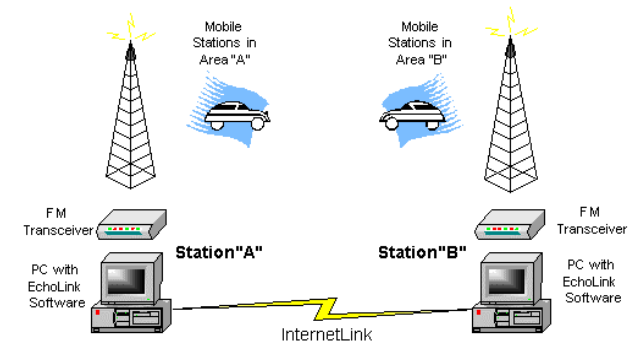
## Introduction to Some Digital Modes

### EchoLink

EchoLink® software allows licensed Amateur Radio stations to communicate with one another over the Internet, using voice-over-IP (VoIP) technology. The program allows worldwide connections to be made between stations, or from computer to station, greatly

enhancing Amateur Radio's communications capabilities. There are more than 200,000 validated users worldwide with about 4,000 online at any given time.

### Linking Example



The program runs in Microsoft Windows® operating system, and is available free of charge. To further explore Echolink, go to <http://www.echolink.org>.

### Internet Radio Linking Project (IRLP)

IRLP is the brainchild of Dave Cameron, VE7LTD of Vancouver BC. IRLP is the abbreviation used for the Internet Radio Linking Project, which Dave developed over the past several years. Back in 1998 Dave became frustrated with the unreliable operation of the Windows based Voice over IP software. All Windows based amateur linking software used VOX and were not secure from non-amateur access. The IRLP network uses a digital switching concept and produces an instant and secure link between licensed repeaters around the world. Dave's custom IRLP software takes the audio from the receiver, feeds it into the sound card, and converts that into ADPCM digital data. The Linux PC then converts this digital information into digital packets each assigned with IP addresses for the destination node. These packets now flow through the internet to the destination Linux PC where the packets are decoded then sent to the sound card and out to the transmitter microphone of the link radio which then transmits the audio out over the local repeater. The transmitter is keyed as soon as these TCP/IP (Internet Protocol)



packets start to arrive. As soon as the data stops the link radio automatically un-keys and process reverses.

To assure security of the system, PGP keys are assigned to each node. When a connect request is made the connecting node exchange key challenges which must be correct or the connection is refused..

IRLP uses a 100% authentication system to assure the connecting nodes are authenticated and authorized to transmit on the amateur bands.

The called node has to prove to the calling node that he is who he claims to be. So the authentication is bi-directional. This ensures that one machine can't masquerade as another. The PGP key is created ONLY by the IRLP Installer and uploaded to the master IRLP server. This method of authentication assures licensing agencies that all audio being repeated on a node in another country has originated from a radio and not a PC.

Even though the IRLP uses the internet it does maximize the RF content. The philosophy behind IRLP is to have a radio as an entry and exit point in the system.

If you are interested in communication via IRLP, or just to appreciate how the system works, go to the following for a wealth of information:

Official IRLP web site [www.irlp.net](http://www.irlp.net)  
Monitor IRLP [www.kwarc.org/listen/](http://www.kwarc.org/listen/)  
IRLP user guidelines [www.kwarc.org/irlp/](http://www.kwarc.org/irlp/)  
Current Status of Nodes <http://status.irlp.net>  
Contacts

IRLP designer [dcameron@irlp.net](mailto:dcameron@irlp.net)

Author [ve3sy@rac.ca](mailto:ve3sy@rac.ca)

Condensed from IRLP.NET - N4SET

### **Remote-Controlled HF Operation over the Internet**

The November 2001 issue of QST magazine contains an excellent article, written by Brad Wyatt, K6WR, describing HF radio operations by means of PC and Internet connection to overcome the lack of towers or outside antennas in restricted housing.

Rather than edit the article or attempt to capture the spirit in less space, the entire

article is attached for e-mail recipients in its entirety.

N4SET

### **Winlink 2000**

Winlink 2000 (WL2K) is a worldwide system of volunteer resources supporting e-mail by radio, with non-commercial links to internet e-mail. These resources come from Amateur Radio, the Military Affiliate Radio Systems (MARS), and other volunteer organizations. The system provides valuable service to emergency communicators, and to licensed operators without access to the internet. The Winlink Development Team (WDT) is committed to improving the system using the most efficient and effective radio modes for local, regional and long-distance applications, together with modern computer and networking technology.

To use the Winlink 2000 system, you must hold an Amateur Radio License granting appropriate operating privileges and/or be a member of a supported organization or agency. Use of the system and all software is free of charge for those who qualify.

Winlink 2000 is a 100% volunteer, non-profit project of the Amateur Radio Safety Foundation, Inc. It functions only through your generous donations and the unselfish efforts of hundreds of Amateur Radio operators around the world. Please support WL2K with your tax-deductible donation.

From WINLINK 2000 website

To access, click on this link or copy and paste into your browser:

<http://www.winlink.org>

### **Simulated Emergency Test**

The North Carolina Section Simulated Emergency Test will be held Saturday morning, October 4 from 8am to 12noon. The Tarheel Emergency Net will be active on 3.923kHz during this time to handle traffic and coordinate the exercise. While local SET's can be scheduled any time during the fall, I encourage you to consider holding your local SET on the same day. Our neighboring sections are holding SET's on October 4 and

we are planning a wide-area disaster exercise related to hurricanes. More details will be available soon, but mark your calendars for October 4!

ARRL North Carolina Section  
Section Manager: Timothy B. Slay, N4IB  
[n4ib@arrl.org](mailto:n4ib@arrl.org)

**ARES** The next Buncombe County meeting is scheduled for September 18<sup>th</sup>. Each member is encouraged to become actively involved. New members are welcome.

### NC Section Upcoming Events

September 10th - Carolina Cycling Time Trials, Lowes Speedway  
September 13th - Leukemia & Lymphoma Light the Night Walk, Raleigh.  
September 18th - Leukemia & Lymphoma Light the Night Walk, Durham.  
September 27-28 - MS-150 Bike Ride, Mid-Atlantic Chapter.  
September 27th - ADA Step out for Diabetes Walk, RTP.  
October 1: Carolina Cycling Time Trials, Lowes Speedway  
October 11: Pfafftown Hamfest  
October 12: Charlotte Crop Walk  
October 12: Maysville Hmfest  
October 18: State ARES Meeting, Morganton.  
October 18th/19th - UCP Ride Without Limits, Triangle Area.  
October 18-19: Scouting Jamboree On The Air.  
October 18: Lung Strong 15k/5k, Cornelius.

### Communication Plan on a Personal Level

Families may not be together when disaster strikes. It is important to plan in advance: how you will contact one another; how you will get back together; and what you will do in different situations.

#### Family Emergency Plan

It may be easier to make a long-distance phone call than to call across town, so an out-of-town contact may be in a better position to

communicate among separated family members.

Be sure every member of your family knows the phone number and has coins or a prepaid phone card to call the emergency contact. You may have trouble getting through, or the telephone system may be down altogether, but be patient.

#### Emergency Information

Find out what kinds of disasters, both natural and man-made, are most likely to occur in your area and how you will be notified. Methods of getting your attention vary from community to community. One common method is to broadcast via emergency radio and TV broadcasts. You might hear a special siren, or get a telephone call, or emergency workers may go door-to-door.

#### Emergency Plans

You may also want to inquire about emergency plans at places where your family spends time: work, daycare and school. If no plans exist, consider volunteering to help create one. Talk to your neighbors about how you can work together in the event of an emergency. You will be better prepared to safely reunite your family and loved ones during an emergency if you think ahead and communicate with others in advance.

[www.ready.gov](http://www.ready.gov)



**Hurricane Watch Net** to Activated Gustav Threatens Hispaniola: The Hurricane Watch Net ([HWN](#)) activated Tuesday, August 26 at 0800 EDT/1200Z on 14.325 MHz as [Hurricane Gustav](#) approached

Hispaniola. We will be disseminating the latest weather bulletins from the [National Hurricane Center](#) and passing real time reports from the affected area to [WX4NHC](#) at the Center to assist forecasters in their tasks. Plans are to remain active until the band goes out. Operations on Wednesday and beyond will depend on Gustav's status and path, but will be published on our [Web site](#). HWN net intentions, the latest on Gustav and other weather information is always on the site. -- *Dave Lefavour, W7GOX, Manager, Hurricane Watch Net*

**WCARS-VE Exams** were conducted in August. License Class Codes are:  
T=Technician, G=General, E=Extra.

**Gainesville, GA:**

KJ4FQR Farr Jr, Ralph, Dawsonville, GA, T  
KJ4FQS Wilson, John, Murrayville, GA, T  
KJ4FQT Keith, Thomas, Gainesville, GA, T  
KJ4FQU Hulse, David, Clermont, GA, T  
KJ4FQV Edwards, Debbie, Gainesville, GA, T  
KJ4FQW Clark, Curtis, Hoschton, GA, T  
KJ4DDZ Calhoun, William, Winder, GA, G  
KJ4FDZ Locke, Charles, Hoschton, GA, G  
KJ4FQX Becker, Isaiah, Auburn, GA, T  
KC4LS Robertson, James, Clermont GA, E

**Tullahoma, TN:**

KJ4FQY Holt, Kelsey, Hixson, TN, T  
KJ4FQZ Jones, Todd, Fayetteville, TN, T  
KI4UZQ Johnson, Martin, Hillsboro, TN, G

**Louisville, KY:**

KI4YBQ Stevenson, Keith, Louisville, KY, E  
KJ4FVB Kautzman, Kathrine, Louisville, KY, T  
KC9OCV Adams, Dayna, Memphis, IN, T  
KC9OCW Burdin, Douglas, Memphis, IN, T  
KJ4FVC Carlisle, Gregory, Louisville, KY, G  
KJ4FVD Singleton, Rickey, Louisville, KY, T  
KI4CZF Warren, John, Louisville, KY, G

**Ellijay, GA:**

KJ4FVE Chase, Michael, Dahlonega, GA, T  
WB8VTK Howell Sr, Eric, Dalton, GA, E  
KI4TBO Chappuies, Darren, Douglasville, GA, E  
KJ4BJN Johnson, Mark, Ellijay, GA, G  
KJ4FVF Melvin, Jacob, Ellijay, GA, T  
KJ4FVG Cordell, Timothy, Chatsworth, GA, T  
KJ4BLN Carson, Christopher, Adairsville, GA, G

**Gainesville, GA:**

KJ4FVH Cleveland Hall, Eva, Winterville, GA, T  
KJ4FVI Honaker Sr, Charles, Blairsville, GA, T  
KJ4FVJ Whidden, Jack, Murrayville, GA, T  
KJ4FVK Whidden, Jo Ann, Murrayville, GA, T  
KJ4FVL Stow, Corby, Gainesville, GA, T  
KJ4FVM Banks, William. Lula, GA, T  
KJ4FVN West, Brandon, Flowery Branch, GA, T  
KJ4FVO Carmichael, James, Gainesville, GA, T  
KJ4FVP Sant, William, Oakwood, GA, T  
KJ4FVQ Wilson, Ronald, Demorest, GA, T  
KJ4FVR Trawick, Matt, Gainesville, GA, T  
KJ4FVS Galloway, Billy, Oakwood, GA, T  
KJ4FVT Mann, Benjamin, Flowery Branch, GA, T  
KJ4FVU Mann, Martin, Flowery Branch, GA, T

KD4PEO Murray, Mark, Oakwood, GA, G  
N7RVB Woodhead, Douglas, Suwanee, GA, E  
KI4ZUA Poole, Chad, Flowery Branch, GA, G  
**Harlan, KY:**

KJ4FVW Adams, Jordan, Hyder, KY, T  
KJ4FVX Saylor, Johnny, Wallins, KY, T  
KJ4FVY Kelly, Herbert, Loyall, KY, T

**Hendersonville, NC:**

AJ4KJ Skees, John, Woodfin, NC, E  
KJ4FVV James, Joseph, Fairview, NC, T  
**Morganton, NC:**

KJ4FXR Miller, Douglass Morganton, NC, T  
**Germantown, TN:**

KJ4FZH Pannell, Johnathan, Arlington, TN, T  
**Knoxville, TN:**

KJ4EGJ Bird, Ashby, Andersonville, TN, G  
KB4FZK Holbert, John, Knoxville, TN, E  
**New Albany, IN:**

KC9ODK Houston, Robert, Scottsburg, IN, T  
KC9ODL Roberts, Brian, Salem, IN, T

**Asheville, NC:**

WD4RGT Wright, Billy, Shelby, NC, G  
KJ4FZK Schooler, Dakota, Barnardsville, NC, T  
**Greenville, SC:**

KF4MSJ Almond, Tory, Greenville, SC, G  
KJ4CTH Blighton, Ronald, Sandy Springs SC, G  
WA4HNT Finley Jr, Alton, Seneca, SC, E  
KJ4CTD Miler, Wyatt, Greer, SC, G  
KJ4FZL Muzal, Claire, Seneca, SC, T  
KJ4FZM Muzal, Steven, Seneca, SC, T  
KJ4FZN Shipman Jr, James, Hendersonville, NC, T

*WCARS congratulates each licensee on his/her accomplishment. Thanks to each VE team member for their volunteer efforts in furtherance of amateur radio.*

**September Meeting** - The next WCARS meeting will be September 4, 2008, 7:30 p.m. in the Simpson Auditorium, Simpson Bldg, at AB Tech. Program: To be announced.

## THE SMOKE TEST

The Official Publication of the  
**Western Carolina Amateur Radio Society, Inc.**  
 PO Box 1488, Asheville, NC 28802

[www.wcars.org](http://www.wcars.org)

W4MOE/146.910 - /PL 91.5 Spivey Mountain/Asheville

### 2008 OFFICERS

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<b>Executive Committee</b>	Dean Blair	K2JB	665-1830	<a href="mailto:k2jb@arrl.net">k2jb@arrl.net</a>
<b>Executive Committee</b>	Dick Burns	K8SKX	628-3153	<a href="mailto:k8skx@arrl.net">k8skx@arrl.net</a>
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<b>Quartermaster</b>	Elwood Miles	KN4ST	253-4490	<a href="mailto:elwood3@charter.net">elwood3@charter.net</a>
<b>Awards Chair</b>	Bob Dockery	WD4CNZ	254-0513	<a href="mailto:wd4cnz@arrl.net">wd4cnz@arrl.net</a>
<b>Public Information</b>	Bob Dockery	WD4CNZ	254-0513	<a href="mailto:wd4cnz@arrl.net">wd4cnz@arrl.net</a>
<b>Hamfest 08</b>	F.M. Thornal	KE4KZS	697-8402	<a href="mailto:ke4kzs@arrl.net">ke4kzs@arrl.net</a>
<b>Hamfest 08</b>	Elwood Miles	KN4ST	253-4490	<a href="mailto:elwood3@charter.net">elwood3@charter.net</a>
<b>Smoke Test Editor</b>	Steve Emory	N4SET	658-0261	<a href="mailto:n4set@arrl.net">n4set@arrl.net</a>

American Radio Relay League Affiliate No. 0602 WCARS meets at 7:30 PM the first Thursday of each month at the Simpson Building at AB Technical Community College. Everyone is welcome to attend. Membership dues are \$20 per year payable in January.

Net	Freq (MHz) offset/PL	Day	12 Hr Time	NOTES
WCARS Information Net	146.910-/91.5	Monday	9:00 pm	Informal, Everyone Welcome
Oasis Shrine Radio Corp. Net.	145.190	Sunday	9:00 pm	
BRARC Net	146.640/91.5	Sunday	8:00pm	
Good Morning Net	146.760	M-W-F	9:00 am	Informal, Everyone Welcome
Madison Co. Am.Rad.Com.Tm	224.660/100	Tuesday	9:00 pm	Madison Co. Emerg. Comm. Net
Buncombe Co. Emerg Mgt Net	146.910/91.5	Wednesday	9:00 pm	Directed Net, ARES / RACES
Haywood County Monday Night Roundtable	147.390/94.8	Monday	8:00 pm	Informal, Everyone Welcome
Mt. Mitchell Ragchew Net	442.225+/107.2	Monday	8:00 pm	Informal, Everyone Welcome
Volunteer Net	147.180+/136.5	Friday	9:00 pm	Info, News and Swap Net
6600 Net	145.190	Saturday	9:00 pm	Many Check-Ins - Wide Coverage
Blue Ridge Traffic Net	146.610	Nightly	9:00 pm	May be ARES / SKYWARN in bad WX
Mount Pisgah 220 Net	224.260	Sunday	9:00 pm	Informal, Everyone Welcome
Mount Mitchell 220 Net	224.540	Monday	8:00 pm	Informal, Everyone Welcome
SATERN Net	14.265	Daily	3:00 pm	Salvation Army Team Emerg. Radio net (Time is UTC)
K4UUQ Morning Net	7.225	Daily	7:00 am	Rag chew
NC Morning Net	3.927	Daily	7:45 am	SSB Traffic Net
NC Evening Net	3.923	Daily	6:30 pm	SSB Traffic Net
Carolinas Net (early)	3.573	Daily	7:00 pm	CW (20-22 wpm) Traffic Net
Tarheel Emergency Net	3.923	Nightly	7:30 pm	Directed Net, NC Emerg. Mgt / traffic
Carolinas Slow Net	3.571	Nightly	8:00 pm	Slow CW (8-10 wpm) Traffic Net
Carolinas Net (late)	3.573	Nightly	10:00 pm	CW (15-18 wpm) Traffic Net