

CLUB OFFICERS

COMMITTEE CHAIRMAN

President: Mike Brannock, KG4IES  
V. President: Mark Currens, KI40JG  
Secretary: Paul Harrington III, KB4ENQ  
Treasurer: Steve McFadden, KA4TJD

Program: Steve McFadden, KA4TJD  
Emergency: Jerry Mueller, KC4WZO  
Field Day: Paul Harrington III, KB4ENQ  
Web Site: Jerry Mueller, KC4WZO  
Net Control: Paul Harrington III, KB4ENQ  
Repeater: Steve McFadden, KA4TJD  
News Letter: Paul Harrington III, KB4ENQ  
Fund Raising: Todd Rose, KE4YAH  
Adopt-a-Highway: Paul Harrington III, KB4ENQ

Trustee for KY4WC Jerry Mueller, KC4WZO

The Woodford County Amateur Radio Club meets on the first Wednesday of each month at 7:00 p.m., at the Versailles Fire Station #2 on Big Sink Pike.

Anyone interested in Amateur Radio is cordially invited.

The Club holds an ARES practice net Thursday evenings at 8:00 p.m. Nets are held on the 145.330 repeater.

The Woodford County Amateur Radio Club Home Page is located on the internet at <http://www.ky4wc.org>. The Club receives e-mail at [ky4wc@ky4wc.org](mailto:ky4wc@ky4wc.org). E-mail may be sent to the membership by sending a message to [maillist@ky4wc.org](mailto:maillist@ky4wc.org).

## The August WCARC Meeting Will Be Held At Fire Station #2 On Big Sink Pike

The field trip to the UK Ham Shack has not been finalized. We plan to reschedule this event for a later meeting.

## Near-Space Balloon Launch Mission

Rob Hutchinson, KI40DT, forwards this report found on KYHAM:

This official report is being forwarded to KYHAM to describe our mission to support a near-space balloon launch at Bowling Green, Ky on 14 JULY 2008. The mission used all HAM Radio for communications and telemetry. Numerous HAMS from the various universities participated and were supported by our vehicles. This was a dream mission and I wanted to share it with you.

MISSION: To deploy both mobile command/communications vehicles to the Warren County Regional Airport in Bowling Green, KY to support the launch of a high altitude balloon and its related telemetry experiments. Ancillary to the scientific experiment, the deployment supports a joint effort with the several universities in the development of emergency and disaster related communications systems that may result from their high altitude and satellite program. Organizations supported

Bob Stephens, WA4CM0

See Page 3:

Thank You to the DoubleTree Guest Suites of Lexington, 2601 Richmond Rd., for duplication of this month's Newsletter

## Minutes of the July, 2<sup>nd</sup> 2008 Meeting

The meeting was called to order by the Treasurer, Steve McFadden, KA4TJD at 7:11 p.m.

Minutes of Last Meeting: Todd Rose, KE4YAH, seconded a motion by Jerry Hatchett, N4NZF, that the minutes be accepted as published. The motion carried.

Treasurers Report: The opening balance was \$\$\$\$\$\$. No account transactions were reported for the month, resulting in the closing balance of \$\$\$\$\$\$. It was noted that the account at Community Trust has been closed and the account was being moved to United Bank ( also the Club's repeater site ). Paul Harrington III, KB4ENQ, seconded a motion by Todd Rose, KE4YAH, that the Treasurer's report be accepted. The motion carried.

Program: The field trip to the shack at University of Kentucky did not work out for the July meeting. An attempt will be made to set this trip up for the August meeting. If this works out it is suggested that members meet at the normal place at 6:30 p.m. then ride share over to the UK campus.

Field Day: The Field Day report is not complete at this time.

Discussion revolved around improvements to the next year Field Day. Suggestions included publishing a map to the site in the Newsletter, and placing signs along the route.

Adopt-a-Highway: An adopt-a-highway event is scheduled for August 9th.

Members should meet at McDonald's for breakfast at 8:00a.m. Highway cleanup should start around 9:00.

Repeater: The modified controller has been installed in the 220MHz repeater and is working. It does need to be modified at a later date to provide more volume for the recorded message. The 440MHz repeater is currently off the air for modification to it's controller. The volume boost circuit will be included in that modification. To hear the recorded announcement on the 220 machine, key up and DTMF 83 then unkey. The repeater should play the recorded message. The current message is a greeting to the repeater. When all of the controllers have been modified, we plan to use the new feature for activity and meeting announcements.

Newsletter: Members are encouraged to offer material and suggestions for the Newsletter. Thanks to the members who have volunteered to receive the Newsletter via e-mail. If you wish to receive the Newsletter by e-mail, please contact Paul Harrington III, KB4ENQ.

New Business: Jim Hughs, K4ZPL, discussed an upcoming Bike event needing Amateur Radio help. The following is paraphrased from an e-mail from John Embry, K4AT: Bike Trek to Shakertown, Sept. 13-14-15.

As of now, I need to cover two positions for all three days in the vans (i.e. Medical, long route sags, etc). Those could be 1 person covering all three days in each van (preferred) or several persons to help one or two days. I may also need a couple of people to help for one day assignments.

As you know, for persons who spend the night, hotels are covered (shared room) as are meals. For those who help on Sunday, breakfast at Pioneer Playhouse and dinner at Shakertown

are part of the fringe benefits.

I would be happy to discuss this more in detail by phone. My home phone is 502-742-4937 and my cell is 502-550-1098 since I travel quite a bit.

Todd Rose, KE4YAH, seconded a motion made by Jerry Hatchett, N8NZF, that the meeting be adjourned. The motion carried at 8:26.

|             |                     |        |
|-------------|---------------------|--------|
| Attendance: | Jim Hughes          | K4ZPL  |
|             | Paul Harrington III | KB4ENQ |
|             | Todd Rose           | KE4YAH |
|             | Steve McFadden      | KA4TJD |
|             | George L. Rice      | KC4YUI |
|             | Jerry Hatchett      | N8NZF  |

|             |          |          |
|-------------|----------|----------|
| Net Report: | 07/17/08 | 07/24/08 |
|             | KB4ENQ   | KB4ENQ   |
| 07/03/08    | KF4LRK   | KD4GNX   |
| KA4TJD      | KE4GNX   | KE4LZP   |
| KE4AIE      | KM4CH    | KF4LRK   |
| WA4PCS      | WA4PCS   | KE4GNX   |
| WD4HXE      | KI40DT   | KI4QQF   |
| KD4GNX      | KE4LZP   | KE4AIE   |
|             |          | WA4PCS   |
|             |          | KI4YTM   |
|             |          | KI40JG   |
|             |          | KF4JNN   |

Thanks to Charlie O'Neil, KE4AIE, and Steve McFadden, KA4TJD for calling the net on 7/10/08. I must apologize for misplacing the list that they supplied to me.

From Page 1:

include: The KY Space Program <http://www.kysat.com/> and Kentucky Space Grant Consortium <http://www.wku.edu/ksgc/a1.htm>.

The two vehicles accomplished the following tasks in supporting the Balloon Mission:

\* Provided robust satellite internet connection from both vehicles to the DMA network and Internet

\* Tethered with tactical fiber, the EM Mobile Command Vehicle to the NG Command Vehicle shared satellite bandwidth between the two vehicles

\* NG vehicle provided internet connectivity for the universities' staffs external to the EM and NG Vehicles

\* Both vehicles provided electrical power for the satellite launch to university cadre from both vehicles

\* Both vehicles provided a command and control platform for launch cadre that included VOIP Phones with 4 digit dialing back to BNGC voice network and to the Pubic Switched Telephone Network

\* VTC/video coverage of the launch provided to the EOC and other locations from both vehicles

\* Streamed Video was sent back to BNGC using PolyCom equipment and made it available using Click-to-Meet on the DMA network

\* VTC was shared through a video bridge to Morehead State University that was streamed to the Internet

\* All events over VTC were recorded on DVD by the MCVs for archival, training, exercising and public affairs

\* EM vehicle provided 3 VHF/UHF FM Amateur Band radios to monitor telemetry from the payload and for direction and control communications between the launch personnel

\* EM vehicle also provided 2 HF Amateur Radios for direction and control communications regionally

\* Command/direction and control communications were conducted using the DMARCS (Military Affairs State-

Wide Two-Way Radio System) on scene, to the EOC, and Area 4 EM Manager

\* A remote command location was provided for the HAM Radio operators that downloaded telemetry and video on 1.2 GHz and then to the PolyCom VTC in the EM vehicle (HAM TV)

\* Internet connection was provided to volunteers' laptops to track the location of the balloon and payload during the ascent and descent

\* EM Command Vehicle Crew, with one licensed HAM and one local volunteer HAM conducted direction and control HAM communications with the EM HAM Radio Equipment and communicated over the HAM single channel 1/3 Watt repeater in the payload to stations as far away as Lorain, Ohio and Huntsville, Alabama

\* Both NG and EM vehicle crews conducted extensive public safety communications using satellite radios, aviation radios and public safety interoperability channels

\* Local HAM volunteers operated the EM Command Vehicle Radios in support of the Balloon Launch

\* Both NG and EM Vehicle Crews conducted and coordinated incident operations with a completely new set of agencies

\* EM Vehicle Crew observed and monitored the use of "Amateur Radio" HAM VHF and UHF FM APRS (Automatic Packet/Position Reporting System) telemetry from the balloon on VHF 144.3 and UHF 433.2 FM using installed vehicle equipment

\* Now prepared to encourage/organize state-wide amateur radio participation in future launches to track and chase the balloons

\* Both Crews used NIMS methodology to set up direction and control and communications

\* EM Vehicle Crew entered event information using WEB EOC

\* Both EM and NG crews coordinated event information with the Frankfort EOC and the J-6 using DMARCS

\* DMA crews used a tactical digital VHF channel for internal operations for the launch

\* Both Crews received extensive first hand experience in setting up and providing joint support at an incident site.

#### LINKS TO THE EVENT:

[http://www.dailyindependent.com/local/local\\_story\\_197164951.html](http://www.dailyindependent.com/local/local_story_197164951.html)

[http://bgdailynews.com/articles/2008/07/15/multimedia/sound\\_slides/794kyspace.txt](http://bgdailynews.com/articles/2008/07/15/multimedia/sound_slides/794kyspace.txt)

<http://www.kentucky.com/news/state/story/461108.html>

<http://www.wku.edu/news/releases01/november/space.html>

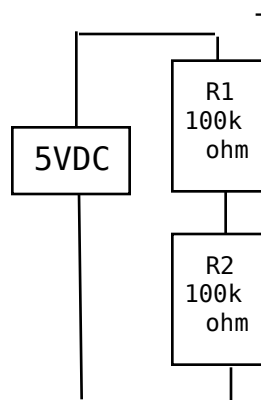
<http://www.wku.edu/ksgc/>

<http://www.wlex.com/Global/story.asp?S=8704463>

<http://www.engr.uky.edu/documents/BalloonupdatefromKSTC71808.doc>

<http://www.kentuckyspace.com/>

<http://www.kentuckyspace.com/?356>



Answer at the meeting.

#### Think About This

In the circuit to the left, I measure the voltage across R2 with my Heathkit Solid State VOM ( IM-25 ) and get 2.5 volts. If I measure it with my trusty Simpson 260, I get 2.1 volts. Why the difference, when they agree on the voltage of the 5 volt power supply?

## Upcoming Exams: Exams listed are within 100 miles of Woodford County

02-Aug-2008  
Sponsor: CINCINNATI REPEATER ASSOC INC  
Time: 8:30AM (Walk-ins allowed)  
Contact: DALE W PRITCHETT (513)769-0789  
Email: KC8HJL@ARRL.NET  
VEC: ARRL/VEC  
Location: HARTWELL PRESBYTERIAN CHURCH  
210 PARKWAY AVE  
INTERSECTION PARKWAY/WOODBINE  
NEAR VINE/GALBRAITH & I-75  
CINCINNATI, OH 45216

09-Aug-2008  
Sponsor: LITTLE SANDY ARC  
Time: 9:00AM (Walk-ins allowed)  
Contact: BILL F ELDRIDGE  
Email: KD4DZE@ARRL.NET  
VEC: ARRL/VEC  
Location: LSARC CLUB HOUSE  
514 FOXFIRE MOUNTAIN  
GRAYSON, KY 41143

11-Aug-2008  
Sponsor: NKARC  
Time: 6:00 PM (No walk-ins)  
Contact: LYLE H HAMILTON (513)315-4032  
Email: AB8SH@ARRL.NET  
VEC: ARRL/VEC  
Location: HILLTOP CHURCH OF CHRIST  
5300 TAYLOR MILL RD  
TAYLOR MILL, KY 41015

Remember: Most Hamfests feature testing: check with the listed contact for details!

06-Sep-2008  
CINCINNATI REPEATER ASSOC INC  
Time: 8:30 AM (Walk-ins, ok)  
Contact: DALE W PRITCHETT (513)769-0789  
Email: KC8HJL@ARRL.NET  
VEC: ARRL/VEC  
HARTWELL PRESBYTERIAN CHURCH  
210 PARKWAY AVE  
INTERSECTION PARKWAY/WOODBINE  
NEAR VINE/GALBRAITH & I-75  
CINCINNATI, OH 45216

13-Sep-2008  
Sponsor: BLUEGRASS VOLUNTEER EXAMINERS  
Time: 10:00AM (No walk-ins)  
Contact: HARRY R SPARKS (859)272-8762  
Email: KN4S@ARRL.NET  
VEC: W5YI  
Location: RED CROSS BUILDING-CLASSROOM B  
1450 NEWTOWN PIKE  
I-75 EXIT 115  
SOUTH ~1 MILE, ON LEFT  
LEXINGTON, KY 40511

## Upcoming Hamfests:

10 Aug 2008  
Central Kentucky ARRL Hamfest  
Bluegrass Amateur Radio Society  
<http://www.BluegrassARS.org>  
Talk-In: 145.390 or 146.760  
Contact: Jeanie Dalton  
Pugh, KB8QLC  
PO Box 4411  
Lexington, KY 40544-4411  
Phone: 859-619-8164  
Email: kb8qlc@arrl.net  
Lawrenceburg, KY  
American Legion Post #34  
725 West Broadway (US Rt 62)

16-17 Aug 2008  
Southeastern Division Convention  
Huntsville ARC & Huntsville Hamfest Association  
<http://www.hamfest.org>  
Talk-In: 146.940 (No Tone)  
Contact: Charlie Emerson, N4OKL  
8003 Craigmont Road  
Huntsville, AL 35802  
Phone: 256-882-9137  
Fax: 256-882-9137  
Email: charlieemerson@hamfest.org  
Huntsville, AL  
Von Braun Center (South Hall)  
700 Monroe Street

23 Aug 2008  
First Annual Tailgators' Hamfest  
Ripley County Amateur Radio Club (RCARC)  
<http://www.441775.com>  
Talk-In: 441.775+ (No PL Tone Required)  
Contact: Delbert Felix, WY9L  
114 Harlan Street  
Osgood, IN 47037  
Phone: 812-689-3161  
Email: wy9l.thebigdog@gmail.com  
Osgood, IN  
Ripley County 4-H Fairgrounds  
524 Beech Street

Please show your support for Amateur Radio by attending at least one Hamfest this Summer.

6 Sep 2008  
Greater Louisville Hamfest Association  
<http://LouisvilleHamfest.com>  
Talk-In: 146.70 (PL 79.7)  
Contact: Greater Louisville Hamfest Association  
PO Box 34444  
Louisville, KY 40232-4444  
Email: GLHA08@LouisvilleHamfest.com  
Shepherdsville, KY  
Paroquet Springs Conference Centre  
395 Paroquet Springs Drive

13 Sep 2008  
Central Kentucky Amateur Radio Society  
<http://www.qsl.net/ckars/hamfest/>  
Talk-In: 145.370 (PL 192.8)  
Contact: Mike Rogers, KE4ISW  
144 Allen Douglas Drive  
Richmond, KY 40475  
Phone: 859-624-9156  
Email: ke4isw@arrl.net  
Richmond, KY  
Madison County Fairgrounds  
Highway 52 East

20 Sep 2008  
Hazard Swapfest  
Kentucky Mountains Amateur Radio Club  
<http://www.k4avx.net/hf.pdf>  
Talk-In: 146.07/.67 (PL 103.5)  
Contact: John Farler, K4AVX  
1264 Hall Mountain Road  
Viper, KY 41774  
Phone: 606-476-9662  
Email: k4avx@arrl.net  
Hazard, KY  
Wendell Ford Airport (Civil Air Patrol Building)  
KY Highway 15

\* FAR Scholarship Winners Announced: The Foundation for Amateur Radio (FAR) has announced the 2008 winners of 55 scholarships it administers. The scholarships were open to all licensed radio amateurs who met the qualification and residence requirements of the various sponsors. A non-profit organization incorporated in the District of Columbia, FAR represents more than 50 Amateur Radio clubs in Maryland, the District of Columbia, Virginia, West Virginia and Pennsylvania. It is devoted exclusively to the scientific, literary and educational pursuits that advance the purposes of the Amateur Radio Service. For a complete list of recipients, please see the ARRL Web site <<http://www.arrl.org/news/stories/2008/07/19/10214?nc=1>>. For more information, contact FAR Scholarships, PO Box 831, Riverdale, MD 20783, or visit their Web site <<http://www.amateurradio-far.org/>>.

21 Sep 2008  
Greater Cincinnati Amateur Radio Association  
<http://gcara.org>  
Talk-In: 145.37 (-600) & 146.88 (-600)  
Contact: Stan Cohen, W8QDQ  
2301 Royal Oak Court  
Cincinnati, OH 45237-2939  
Phone: 513-531-1011 or '3834  
Fax: 513-531-3834  
Email: stanco49@zoomtown.com  
Cincinnati, OH  
Diamond Oaks Career Development Center  
6375 Harrison Avenue

## Local Club Meetings:

Jassamine Amateur Wireless Society (Nicholasville) Meetings are the second Monday each month at 7:00 p.m. Location is the Corman Building behind City Hall on Main Street. Talk-in, and information on the 145.490 (-600) and 444.975 repeaters.

Capital ARS: Regular meeting dates are the first Thursday of the month, at 7:30 pm, at the Frankfort Boone National Guard Center, Emergency Operation Center or Communications Center, off Highway 127, the Frankfort West Plaza Connector. A photo ID is required to enter thru the guarded entrance. Contact: PATRICK K COMPTON, KF4FMZ Phone: (502) 607-1617 (D) (502) 454-8282 (N) Web: <http://www.ky4eoc.com> E-mail: [ky4eoc@ky4eoc.com](mailto:ky4eoc@ky4eoc.com)

Anderson County meets every 2<sup>nd</sup> Monday of the month. 7:00 p.m. at the Anderson County EMS Building, 1191 Bypass South, next to the Ford dealership.

Bluegrass Amateur Radio Society The regular meeting of the Bluegrass Amateur Radio Society, Inc., will be held every first Monday, 7:30 p.m. at the Red Cross Building, 1450 Newtown Pike, Lexington.

Scott County Amateur Radio and Emergency Service Club (SCARES), Meetings are the third Saturday each month, 9:00 a.m. in the EOC (lower level of Fire Station), 2200 Cincinnati Pike (intersection of U.S. 25 N and Delaplain Road). Check in to their weekly simplex net Tuesdays at 9:00 p.m. on 147.490.

Central Kentucky ARS (Richmond-Berea), Third Thursday each month in the Madison County EOC, Richmond, Kentucky, at 7:00 p.m.. Talk-in on 146.865 (-600, pl-192.8Hz) and 145.370 (-600, pl-192.8Hz) repeater for location directions to meeting site, or other information.

Pioneer ARC (Winchester), Fourth Tuesday each month Golden Corral Restaurant at 7:30 p.m. Talk-in, and info on the 147.120 repeater.