

W0GQ

W0WSV



Since 1949

BANDSPREAD



Associated with Linn County Emergency Management Agency and the ARRL

CEDAR VALLEY AMATEUR RADIO CLUB

Thursday, August 14th, 2008
7:30 PM

An SWR/Wattmeter For QRO and QRP, by Jason HSU, AA0II
Kenwood Park United Methodist Church
175 34th St. NE

*POLICY STATEMENT: Renew your ads, or they get dropped at the end of the month.
Any Ham can submit ads. You don't have to be a member. TNX.*

IN THIS ISSUE:

Meeting minutes - Board minutes - ARES minutes -
Want & For Sale Ads - A Certain amount of opinion – news for Hams

CONTRIBUTORS WELCOME

Have an idea you want to share? A better way of doing things? Comments on Summerfest? Then let us at BANDSPREAD know. Contact any board member listed in the directory on page 2.

Send items via e-mail to any board member at cvarcbrd@rf.org

Deadline for September 2008 issue is August 28, 2008

BANDSPREAD

The Voice of the Cedar Valley Amateur Radio Club

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Net Directory

3.896 MHz	3900 Club	8:45 a.m. Sundays
146.745 MHz (alt. 145.15Ø-192.8PL)	Linn County ARES Net	7:00 p.m. Sundays
146.85Ø MHz (-6ØØ KHz)	Johnson County Sunday Net	7:30 p.m. Sundays
145.39Ø MHz (-6ØØ KHz)	Jones County ARES Net	8:00 p.m. Sundays
145.23Ø MHz (-6ØØ KHz)	Benton County ARES Net	6:30 p.m. Mondays
356Ø KHz	TLCN (CW Section)	6:30 & 10:00 p.m. Daily
397Ø KHz	Iowa 75 Meter Net (SSB)	12:30 & 6:00 p.m. Mon—Sat

WWW Addresses

CVARC Web Page <http://cvarc.rf.org/>

ARES Web Page: <http://ares.rf.org>

Want ads and articles are accepted from all amateurs, members or not, at no charge! Submissions must be sent to

**CVARC
PO Box 2352
Cedar Rapids, IA 52406
Or to kcønxo@arrl.net**

Meeting place is indicated on the cover with program information.
For Club membership send, Name, Call, Address, Phone number, ARRL Status (Yearly, Life, or not a member),
willing or not to be on call for Storm Watch and emergency situations and dues to CVARC PO Box
Yearly Dues, PAYABLE JAN 1: \$10 Regular or Family, \$5 under 18yrs of age,
After July 1: \$5 for all

AUGUST CVARC MEETING PREVIEW

The August CVARC meeting will be held at the Kenwood Park United Methodist Church, 175 34th St. NE, Cedar Rapids, at 7:30 p.m on Thursday, August 14th.

The meeting will include reports on how Summerfest, CVARC's annual Hamfest went, and will also include information on volunteering for two events in the second half of August. The program will be "An SWR/Wattmeter For QRO and QRP," by Jason Hsu, AA0II. Equipment that works for both low and high power makes your Ham Shack more flexible, in less space, and within a budget.

Come to the meeting and see your fellow Hams in action, and sign up to work an event.

BANDSPREAD MOVING TO DEFAULT ELECTRONIC PUBLICATION

In the next few months, Bandspread will move to default electronic publication. Because some members will need to receive it by postal mail, it will still be available by post. It is hoped that the change to default electronic publication will save some of the funds that are currently used for mailing and printing costs. We also hope to have more space to include some technical and educational articles.

Bandspread is now available in PDF format on the CVARC Website, at <http://cvarc.rf.org/Bandspread/>. Back issues for 2007 are in the 2007 subdirectory, and 2008 issues are in the 2008 subdirectory.

If you would like to get an e-mail notice of when the latest Bandspread is on the Website, please email Laura, KCONXO at kcønxo@arrl.net.

If you like the convenience and economy of the electronic version, and want to be removed from the mailing list for the paper version, please contact Al, K0VM, at køvm@arrl.net.

As we move to default electronic publication, the details of the move will be worked out. The move should be complete before the publication of the November Bandspread.

JULY 2008 CVARC BOARD MINUTES

The July 2008 Cedar Valley Amateur Radio Club Board of Director's meeting was held 10 July 2008 at the Kenwood United Methodist Church. The meeting was called to order at 6:31 PM by President WA6GFD. Others in attendance were: N0XZL, NA0IA, K0ECW, KC0PON, WA0KHH and W0MRZ.

It was noted that the previously scheduled June Board and General Club Meetings were canceled due to the Cedar Rapids Flood.

K0ECW summarized the upcoming activities scheduled for the remainder of July and August and indicated these would be detailed in the upcoming Bandspread. Volunteers were needed for all of the events listed.

KC0PON reported the balance in the checking account at \$3,350.69. The club treasurer also indicated that the Club's gambling application was being processed by authorities which would enable the club to operate a raffle at the upcoming Summerfest on August 3

W0MRZ provided the club secretary with summary information and account details regarding mandatory tax filing documentation provided to the IRS.

A brief general discussion regarding the logistics and planning regarding Summerfest ensued as a preface to a more general and detailed summary discussion at the main club meeting.

WA0KHH provided a summary of planning and staff recruitment efforts for the examination session to be held at Summerfest. This year, for the sake of convenience to all involved, the exam registration table will be based downstairs, outside the main hall. WA0KHH indicated that we need a larger room upstairs for the examination setting itself. Finally, the VE Manager reminded everyone that the NEW Extra Class examination pool would be in effect during the Summerfest examination seating.

A general discussion then revolved about club office positions that were due for new elections. These included:

- Treasurer
- President
- Membership/Promotion Director
- Information Director [currently vacant]
- Communications Activity Director

Club President WA6GFD summarized some of the recent flood support efforts conducted by hams in the area and the ongoing reviews and debriefing activities revolving around those support efforts. The President also upated the Board on several Ham Estates and the disposition of some of the ham equipment involved. WB4IQD will be donating several pieces of ham equipment to the club, including

a Kenwood TS-440 and power supply.

WA6GFD also highlighted the successful involvement of the Club in the recent Field Day exercises. A motion was made and carried unanimously to make a donation of \$60.00 to Regis Middle School.

Meeting adjourned at 7:13 PM

Submitted by W0MRZ, Secretary

JULY 2008 CVARC MEETING MINUTES

The July 2008 general membership meeting was held Thursday, 10 July 2008 in the Kenwood United Methodist Church. The meeting opened 7:32 PM by President WA6GFD with all attendees and guests introduced themselves with 32 members and guests present.

The minutes for the May 2008 minutes were accepted unanimously by those present after a motion to that effect presented by NA0IA that was seconded by W0WLL. [The June CVARC CLUB meeting was cancelled due to the Flood.]

Board Member Reports:

Communications Activity Director, K0ECW, summarized the upcoming activities scheduled for the remainder of July and August. Volunteers, who were needed for all of the events listed, should contact K0ECW directly.

Club Treasurer KC0PON reported a current checking account balance of \$3,350.69.

VE Manager WA0KHH mentioned that Summerfest would be offering examinations, with the exam registration desk positioned on the main level and outside the main hall. WA0KHH brought up that the new Extra Class Exam Pool would be in effect for the 3 August Summerfest event.

WA6GFD thanked everyone for their participation in the various ecomm-related activities during the recent Flood. He indicated that a number of general reviews were being conducted to improve future ecomm activities. In addition, WA6GFD discussed a number of donations of equipment to the Club that were anticipated in the near future: one from a Silent Key's estate and the other from WB4IQD, who will be donating several pieces of ham equipment to the club, including a Kenwood TS-440 and power supply.

K0DAS, from the Collins Radio Club made a

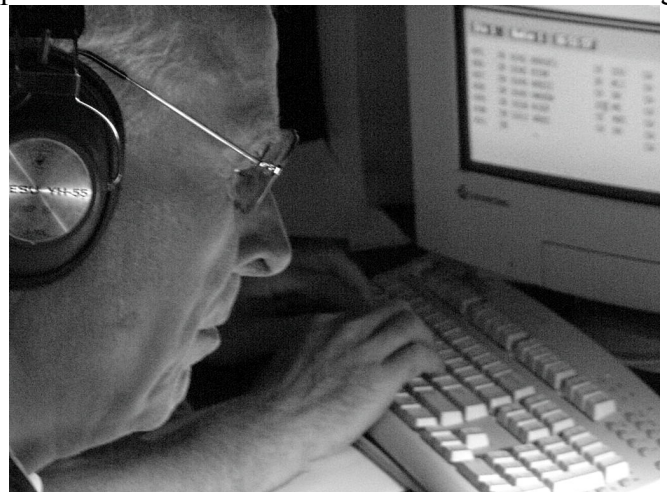
presentation regarding that Club's upcoming activities, including:

- Celebration of the 50th Anniversary of the Collins S-Line and the opportunity for amateurs to secure a certificate for having worked any four of the six Collins Stations during the July 11th-20th time frame. Details of the contest may be found on the ARRL website.
- The Collins Collector Association Convention will be held soon at the Cedar Rapids History Center, with details and schedules available at the Associations website
- A fully restored Collins S-Line Equipped 1964 Ford Van is in the Cedar Rapids area for a 'visit' and will be viewable at the Collins Collector Convention. In addition, it is hoped that the van will also make a special visit to Summerfest on August 3rd.

Vice President Rick Olney, N0ZXL, provided an update on planning and logistics for the upcoming Summerfest on 3 August.

N0UUS discussed his ongoing CERT training sessions in Buchanan County, which have generated much interest in the local and surrounding regions. He highlighted how everybody pulled together during the various NET and Flood watch efforts. N0UUS also indicated he would be making a presentation to the Board at its next meeting.

A motion was made by N0UUS, seconded and carried to have the default subscription to the Bandsread be in electronic form. Details on the implementation of the Bandsread subscription options were to be discussed at the next Club Meeting.



The CVARC Field Day CW Station. Photo courtesy WA0ZZG

The Club President gave a brief summary of Field Day Activities and promised to provide a more detailed Field Day review at the next meeting after all the contest scores had been totaled and verified.

N0UUS discussed a Flood watch incident involving an amateur radio operator in the Czech Village region and indicated he would be pursuing this issue in the future.

The meeting was adjourned at 9:35 PM.

Submitted by W0MRZ, Secretary

ARES PLANNING COMMITTEE MEETING MINUTES – JULY 2008

Attending: KI0OB, N0UUS, W0LJ, KF0VF, N0GUD, KD1AC, KD1AD, W0MRZ, WA6GFD, KD0HF, KD0CQV, KC0OX, KC0PON, NA0IA, KC0ONY, KC0ZNK, KB4SBY, KD0CGN

Past Month's Activities

➤ **Flood Activities**

- Web and reflectors down due to flooding in Cedar Falls
 - Ron, KX9Y, is looking at a backup server.
 - Backup web info eventually posted on mchsi.com
- Early Repeater problems due to an apparent lightning strike.
 - Al, K0VM, reset most remotely. One repeater required a visit.
 - Repeaters required tones, which caused problem with some radios and operators.
 - 145.190 is also on the north CVARC tower...not sure why it was up while the other 2m repeaters were down, though.
 - Suggestion made that we move the long nets off the CVARC repeater. This might improve things, but this means one would have to monitor two frequencies at all times. We did pass a fair amount of traffic on simplex.
 - K0VM has given the remote repeater commands to KC0OX, so now we have a backup trustee.
 - If we decide on frequencies other than the currently defined ones, we'll add that to the Bandspread and ask folks ahead of time to preprogram the frequencies and tones.
- River Level watch
 - Some operators will not be using their own equipment, but if they are preprogrammed, this should be all right. St Luke's did not have tone capability, but should soon thanks to W0HUP.
 - Who has the records?
 - N0GUD has records when NCS and has a copy of the Viola Gibson logs, to be reviewed.
 - How were they used?
 - They were logged by EMA when they were called in. The changes were watched, but not sure how specifically they were used.
 - Can the levels be translated to some reproducible measurement?
 - The idea here is to make sure we are consistent over separate flood events, so that we can compare past floods to future floods.
 - Access to the measurement device is an issue here. Some devices were placed specifically because of access.
 - How is horizontal distance used?
 - Horizontal is not useful in general without some idea of the slope. Vertical is a much better measurement.
 - Mainly, EMA is looking for the crest – rate of rise, rate of fall, steady, what have you.
 - Suggestion was made that we just watch rather than interpret. Will talk to EMA about it.
 - We need to record the locations of interest and keep those in a database so we'll be able to respond more quickly in the future. Thought: what was the delay between crest at Urbana and crest at Lewis Access, e. g.?
- Shelter Comm.
 - Were we well received at Shelters?
 - Received fairly well. Voila Gibson was busier than Prairie. VG had a larger special needs population.

- We helped set up internet access to help the responders there do their jobs. This is beyond ham communications, but suggestion is that we add this kind of thing to our repertoire of skills.
- Prairie had its own internet, as they were on different servers.
- How was cell phone congestion?
 - Coverage at VG was lousy. Verizon and one other required a long walk, the others were spotty.
 - At Prairie, the problem was general loading – a lot of phones were out there and in use.
 - Verizon has no coverage in St Luke's. US Cellular has antennas in the facility.
- What was the comm used for?
 - Rumors were a bit of a problem. Most turned out to be nothing. We were able to quell things with the connection to EOC. We should be careful that we are not helping to pass these on.
 - Remember that official information goes through the public information officer. People do listen to us, and we need to be aware of this.
 - We were not deployed at the Red Cross itself, just at the shelters and the EOC. We need to be more proactive about getting a station in this facility.
 - Suggestion has been made in the past that EMA has been told that we could set up stations at different areas, so we may wish to revisit.
 - Linn County Health and Salvation Army both have expressed interest in having ham stations. These should also be considered.
 - Suggestion made that Public Works might use a ham station as well.
 - We need to remember that we are only passing traffic, not facilitating.
- Passing cell phone numbers over the air?
 - Issue was that there was traffic that needed to not be on public airwaves.
- There hasn't been any issues with passing the numbers out of which we are aware.
- In the future, we can ask if it is all right to put the number over the air. If they disagree, give them the EMA number (public) and give the traffic that way.
- Packet might make things a little more secure because of the barrier to entry. We have a higher speed backbone on 440 that we can use from just about anywhere in town. This bears investigation (and see suggestion list for go-kits).
- Quick suggestion made that we could provide a connection to NTS so that individuals can send health/welfare information out. This would have to be on another frequency to save the first for the “official” traffic. Example given was the earthquake in Mexico City, where abbreviated messages went out.
- Short version: do not count on cell phones being there.
- Improvements suggested for go kits
 - MORE GO KITS requested.
 - We can include cards with each kit with an overview of the most common functions of the radio. Radios differ sufficiently that even “experts” can find the operation confusing.
 - Kits need to be kept at varied locations **ON BOTH SIDES OF THE RIVER.**
 - Operators are encouraged to have their own, but CVARC may want to provide a few more.
 - Radios in the kits should be dual band at the very least.
 - If the malls are our relocation areas (as suggested by past activities), perhaps we can keep antennas and equipment there as well. But generally, things will be based on the location of the event. Some discussion followed on plans for when bridges are lost. Gist is that we can run antenna and coax there, but keep the equipment elsewhere. This is

no simple matter. Cross-band repeaters might help here.

- Storm Watch
 - Sufficient manning? (Radar? Net Control? EOC?)
 - NCS might be better located than at EOC or radar because of background noise and workload. This should be a fixed home station, ideally.
 - 146.505 has interference problems, see below.
 - Recommend we make better use of the pagers to coordinate alerting.
 - Need to adhere to our SOP on this a little better.
- General
 - Was AIM useful?
 - NOGUD found it useful from his home QTH. From the EOC, it was less useful because of the number of things going on at the EOC. Traffic can be passed at any time. Suggestion was made that we need to focus on the radio more, as alternative channels might not get priority.
 - Avoid 145.505 at EOC due to Intermod. Use TAC SEC instead?
 - This was pretty serious. During the day, the chatter was just about non-stop. The intermod did not prevent actual amateur traffic from coming in, but it contributed to the noise level considerably. 145.15 has similar problems.
 - 440 didn't have a problem, but there are fewer operators with that capability than on 2 meters.
 - 146.49 and 146.46 are generally popular with various nets.
 - ARES could keep a more complete database of the resources local hams have. This would be useful to net control to know whom to deploy to what location.
- Field Day
 - Went well. Smaller group this year. Site went together well – generator, rigs, antennas, etc.
- Turnout was good, but smaller than some years due to recent activities in Linn County.
- Plenty of opportunities to operate, may see some new hams soon.
- Positive feedback from one new ham on being well received and able to get on the air.
- Care and feeding of deep cycle batteries was mentioned here.
- **Next Month's activities**
 - 4th of July - Rescheduled for Kirkwood.
 - Have confirmed that the command vehicle will be used. 146.46 will be used for the net.
- **Ongoing projects**
 - Interwarn - **Installed.** OX needs to write up what it is good for and how to configure.
 - Stormlab - Installed - OX needs to write up how to use.
 - Headset improvements at the EOC
 - OX plans to write up some options on how we want to approach this.
 - Dosimeter Delivery process questions - OX will talk to EMA
 - HF Antenna improvements
 - We would like to get this pushed to the front burner when things have calmed down. The ability to hit stations via HF from the EOC would be of immense benefit.
 - OX asked if we need an interim plan to get the dipole's legs raised off the roof. Two poles 150 feet apart might be appropriate.
 - EMA Comm. Room situation awareness (Web EOC, other projected information)
 - Comm center has only main media there. Web EOC was used in the main EOC room.
 - EMA has discussed adding more monitors. There may come a point where we have too many monitors in the room, though.
 - With more monitors and ports, we might be able to display the weather radar in the EOC.

- Discussions will continue.
- **Other discussion**
 - There would be a benefit to having a CR/Linn map in the go kits.
 - There may be benefit, as we do shift changes, to have a clarification from net control as to the job at hand.

Kudos for the jobs that the net control stations did.

Submitted by N0GUD

FROM THE PRESIDENT'S DESK

August is going to prove to be one of more active months for Communications Activities. With the rescheduling of the Dragon Boats, the PIGMAN Long Course and the MS Bike ride, we will certainly have the opportunity to test rigs, antennas, and maybe some new tactics. I hope that each of you will volunteer to help when and where you can. Thanks to Eric for keeping all of this straight and for handling all of the details.

While the weather is hot and muggy and the grass is growing like crazy, it is hard to imagine that in a month or two, we will once again begin feeling the cooling air of fall with winter not being that far behind. Now is the time to take a look at antennas, mobile installations and those other outside things to see if there are fix actions or projects that need to be completed before winter sets in.

Also speaking of winter, it is sometimes a good time to pick a project that can be accomplished indoors to while away the time till Spring arrives again. Anyone have any good projects lined up for this winter?

For those of you who were not at the last meeting, a motion was made and passed to use electronic distribution to disseminate the Bandspread. However, it was also recognized that some members may not have the Internet connectivity or bandwidth to download the Bandspread in a timely manner. It was also moved that those who wished to continue receiving the Bandspread via the mail, could do so but must let the Bandspread Editor know of their wishes. The Bandspread will be mailed to all members through the September issues. The October issue will be made available electronically, unless you have otherwise requested. Hopefully we can expand the Bandspread a little to include more construction and technical articles.

Look forward to seeing you all at the August Meeting.

73, WA6GFD, Steve

FROM ERIC WATSON, COMMUNICATIONS ACTIVITIES DIRECTOR

The Linn County Fair Parade was Saturday 12 July in Central City. I would like to thank the following hams for their participation: KF0VF, KC0RZQ, KC0NXN, KC0ODI, W7II, N0THE, KC0VDR and K0ECW. The weather was much better than last year. We had a good time and there were no problems.

Volunteers are needed for the Dragon Boat Races on Saturday 9 August. The event runs from 0800 to 1700 at Pleasant Creek State Park north of Palo. AM and PM split shifts are available. Four hams are required for each shift. Hams will be stationed in the timing tent, the starting boat, on the beach and with the race officials. We will meet in the timing tent at 0730. Once the last race is done we can secure. HTs and simplex frequencies are used for this event. Please make sure you have fully charged batteries. A speaker-mic and earbud are very helpful for this event. Talk-in will be on the 146.745 repeater and/or 146.505 simplex.

*****URGENT***** Volunteers are needed for the Pigman Long-Course Triathlon on Sunday 17 August at Pleasant Creek State Park and surrounding area. This will be an all day event. Split shifts are available. Many hams will be needed for this event.. We will meet at the gazebo in the first parking lot on the left after the park entrance at 0700 (Volunteers for the safety boat and assistant net control will meet at 0645). We should be done around 1700.

*****URGENT***** Volunteers are needed for the Multiple Sclerosis Cycle for the Cure bike ride to Marshalltown and back. The event starts at Atkins Elementary School on Saturday 23 August. The bikers will overnight in Marshalltown and return to Atkins on the same route on Sunday. Hams will be needed at busy intersections, water stops and SAG wagons. I asked for help from the Benton county, Tama county, Marshall county and Collins clubs and have received NO RESPONSE!!! KC0VTT and N0ZJT (EC's from Fayette County and Buchanan County) are coming with their communications van. I really need volunteers for this event.

All hams, regardless of experience, club affiliation, skill level or lack of equipment are invited to participate in public service events. Come practice

your radio skills in a low-key environment.

If you have questions about any event or would like to volunteer, please contact me by email at k0ecw.ericwatson@gmail.com or by phone at 319-361-7951.

As of this writing the Events Calendar for 2008 is:

- 9 August, Saturday, Dragon Boat Races, Pleasant Creek Recreation Area, Palo
- 17 August, Sunday, Pigman Long course Triathlon, Pleasant Creek Recreation Area, Palo
- 23-24 August, Saturday through Sunday, Multiple Sclerosis Cycle For The Cure bike ride, some bicyclists starting from Cedar Rapids/Marion will stay overnight in Marshalltown before returning the next day.
- 20 September, Saturday, Alzheimer's Walk at Noelridge Park, Cedar Rapids
- 25 October, Saturday, Muddy Monster Cross Country Run (formerly the Devil's Dash) at Seminole Valley Park

I recommend programming the commonly used club frequencies into your radios:

Primary Repeater	W0GQ	146.745	-600Hz offset	no tone
Secondary Repeater	W0HUP	145.150	-600Hz offset	192.8Hz tone
Primary Simplex		146.505		
Secondary Simplex		146.460		
Nationwide 2M calling freq		146.520		

PRELIMINARY SUMMERFEST REPORT

Attendance was about 524 people. It looks like we made about \$1200.00 after expenses. Detailed report will be in next Bandsread.

Here's a quick update from the 8/3/08 exam session: 12 candidates: 7 new technicians, 1 new general, 4 upgrades from tech to general. Everybody went home with either a new license or an upgrade. 100% success rate!

The Collins Ford Van visited Summerfest. In the 1960's this van was equipped with the full line of Collins Radio S-line equipment and used to promote Collins ham equipment at hamfests and conventions around the country. The van is now owned by Jim



ARRL Midwest Division Director Bruce Frahm, K0BJ, and Ted Craven, W5USI, in the Collins Ford Van at Summerfest. Photo courtesy of KC0NXO

Stitzinger, WA3CE, who restored it. This van was on display at the Collins Collectors Association meeting in Cedar Rapids, and also at Summerfest.

Submitted by WA6GFD and WA0KHH

RADIO SHACK POWER SUPPLY RECALL

On July 2, the US Consumer Product Safety Commission (CPSC), in cooperation with RadioShack, announced a voluntary recall of 13.8 V DC power supplies. The CPSC said that consumers should stop using these power supplies immediately, as the "power supplies are wired incorrectly, posing electrocution and fire hazards."

No injuries have been reported in conjunction with the power supplies that were sold in RadioShack stores nationwide from October 2004-January 2008 for between \$50 and \$85. Manufactured in China, the CPSC said that the recall involves RadioShack 13.8 V DC Power Supplies, catalog numbers 22-507 and 22-508 with date codes from 08A04 through 01A08. Date code format is MMYY where MM is the month and YY is the year. The catalog number and date code are located on the back of the power supply.

Power supplies with a green dot on the product and the product's packaging have already been repaired and are not included in the recall. The CPSC recommends for consumers to unplug the recalled power supply immediately and take it to any RadioShack store for a free repair. Registered owners of the recalled power supplies will be mailed a notice.

For additional information, contact RadioShack at 800-843-7422 anytime, or visit their Web site. <http://www.radioshack.com/recall>

K-12 CORNER

As the school year begins, high school juniors and seniors are always interested in figuring out how they will pay for future education. The ARRL foundation administers several scholarships that are intended to help young radio amateurs further their educations. Some are intended only for students majoring in technical fields. Some are intended for any amateur at all. The scholarships vary from \$500 to \$5000 – most are one-time awards, but some are renewable.

If you have a student who is a high-school junior or senior, or a college student, and is a licensed amateur, please have them take a look at scholarships available at:

<http://www.arrl.org/programs/scholarships>

The opening date of applications is October 1, 2008, and applications must be accompanied by an official transcript.

As always, if you have tips, success stories or questions about working with K-12 students, we'd like to hear about them. If you have upgraded your license or received a radio award, such as WorkedAll States, we'd like to share that good news. Please contact us at kc0nxn@arrl.net

KC0NXN & KC0NXO

QUESTIONS ABOUT NEWSLETTER?

Please let us know if there are any errors or omissions that we can correct. If there's something you'd like to see, please also let us know. Is there something that you think you can contribute?

KC0NXN & KC0NXO

CLASSIFIED ADVERTISING

FOR FREE: - Come get it, you got it. 5 kw gas, 120 vac generator and transfer panel used mostly on field days.

K0OKZ ,Wes, 319-393-1885

FOR SALE - I have two stations to sell, one HF and one VHF. It would be nice if I could sell each station in total instead of by the piece. I have had many years in Ham radio, but as the years have gone by, the time has come to cut back. I will sell each piece separately also. Arnold Bucksbaum, W0WGZ, 310 363 6010, e-mail: abucksbaum@ieee.org

HF Transceiver Rig

MFJ Tuner V, Model 9898

Amp Supply Co. HF amplifier, LK450 1000 Watts

Kenwood TS 450S, HF Transceiver

Kenwood Mike, MC-60, goes with above transceiver

40' Aluminum Tower with Hazer elevator, no guy wires

With elevator you never have to climb tower

Yaesu G-800 SDX, antenna rotor and control

3 element Cushcraft antenna 10 to 40 meters

VHF/UHF Transceiver Rig

Kenwood PS 430 Power Supply, 12v

TS 790A, 144/430 Kenwood Transceiver, 30W power

Diamond SX-400 SWR and vhf Power Meter

Mirage D3010, 430-450 MHz, 30 w to 100 w output amp.

Astron PS-20A Power Supply, goes with above amp

Other Stuff

Ham Radio table

Coax switch, 4 pole-single throw

Compaq computer, windows 98, replicator

FOR SALE – Identron 160-10 Supertuner Plus 1 KW, \$50. Al Chamberlin, N0HTU, 319-393-6748

YOUR AD HERE

The rates are right (free for any amateur), and the audience is perfect for your for sale or wanted advertisement. Send to:

CVARC

PO BOX 2352

Cedar Rapids, IA 52406

Or to kc0nxo@arrl.net

All advertisements must be renewed monthly!

About CVARC:

The Cedar Valley Amateur Radio Club is a regional group promoting amateur radio activities in the Cedar Rapids, Iowa area. CVARC is a non-profit corporation registered in the state of Iowa. CVARC meets on the second Thursday of each month in the Kenwood Park Methodist Church at 7:30 PM, Central Time. The meeting consists of club business and a program. The programs tend to be Amateur oriented but we occasionally host a general interest topic. Watch the website at cvarc.rf.org or the Bandspread newsletter for the topic.

All are welcome at these meetings, neither membership nor amateur radio license is required.

CVARC affiliations:

- Amateur Radio Relay League (ARRL)
- Linn County Amateur Radio Emergency Service (ARES)
- Linn County Emergency Management Agency

CVARC Activities:

- Sponsor and present the premier Hamfest of eastern Iowa, in August
- Participation in the Annual ARRL Field Day Event
- Publish a monthly newsletter known as the Bandspread
- Participate in a number of Public Service Activities in the Cedar Rapids area
- Support and Participate in the Storm Watch Net operated by the Linn county ARES organization
- Hold social functions during the year, including the annual Holiday Party and Picnic
- Sponsor a complete ham station at Linn County Emergency Management HQ.
- Conduct classes for Technician and higher licenses each year
- Sponsor VE testing three times a year
- Maintain the 146.745 MHz repeater in Cedar Rapids

Cedar Valley Amateur Radio Club

PO BOX 2352

Cedar Rapids, Ia 52406-2352

Call and License Class _____ Name _____ Date _____

Spouse Call and License Class _____ Spouse Name _____

Family Members' Call, Name, and License Class _____

Address _____

City _____ State _____ Zip _____ -- _____

Phone (H) _____ (W) _____ (Cell) _____

EMAIL ADDRESS _____ Please Print

Would you like to be added to the CVARC E-mail reflector? Yes () No ()

ARRL Member? Yes () No () VE Check if yes ARRL VE () W5YI VE ()

Are you interested in participating in Public Service Events? () Yes () No

Help with ham fest? Many job types available. () Yes () No

Dues Regular or Family: _____ \$10/year; Under 18 years of age: _____ \$5/year; Half year after July 1: _____ \$5

===== Club Use Only – Do NOT Write Below This Line =====

Recd: _____ Treas: _____ Entered: _____ Card: _____

Bandspread: _____