

W0GQ

W0WSV



Since 1949

BANDSPREAD



Associated with Linn County Emergency Management Agency and the ARRL

CEDAR VALLEY AMATEUR RADIO CLUB

Thursday, September 12th, 2008

7:30 PM

Engineering the Crystal Radio by Dave Cripe, NM0S

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 October 2008 issue is September 25, 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

SEPTEMBER CVARC MEETING PREVIEW

The September 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, September 12th, 2008.

The meeting will include information on volunteering for the two remaining events on our schedule. The program will be "Engineering the Crystal Radio." by Dave Cripe, NM0S. Many Hams got started with a simple crystal radio. What can you do with one, now?

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 two 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, KC0NXO at kc0nxo@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 k0vm@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. If you have expertise in running mailing lists, or have the ability to run a mailing list, please contact Laura at kc0nxo@arrl.net

AUGUST 2008 CVARC BOARD MINUTES

The August 2008 Cedar Valley Amateur Radio Club Board of Director's meeting was held 14 August 2008 at the Kenwood United Methodist Church. The meeting was called to order at 6:35 PM by President WA6GFD. Others in attendance were: N0XZL, NA0IA, K0ECW, KC0PON, WA0KHH, AA0II, KC0OX and W0MRZ.

AA0II, after reminding Board members that he needed additional presentations for upcoming months, asked to be excused early in the meeting so he could finish setting up equipment for his evening presentation at the regular meeting. At that time, WA0KHH suggested the club should attempt to recruit the ham who made a recent presentation regarding crystal radios for the Collins Amateur Radio Club.

K0ECW summarized the upcoming activities scheduled for the remainder of July and August and indicated these would be detailed in the upcoming Bandspread. He highlighted the need for amateurs to support the upcoming 'Cycle for the Cure' bike ride in the Marshalltown-Atkins corridor. K0ECW also indicated that he would be unable to attend the next club meeting in September.

KC0PON reported the balance in the checking account at \$2,908.90. The club treasurer also reviewed the financial summary for the recent Hamfest, which showed that the club made a net profit of \$1,350.46 for that event. The club secretary also presented a draft CVARC 'Capital Equipment Depreciation List 2008', which served as a springboard for a lengthy discussion. It was agreed that WA6GFD would work to secure a detailed list of capital equipment which would help refine the draft document presented by KC0PON. The club president also offered to coordinate this inventory activity with the repeater station trustee.

Vice President N0XZL presented summary statistics for the recent Hamfest which saw approximately 524 attendees this year, compared to 562 last year. Estimated gross income for this year was \$4,100.00 which compared favorably with the net receipts of \$4,408.22.

N0XZL stressed the need for volunteer sign-up sheets for the next Hamfest and that a thank-you letter needed to be generated for the equipment donation to the club by Cornell College.

KC0OX summarized the Club reimbursement program for the ARRL EC-001 course and a motion was made/approved to extend this opportunity to those club members successfully completing EC-002 or EC-003 course.

WA0KHH reported that 12 examinees successfully completed their ham exams during the Hamfest, including a 12-year old who became a Technician at that time. The next area exam session will be held in Vinton on the 25th of September, with details to be found on the ARRL examination schedule web page.

The Club President updated Board members on the resolution of the ham equipment associated with a recent Silent Key's estate. WA6GFD also reminded Board members that several Board positions were coming up for election shortly.

Meeting adjourned at 7:28 PM

Submitted by W0MRZ, Secretary

AUGUST 2008 CVARC MEETING MINUTES

The August 2008 general membership meeting was held Thursday, 14 August 2008 in the Kenwood United Methodist Church. The meeting opened 7:37 PM by President WA6GFD with all attendees and guests introduced themselves with 36 members and guests present.

The minutes for the July 2008 minutes were accepted unanimously by those present.

Board Member Reports

Club Treasurer KC0PON reported a current checking account balance of \$\$2,908.90, which included a net profit of \$1,350.46 from the recent Hamfest. Total gross income from various Hamfest-related activities totaled \$4,628.22 with \$3,277.76 logged for expenses for that same event.

N0XZL presented summary statistics for the recent Hamfest which saw approximately 524 attendees this year, compared to 562 last year. The vice president also advised that 2,689 'calling cards' were sent out for Hamfest and he observed that local support for the event was excellent. Cornell College also donated equipment to CVARC for disposition at Hamfest. A general discussion ensued about the value and desirability of holding future Hamfests versus other opportunities and/or events that CVARC might wish to pursue.

NA0IA advised the membership that a new computer projector had been purchased by the club together with a 2-year maintenance contract; AA0II has agreed to be the custodian for this equipment. After highlighting the door prizes for the meeting [see below], NA0IA also commended WB0BW, one of the Hamfest vendors, for donating books to CVARC.

WA0KHH provided a report of the 100% success rate during the examination session at Hamfest, which included seven new technicians, one new general and four upgraded individuals [from technician to general]. All twelve examination attendees passed their exams this year. The VE Manager also indicated that the next area examination session would be at Vinton on 25

September and that CVARC would be hosting an exam sometime in the late fall of this year.

Communications Activity Director, K0ECW, summarized the upcoming activities scheduled for the remainder of August and September and he announced he would be stepping down from his position at the next Club election.

KC0OX summarized the Club reimbursement program for the ARRL EC-001 course and a motion was made/approved to extend this opportunity to those club members successfully completing EC-002 or EC-003 course.

WA6GFD thanked all the folks who supported the Hamfest and helped to make it the success that it was.

W0WL commented on a recent ARRL article regarding dual-band 40/80m antennas.

Door Prizes were won by:

- WB0LJK – ARRL Handbook of Emergency Communications
- W0JMK – Two tickets to the 2008 SE Iowa Hamfest
- KD0OCK – A 21st century LED-equipped doorstop

A presentation "An SWR/Wattmeter for QRO and QRP" by Jason Hsu, AA0II, concluded the evening's meeting

The meeting was adjourned at 9:31 PM.

Submitted by W0MRZ, Secretary

ARES PLANNING COMMITTEE MEETING MINUTES – AUGUST 8, 2008

Attending: N0GUD, N0UUS, WA6GFD, KF0VF, KC0ZNK, KC0ONY, KC0PON

- Hamfest ARES forum report
 - Pretty well attended compared to some other forums.
 - Good cross-flow on what some of the other counties are doing.
 - No real tasking came out of it, but good ideas.
 - Some surrounding counties are using public service rather than amateur frequencies for their operations.
 - There was some discussion about cross-county support. For example, we can feed over to other counties our radar data. Buchanan and Jones are interested.

- Obviously, this would be useful only if they have people in the field.
- Some counties use a lot of their CERT groups.
- Past month's activities
 - Nothing major occurred this past month.
 - Antenna project report
 - Goal is to coordinate with authorities to get a better antenna situation before winter sets in.
 - Main idea is to relocate a dipole to the back of the building to improve aesthetics and avoid problems with the PA system there.
 - Mercy Antenna Project
 - Did the work survive the flood/evacuation?
 - < report from YSQ >
 - WA6GFD reported on St Luke's as well. W0HUP is working to get tone ability on their (rather old, but solid) radio.
 - KF0VF asked if there is value in having hams who work at the hospital be able to get to the stations quickly before outside operators can arrive. Good idea, but chances are that in those situations the staff would already be quite busy. St Luke's is working on a similar idea, however. We will continue to monitor progress.
 - 160m net update
 - Net is working out well. Propagation up and down has been an issue.
 - We have hit some of the surrounding states.
 - There is interest in keeping the net going beyond the trial period.
 - Some discussion of other HF net ideas followed.
 - Some discussion of antennas used followed. There is a surprising variety of designs in use.
 - Labor Day fireworks net
 - Fireworks have been moved to 1 September (Labor Day).
 - Venue is apparently Veteran's Memorial Stadium
 - Turnout will be much smarter.
 - N0UUS talked about the DSM linked system as compared to the QC system.
 - DSM area has a lot of linked repeaters. QC seems to have backed off from amateur radio a little bit.
 - We should direct our abilities to communication and not be as involved in other activities.
 - There are issues on each end of any

- communications channel.
- KF0VF passed the following traffic:
 - Benton County 145.23 may be undergoing some changes. K0DPL reported that they may be moving to one big receive site rather than the five or six they have now. It will be near their transmit site.
 - www.k0kbx.com is designed to keep people up-to-date on what is going on with the repeater. On that site, they talked about repairs on the various receive sites. So it's hard to tell what is going on. Stay tuned.
 - Jones County EC situation is back where it began. Jim, W1JCM, will not take the position, but will continue to assist.

Submitted by N0GUD

FROM THE PRESIDENT'S DESK

As I mentioned in last month article, August was going to prove to be a very busy month as far as communications activities go and it certainly was. The two big events were the PIGMAN Triathlon and the MS Bike ride. I want to thank all of those stations who came out to assist with these events. I particularly want to thank those folks from other Amateur Radio Organizations who came out and donated their time and equipment to make these events a success. Kudos also go to Eric, K0ECW, for the outstanding job of organizing the radio operations side of the events.

The September program is going to be a good one. Many of us remember building a crystal radio with the Quaker Oats container, cats whisker, and high impedance earphone. What a thrill it was to receive even a local broadcast station. After listening to this program you will never look at the crystal radio the same way again!

See you at the meeting!

73, WA6GFD, Steve

FROM ERIC WATSON, COMMUNICATIONS ACTIVITIES DIRECTOR

Upcoming Events:

Volunteers are needed for the Alzheimer's Walk on Saturday 20 September at Noelridge Park in Cedar Rapids. This is a nice, low-key event for the public service beginner. Don't be afraid to volunteer, events like this are great for training. The walkers will start and finish at Harding Middle School and walk the gravel path in Noelridge Park. Hams will be stations on

the walk course and with various event officials. We will meet at Harding Middle School at 0830. The Walk starts at 0900 and should finish by 1100ish.

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:

- 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 Noelridge Park, Cedar Rapids ***NOTE LOCATION CHANGE***

Past Events:

The Dragon Boat Races were Saturday 9 August at Pleasant Creek State Park. I would like to thank the following hams for their participation: KC00NY, K0ECW, K0YLU, K0LYP, KC0AKZ, KC8NYN, KC0NXN and KC0ODI. This was a pretty good event and we had no problems. I did learn that if I'm going to sit in a boat for five hours to apply sunscreen early and often. Participants in this event are invited to send me their comments and suggestions by email at k0ecw.ericwatson@gmail.com

The Pigman Long Course Triathlon was Sunday 17 August in and around Pleasant Creek State Park. I would like to thank the following hams for their participation in this challenging event: N0XZL, KB0KW, WA0KHH, KD1AC, KD1AD, K0ECW, KC0VTT, KI0OB, W0HKR, WA6GFD, KD0BIG, N0ZJT, K0PAS, KD0EFL, KC0WUZ, KC0VDR (assistant net control), KC0NXN, KC0ODI, N0THE, KC0ALC. Every time we do the Pigman we learn something new. We only had one real ambulance call. There was some confusion because the ham in the ambulance and the ham with the emergency couldn't hear each other. I think net control will be in different location next time because of this. This year was also different because, due to road damage from the flood, the course went through Atkins and Newhall instead of Urbana. Participants in this event are invited to send me their comments and suggestions by email at k0ecw.ericwatson@gmail.com

The Multiple Sclerosis Cycle for the Cure was Saturday and Sunday 23 and 24 August. The bike ride

was from Atkins to Marshalltown on Saturday and Marshalltown to Atkins on Sunday. This was a completely new event for us this year and I think things went pretty well. I would like to thank the following hams for their participation: KC0PON, W0HKR, KC0WUZ, KC00NY, KB0KW, KI0OB, WA6GFD, K0PAS, N0YWB, KF0VF, AA0II, KD0ANA, KD0HF, K0ECW, KC0VTT, N0THE, N0LN0, N0ZJT, N0UTP, KC0YGW, W0JMK, W0MRZ. Special thanks to Jerry, KC0VTT, Fayette County Emergency Coordinator and Eric, N0ZJT, Buchanan County Emergency Coordinator for bringing the Rural Iowa ARES communications van. This van was used as net control in Vining for Saturday and most of Sunday. Very special thanks to W0HKR for doing extra duty for the MS Society, specifically, putting up and taking down the route signs and trailing the last riders into Atkins. Participants in this event are invited to send me their comments and suggestions by email at k0ecw.ericwatson@gmail.com

Commentary:

I had hoped for more volunteers for the MS Cycle for the Cure. We were short about three hams on Saturday and about 8 on Sunday. I started asking for volunteers around the beginning of July. I called for volunteers on the Sunday ARES net, the Johnson County net, I sent emails and made phone calls asking for help. I had a very limited response until about three days before the event, then I started getting phone calls and emails asking if I still needed volunteers. I find it impossible to make plans in a situation like that. Even Saturday and Sunday morning I had no idea just who was coming. It all did work out in the end.

I think everyone learned some important lessons during this event. We were operating on two repeaters and on simplex. We had problems on Saturday receiving some stations because of the antennas they were using. Loaner antennas on Sunday took care of those problems. We found that it didn't really matter what the radio was (mobile or HT) as long as the antenna was good. KC0WUZ operated all day Saturday using an HT connected to a 5/8 wavelength whip antenna on the roof of his SAG wagon. Another station using an HT with only a rubber duck was unreadable most of the time. I loaned this station a 1/4 wavelength antenna on Sunday, problem solved. This event was a good training opportunity for me operating with a dual net control on multiple frequencies. We didn't have any medical calls, which I found surprising. The weather was great, not very August-like at all. I'm looking forward to this event next year.

Due to circumstances beyond my control (work load) and circumstances that are my fault (new baby) I will not be able to run for a second term as Communications Activities Director. I have found this position to be very challenging and rewarding. I've learned a lot over the past two years and I hope hams have enjoyed working the events I've organized. I'd like to see candidates for this position emerge earlier rather than later. I would like to be able to work with the new Comm Act Director before the next season so they can hit the ground running. If you are interested in the Comm Act Director position, or just have questions about it, please call or email me. I look forward to our last two events of 2008 and beyond.

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		

K-12 CORNER

As cool weather kicks in, there are several ways to keep your hand in, and to teach new hands the pleasures of radio communication. There are also several ways to pass on essential skills.

Several area high schools teach engineering as a discipline. Project Lead the Way is a nationally recognized program to apply current disciplines to technology and science programs. A list of Iowa schools that are involved in Project Lead the Way is at: <http://www.pltw.org/schoollist-new.asp?toSelect=IA> .

US First is an extracurricular program to introduce students to robotics, including programming, design, and assembly. At the middle and elementary levels, this is done through Lego League. At the high school level, this is done through US First Robotics. There are many different ways to get involved, from judging events, to coaching teams. To find area teams and events, check here: <http://www.usfirst.org/whatsgoingon.aspx>

Finally, on Saturday, November 1st, a Boy Scout merit badge workshop will be held at Linn-Mar high School. We've been informed that they would like to offer the Radio merit badge, but need instructors. If you are willing to teach this all-day class, either by yourself, or as part of a team, please contact Mike, KC0NXN at kc0nxn@arrl.net as soon as possible.

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 Worked All 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 SALE - New 60 Ft lengths of RG-8X coax. They have a PMA connector on one end. Two for \$25.00. K0LYP John 396-4997.

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!

Area VHF/UHF Frequencies

County	Frequency	CTCSS	Location	Comments
All Counties	3990.5 kHz		statewide	Primary Iowa RACES
	7250 kHz		statewide	Secondary Iowa RACES
	3970 kHz		statewide	Primary Iowa ARES
	7235 kHz		statewide	Secondary Iowa ARES
	144.390	none	nationwide	APRS (digital)
Benton	145.230-	141.3Hz	Garrison	Primary ARES
Blackhawk	146.820-	136.5Hz	Waterloo	Primary ARES
	146.940-	136.5Hz	Waterloo	
	444.650+	136.5 Hz	Cedar Falls	Linked System (2) to State EOC
Buchanan	145.330-	103.5Hz	Independence	
Cedar	146.520	none	(simplex)	
Delaware	147.300+	none	Manchester	
Dubuque	147.240+	114.8Hz	Dubuque	
Johnson	146.850-	none	Iowa City	Primary HAMRAD
	147.150+	192.8Hz	Coralville	Secondary HAMRAD
	444.750+	none	Coralville	
Jones	145.390-	77.0Hz	Amber	Primary ARES (Backup is simplex)
	147.180+	none	Monticello	
Linn	146.745-	none	Cedar Rapids	Primary ARES
	145.150-	192.8Hz	Cedar Rapids	Backup ARES
	145.190-	192.8Hz	Cedar Rapids	Eastern Iowa DX
	147.090+	192.8Hz	Cedar Rapids	Linked system (1)
	147.210+	192.8Hz	Marion	Limited Coverage
	224.940-	none		Linked system (1)
	443.800+	192.8Hz	Palo	
	444.075+	none		
	444.300+	192.8Hz	Hiawatha	
	146.505	none	(simplex)	Primary Tactical
146.460	none	(simplex)	Secondary Tactical	
146.490	none	(simplex)	Hawkeye Radio Communications	
446.000	none	(simplex)	UHF Tactical (Severe WX Tactical)	
446.700	192.8Hz	Cedar Rapids	EchoLink station (at Intermec)	
Washington	147.045+	none	Washington	

Linked Systems:

- (1) Cedar Rapids 147.090
Cedar Rapids 224.940
Waterloo
- (2) Cedar Falls 444.650
Des Moines (State EOC)

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: _____