

W0GQ

W0WSV



Since 1949

BANDSPREAD



Associated with Linn County Emergency Management Agency and the ARRL

CEDAR VALLEY AMATEUR RADIO CLUB

Thursday, March 13th, 2008

7:30 PM

Adventures with HF in China, by Rod Blocksome, K0DAS

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 April 2008 issue is March 27th, 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

MARCH CVARC MEETING PREVIEW

The March 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, March 13th.

The program, presented by Rod Blocksome, K0DAS, will be on Adventures with HF in China. What is the state of HF Amateur radio in China? Rod Blocksome has stories about HF in China. See you at the March meeting!

RECEIVE NOTICE OF BANDSPREAD BY E-MAIL

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.

FEBRUARY 2008 CVARC BOARD MINUTES

The February CVARC Board Meeting was called to order at 7:05PM on 12 February, by WA6GFD. The meeting was held at the Marion Public Library. This meeting was moved from its normally scheduled date to allow additional time to work the 2008 budget and because a number of the Board Members had conflicts on the normally scheduled Board Meeting night.

The following Board Members were in attendance: WA6GFD, N0XZL, KC0PON, KC0OX, NA0IA, K0ECW.

KC0OX made a motion, seconded by NA0IA to approve the January Board of Directors Meeting Minutes.

WA6GFD advised we still need members to fill the office of Secretary and Information Director. Efforts will continue to find volunteers.

Per WA0KHH's request, WA6GFD passed on the list of upcoming VE sessions in Eastern Iowa. KC0OX will present these at the meetings on Thursday.

Certificates of Appreciation for outgoing/previous Board Members were discussed. Certificates will be presented at the March Meeting.

NA0IA led a discussion was held on the 2008 Hamfest mailing list. This years mailing will be cover Amateur Radio Clubs and Amateurs in those areas where we got the best response from last years mailing. Those Amateurs who attended last years Hamfest will also receive a post card. Additional details will be discussed at future meetings as the mailing deadline approaches.

NA0IA advised that CVARC will host a license class that will run on Thursday nights for approximately 10 weeks. The classes will be held at the Kenwood United Methodist Church and will end early on CVARC meeting nights to allow the students to attend the presentation at the club meeting. The classes will start on the 28th of February.

Due to changes in the printing of the Bandspread, all contributors will be asked to adhere to the submission deadlines (articles are due 2 weeks after the CVARC monthly meeting). Articles received after that date will not be included. This deadline is required to allow sufficient time to create and print the Bandspread.

KC0OX advised the annual spotter training is scheduled for 23 February at St Lukes Hospital. A flyer was printed on the back of the Bandspread.

KC0OX is working a dosimeter training session at one of the future club meetings.

KC0PON gave a Treasurer's report with \$3865.98 in the Checking Account.

K0ECW indicated the vendor with the magnetic signs has changed locations or gone out of business. He will make some additional attempts to contact the vendor.

K0ECW indicated the first radio activity would be on 19 April and that the complete list was published in the Bandspread.

K0ECW lead a discussion on the location for Field Day. While the current site presents an excellent operating location, it is somewhat out of the way and does not lend itself to visits from the public. This will be discussed further as Field Day gets closer.

WA6GFD lead a discussion on the proposed 2008 Budget. Each line item in the budget was looked at and the proposed amount increased and decreased based on the inputs from the Board Members. The proposed Budget will be published in the March

Bandspread for review by the general membership and will be formally presented at the March Meeting.

NOXZL made a motion which was seconded by KC0PON to adjourn at 8:35 PM.

Submitted by WA6GFD

FEBRUARY 2008 CVARC MEETING MINUTES

The February 2008 meeting of the Cedar Valley Amateur Radio Club, held on the evening of the 14th, was called to order at 7:37 pm by K0ECW. Due to the absence of the president, vice-president, secretary, and the treasurer being busy processing memberships, K0ECW presided over the meeting. 27 members and one guest were present. After introductions, the business portion of meeting began.

W0JMK moved, NA0IA seconded a motion to approve the minutes of the January meeting as published in the February Bandspread. Motion carried on a voice vote. KC0PON gave a short Treasurer's report, stating that the club had \$3865.98, plus receipts from five membership renewals that had come in at the meeting.

KC0OX reported that there are upcoming VE sessions in Vinton, on their regular schedule (the 4th Thursday of every month). He also reported that weather spotter training would be held in Cedar Rapids on Saturday, 23 February. See the flyer in the February Bandspread for details. K0ECW advised that construction is going on at the hospital, you should allow extra time to find a parking space.

KC0OX also reported that in early March the ARES district and county EC's will meet in Cedar Rapids, and that they would appreciate hearing any ideas. For example, should there be a designated frequency in the 160m band, or should there be a 160m net?

AA0II reported that tonight's program by Jeff Woods, W0ODS, would be on longwave DX. He is also looking for ideas for programs for the March, April and May meetings. W0JMK suggested a homebrew night. AA0II replied that there was a good chance to see this in the near future.

NA0IA reported that a Technician class would be held on Thursday evenings at 7 pm at Kenwood Park United Methodist Church starting on Thursday, 28 February. (This is the first Thursday after the weather spotter training.) The class would continue for a total of 10 weeks and be followed by a VE session. The VE session would likely be on a Saturday in early May.

The class would not be held on the Thursday before Easter, and would meet at 6:30 pm on 13 March so that it would not conflict with the CVARC meeting that evening.

KC0NXN reported that due to a change in the print shop we have been using, Bandspread deadlines are now firm. (Ed. The deadline for each issue is two weeks after the regular CVARC meeting.)

K0ECW reported that the magnetic signs for cars are on hold until he can find a local sign maker, since the one he had planned to work with was no longer in business. He also showed the ARRL magnetic signs, which cost \$13 each (compared to the \$22 he had been looking at) but do not show our club name. He also showed another sign mockup, and asked if anyone knew of a local sign manufacturer. He is still taking orders for signs, contact him at k0ecw.ericwatson@gmail.com or 361-7951. The club still plans to buy 10 signs, plus additional signs based on orders from members.

K0ECW reminded us that the first public service event is the MS walk on Saturday 19 April. There was a brief discussion about having the CVARC Field Day setup at a new location. He pointed out that it's not exactly an emergency preparation exercise if we set up the same things in the same place year after year. He said that if it was more in the open it would be more visible to the public.

NA0IA pointed out that many of the CVARC Field Day participants come from Cedar Rapids. W0SS said that the Regis Middle School site is centrally located. K0ECW said that it would be good to be in different locations. AA0II said that Pleasant Creek recreation area would be a great location, since many members would be out there to help with Dragon Boat races anyway. We might also be more visible to the public because of the many hikers and campers in the park that weekend. K0ECW said that we would probably have to pay a camping fee, since we would be there overnight. NA0IA asked if the restrooms would be open, which would save us the cost of renting a portable one. N0LNO pointed out that there might be antenna restrictions. K0ECW replied that we would get the park ranger's permission, but that she has seen our communication operations for Dragon Boats and other events.

NA0IA moved, AA0II seconded, motion that K0ECW continue to investigate this. Motion carried on voice vote.

K0ECW said that for communication events, if

you volunteer, bring a friend. We're **especially** interested in getting new hams to get some experience, or if you haven't helped out in a while. He also said that everyone who had submitted their name to him to pass on to the Sheriff's department had been approved, so now they can be allowed in to the Linn County Sheriff's Department Radio Room. W0JMK asked if there would be a walkthrough of the facility for those who had been approved. K0ECW replied that he was sure it could be arranged. NA0IA asked about offering to help the Cedar Rapids police department on the 4th of July. KC0OX said that they hadn't been approached yet, but we are working with St. Luke's and now Mt. Mercy -- details will be forthcoming.

K0ECW also reminded the club that the positions of Secretary and Information Director are still open. If anyone is interested in taking on these positions, please let a CVARC board member know. There is a state requirement that our club have a secretary.

KC0NXN moved, N0UTP and W0SS seconded, a motion that CVARC jointly sponsor an award at the Eastern Iowa Science and Engineering Fair next month, CVARC's share not to exceed \$50. CVARC has done this for several years now (ed. starting in 2004), and the Collins ARC approved sponsoring their share of this award at their meeting earlier this month. A brief discussion followed; NA0IA pointed out that the Collins ARC is providing \$100 towards this award, did CVARC want to increase its share? Motion with original \$50 limit passed on voice vote.

NA0IA moved, KC0YGW seconded, that the business meeting be adjourned. Motion carried on unanimous voice vote and the meeting adjourned at 8 pm.

After a short break for goodies, the door prize drawing was held. KC0PON was drawn as the winner, and received a copy of the ARRL book "Hints and Kinks."

Submitted by WA6GFD, President

FEBRUARY 2008 PROGRAM NOTES

Jeff Woods, W0ODS, for his talk on "Longwave and Low Band DXing." After his presentation, which was warmly received by the audience, W0ODS took questions and the meeting ended at 9:20 pm.

Highlights of W0ODS' presentation: He grew up in Coggon, Iowa. After getting an engineering degree, he answered an ad in QST and became a Radio Telegraph officer on a merchant marine vessel for four years. He also worked for Kachina Communications

in Arizona, which built the first IF DSP rig for the ham market, Rockwell Collins in Cedar Rapids, and now works for Softronics in Cedar Rapids.

He has one of the few privately owned longwave antennas in the world -- a 1/2 mile long Beverage antenna. The ITU defines longwave transmissions to be from 30-300KHz in frequency or 1000 to 10,000 meters in wavelength. Generally 300 to 525 KHz is used. This band is not used much by hams, but has excellent propagation due to groundwave (no skip zones). It's also easy to make power at the transmission frequency, rather than converting from utility power frequencies. For example, SAQ in Sweden generated power at 17.2KHz and plugged it directly into their transmit antennas. The US military uses this for submarine communications, and the WWVB signal at 60KHz used to set "atomic" clocks. It's also used for low-power non-directional beacons for aircraft. There's a station around 535KHz in Iowa City.

The LW broadcast band is 153-279KHz, with 9KHz spacing and excellent regional coverage. It's used in Iceland, which has a lot of mountains and valleys and thin rocky soil. He played some sound recordings of these stations, including an Icelandic one. Most general coverage receivers will tune this band, but "it's all about the antenna" and "there's no substitute for a sizeable Beverage." Active whips and compact loops work better on the East Coast, closer to European stations. Be sure to turn off light dimmers and switching power supplies to cut down on interference.

Since his antenna goes into his neighbor's farm field, he has to take it down in March. But by that time the noise from thunderstorms around the world make it hard to copy any signals anyway.

It takes 3 hours to set up a 1/4 mile Beverage, longer for the 1/2 mile antenna. A spool of aluminum wire lasts 2 - 3 years, and he checks the antenna once a week when it's up. The antenna is about 10 feet off the ground, supported on posts about 60 paces apart (about 150 feet).

Submitted by KC0NXN

ARES PLANNING COMMITTEE MEETING MINUTES – FEBRUARY 2008

Attending: N0GUD (recording), KC0OX, WA6GFD, KD0HF, KF0VF, KB0KW

Spotter Training

The Web page is up, and fliers were distributed

through EMA (twice!). Collins club has information disseminated. We should make this month's Bandspread for CVARC. KC0OX will contact WA0ZZG about calling the local papers. KD0HF will get information to Red Cross. This year's session will pretty much be the same as last year's. N0LNO will serve as host and set up the room.

We will see about setting up a ham radio display. It appears there will be no advanced training this year.

Mercy Hospital Remodeling

Remodeling plans are not yet complete, but the antenna areas are among those to be renovated. We informed them that we are interested in getting the ham antennas moved. We will need to have a walk-through to see what needs to be done on a practical basis. We will also work out funding, either with the local clubs or with the hospital. Our volunteers are willing to do the work. We also have a contact at Mercy for their Emergency Planning. We will talk to them this year to set up a drill of some sort, or to work within one of their drills. Darwin, at St. Luke's, is aware that they may have issues with some repeaters if they cannot get a subaudible tone unit on their radio.

Winter Weather Net Activation

The procedure we have now does not state clearly who is authorized to call winter weather net. Since it is only a standby net, anyone is authorized to start the net. A formal net will fall under the usual guidelines. (Formal nets are not normally required for winter weather, as these events are usually very slow-moving.) The website will be updated to reflect the intent of the procedure.

Planning for 160m emergency net

We discussed making arrangements for a statewide ARES net on 160m. We have had incidents during winter where the 75m band was not conducive to clear, statewide communication. Approval of the net will ultimately come from NA0R, our SEC. It may be a topic of discussion at the next Iowa ARES leadership meeting. KF0VF pointed out that it is not critical on 160m to have an NVIS antenna set up as it is on 80m. KC0OX suggested that another idea for the coming sunspot cycle is to get more stations with 60m capability. A first step for use of 160m will be to select a frequency and conduct some tests and drills. This should involve multiple locations throughout the state. 1900h seems like a good time for a drill. It would probably be good to get a frequency so that people can start working on their antennas! KB0KW asked how likely it is that people will actually gear up

for that frequency. Participation is a potential problem, as most ham activity locally seems to be on VHF and above.

Linn EOC does not have 160m capability. A local relay station would work around this.

Miscellaneous Topics

Turkey Trot- The Turkey Trot was held in November. The use of a second frequency is usable. We shouldn't use two frequencies in the same band to avoid desense. Most people have dual-band radios, so this is more workable now than it was in the past.

Stormlab - KC0OX says they have a major upgrade for their radar package. It is a Windows-oriented interface. We might consider a copy for the EOC.

Net control stations - Suggestion is that alternate net controls be given the opportunity to run two Sunday nets per year. It was pointed out that it takes more than having a few nets under one's belt to be a good net control. It is still good to let people get practice with an eye to doing more nets. We will encourage more people to participate as NCS without establishing a minimum number of nets, as it is difficult to determine exactly what qualifies as a good net (Sunday nets, storm watch, informal nets, etc.).

EOC Station License - KC0OX has placed station licenses at the EOC.

Hiawatha FD - KC0PON has researched the Hiawatha FD radio. Alinco DR590. The trick with the radio is that it must be powered off at the receiver before 12V power is removed or the radio loses all programming.

New FEMA Classes - KC0OX has circulated two classes that FEMA offers, one new and one revised. IS-120.A is "An Introduction to Exercises." He had taken the earlier version of the course, and it seemed good. Nobody in attendance had taken the revised version yet, so the delta is not known. KC0OX will take the class and report. The new course is IS-130, "Exercise Evaluation and Improvement Planning." They should take about five hours each.

Benton County Grant - KC0OX got a note from the Benton EC. Benton County is applying for a grant that could greatly improve the 145.23 repeater. They plan to add receive sites to the repeater, but this will be done as part of the general upgrade. They are asking for letters of support from area emergency coordinators to assist in the garnering of the grant.

Diesel Database - All inputs received are already

in the database. Without further input, the database will go static. We'll have to periodically push for updates if we want to keep it reasonably up-to-date.

Springville 5k - KF0VF was asked this week if the former REACT group is interested in working the Springville "Spring Into Spring" 5k race. The date is 15th March. All hams are invited to participate.

Airport Drill - There will be an airport exercise on 17 May. No further details are available.

rf.org E-mail Reflector - The block between mchsi and AT&T and the reflector has been removed, we think! We will monitor e-mail for bounces to see if this sticks.

Pager Tests - N0GUD wants to do more regular tests of the Linn County pagers issued to ARES.

FROM THE PRESIDENT'S DESK

I am sorry that I missed the last meeting as I heard the program was a very good one. I would like to thank Eric and Mike for filling in and keeping things moving along.

Are you interested in 160 meters? There is a small group of us who have been testing communications on the 160 meter band to see if this band could be used to augment the existing State Amateur Nets. We have been hanging out between 1970.0 and 1980.0 KHz on a random schedule but may soon make it a regular weekly meeting. We'll announce it on the Sunday night net and invite as many of you as can to join us.

The Weather Spotter Training conducted last weekend was a great success. It was standing room only and several folks came in and left due to a lack of seating. There was a good mix between Amateurs and Non-Amateurs attending this session and hopefully we can capture a few on the non-Hams with the class that starts on the 28th of February. One of the points made during the session was because this is a La Niña year, we can expect more severe and more intense weather this year. Time now to start getting prepared by checking grounds and cable and such.

Look forward to seeing you all at the March meeting. The program for this meeting is a very interesting program as well and hope you will all be able to make it out and enjoy it.

73, WA6GFD, Steve

FROM ERIC WATSON, COMMUNICATIONS ACTIVITIES DIRECTOR

There are no CVARC-affiliated communications events for March. That being said, Doug KF0VF is looking for volunteers for the Springville 5K run on Saturday, March 15, beginning at 8:30 AM for the Kids' Run and 9:00 AM for the main event. Doug will need about 16 operators to cover the 5K. If you have questions or would like to volunteer for this event please contact Doug, KF0VF, at kf0vf@yahoo.com.

The first CVARC affiliated communications event will be the Multiple Sclerosis Walk on Saturday 19 April around Washington High School in Cedar Rapids. This will be a good event to get your feet wet in public service communications. Many hams will be needed for this event. We will meet at Washington High School at 12:30 and the event should finish around 15:00. Please contact me at 319-361-7951 or k0ecw.ericwatson@gmail.com if you have questions or would like to volunteer.

All hams, regardless of experience or club affiliation are invited to participate in public service events. Join us as we expand our horizons and learn just how high I can get my J-pole using a tripod and no guy wires.

As of this writing the Events Calendar for 2008 is:

- Saturday 19 April: Multiple Sclerosis Walk
- Saturday 17 May: Marion Arts Festival 5k Run/Walk
- Sunday 1 June: Pigman Sprint Triathlon
- Saturday 28 June: Dragon Boat Races
- Saturday and Sunday 28, 29 June: Field Day
- Saturday 5 July: Linn County Fair Parade
- Sunday 17 August: Pigman Long course Triathlon
- Saturday and Sunday 23, 24 August: Multiple Sclerosis Cycle for the Cure. Overnight stop in Marshalltown.
- Saturday 20 September: Alzheimer's Walk
- Sunday 26 October: Devil's Dash 5k/15k Run/Walk

Please check out the web calendar for the latest information about an event:

<http://my.calendars.net/iowad6w>

SPOTTER TRAINING SUMMARY

We enjoyed another record breaking attendance at the 23 February 2008 Severe Weather Spotter Training session in Cedar Rapids. Here is a breakdown for County and affiliation.

Total Registered: 203

By County:

Linn – 149
Benton – 24
Iowa – 11
Johnson – 8
Jones – 5
Cedar -2
Scott – 1
Buchanan – 1
Polk – 1
Delaware - 1

By Affiliation:

General public – 103
Amateur Radio – 77
Emergency Management – 7
Fire Dept. – 6
Red Cross - 4
Media – 2
CERT - 2
Hospital – 1
Private Company - 1

Thanks to Bill, N0NLO, for scheduling the session with the NWS and arranging the facilities with St. Luke's. Thanks also to Dave, WA0ZZG, and all the others that helped with publicity. We continue to grow!

(Ed. Note. Donna Dubberke, KC5MDO, provided the training. It was an amalgam of the basic and advanced training of previous years. Highlights included a step-by-step spotter's reference sheet, and multiple squad car videos of the Muscatine tornado of 2007.)

K-12 CORNER

We have updates on several stories we've been following in this column:

Recently both the Collins Amateur Radio Club and CVARC voted to jointly sponsor an Award for Outstanding Achievement at the Eastern Iowa Science and Engineering Fair (EISEF) on 15 March at Lindale Mall. This award will go to the student(s) displaying the best use of radio or radio-electronics in their exhibit. A maximum of one award will be given in the

Senior division, and a maximum of one award will be given in the Junior division.

Any project that tries to answer a question or has a hypothesis that bears on radio or radio-electronics will be a contender for the award, as well as any project where the design and construction of the experimental apparatus demonstrates skills that can be applied to Amateur Radio.

If you would like to help judge for this award, please contact Mike Miller, KC0NXN, at 319-377-5929 or kc0nxn@arrl.net. The judging will take about 2 to 3 hours on that Saturday morning. The EISEF is also looking for judges for the regular awards; you can use the on-line sign-up form at http://www.eisef.org/Volunteer_Signup.htm.

There are winners in the ARRL Homebrew Challenge. The goal was to design a transceiver for an HF band with 5W output in voice and CW, for no more than \$50 in parts. The May 2008 issue of QST will have an article on Jim Veatch's, WA2EUJ, design. This uses a PC to program a microcontroller. The other winning design, by Steve Weber, KD1JV, will be in a later QST article. Both transceivers work in the 40m band.

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

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!

PROPOSED CVARC BUDGET FOR 2008

BUDGET 06 ACTUAL 06 BUDGET 07 ACTUAL 07 BUDGET 08

INCOME

Dues	1200.00	940.00	940.00	1130.00	1000.00
Interest	459.83	459.83	600.00	683.51	600.00
MISC.DEPOSIT	360.00	226.00	300.00	0.00	0.00
Sales	50.00	80.00	85.00	215.00	0.00
Summerfest Income	3500.00	3416.72	3700.00	4576.00	4100.00
Transfer From CD				3725.00	

	=====	=====	=====	=====	=====
Total Income	5569.83	5122.55	5625.00	10329.51	5700.00

Expense

Bandsread	800.00	528.40	600.00	517.65	600.00
Bank Charges	15.00	2.79	5.00	1.69	5.00
Education				31.50	50.00
Field Day	530.00	288.24	400.00	96.69	400.00
Food at Meeting				73.64	100.00
Hall Donation	220.00	220.00	220.00	220.00	275.00
INSURANCE	360.00	338.00	350.00	344.00	350.00
Membership Promotion	550.00	110.23	200.00	185.15	500.00
Miscellaneous	100.00	286.25	200.00		200.00
Public Service Activity	100.00		100.00	361.86	200.00
Repeater	?		0.00	0.00	
Social	450.00	613.46	650.00	450.00	600.00
Special Events	140.00	46.90	100.00	209.07	200.00
Station Emergency Perp	200.00	160.93	200.00	0.00	200.00
Summerfest Expense	2000.00	2034.36	2400.00	4861.53	2700.00
Po Box Stamps		200.00	200.00	215.00	200.00
Training	100.00			0.00	50.00

	=====	=====	=====	=====	=====
Total Expense	5565.00	4829.56	5625.00	7567.78	6630.00

Difference	4.83	292.99	0.00	2761.73	-930.00
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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: _____