

W0GQ

W0WSV



Since 1949

BANDSPREAD



Associated with Linn County Emergency Management Agency and the ARRL

CEDAR VALLEY AMATEUR RADIO CLUB

Thursday, October 9th, 2008

7:30 PM

"APRS and Beyond" by Gregg Lind, KC0SKM

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 November 2008 issue is October 30, 2008

BANDSPREAD

The Voice of the Cedar Valley Amateur Radio Club

Bandspread Staff

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ARRL Volunteer Consulting Eng	Steve Sawyers, NAØIA	295-5983	377-2877

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

OCTOBER CVARC MEETING PREVIEW

The October 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, October 9th, 2008.

The meeting will include information on volunteering for the remaining event on our schedule. The program will be "APRS and Beyond" by Gregg Lind, KC0SKM.

The presentation is about a general understanding and introduction of APRS, and how you as a HAM can take advantage of this technology for service event support, weather watching, contacting other HAM as you travel down the road. We will be demonstrating a low cost tracker, low cost TNC implementation kits developed by <http://www.byonics.com/> that I have assembled. We will show information regarding local APRS usage, how you can take advantage and use this technology for very little cost and improve your enjoyment of Ham radio hobby.

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 new year, 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. We hoped the change to default electronic publication will save some 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.

We hope to have the October issue available as a series of HTML pages before the October meeting, so that CVARC members can weigh in on their preferred format.

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 January 2009 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

SEPTEMBER 2008 CVARC BOARD MINUTES

The September 2008 Cedar Valley Amateur Radio Club Board of Director's meeting was held 11 September 2008 at the Kenwood United Methodist Church. The meeting was called to order at 6:32 PM by President WA6GFD. Others in attendance were: N0XZL, KC0PON, WA0KHH, AA0II, KC0OX, N0UUS and W0MRZ.

The Board Minutes from the August 2008 meeting were accepted without modification by a unanimous vote of the Board

KC0PON reported the balance in the checking account at \$2,347.59

Vice President announced that Ron Weston, from Des Moines, was the winner of the grand prize at the recent Club Hamfest.

WA0KHH reported that 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. Other upcoming area examinations will be held in Davenport (28 September), West Liberty (5 October) and Moline (11 October).

On behalf of K0ECW, the club president updated Board members on upcoming local events in which CVARC has been asked to provide communications services; these events will be detailed in the next Bandspread. WA6GFD discussed the need for ham volunteers for a Cub Scout Pack Jamboree on the Air as well as the need to support a November Scouts Merit Badge Program.

N0UUS made a presentation to the Board in which he outlined a number of organizational issues regarding CVARC and its relationship to the local ARES chapter. N0UUS was invited to present his detailed concerns in writing to the Board and he agreed that he would do so.

Meeting adjourned at 7:22 PM

Submitted by W0MRZ, Secretary

SEPTEMBER 2008 CVARC MEETING MINUTES

The September 2008 general membership meeting was held Thursday, 11 September 2008 in the

Kenwood United Methodist Church. The meeting opened 7:32 PM by President WA6GFD. All attendees and guests introduced themselves; 44 members and guests were present.

Following a motion by K0PAL, seconded by N0CNO, the minutes for the August 2008 minutes were accepted unanimously by those present.

WA0KHH reported that 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. Other upcoming area examinations will be held in Davenport (28 September), West Liberty (5 October) and Moline (11 October).

KC0OX advised members that there would be a 'dry run' for the Duane Arnold/FEMA Dosimetry Test using the 146.745 repeater on Wednesday, 17 September from 0900-1400. All interested amateur radio operators were invited to participate.

Following a brief discussion regarding electronic publication of the Bandspread, a motion was made by WA6GFD and carried unanimously to wait until the close of this calendar year before finalizing the mailing list(s) for the Bandspread in both electronic and hard copy formats.

Club Treasurer KC0PON reported a current checking account balance of \$2,347.59.

WA6GFD, on behalf of K0ECW, outlined the need for volunteers to staff upcoming events. A detailed schedule for these events will be printed in the next Bandspread. WA6GFD discussed the need for ham volunteers for a Cub Scout Pack Jamboree on the Air as well as the need to support a November Scouts Merit Badge Program.

N0GUD discussed the Witch Watch patrol for the Sheriff's Department on Halloween evening. Approximately 5-7 cars will be needed to be staffed with two ham operators each, while an additional 3 people will be staffed at the Sheriff's Department. Further details on the Witch Watch will be provided in the near future by N0GUD.

Finally, Club members were reminded that the 75th Anniversary of Rockwell Collins was to be celebrated on September 20th-26th. A special operating certificate/QSL card would be issued to all hams who secured at least 4 QSL cards from the participating Rockwell Collins Ham Stations.

A presentation entitled "Engineering the Crystal Radio" was presented by Dave Cripe, NM0S following the conclusion of the business part of the meeting.

The meeting was adjourned at 9:37 PM.

Submitted by W0MRZ, Secretary

ARES PLANNING COMMITTEE MEETING MINUTES – SEPTEMBER 4 2008

Attending: N0GUD, KC0OX, KD0HF, WA6GFD, N0XZK, KF0VF, KD0CGN, KB0KW, KC0PON, KC0ONY

- DAEC Drill (KC0OX)
 - 17-18 September – Dress Rehearsal
 - ◆ 18th does not quite have defined content – stay tuned for details.
 - ◆ Amateur involvement on 17th.
 - ◆ Need a volunteer to run the radio at the EOC. KD0HF and N0GUD indicated they are available.
 - ◆ Might want to have one station at EOC and one at home with HF. DSM will be supporting HF operations for the drill.
 - ◆ KC0OX is pulling information from other ham groups that participate in drills to see if we can increase our participation. Thus far, it appears we are more involved due to being part of dosimeter delivery. (Only Iowa groups have been contacted through the various Iowa emergency coordinators.)
 - 21-22 October – FEMA-evaluated
- Diesel Database Status (KC0OX)
 - KC0OX has continued the survey in Linn county with KF0VF's help.
 - K0ECW is going to report on the Mt Vernon/Lisbon area.
 - WA6GFD reports that some stations may now have diesel available. There will be no further specific activity on the database, but if anyone notices that a station has diesel and is not in the database, we'll update it.
- Active Project Status (various)
 - WA6GFD Develop the details of an HF Dipole request at EMA.
 - ◆ Talked to Tom after last month's EMA meeting. We'll put together a plan and submit it for review.
 - ◆ We may move the CAP antenna at the same time.
 - ◆ The antennas will PROBABLY be moved to behind the building.
 - KD0HF Develop the details of an audio panels for the D-700 dual bands at EMA.
 - ◆ No report.
 - KC0OX Develop Interwarn summary

- sheet for EMA.
- ◆ Completed
- KC0OX Develop Stormlab summary sheet for EMA
- ◆ Not complete.
- KC0OX Finish dosimeter discussions with EMA
- ◆ Brad at EMA is on vacation until 10 September. Will pick up after that date.
- KC0OX ARES and ARESBRD reflectors reassignment
- ◆ N0GUD is now managing both reflectors.
- WA6GFD Implement plan to connect ATV radar to wall mounted TV in Comm Center.
- ◆ We need to get some time out there when there is not a lot of activity.
- ◆ EMA was receptive to the idea.
- ◆ We have the equipment to do this. It has been tested at another facility, and it all works.
- ◆ Basically just need to set up a test connection and see how it goes.
- KC0OX Propose plan for connection EOC video projectors to wall mounted TVs in Comm Center.
- ◆ KC0OX has a proposal written up to be submitted. It will be discussed with Tom and Brad at EMA possibly next week.
- ◆ Might be able to get the information on the PC there for the DAEC drill (see above).
- N0GUD Witch Watch Preparation
- ◆ Linn County Sheriff's Office (LCSO) is willing to host us this year.
- ◆ WA6GFD and N0GUD made a trip out to the temporary dispatch at Abbe Center.
 - There is a room for us (NOT with the dispatch operators).
 - Windows open, a station should be possible there.
 - Would like two people at net control, maybe three. One active on radio, one runner, and one standby.
 - Will coordinate and gather volunteers as usual.
 - It's unlikely that gasoline will be reimbursed this year due to circumstances.
 - KD0CGN suggested that 70 cm could be used to coordinate hams in the facility.
 - KC0OX suggested using a scanner
- in the room to monitor LCSO activity, saving some trouble.
- KC0OX reminded us to use the publicity checklist. (N0GUD) (KD0HF will take calls for volunteers)
- Update on Mercy Medical Center (WA6GFD)
 - Mercy has requested an access list that has the names and calls of those operators most likely to staff the hospital.
 - ◆ Part of what they discussed previously was issuing badges. We need to get a clarification as to whether this is the intent.
 - ◆ With badges, we are suddenly limited as to who is allowed to enter.
 - ◆ WA6GFD suggests we solicit volunteers who would like to staff the hospital, and submit those names. N0GUD asked if they weren't just asking who was there before.
 - ◆ John at Mercy was going to check on the status of the rumored new radio room. He'll get back to us.
 - ◆ Everything was fine in the current room post-flood.
 - Recognition of folks who staffed the hospital
 - ◆ We will submit the names of those who staffed during the flood event. (N0GUD, WA6GFD to convey to Mercy)
- Update on St Luke's
 - W0HUP was going to get tone capability in the 227 radio. We have no status on that this month.
- Task Definition – how to assign tasks more effectively (KC0OX, N0GUD, WA6GFD, group)
 - The idea here is to get our high-level suggestions and actions down to small, definable, assigned tasks.
 - Any task we don't get to that state will go to a “parking lot,” which captures the idea and holds it until we can assign tasks. This will prevent loss of ideas.
 - Anything in the parking lot for more than a couple of months should be descoped or deleted.
 - [Discussion of items from past three months' minutes followed. Task list created from this discussion.]
- Proposal to change the regular meeting night.
 - Various nights (not limited to weekends, although the original suggestion was to move

to a weekend) were discussed.

- It would be good to know from the suggester what additional stations might participate if we moved the meeting to a weekend. Suggester has not contacted N0GUD directly, so we're not aware of who might have problems with our traditional Thursday dates. Perhaps a poll on the website or the ARES reflector would work. N0GUD will investigate.
 - Consensus was that the first Thursday plan is working well, so for the foreseeable future, the meetings will continue to be on the first Thursday.
 - Weekends were felt to be particularly bad during good weather when events are active. KB0KW suggested that perhaps we could have a couple of "trial balloon" Saturday or Sunday meetings (in addition to the Thursday meetings) to see how participation might go. N0GUD will investigate this possibility.
- Miscellanea
- CVARC has extended the reimbursement for the EC courses to levels 2 and 3. But the level 3 course is being updated and will be suspended 1 October, so get in quickly if you are interested in this course.
 - KF0VF asked if "nifty cards" (laminated instructions for radios) might be good to push for those not completely familiar with their radios. Available on the WWW, such as http://www.wb0w.com/wb0winc/nifty_cards.htm.

Submitted by N0GUD

FROM THE PRESIDENT'S DESK

October is upon us already, and already some trees are dumping their leaves! I have also seen some of the wooly caterpillars and they are already sporting a heavy coat. From the local lore, this means we could have another cold winter coming on. Now is the time to start taking that last look at antennas, feed lines and outside things to make sure they are ready for what ever weather that might be ahead of us. It is also time to take another look at your GO-KIT or other emergency radio equipment to make sure batteries are charged and ready to go and that the antennas are still functional.

I understand the October Program is going to be on Automatic Packet Reporting System (APRS). There has been quite a bit of discussion on trying to increase

the number of CVARC and ARES members who have APRS capability. This might present a good opportunity to ask questions on how to set up and operate an APRS station.

Look forward to seeing you all at the meeting!

73, WA6GFD, Steve

**FROM ERIC WATSON,
COMMUNICATIONS ACTIVITIES DIRECTOR**

Upcoming Events:

Volunteers are needed for the Muddy Monster 5k/15k Cross County Run and Fun Walk on Saturday 25 October at Noelridge Park in Cedar Rapids. Last year this event was called the Devil's Dash and was held at Seminole Valley Park, which isn't there any more. This year this event will be held on the familiar grounds of Noelridge Park. The runners will run the path multiple times depending on how far they are going. We will meet at Net Control somewhere near the Harding Middle School parking lot at 0930. The Race begins at 1035 and should finish around 1230ish.

This will be a good training event for new hams or those new to public service events. We will use HT's and simplex frequencies for this event.

Any ham interested in learning to be a net control operator should let me know. I believe that the more hams that have any kind of net control experience, the better. This is a good time to learn how.

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 :

- 25 October, Saturday, Muddy Monster Cross Country Run (formerly the Devil's Dash) at Noelridge Park, Cedar Rapids ***NOTE LOCATION CHANGE***

Past Events:

The Alzheimer's Society Memory Walk was Saturday 20 September at Noelridge Park. I would like to thank the following hams for their participation: K0ECW, K0YLU, WA6GFD, N0GUD, W0MRZ, KC0ONY, W0HKR, KI0OB, KC0WUZ, KC0NXN, KC0VAD and K0PAS. We had a good time and except for some walkers that needed a ride in the golf cart, there were no problems. Participants in this event are

invited to send me their comments and suggestions by email at k0ecw.ericwatson@gmail.com

Commentary:

As mentioned in last month's Bandsread, I will not be able to seek re-election for the office of Communications Activities Director. I invite anyone who would be interested in this position to contact me to get the inside scoop on exactly what the position entails. I would like to work with the new director before next year's season gets underway.

During my preparation for the MS Cycle for the Cure in August, I talked with the EC's of Polk and Marshall Counties. They expressed the same problems and frustration in finding volunteers for public service events. One of them mentioned to me that he thought that some hams (maybe the majority) didn't volunteer because they were afraid of saying the wrong thing on the radio, not knowing what to do, and of looking silly. I talked to my wife about this because she has also been reluctant to volunteer with me. She said she was afraid of saying the wrong thing on the radio, not knowing what to do, and of looking silly. This was a revelation to me, and would certainly explain why I've sometimes had problems with having enough hams at events.

I would like to get with some people; ECs, experienced net controls, experienced public service volunteers, and organize a training event. It might be a scripted or semi-scripted 5k run/bike ride/disaster response/storm watch kind of thing.

We could get hams used to talking to and through net control, with BEING net control, with making concise reports about what ever, with passing routine, priority and emergency traffic in an environment where mistakes DON'T matter because NOTHING is on the line because it is a 100% training event.

We would open the event to any ham in the area and especially invite new hams, Boy Scout hams, CERT, ARES organizations, other clubs, whoever. I'm interested in your opinions about this. I don't know that we will have time to do more that work out some of the details before the club election but I can work on this after the new year and maybe we could do the training event around the time of weather spotter training before the public service events start happening. Please send me your thoughts by phone at 319-361-7951 or via email at k0ecw.ericwatson@gmail.com

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		

DAEC DRILL ON OCTOBER 21, 22 – FEMA EVALUATED!

This is the big one! Participants are needed for a radiological emergency drill involving Linn County EMA, DAEC and other public service agencies. The drill is scheduled to last two days. Although we do not have details of the drill plan, it is expected that Amateur Radio participation will be requested only on Tuesday, October 21st. We need to show our best participation, as this will be the drill evaluated by FEMA. The exercise will start at approximately 9AM, and will likely end around 2 PM, depending on the scenario presented.

As before, we would like as many operators as possible to monitor 146.745 and simulate participation in the drill. During the drill, you will be given instructions on how to pick up and deliver the dosimeters. Net control will provide updates of event status, keep track of the availability of all participants (check-ins, check-outs), and report the simulated delivery of dosimeter packets. For this drill, please do not report to the EOC unless specifically requested.

If you have any questions, feel free to contact me.

Ron Breitwisch, KC0OX
kc0ox@arrl.net
 Home 373-0095

WITCH WATCH

"Witch Watch" is the nickname of a cooperative program between Linn County Amateur Radio operators and the Linn County Sheriff's Department (LCSD) as a method to provide extra eyes and ears for LCSD. We would like to again limit participation to 6 cars. As a result, we are asking all participants to register in advance. Notify Scott Haney, N0GUD, phone 366-1465, or Tom Hess, KD0HF, phone 395-9629, prior to Monday, October 27th, if you are interested in participating.

We recommend at least two people per car: one person to drive, and one person to navigate, log events, and support radio traffic. We would rather have you register in advance and have you decline at the last moment due to unforeseen circumstances, than to not volunteer. We will be taking a list of stand-by participants.

We plan to meet at the Sheriff's dispatch office at the Abbe Center, 1860 County Home Road at 5:30 PM on Halloween, October 31. Talk-in will be on the 146.745 repeater. If you are unable to participate until later in the evening, we can still accommodate you, but please notify us of this situation in advance.

When you volunteer, please provide the following information for your team:

- Name and call sign of driver
- Vehicle description—license plate, year, make, model, color
- Name(s) of riders and call signs (if any)

K-12 CORNER

This year's scout Jamboree on the Air (JOTA) is 17 - 19 October. JOTA takes place starting Saturday at 0000 hours local time (12:00 AM) to Sunday, 2359 hours local time. This is the 50th year that the JOTA has been held. The ARRL has a web page for your reference at <http://www.arrl.org/scouts/jota/>.

The frequencies used nowadays are

Band	SSB (phone)	CW (morse)
80 m	3.690 & 3.940 MHz	3.570 MHz
40 m	7.090 & 7.190 MHz	7.030 MHz
20 m	14.290 MHz	14.060 MHz
17 m	18.140 MHz	18.080 MHz
15 m	21.360 MHz	21.140 MHz
12 m	24.960 MHz	24.910 MHz
10 m	28.390 MHz	28.180 MHz
6 m	50.160 MHz	50.160 MHz

We're always looking for simple demonstrations that allow us to talk about radio and its uses at several grade levels. Now that it's getting a little colder outside, listening for meteor scatter signals on an FM radio is worth a try -- you can do this while sitting inside where it's warm. There are several meteor showers coming up this fall that should increase your chances of hearing something: the Draconids (8-9 October), Orionids (21-22 October), Leonids (17-18 November) and Geminids (13-14 December).

When a meteor enters the atmosphere, it leaves behind an ionized trail that that will reflect radio

waves, including commercial FM. (It's also used for very quick QSO's on amateur frequencies -- see <http://www.arrl.org/tis/info/moon.html> regarding moonbounce communications.)

You'll need a regular commercial FM receiver. You'll need to find a quiet spot on the FM dial. Ideally, that same frequency is being used by a powerful station 150 - 500 miles away. When you hear a sudden burst of sound -- not static -- from the radio, a meteor trail must have formed in the right spot between you and the distant station for a small part of their signal to be reflected towards you.

The helpful folks at the FCC have a web page just for you -- give your position and a radius, and it will return a list of all FM stations within that distance: <http://www.fcc.gov/mb/audio/fmq.html>. This list includes distance, bearing and power. Happy hunting!

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 kc0nxxn@arrl.net

KC0NXXN & KC0NXXO

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?

KC0NXXN & KC0NXXO

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 kc0nxxo@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: _____