

W0GQ

W0WSV



## BANDSPREAD



Associated with *Linn County Emergency Management Agency* and the *ARRL*

## CEDAR VALLEY AMATEUR RADIO CLUB

Thursday, April 9, 2009, 7:30 PM  
Building Elecraft Transceivers by NZ0R, Craig Rairdon  
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](mailto:cvarcbrd@rf.org)

**Deadline for May 2009 Issue is April 23, 2009**

# **BANDSPREAD**

*The Voice of the Cedar Valley Amateur Radio Club*

## **Bandspread Staff**

Publisher	Cedar Valley ARC	e-mail or Business (PHONE)	HOME
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## **Club Officers**

President	Steve Jones, WA6GFD	wa6gfd@aol.com	377-2219
Vice-President	Rick Olney, NØXZL	rolney@qwest.net	396-8979
Treasurer	Dennis Sutherland, KCØPON	dennis.sutherland@mchsi.com	
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Emergency Preparedness Dir.	Ron Breitwisch, KCØOX	kc0ox@arrl.net	373-0095
Communications Activities Dir.	VACANT		

## **Club Appointments**

Station Trustee	Al Groff, KØVM	køvm@arrl.net	393-8134
VE Manager	Darrel Peterson, WAØKHH	wa0khh@juno.com	393-8667
Training/Education Committee			
Hamfest Chairman	Rick Olney, NØXZL	rolney@qwest.net	396-8979
Dist 6 West Emergency Coordinator	Steve Jones	wa6gfd@aol.com	377-2219

## **ARRL Appointments**

Linn County Emer.Coordinator	Scott Haney, NØGUD		366-1465
Ia Section Tech Coordinator	Tom Brehmer, NØLOH	n0loh@arrl.net	
ARRL Midwest Div. Vice Dir.	Cliff Ahrens, KØCA	k0ca@arrl.org	
ARRL Midwest Division Dir	Bruce Frahm, KØBJ	k0bj@arrl.org	
ARRL Iowa Section Manager	James Lasley, NØJL	n0jl@arrl.org	
ARRL Volunteer Consulting En	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
146.43Ø MHz	Iowa County Amateur Net (ICAN)	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 kc0nxo@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

## **APRIL CVARC MEETING PREVIEW**

Craig Rairdin (NZ0R) will talk about his experience building the entire line of Elecraft transceivers: The ultraportable KX1 and K1 QRP transceivers, and the 100W versions of the K2 and K3 transceivers. The build experience of each of these radios is a little different. In addition to showing lots of pictures and talking about the build process, Craig will bring the finished radios to the meeting and open them up for you to look at. He'll also bring a couple unfinished kits so you can see where you start and where you end up.

Craig built his first radio kit in 1972, a Heathkit HW-16, which he used while operating as a Novice (WN0GUU). He later added the HG-10B VFO. Craig got his General Class license in 1974 (WB0GUU) and was inactive for most of the rest of the twentieth century. In 2005 he upgraded to Amateur Extra and changed his call to NZ0R. He built the Elecraft K1 followed by the K2 and KX1. He was among the first to order the K3 and is the proud owner of serial #25. He has worked as a volunteer in the Elecraft booth at Dayton and enjoys talking aviation with Elecraft co-founder Eric Swartz (WA6HHQ, who like Craig is an instrument-rated private pilot).

Craig's on-the-air activities are mainly CW contesting (though both the K2 and K3 are SSB-capable). He won first place in Iowa for single-operator, low power CW in the 2007 CW Sweepstakes. He operates Field Day and other multi-op contests with N0MA.

Gregg Lind KC0SKM

## **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 are organized in annual subdirectories.

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](mailto: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](mailto:k0vm@arrl.net).

## **MARCH 2009 CVARC BOARD MINUTES**

The March 2009 Cedar Valley Amateur Radio Club Board of Director's meeting was held 12 March 2009 at the Kenwood United Methodist Church.

President WA6GFD called the meeting to order at 6:41 PM. Others in attendance were: N0XZL, KC0PON, WA0KHH, W0MRZ, KC0SKM, NA0IA and KC0OX.

The Board Minutes from the February 2009 meeting were accepted without modification by a unanimous vote of the Board.

Steve Jones indicated that he had received email notification from the ARRL regarding procedures for updating CVARC data in the ARRL ham club database. WA6GFD agreed to update the CVARC data in the ARRL database prior to the next club meeting. The Club president also highlighted two upcoming special events that would require CVARC communication support: the MS Walk for the Cure, to be held on 25 April and the Marshalltown – Atkins Bike event. The venue and other details for these special events will be separately listed in upcoming Bandsreads.

Treasurer KC0PON reported that we had a balance of \$2,181.24

WA0KHH gave a brief timetable for upcoming exam sessions, including the May 9<sup>th</sup> session to be held at the Collins main plant, with full details to be provided in the next Bandsread.

WA6GFD led a general discussion about the Club budget for the coming year; with some minor modifications, the Board voted unanimously to approve the budget, for subsequent evaluation/approval by the general membership.

The board meeting was closed at 7:26 pm.

Submitted by W0MRZ, Secretary

## **MARCH 2009 CVARC MEETING MINUTES**

The March 2009 general membership meeting was held Thursday, 12 March 2009 in the Kenwood United Methodist Church.

A presentation was held in advance of the formal Club meeting: 'Dxpedition to Kiritimati Island', by Tom Vinson, NY0V and Rod Blocksome K0DAS [T32CXX/T32DAS]

The meeting was opened at 7:34 PM by President WA6GFD with all attendees and guests introduced themselves with 42 members and guests present.

After a brief discussion that highlighted a minor typographical error, the minutes for the February 2009 meeting were accepted unanimously by those present.

Club Treasurer KC0PON reported that the club had a balance of \$2181.24.

KC0SKM announced that the door prize for the meeting was the text *Classic Wire Antennas*.

The Bandsread editor discussed protocol for receiving electronic versions of the Bandsread as well as membership directory format. In addition, it was noted that a 'text only' version of the Bandsread would soon be available to members who requested it. Board members were also reminded that any/all submissions for publication in a Bandsread issue needed to be submitted at least TWO weeks prior to publication date.

WA0KHH gave a brief timetable for upcoming exam sessions, including the May 9<sup>th</sup> session to be held at the Collins main plant, with full details to be provided in the next Bandsread.

Steve Jones indicated that he had received email notification from the ARRL regarding procedures for updating CVARC data in the ARRL ham club database. WA6GFD agreed to update the CVARC data in the ARRL database prior to the next club meeting. The Club president also highlighted two upcoming special events that would require CVARC communication support: the MS Walk for the Cure, to be held on 25 April and the Marshalltown – Atkins Bike event. The venue and other details for these special events will be separately listed in upcoming Bandsreads.

N0UUS advised that upcoming CERT classes would be held in Independence on 28 March/April 15<sup>th</sup> and anyone interested should contact N0UUS directly.

A general membership discussion was held to discuss the proposed Club budget for the coming year. With some minor modifications, the budget as presented was approved by a unanimous vote from the club members.

KC0SKM, Gregg Lind, led a lively discussion and survey of all present regarding their preferences and interests as they might apply to future Club presentations.

The meeting was closed at 9:45 pm

Submitted by W0MRZ, Secretary

## **ARES PLANNING COMMITTEE MEETING MINUTES – MARCH 2009**

Minutes for 5 February 2009 ARES planning

committee

Attending: N0GUD, KC0OX, WA6GFD, KD0HF, AC0HB, KF0VF, N0XZK, WA0FBX, KC0GFO, KB0KW

- ◆ Introductions
- ◆ Review of Weather Spotter Training
  - Need to send "thank you" card to our very gracious hosts!
  - Would like to get venue for next year
    - They want us to come back
    - We can only book 3 months in advance, so we may not get it
    - May have construction going on there next year
    - Suggest meeting with N0LNO and WB0OAV about alternatives
  - 320+ people
  - Could better separate the handouts to keep things clear and clean
  - Comments on presentation were collected and passed to NWS that weekend.
  - Might hold two training sessions next year, if we are concerned about the number of people
- ◆ Getting the Collins radar picture up on the Collins "PC Central" page/getting CVARC repeater on Supertuner
  - If put that on a separate button so that it doesn't lock the other scanners up. Would have to talk to PCC guys about how they would set that up.
  - NOAA weather radio would be another good addition if they could get it.
  - Could it go on the ARES website? Can ask KX9Y if it's possible.
- ◆ NWS has changed severe storm criterion for hail to 1 inch (effective 1 April).
- ◆ Web Page Updates
  - Pages are being maintained, but we're a little behind on updates
- ◆ Robins Fire will be hosting an ICS 300 class on Saturday March 21 and Sunday March 22 and an ICS 400 class on Saturday April 25 and Sunday 26. Class will be from 8am to 5pm each day.
- ◆ Chelsea 440 repeater
  - NA0R wants us to see if we can hit the 442.125 machine in Chelsea from our county
  - This is the linked system to Des Moines
  - KD0HF said he was able to contact Des Moines via that repeater this past Monday

(after Iowa EOC net).

- ◆ DAEC drill schedule
  - Wednesday, May 20, 2009 – DAEC Radiological Incident
  - Wednesday, September 23, 2009 – DAEC Radiological Incident
  - Wednesday, November 18, 2009 – DAEC Radiological Incident
- ◆ Iowa EC meeting
  - Will be Saturday in Johnston, IA
  - If you have items for us to raise at the meeting, let WA6GFD or N0GUD know.
    - Check up on if more grants will be available due to stimulus!
- ◆ Benton County net
  - May move to 146.43 or 146.445 (simplex)
- ◆ NDMS drill this summer
  - We have been asked to participate
  - Both hospitals will be involved
  - Will be able to exercise new equipment and antennas at each hospital
- ◆ SET
  - May be able to combine our SET with another event
  - CVARC has been contacted by the MS ride this year. We may be able to use this as part of a combined communications exercise.
  - Date is in August. Details to follow.
- ◆ Florida Power and Light is looking for training opportunities. We will be glad to have them do that with our group.
  - KC0OX to forward contact information to N0GUD.
- ◆ Reviewed action item list

Submitted by N0GUD

## FROM THE PRESIDENT'S DESK

It is hard to believe that April is upon us. In addition to signaling the Spring season, it also signals the start of the CVARC Communications Event. The first event this year will be the Multiple Sclerosis Walk. This will be a short/long route event and will be held at Xavier High School on Saturday 25 April. The short route is about  $\frac{3}{4}$  of a mile, while the longer route is about 3 miles long.

Would like to have about 5 to 8 stations to help with this event. For those new Amateurs who have never participated in a communications event, this would be a good starting event as hopefully an operator or as an observer. If you would like to help

with this event please get with me at the Club meeting or drop me an Email. We are still looking for a Communications Activities Director and if you are interested in filling this position, please let me know.

As a reminder, we ask that each CVARC member program their radios with the four frequencies used during our communications and weather/emergency related events. The frequencies are the 146.745 and 145.15 (192.8hz) MHz repeaters and the 146.505 and 146.46 MHz simplex frequencies. More information on Net frequencies can be found on the Linn County ARES Website at <http://ares.rf.org/linn/index.html>.

Look forward to seeing all you at the next CVARC meeting on April 9<sup>th</sup>.

73, WA6GFD, Steve

## K-12 CORNER

The big event this past month was the Eastern Iowa Science and Engineering Fair (EISEF). This year's fair was held at Lindale Mall in Cedar Rapids on 21 March 2009. The Cedar Valley Amateur Radio Club (CVARC), along with the Collins Amateur Radio Club (CARC), sponsored a special award for the use of radio-electronics in a student exhibit

The judges, K0HSE, Tim Blumer, WA0FBH, Larry Black, and KC0NXN, Mike Miller selected two students for this award from nearly 200 exhibits:

Paul Gregory, from Holy Trinity Jr-Sr High School, Fort Madison, for "Ionospheric Effects to Radio Transmissions." This young man, in the Senior Physical division, used his shortwave radio to measure received signal strength of different shortwave frequencies at different times of day. He received the ARRL Handbook.

Logan Scholtus, from Pekin Middle School, Packwood, for "How a Wind Turbine Produces Electricity." He built his own wind turbine generator, including the coils of magnet wire. He received the ARRL Ham Radio License Manual (Tech exam manual).

In addition to the books, each winner received a \$25 gift certificate to Radio Shack and the current CVARC brochure "You can be a Ham."

A picture of the winners with their awards:  
[http://www.eisef.org/images\\_2009/2009\\_ceremony\\_150\\_cvarc\\_big.jpg](http://www.eisef.org/images_2009/2009_ceremony_150_cvarc_big.jpg). The senior winner, with his project, is shown here:  
[http://www.eisef.org/images\\_2009/2009\\_exhibit\\_sp07\\_big.jpg](http://www.eisef.org/images_2009/2009_exhibit_sp07_big.jpg). The junior winner, with his project, is shown here:  
[http://www.eisef.org/images\\_2009/2009\\_exhibit\\_jp39\\_big.jpg](http://www.eisef.org/images_2009/2009_exhibit_jp39_big.jpg). (All photos courtesy EISEF.)

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 [kconxn@arrl.net](mailto:kconxn@arrl.net)

KCONXN & KCONXO

## **AN UPDATE ON COMMUNICATIONS EVENTS**

Please visit <http://my.calendars.net/iowad6w> for the latest info for each event. The current calendar is below. Please mark your calendars and get ready for another season. Please pass this email on to any ham you think might be interested.

Thanks,  
Eric

- ◆ April 25, Saturday: Multiple Sclerosis Walk at Xavier High School
- ◆ May 16 Saturday: Marion Arts Festival 5K Run and Fun Walk.
- ◆ June 7, Sunday: Pigman Sprint Triathlon at Pleasant Creek State Park.
- ◆ June 27, Saturday: Dragon Boat Races at Robbins Lake.
- ◆ June 27-28, Saturday and Sunday: Field Day
- ◆ August 16, Sunday: Pigman Long Triathlon at Pleasant Creek State Park and surrounding communities.
- ◆ August 29-30, Saturday and Sunday: Multiple Sclerosis Cycle for the Cure 150 mile bike ride. Cedar Rapids to Marshalltown on Saturday. Marshalltown to Cedar Rapids on Sunday.
- ◆ September 26, Saturday: Alzheimer's Association Memory Walk at Noelridge Park.
- ◆ October 25, Sunday: Muddy Monster Cross Country Run.

## **ARES SEVERE WEATHER NETS**

Now that Spring is upon us, we will begin to experience increasing occurrences of severe weather that will cause the activation of the Linn County ARES Severe Weather Nets. Since it has been several months since this net has been activated, it is time to refresh our knowledge of the operating procedures for this net.

The Severe Weather Standard Operating Guide can be found on the Linn County ARES web site at: <http://ares.rf.org/linn/index.html>. In addition, there is another good reference document on the Davenport NWS site at: <http://www.crh.noaa.gov/dvn/?n=hamradioprotocol>. These provide the basic

information required for participation in the Severe Weather Net.

In addition, please keep the following in mind.

- ◆ When severe weather is forecast or in progress, monitor the 146.745MHz repeater
- ◆ Listen closely to the current reporting criteria being broadcast by the Net Control. During a Net this criteria can go up or down very quickly depending on the situation. Please follow this criteria before sending a report.
- ◆ Listen to what is being reported by other stations. Our goal is to have as many eyes as possible observing a weather event to provide confirmation or an observation from a different perspective. Storm structure can look very different from different angles.
- ◆ Make any reports clear and as concise as possible. This will help the Net Control accurately log the data as well as ensure accurate data is passed to EMA.
- ◆ If you are reporting something you are not absolutely sure of, please indicate this in your report. For example, if you think you see rotation in a cloud formation, indicate that you 'think' you see the rotation. This will indicate to the Net Control that confirmation of the observation is required before taking action. This is where the extra sets of eyes are important.
- ◆ Monitoring the Net and being available to report or verify a condition or observation is an important part of the Net process. If a condition has been reported there is no need to repeat the report, unless the Net Control is requesting verification. With the rapidly changing situations during a severe weather event, it is important to keep the radio traffic to a minimum to allow the rapid transmission of information.
- ◆ When in doubt, go ahead and make a report following the guidelines listed above. Please make sure that your report will not interfere with priority traffic currently being worked.
- ◆ It is generally not necessary to tell the net control operator about broadcast radio and television weather reports that you hear.

By following these guidelines the Amateur Radio Community can continue to make a significant contribution to safety and welfare of the Citizens of Linn and surrounding Counties.

Scott N0GUD

## EDUCATION UPDATE

The Technician class continues to roll along. We are about half through, Dave Cripe and Jerry Buchheit have been doing most of the instruction and I chime as the color commentator once in awhile.

We are about a month into the class and targeting the May 9th Testing date. We have already experienced some success. Tyler, our 9-year old student, proudly announced that his practice tests are all in the 89-100 percent range! We have two of our students, Joe and Joey Freeland, who went to Vinton and passed the Tech Test on March 26. Call signs are pending the FCC database update, but they should have them by the meeting!

But Joe and Joey are not done with schooling. They are two of the seven students attending the new General licensing class that Jerry Buchheit will start teaching on April 2. Meeting time is 6-7 on every Thursday night right before the Tech class. This class is much more dependant on self study, but does give an opportunity to get through the General class Licensing manual in preparation for the License Testing on May 9th. The class is open to all, so you can jump into the middle.

73 de NAØIA, Steve

## ON THE CALENDAR

Excerpted from the Iowa ARRL Section Newsletter, courtesy of Tom Bremer, NØLOH:

The 2009 Midwest Division Convention will be April 17-18th. Visit <http://www.3900club.com>

The Annual DMRAA 2009 Hamfest will be held at the Iowa State Fairgrounds in Des Moines. Visit <http://www.dmraa.com>

The Military Vehicle Preservation Association will convoy through Iowa June 21 - 23. They are looking for communications support from Iowa hams. Perhaps your club would like to setup and operate a Special Event station? (Ed. Note: Cedar Rapids is the stop for the evening of the 21<sup>st</sup>. The route appears to be following Highway 30.)

## 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?

KCØNXN & KCØNXO

## CLASSIFIED ADVERTISING

**WANTED:** Information leading to recovery of the following amateur radio equipment stolen from my car in front of my residence in early February 2009: Kenwood Dual Band Mobile UHF/VHF TM-V71A, Serial Number 90200023; Kenwood Tri-Band Hand Held TH-F6A Serial Number 70600081. Dave, KBØKW, [krk9840@msn.com](mailto:krk9840@msn.com)

## 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 [kcønxo@arrl.net](mailto:kcønxo@arrl.net)

All advertisements must be renewed monthly!

**CVARC 2009 Annotated Budget**

	BUDGET 08	ACTUAL 08	BUDGET 09	Description
Starting Balance			2057.81	
<b>INCOME</b>				
Dues	1000.00	1020.00	1180.00	Member Dues
Interest	600.00	617.91	600.00	Interest on CD
MISC.DEPOSIT	0.00	0.00	0.00	
Sales	0.00	15.00	0.00	Sales of club owned or donated equip.
Summerfest				
Income	4100.00	4628.22	4210.00	All sources of income for Summerfest
	=====	=====	=====	
Total Income	5700.00	6281.13	5990.00	
<b>Expense</b>				
Bandspread	600.00	513.14	600.00	Mailing and printing costs for Bandspread
Bank Charges	5.00	19.25	5.00	Checks and other charges
Education	50	55.28	50.00	Science Fair
Field Day	400.00	145.00	400.00	Porta Potti, etc.
Food at Meeting	100.00	0.00	170.00	Coffee, cookies, etc. (was included in Social in 2008)
Hall Donation	275.00	275.00	275.00	Donation for use of meeting place (Board Meeting, Regular Meetings, and Classes)
INSURANCE	350.00	334.00	350.00	Liability and Property insurance
Membership Promotion	500.00	599.13	500.00	Door prizes at Meetings
Miscellaneous	200.00	220.00	200.00	Miscellaneous
Public Service Activity	200.00	110.00	200.00	Public Service Activity
Repeater	0.00	0.00	0.00	Repeater Repair
Social	600.00	848.63	600.00	Christmas Party
Special Events	200.00	209.07	200.00	Special Events
Station				
Emergency Prep	200.00	0.00	200.00	Station Emergency Preparedness
Summerfest				
Expense	2700.00	3057.76	2673.00	All sources of expense for Sumerfest including directly related postage.
Po Box Stamps	200.00	0.00	200.00	Non Bandspread or Summerfest related postage
Training	50.00	90.00	50.00	Training Classes
New capital (projector)	0.00	944.98	0.00	New capital (projector)
	=====	=====	=====	
Total Expense	6630.00	7421.24	6673.00	
Difference	-930.00	-1140.11	-683.00	
Ending Balance		2057.81	1374.81	

## Linn County

### 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](http://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

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## 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: \_\_\_\_\_