

**Northern Colorado Amateur Radio Club**  
P.O. Box 272956  
Fort Collins, CO 80527-2956



# The Tribander

The monthly Newsletter of the Northern Colorado Amateur Radio Club  
For JANUARY 2012  
Club Meetings are held on the 3<sup>rd</sup> Saturday of each month

**\* LOCATION for JANUARY 21\***  
**WINTER HAMFEST 2012**

Larimer County Fairgrounds—Thomas M. McKee Building  
Open To Public 8:30 AM To 2:00 PM!

**NOTE: \*NO\* MEETING AT GOLDEN  
CORRAL THIS MONTH ONLY**

All (Friends, family& kids) are welcome and encouraged to attend.

FLYER INCLUDED IN THIS NEWS LETTER.

# NCARC Club Information

## ELECTED & VOTING OFFICERS and OFFICIALS

POSITION	NAME	CALL SIGN	PHONE	E-MAIL
<b>President*</b>	Chris McNair	KDØEGE	970-372-9842	president@ncarc.net
<b>Vice President*</b>	Willie Williams	W5WIW	970-454-3821	vp@ncarc.net
<b>Secretary*</b>	Jerry Williams	KE5INP	970-454-3821	secretary@ncarc.net
<b>Treasurer*</b>	Tim Cottam	WØTJC	970-225-6566	treasurer@ncarc.net
<b>Station Trustee*</b>	Tom Jungmeyer	K1TJ	970-484-8329	controlop@ncarc.net
<b>Technical Committee</b>	John Wells	KBØNE	970-214-1653	techchair@ncarc.net
<b>Public Affairs Officer</b>	Eugene Bentz	KI6MPA	970-371-2446	pao@ncarc.net
<b>Member at Large</b>	Bill Abbott	WBØZVE	970-232-8033	wb0zve@hotmail.com
<b>Former President</b>	Willis Whatley	WA5VRL		whatley@frii.com

\*Members of The Executive Committee

### **Comittee contacts:**


<b>Newsletter Coordinator***</b>	John Wells	KBØNE	970-568-7646	newsletter@ncarc.net
<b>Hamfest Chair***</b>	Charles Hess	KDØGMW	970-667-4357	hamfest@ncarc.net
<b>Web Coordinator***</b>	Eugene Bentz	KI6MPA	970-371-2446	Webadmin@ncarc.net
<b>Interference Coordinator***</b>	Justin King	NØAOL	970-290-9045	interference@ncarc.net

\*\*\*Appointed Non-Voting Club Official

## NCARC Repeaters

<b>W0UPS: 145.115 MHz</b> – (144.515 MHz Input) 100 Hz CTCSS Subtone (1* on, 0* off) Autopatch <b>Echolink Node 4236</b> (40-32.926N, 105-11.898W, 7229 ft) Horsetooth Mountain, west of Fort Collins, CO <b>ARES &amp; Skywarn nets.</b>
<b>W0UPS: 447.700 MHz</b> – (442.700 MHz input) 100 Hz CTCSS Subtone Located on Buckhorn Mountain. (GPS: 40.6169, -105.3274) , west of Fort Collins, CO
<b>W0UPS: 447.275 MHz</b> – (442.275 MHz input) 100 Hz CTCSS Subtone Autopatch (40-32.926N, 105-11.898W, 7229 ft) Horsetooth Mountain, west of Fort Collins, CO
<b>W0UPS: 224.520 MHz</b> – (222.920 MHz input) 100 Hz CTCSS Subtone (40-32.926N, 105-11.898W, 7229 ft) Horsetooth Mountain, west of Fort Collins, CO
<b>W0UPS: 146.625 MHz</b> – (146.025 MHz Input) 100 Hz CTCSS Subtone <b>[Will be relocated at some time... details as they become relevant]</b> (40-50.266N, 105-3.017W, 5600 ft) SW of the Rawhide Power Plant, 17.5 miles north of Fort Collins, CO
<b>W0UPS: 146.850 MHz</b> – (146.250 MHz Input) 100 Hz CTCSS Subtone (1* on, 0* off) (40-25.341N, 104-44.182 W) Greeley, CO
<b>W0UPS-5: 144.390 MHz</b> – APRS Digital Repeater (40-32.926N, 105-11.898W, about 7229 ft) Horsetooth Mountain, west of Fort Collins, CO
<b>W0UPS: 448.025 MHz</b> – (443.025 MHz Input) 100 Hz CTCSS Subtone <b>ARES Repeater</b> (40-26.650N, 104-59.370W, about 5192 ft) Budweiser Event Center on I-25 at MM259
<b>W0UPS: 145.205 MHz</b> – (144.605 MHz Input) 100 Hz CTCSS Located on Buckhorn Mountain. (GPS: 40.6169, -105.3274) Link to 224.840 by touch tone 10* - unlink with 11*
<b>W0UPS: 224.840 MHz</b> – (223.240 MHz Input) 100 Hz CTCSS Located on Buckhorn Mountain. (GPS: 40.6169, -105.3274) Link to 145.205 by touch tone 10* - unlink with 11*

## Nets

<b>ARES HF Net</b>	<b>Sunday</b>	<b>8:00 am</b>	<b>~3.81 MHZ LSB</b>
<b>Pine Beatle Net</b> 	<b>Sunday</b>	<b>~9:00 am</b>	<b>145.205 MHz 447.700 MHz</b>
<b>ARES Statewide VHF Net</b>	<b>Sunday</b>	<b>8:00 PM</b>	<b>145.310 MHz</b>
<b>Central Colorado Traffic Net</b>	<b>Daily</b>	<b>7:30 pm</b>	<b>145.310 MHz</b>
<b>Tech Net</b>	<b>Wednesday</b>	<b>7:00 pm</b>	<b>145.115 MHz</b>
<b>ARES District 10 Information Net</b>	<b>Thursday</b>	<b>7:00 pm</b>	<b>145.115 MHz</b>

## Web Page

<http://www.ncarc.net>

## **NCARC Meeting Minutes**

December 17, 2011

The meeting was held at the Golden Corral Restaurant in Loveland. It was called to order at 9:00 by President Chris KD0EGE. Introductions were done all around, with call letters. There were 33 members present.

**Secretary's Report:** Report was read, amended - Ed's call sign was corrected, and approved. Motion made to accept corrected minutes, seconded, voted on, and carried.

A question was raised about the new jackets and hats, which were not finished yet. We will check on this and report.

**Treasurer's Report:** Balance given as of December 6 was \$8108.40. Expenses this past month were \$194.78, for postage, phone, and frequency charts (reimbursement to Eugene). Income was \$1086.88, for seven memberships, hamfest tables and the FC Cycle Festival donation. Motion was made to approve the Treasurer's report, seconded and approved.

**Interference Coordinator:** Justin reported that the official letter was sent registered, and with return signature to the sign company. As of this date there was no reply. The next step will be to notify FCC of the problem, on club letterhead, with carbon copy to the club. Suggestion was made to email the company to let them know we are serious.

**Control Operator:** TJ reported that he received the re-coordination papers for the repeaters. He wants a 6 month extension on the linking project.

**PAO:** Eugene reports he is working on the radio show project with KCOL. The person they were working with was let go, so he is trying plan B. There will also be some advertising in the Fort Collins Coloradoan on the front page. He also reports that the website is doing fine, and some of the glitches with the privacy part have been fixed. PayPal is doing well, and all the payments for hamfest are going through in fine shape.

**Hamfest:** Charles reports that we have 29 tables left to be rented. We have some big vendors coming!! He is looking into the use of extra rooms for next year. He still needs more volunteers to help. Email Charles if you can do this.

**Newsletter:** John: He reported that he has some unique articles from back history which will be in the newsletter from time to time.

**Old Business:** Tim presented his proposed budget for 2012, with details on the back side. He added that the \$500 donation from the cycling club did not get printed in the details. Motion was made to approve the

budget with this correction, voted on, passed.

**New Business:** Technical committee chairman, Aaron Cathcart has resigned his position. The requirements for this job were read, and nominations accepted from the floor. Those nominated were John Wells, Bill Dawson, and Brett Phipps. Motion was made to close the nominations. Voting results were: John - 10, Bill - 5, and Brett - 7. John Wells is our new chairman of the Technical Committee.

**By-Laws:** Consideration of the new By-Laws has been tabled to the next Board meeting.

The Hamfest will be considered our next meeting, since it will occur on the meeting date for January.

Chris had a State of the Club statement. He said there were 9 repeaters, Buckhorn was working the most. He said the club was working on reorganization, with the new By-Laws, and some major changes including the PAO position. He also praised the committee working on the Hamfest, saying it looks to be the biggest yet.

We were reminded of the gathering of hams at 11:30 PM on New Year's Eve.

Meeting was adjourned at 9:52 AM.

Submitted by Jerry Williams, Secretary

=====

----- State of the Club From Chris McNair -----

#### NCARC State of the Club Address, 2011

This past year has been a good one for our club. We have tackled a couple of large projects, worked on some major organizational and club restructuring tasks, and assisted our communities in a way that no one else can.

The NCARC has nine voice repeaters and one digi-peater. Of these repeaters three of them have been installed since 2010, making the Buckhorn repeater site one of the primary repeater sites in northern Colorado. In addition to the three new repeaters, our club has been working on a repeater linking project that will connect the Buckhorn, Horsetooth, and Greeley repeater sites. As we have just heard, this project is nearing completion and should be ready in 2012.

Along with our technical efforts, the NCARC has been working on reinventing and reorganizing ourselves, in order to operate more smoothly and to better serve the community. We have drafted and ratified a new set of operating rules and procedures, in the form of new club bylaws. These bylaws were primarily designed to give our club clear direction and a solid framework to work within. Since the implementation of the new bylaws NCARC leadership has had several major changes, but manages to remain strong and with a clear sense of purpose. We have elected a new Vice President, board member at large, and technical committee chair. In addition, the new bylaws created the new position of public affairs officer, which has been filled and kept very busy.

Part of the NCARC's mission is to provide support to our local community in a way that only we can. 2011 has been a very busy year with regard to public service. The club has directly assisted in 4 public service events, and provided support through the use of equipment to 2 ARES activations, and one ARES district wide training event. NCARC members and equipment helped in supporting the courage classic in Summit County, the MS 150 fundraiser, and the rat race fundraiser in Ault. NCARC club members provided communications for the Colorado marathon, Fort Collins cycling Festival, the cast event at horsetooth reservoir, and old flowers run on old flowers road. We are constantly receiving requests for support for even more events.

In addition to providing support for the community at large, the club hosts the annual Winter Hamfest. In 2011 the Hamfest found a new home at The Ranch. We had a very good year and are on track to for an even better one in 2012.

I would like to say good job and thank you to all the individuals who have made the NCARC the premier club it is today. We would not be able to support the community, both ham and public alike, without the tireless efforts of the NCARC club board, and all of the individual club members who volunteer their own time and equipment to support our club's efforts. 2011 has been an excellent year for the northern Colorado amateur radio club, now let's push through to 2012 and make it even better.

=====

----- Speaking of sign interference. This just in from Justin King: -----

[NCARC] interference update - DaVinci Signs

Good morning club members,

Well over the Christmas break the letters to the FCC, Davinci, and two affected businesses with interfering signs to our repeaters were mailed out. Yesterday I received a phone call from DaVinci sign systems indicating they were now going to attempt to resolve the issue by installing some ground rods and doing some testing on their signs.

Hopefully that will solve the issue so when they get that work completed they will contact me again to go out and test their solution.

Apparently when you send out the exact letter and documents to the source of the problem that you also sent to the FCC they realize that we are not messing around any more.

Thanks everyone,

Justin King

The coordinator of Interference.

=====

----- Fort Collins new Mototrbo digital repeater from K1TJ-----

**New MOTOTRBO repeater located west of Fort Collins:**

446.7375, -5MHz offset, hosted by Brett Phipps (KDØCJS)

Time Slot 1 on DMR-MARC Worldwide Network, ~60 repeaters worldwide on this network, more info at <http://www.dmr-marc.net/>

Time Slot 2 for local communication

**Motorola Programming instructions:** (TJ has provided a tutorial with screen shots on how he programmed his radio and it can be found at: [http://www.k1tj.com/Turbo\\_tutorial.htm](http://www.k1tj.com/Turbo_tutorial.htm) this goes along with the verbal description below). If you need help, contact Brett, [kd0cjs@gmail.com](mailto:kd0cjs@gmail.com) or Tom, [k1tj@earthlink.net](mailto:k1tj@earthlink.net).

**Step 1** - Go to <http://www.dmr-marc.net/contact.html> and get a radio ID number

**Step 2** -

- Program your radio: RX 446.7375/TX 441.7375
- Use color code 2 on both time slots, you must set up 2 digital channels with this frequency
- Time slot 1, **Important**, always use group call of 1 on this slot
- Time slot 2, use all call
- Check Compressed UDP Data Header if your software allows it.
- Set TX Admit Criteria to [Color Code Free] and In Call Criteria to [Follow Admit Criteria]
- Check Enhanced Channel Access if your software allows, all of this helps to eliminate doubles.
- Set Time Out Timer to 180 sec.

**Step 3** - Have fun!

This repeater is giving good hand held coverage in the Fort Collins, Greeley, Loveland area and into Denver metro area in spots. Please keep local chatter on time slot 2.

Worldwide net on Saturday mornings at 10:00 am MST.

More MOTOTRBO information available at:

<http://www.wa2yzt.com/>

<http://www.rmham.org/>

--

**Tom Jungmeyer - K1TJ**

=====

----- Be prepared! From Ed Gage -----

[NCARC] Looking for a few good hams - Merit Badge University

Greeley area Boy Scouts (Three Rivers District) is offering Merit Badge University on February 11 and March 3 in the Greeley area. We're looking for a couple of hams to teach the Radio Merit Badge, just over an hour each day. If you're interested in helping, but not sure what it covers, you can find a synopsis here: <http://meritbadge.org/wiki/index.php/Radio> .

If you are available on those two days to help, please get in touch with me, Ed Gage, NØTVQ @ 302-3455, or send me an e-mail: [edgage@gmail.com](mailto:edgage@gmail.com) .

'73s -- NØTVQ

**From K00J:**

The 73 magazine collection are all on line! Every one of Wayne Green's little gems is there for your reading pleasure!

All of the magazine articles were scanned, quality corrected, and indexed by an army of individuals, and collected together for Internet

Archive by Jason Scott of textfiles.org.

The Website URL to access this collection is listed below:

<http://www.archive.org/details/73-magazine>

73, Mike, N1JEZ

"A closed mouth gathers no feet"



Northern Colorado Amateur Radio Club (NCARC) Presents:

# WINTER HAMFEST 2012

Saturday, January 21, 2012

Larimer County Fairgrounds—Thomas M. McKee Building

Open To Public 8:30 AM To 2:00 PM!

[www.ncarc.net](http://www.ncarc.net)



## GRAND PRIZE!!!



**KENWOOD TS-2000!**

## SECOND PRIZE!!!



**KENWOOD TM-V71A!**

## Colorado's First Hamfest of the Year!

Bigger And Better Than Ever Before!

Visit Our New Web Site For The Latest Hamfest News!

### This Year Featuring:

Guided Tours Of The Event For Folks New To Hamfests!

Balloons And Face Painting For The Kids!  
NCARC's "Kids on the Radio" Ham Station!

Kids (All Ages) Can Get On The Air!

Exhibits and Demonstrations  
And Much More!

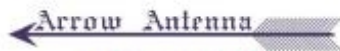
## THIRD PRIZE!!!



**YAESU VX-3R!**

## FOURTH PRIZE!!!

### ARROW ANTENNAS



**OSJ 146/440!  
DUAL BAND  
J POLE!**

### ARRL VEC Exams—9:30AM

Your Licensing Opportunity!

If Upgrading—Be Sure To Bring A Copy Of Your Current License!

Grand Prize Drawing: 12:30PM  
Must Be Present To Win  
Door Prizes Given Out All Day Long!

A Special Thanks To Our Prize Sponsors!!!  
Ham City Radio Supply [www.hamcity.com](http://www.hamcity.com)  
Arrow Antennas: [www.arrowantennas.com](http://www.arrowantennas.com)

Radio Talk In:  
145.115 - Offset 100Hz CTCSS  
Simplex 146.520

Admission: \$5 Children Under 12 Free!  
8 Ft. Tables: Pre-Registration: \$12 Each \$17 Event Day  
Extra Raffle Tickets: \$1 Each 6 For \$5 15 For \$10



Sanctioned National Event  
[www.arrl.org](http://www.arrl.org)

For Advance Table Reservations:  
NCARC P.O. Box 272956  
Fort Collins, CO 80527  
Visit: [www.ncarc.net/node/185](http://www.ncarc.net/node/185)  
Or Contact:  
Charles Hess—KD0GMW  
sales@667help.com 970-667-4357

5280 Arena Circle, Loveland, Colorado  
Take Exit 259 off I-25  
East on Crossroads Blvd. 0.35 Miles  
North on Fairgrounds Ave. 0.25 Miles  
To Main Entrance To The Ranch  
**GPS COORDINATES: 40.4446, -104.9876**

### All New This Year For Vendors!

Visit Our Web Page—Just For You!

Online Pre-Registration For Your Tables!

View The Table Layouts—Pick Your Spots!

Signup Right On The Webpage!

Vendor Setup Begins at 7:00AM—Event Day

Two Large Overhead Doors For  
Quick & Easy Setup!





# Northern Colorado Amateur Radio Club

## Membership Application



I want to Join the NCARC.

Please Renew my membership

Date: \_\_\_\_\_

For calendar year:

2011

2012

2013

**Annual Dues -- All memberships expire December 31<sup>st</sup>**

**Individual or Family Membership:** \$25.00 per year

**Full Time Students:** \$ 5.00 per year

Name: \_\_\_\_\_

Callsign: \_\_\_\_\_

Street: \_\_\_\_\_

City: \_\_\_\_\_

State: \_\_\_\_\_ Zip: \_\_\_\_\_

Telephone: \_\_\_\_\_

License Class: \_\_\_\_\_

E-mail Address: \_\_\_\_\_

Newsletter by Email?            YES    NO

Student?                            YES    NO

ARRL Member?                    YES    NO

### Family Members

Name: \_\_\_\_\_

E-mail: \_\_\_\_\_

Callsign: \_\_\_\_\_    ARRL? YES NO

License Class: \_\_\_\_\_

Name: \_\_\_\_\_

E-mail: \_\_\_\_\_

Callsign: \_\_\_\_\_    ARRL? YES NO

License Class: \_\_\_\_\_

Name: \_\_\_\_\_

E-mail: \_\_\_\_\_

Callsign: \_\_\_\_\_    ARRL? YES NO

License Class: \_\_\_\_\_

*Note additional family members on reverse*

*We do not sell, trade, or rent personal identification information to others.*

See full Privacy Policy at <http://www.ncarc.net>

Please mail this form and payment to:

NCARC  
P.O. Box 272956  
Fort Collins, CO 80527-2956

### Club Use:

Received: \_\_\_\_\_ Amt: \_\_\_\_\_

Recorded: \_\_\_\_\_ Version 20111114.1

**Or Sign-up Online at [www.ncarc.net](http://www.ncarc.net)**