



# EASTERN ARIZONA AMATEUR RADIO SOCIETY



EST. 1974

INC.

## Club Address:

EAARS  
P.O. Box 398  
Solomon, AZ 85551

[www.eaars.com](http://www.eaars.com)

**April 2015**

## From the President

Dear EAARS members.

I want to apologize on behalf of all the officers for a recent incident involving misuse of the EAARS reflector. We are working to see that it never happens again. If you have something you want posted to the whole club whether it being buy or sell a radio or solicit people for a special event, send your message to

[eaarsofficers@eaars.com](mailto:eaarsofficers@eaars.com) and one of the officers will review and forward the message to the reflector. From now on only the officers will have access to the new reflector address. And we will try to always email everything so that the addresses do not show. Again we are very sorry that all the reflector members were bothered by something that should have been handled privately and we will do our best to see it never happens again.

73

Dave, *N7AM*

## ARCA Rep Needed

A new Amateur Radio Council of Arizona ([www.arca-az.org](http://www.arca-az.org)) representative is needed.

The main duties of this position include attending a majority of the ARCA meetings held throughout the year at major Arizona hamfests and reporting the results of those meetings at the bi-monthly EAARS meeting or via email to the EAARS officers.

If you have a interest in this position, please contact Dave, *N7AM*.

## From W5CF

A couple of weeks ago, I sent out an email to a "GROUP" of EAARS members. Unfortunately, the EAARS reflector was included in the group and I apologize for the problems that it created.

Rick McNutt

Amateur Radio Operator *W5CF*

### EAARS OPEN REPEATERS

PL 141.3 UNLESS NOTED OTHERWISE  
**ECHOLINK: 614350 IRLP: 7787**  
**HELIOGRAPH PEAK AT SAFFORD, AZ:**  
146.860, 440.700 LINKED  
146.900  
145.010 PACKET  
**JACKS PEAK AT SILVER CITY, NM:**  
145.210 LINKED  
**WEST PEAK AT FT THOMAS, AZ:**  
145.350 ACCESS TO LINK TO NETWORK  
**PINAL PEAK AT GLOBE, AZ:**  
145.410 LINKED  
**SOUTH MT AT ALPINE, AZ:**  
145.270 LINKED  
**CABALLO MT AT TORC, NM:**  
145.470 LINKED  
**GREENS PEAK AT SHOW LOW, AZ:**  
146.700 LINKED  
**LITTLE FLORIDA AT DEMING, NM:**  
147.060 LINKED  
**MULE MT AT BISBEE, AZ:**  
147.080 LINKED  
**MT. LEMMON AT TUCSON, AZ:**  
147.160 LINKED  
**GUTHRIE PEAK, AT CLIFTON, AZ:**  
147.280 LINKED

# A Message from the Repeater Trustee

Every amateur radio club is required to have a trustee for an FCC issued club license/call sign. The person designated the license/call sign trustee has ultimate responsibility for the proper operation and content of communication of the club station, or repeaters. The license trustee ALONE, NOT the club, is the individual who has his own personal license placed in jeopardy should operations/communications in violation of FCC rules and regulations be conducted through transmitters carrying the club call sign. EAARS has appointed me, Joe Montierth, *K7JEM*, as trustee for the EAARS license and the call sign *K7EAR*, which is used to identify all of the club repeaters.

Each individual club can determine what things can or cannot be discussed, and proper procedure for repeater operation. Our club has a very open policy about what is proper, and what can be talked about. Basically, the conversation has to be legal, and not abusive to other users. Beyond that, there are not many restrictions. Licensees are responsible to make sure their own communications follow FCC Part 97, and are given a lot of latitude in making those decisions on their own. We don't have a "repeater police" group to enforce content or behavior. That is up to the individuals participating in the conversation.

That said, if you notice questionable behavior, or communications that you feel are in violation of FCC rules and regulations, please contact the officers at [eaarsofficers@eaars.com](mailto:eaarsofficers@eaars.com). Let us know the date and time of the communication, and we will review the recordings and take appropriate action, based on club policy. You can also use this e-mail address to report technical problems like outages or other issues. Please don't get involved in discussions about what is or is not legal, or try to correct the actions of others. This seldom turns out well, and can result in hurt feelings and unintended consequences. The only people authorized to speak on behalf of the club are the club officers, so keep in mind that any arguments or discussions you have with other licensees are between you and that other person, and do not involve the club.

Use the repeater system as you see fit, and try to stay within the guidelines- but above all, have fun! Ham radio is welcoming to all, and there is room for everyone.

Joe Montierth, *K7JEM*,  
License Trustee of *K7EAR*

## For Sale

Yaesu FT-8800

\$400.00

New in Box, except powerpoles installed

Does not include separation kit

Works fine, from non-smoking home.

Contact Steve, KY7K

[ky7k@arrl.net](mailto:ky7k@arrl.net)

## For Sale

Kenwood TS-711A

\$350.00

2M All-Mode with optional PL encode board

Built-in Power-supply AC & DC operation

Works fine, from non-smoking home.

Contact Steve, KY7K

[ky7k@arrl.net](mailto:ky7k@arrl.net)

# The Tucson Ham Radio Spring Picnic

Calling all EAARS members and users of the EAARS system... The spring edition of the Tucson Ham Radio Picnic is almost here. Please join us on **Saturday, April 18<sup>th</sup>** at Christopher Columbus Park in northwest Tucson for a fun day in the park. All Hams and their family members are invited to this great Ham Radio event. Last fall, we logged around 120 guests. This picnic was created by Terry – *KB5B* (sk) because he had strong beliefs that Hams should gather twice a year for an Eyeball QSO Picnic. Right before Terry's passing; a core group of Hams promised him that we would carry on his wish and dreams. One of his biggest requests, was this picnic was NEVER to be affiliated with any club or group. So, it's simply known as "The Tucson Ham Radio Picnic".

This is a pot luck picnic and we have a growing potluck list at [www.tucsonhampicnic.com](http://www.tucsonhampicnic.com). If you are planning on attending, please submit an entry from our requested items list or bring your own thoughts for the potluck table. We created the potluck list in hopes of NOT getting 15 tubs of potato salad.

The RST Radio Days in the Park group will be attending to promote Ham Radio to the public by setting up their portable stations and operating from the park. You are invited to join them by bringing your own gear.



## EAARS Badges

Club badges are now available, see:  
[www.eaars.com/newsletter/badges.htm](http://www.eaars.com/newsletter/badges.htm)  
For ordering information. Show your club colors!



## 2015 Officers and Staff

[eaarsofficers@eaars.com](mailto:eaarsofficers@eaars.com) to email all officers.

### President

Dave Wells  
*N7AM*

### Technical Adviser

Milt Jensen  
*N5IA*

### Vice President

Dan Quaintance  
*AF7EF*

### Newsletter Editor

Steve Lane  
*KY7K*

### Secretary/Treasurer

Larry Griggs  
*N5BG*

### Net Manager

Chris Buchanan  
*N7JND*

### Site Trustee

Joe Montierth  
*K7JEM*

### ARCA Rep

Open

### Net Control Operators

Rick *KE7EDP*  
Bob *KD7LMV*  
Karl *N7DMA*

Angie *N7EMB*  
Chris *N7JND*

The picnic setting is right next to an urban lake. Fishing is allowed providing you have the proper fishing license for urban fishing.

We usually start gathering around 11:30am and the lunch bell sounds at 12 noon. Right after lunch, we will gather for a Group Photo. Usually between 1:00pm – 1:30pm.

**PLEASE NOTE:** At the time of submitting this article, it's never known about the status of drinks. Until further notice, plan on bringing YOUR OWN DRINKS & ICE. Watch the website's Potluck List for drink status.

Looking forward to seeing ALL of you at the **Tucson Ham Radio Picnic on April 18<sup>th</sup>**. Please visit the website at [www.tucsonhampicnic.com](http://www.tucsonhampicnic.com) for all the details including a map to the park. Our Talk In frequency will be 146.520 simplex.

73... Chris – *N7JND*, Angie – *N7EMB* & Don – *KD7UIZ*

# Ham License Testing

There are four monthly VE test sessions in the **Tucson Area**.

**Lighthouse YMCA / ARRL:** First Thursday  
Contact Matt, *AC7IL*, [veregistration@ac7il.org](mailto:veregistration@ac7il.org)

**Oro Valley / ARRL:** First Saturday  
Contact [licensing@tucsonhamradio.org](mailto:licensing@tucsonhamradio.org)

**RST / Laurel (No Fee):** Second Monday  
Contact Diane, *A43OF*,  
[dzimmerman2002@gmail.com](mailto:dzimmerman2002@gmail.com)

**Jacobs Park YMCA / ARRL:** Third Saturday  
Contact Fred, *K7OFA*, [k7ofa@arrl.net](mailto:k7ofa@arrl.net)

**Graham / Greenlee County Area**  
For VE testing on request, please contact Dave,  
*N7AM*, and he will arrange it.

**Technician License Class - Tucson**  
Every Tuesday, 6:30 - 9:00pm at TMC.  
Contact Dan, *KC7VDA* for info.  
[kc7vda@gmail.com](mailto:kc7vda@gmail.com)

## Coming Events

*Near and Far...*

- **DeVry Hamfest: Apr 11**  
*See flyer in this newsletter*
- **New Mexico QSO Party: Apr 11**  
[www.newmexicoqsoparty.org/](http://www.newmexicoqsoparty.org/)
- **End of the World: Apr 15**  
*or at least the end of a big chunk of change...*
- **QRP to the Field: Apr 25**  
[www.zianet.com/qrp/qrpptf/2014/ttf.htm](http://www.zianet.com/qrp/qrpptf/2014/ttf.htm)

# APRIL

sun	mon	tue	wed	thu	fri	sat
29	30	31	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	1	2

Send Event and Calendar  
additions to  
[newsletter@eaars.com](mailto:newsletter@eaars.com)



## For Sale

Yaesu FT-897D

\$1000.00

Includes DTMF Microphone  
and Yaesu FC-30 Autotuner  
Works fine, from non-smoking home.

Contact Jon, *W1JTS*  
520-419-9900 or 520-385-1264

# GUIDELINES FOR REPEATER USE

or

*Read it! Remember it! Practice it!*

The EAARS Network is a high traffic repeater system with a very large coverage area, and as such, we often need some reminders of proper operation. These guidelines are not intended to be hard and fast rules, but rather things to remember and consider when using the network or any repeater. Many of these things are common sense or common courtesy, so keep them in mind.

**Coverage:** The system covers several thousand square miles, in parts of three states and two countries. Remember to keep your conversations short and try not to monopolize the system. If you are close to the person you are wishing to talk to, and you are only wanting to talk with him, you might consider simplex or another repeater, if your conversation will last more than a few minutes. There is no reason to tie up multiple repeaters with extended one on one conversations when you are only a few miles apart. Remember to allow ample time between transmissions to allow for people to join the conversation. If you are not wanting to be interrupted, then the conversation might be better to have on the telephone. Remember that people everywhere can hear what you say, there is no privacy.

The system is designed to give priority to mobile operations, especially during morning and afternoon drive times. This may be the only time some people have to get on the radio, so defer to them as they travel to and from work. If you are operating from a fixed location, and have plenty of hours in the day to use the radio, then utilize the system during the slower times.

**Timing:** The repeater system is not instantaneous. There is a time delay from when you key the microphone to when the other parties will hear your audio. This typically is at least half a second or so. So, key the mic, give a short pause, then start your statement. If you say a single word or a short phrase, it may be clipped and not heard properly (if at all) on other repeaters in the system. There is a “beep” that occurs about a second and a half after a person unkeys. This is known as a “courtesy tone”, and lets others know that you have finished. You should wait for that beep before you start talking. This second and a half delay gives time for people to break in with emergency traffic, or just to add comments or join the conversation.

The repeater system has a “hang timer” of around five seconds. That is the time delay from when you finish talking to when the repeater transmitter drops off. In normal usage, the repeater doesn’t have to drop out, and you should not wait for it to drop. Wait for the second and a half, then the beep, then pick up the conversation. If you wait for the carrier to drop, it adds a lot of dead time to your usage.

The repeater also has an approximate 3 minute “time out timer”, which limits the amount of time any single transmission can last. If you transmit longer than that, the timer will cut you off. The timer affects the link transmitter, so when it times out, the rest of the system will act normally. If you are timing out the repeater on a regular basis, you need to rethink your conversations. This isn’t HF!

**Jargon:** Avoid CB style jargon and “hamisms”. This isn’t CB radio, so leave the “10-4s”, “seventy thirds”, “got your ears on”, (and any other stuff that is common on CB) off the network. Likewise, there are a lot of other things that come from ham radio that aren’t needed. You don’t need to use Q signals or other abbreviations that are meant for CW operators. We’re not sending code, so we don’t need things like “QTH”, “XYL”, or “HI HI”. Plain language rules on 2M FM, so use it! You don’t sound more like a ham when you say things like “Got to QSY to the dinner table, the XYL is wanting an eyeball QSO, hi hi.” Likewise, you don’t need to use the word “handle” when referring to your name, and certainly don’t use “personal”, as that is straight from CB. Just say, “the name here is Bob” (unless of course it is something else).

**Signal Quality:** We use FM on two meters. That means the audio quality is going to be pretty good, if you have a decent signal into the repeater. Your signal level is how well your radio is getting into the repeater. This is usually reported by the station you are talking to by referencing the amount of noise in the background, while you are talking. A good strong signal to the repeater will be reported as “full quieting” or “no noise on your signal”. A weaker signal might be reported as “readable, but has some (or a lot) of noise”. A very weak signal will be reported as “barely making it”, “in and out”, “hard to copy”, or some other report that indicates that the signal is poor. If your signal is not good, it is best to wait and continue your conversation when you get into a better location. Don’t force everyone to try and decipher a barely readable signal! Unless you are in an emergency situation, or need to get some urgent message through, just relax and try again later. You may be hearing the repeater fine, but that doesn’t necessarily mean that the repeater hears you as well. The repeater is fairly balanced when using a 25 to 50 watt mobile radio; if you are hearing it good, you will probably be getting into it about the same. But many people are using a 2 watt handie talkie, and that just doesn’t work well unless you are pretty much line of sight to the repeater. If you’re on an HT, and are getting poor reports, you might try a different location. Sometimes just a few feet will make a big difference.

Along with signal, audio quality and level are very important. If your transmit audio is too strong, or too soft, it will be hard to understand you. If you get reports of “low audio”, get closer to the microphone, or speak up. Many of the newer Chinese handheld radios are coming with somewhat low audio, and you may need to speak closely, clearly, and somewhat loudly in many cases. And get an external antenna for that HT if you plan on using it much in the mobile!

**Courtesy:** The repeater doesn’t belong to you, so you need to share it. Don’t feel obligated to interject comments into every conversation going on and if you do have a comment it should be related to the current topic! Likewise, don’t be surprised if someone breaks in to add some comments or information about what you’re talking about. If you need to break in, give your callsign. If you say “Break” or “comment”, the system is not likely to pick up fast enough so that everyone hears that single word. You may think you’re being ignored, but what really happened is that they did not hear you. Your callsign takes enough time that the system will pick up, and even if they don’t hear the whole call, they may pick up the last few letters and realize that someone is breaking in.

**Policing the Air:** If you hear someone you think is doing something wrong on the repeater, please, **DO NOT** confront or attack them. Send a message to [eaarsofficers@eaars.com](mailto:eaarsofficers@eaars.com) with date, time, calls and a brief description of the problem and the officers will investigate and deal with it. IF you think “they” are in violation then joining the conversation may also put you in violation. If it is a serious violation like “somebody taking requests and playing music on the club repeaters” then feel free to call me day or night but, **PLEASE DO NOT** add to the problem by getting involved.

If you hear a new ham struggling, then explaining about the timers and waiting for the beep or pausing before they start talking, or offering general technical guidance *in a polite manner*, that’s great. (That means ask for a break, identify, and offer the assistance, not scream “wait for the beep” anonymously, *that is a violation*). Elmer to your hearts content. Most of the new users will appreciate it. If they tell you they don’t want to hear it then leave them alone!

**Doubling:** This happens when two people talk at the same time. What will happen is either that the audio will mix, and you hear both people, but can’t understand either one, or you will hear some interference that makes it hard to understand either transmission. To prevent this, try to make sure it is your turn to talk, and when you turn it over, say the person’s name or callsign. “Over to you, Tom,” or “Go ahead, K7XXX.” If you say, “Pick it up, someone”, then you are asking for multiple people to transmit.

**Identification:** Give your callsign as mandated by the FCC, every ten minutes, or when you clear off. You don’t need your call each time you transmit, if the transmissions are short. And don’t overuse phonetics for your name or callsign. If your name is Mark, people probably get that. You don’t have to say, “name is Mark, Mary, Adam, Roger, Kilowatt”, unless the people aren’t getting it right. You also don’t have to say, “K7XXX for identification purposes” or “K7XXX for ID”. What else would it be for?

**Jammers:** Occasionally there are unidentified people who will try to interfere with ongoing communications, play music, or hurl insults or profanity. **DON’T ACKNOWLEDGE THE JAMMER!** Carry on as normal, or clear off. The jammer is there to get a reaction from the users. You play into his game when you talk about him, challenge him, try to reason with him, or argue with him. **DON’T DO IT!** It is never appropriate to talk about jammers on the air. If it is recurrent or chronic, the control operators will take appropriate action. In most cases, control ops will do nothing, since it is the intent of the jammer to disrupt communications, and shutting down a repeater does just that. If you have the capability to monitor the input of the repeater, you can try that to see if you hear him. But don’t announce it over the radio, just log where you were and how strong the signal was on the input channel. Jammers have existed since the advent of ham radio, over 100 years ago. So, nothing new.

**Nets:** The EAARS network has several nets that meet regularly, at specified times. These nets are for some specific purpose, some are for general check in, others are for traffic handling. Although the nets do not have absolute priority, it is good practice to relinquish the repeater system if you are using it when the net is ready to start. You can finish your conversation when the net is through. If you are conducting emergency or priority traffic, the net will stand by for you.

**IRLP and Echolink:** The system has connection to internet based amateur radio linking. Another document on the EAARS website gives instructions on how to use this, and the protocols and procedures involved. If you use these connections, remember that you are tying up a large network, so keep your conversations succinct. Be courteous to other users. If you hear someone using these connections, please be courteous to them.

**Making a Contact:** If you want to make a contact, simply announce your callsign and say that you are monitoring or listening. You don’t need to repeat it several times. If someone wants to talk to you, they will give you a call. If you are listening to an interesting ongoing conversation, you can call one of the parties after they have cleared off. That’s a good way for newer hams to meet new friends. People will almost always respond to a direct call if they have the time. If you have a new radio setup or installation, you can ask for a signal report. Usually someone will respond. But don’t make a habit of it. That should be reserved for changes or new equipment. Listen first to how things run on the system, and emulate the good operators.

**Topic Content:** The EAARS network is an open repeater system with many users. Be respectful in your choice of topics. Controversial subjects are discouraged, as they tend to cause divisiveness. Do not engage in on air arguments with other amateurs, it serves no useful purpose. Do not let your emotions rule your words, think twice and speak once.

**Support:** EAARS is an open membership club, and sponsors all of the repeaters on the network. There is considerable cost involved with purchase, installation, maintenance, and ongoing services. If you use the system frequently, please join to support the system. The dues are only \$24 a year, so it shouldn’t be a burden on anyone. No one will be asked to leave, or refrain from using the repeater simply because they are not a member. If you hear a new user on the system frequently, encourage them to join the club and point them to our website.

[www.eaars.com](http://www.eaars.com)

*Changes and additions are in RED*



The Arizona Amateur Radio Club and  
The Amateur Radio Council of Arizona present the

# April Hamfest at DeVry

## April 11, 2015

DeVry University - South Parking Lot  
2149 W Dunlap Ave.  
Phoenix, AZ

Hours: 6:00 AM to 12:00 Noon

Admission Donation - \$2.00

Tailgate Spaces - \$10.00 each

Commercial Vendors - Tailgaters

Prizes - Coffee - Doughnuts - Sodas

Grand Prize—Yaesu FT-7900R UHF/VHF Mobile

Second Prize—Kenwood TM-281A 2M Mobile

Third Prize—Baofeng UV-82R UHF/VHF HT

VE Testing - 9:00 AM in DeVry Library

DX QSL Card Checking - 9:00 to 10:00 AM

Talk-In on 147.080 (+) (No PL)

For more information or to reserve a space, email ARCA at  
[arca@arca-az.org](mailto:arca@arca-az.org) or Gary Hamman at [k7gh@arrl.net](mailto:k7gh@arrl.net)

Visit the ARCA Web Site at [www.arca-az.org](http://www.arca-az.org) for a map to the site.

**BROWSE - BUY - SELL - TRADE**

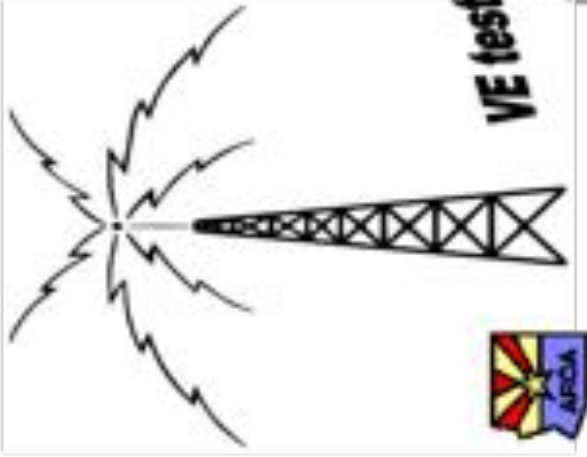
**SPEND THE DAY WITH FRIENDS**

# CARA Hamfest

**COME ONE - COME ALL**

CARA HAMFEST **MAY 2** SIERRA VISTA  
OVER 10 RAFFLE PRIZES PLUS  
TAILGATERS, VENDORS, FOOD TOUR THE  
COCHISE COUNTY  
MOBILE COMMUNICATION UNIT.  
ADMISSION \$3 AND GET A FREE  
RAFFLE TICKET!  
TAILGATERS \$5/INSIDE TABLE \$10.  
GATE OPENS 0700  
SEE WWW. [K7RDG.ORG](http://K7RDG.ORG) FOR MAP AND  
DIRECTIONS  
**COCHISE AMATEUR RADIO ASSOC.**





**VE testing 9AM**

**JUNE 6, 2015**



Contact: K-K  
kb9si@yahoo.com  
480-586-6303

**Tailgaters  
\$5/space**

**WHITE MOUNTAIN**

**HAMFEST**

**SHOW LOW, AZ**

**CITY HALL PARKING LOT**

**180 N. 9TH ST**

**Prize Drawings  
hourly and GRAND**

**Talk-in frequency  
145.31 - pl 110.9**



**Overnight RV camping  
available after 5:30PM Fridays**



**Refreshments Available**



sanctioned event



**2015 ARCA / WILLIAMS HAMFEST**  
**JULY 24, 25 & 26, 2015**

ADVANCED NOTICE



*Presented by the Amateur Radio Council of Arizona  
and the City of Williams*



ADVANCED NOTICE

WILLIAMS RODEO GROUNDS, RODEO ROAD, WILLIAMS, AZ  
GATES OPEN AT NOON THURSDAY, JULY 23 FOR SET-UP.  
HAMFEST OPENS AT DAWN FRIDAY, JULY 24.

**FREE ADMISSION!**

**JULY 26, 2015 - GRAND CANYON TRAIN TRIP**

MEETINGS, SEMINARS, ACTIVITIES,  
COMMERCIAL VENDORS,  
HUGE SWAP, VE TESTS

**PRIZES**

DOOR PRIZES EVERY HOUR  
RAFFLETICKETS  
\$12 for \$20, or 3 for \$5.00

SATURDAY NIGHT BBQ DINNER  
AT RAILSIDE RV RANCH

RESERVATION INFORMATION  
available soon

SUNDAY GRAND CANYON TRAIN  
TRIP



Visit the ARCA Web Site  
[www.arca-az.org](http://www.arca-az.org)

Talk-In - 146.78 - (91.5 PI)

On-Line Reservation Available on Web Site Soon  
Or Call - 602.881.ARCA (2722)

## August 7-9, 2015

Albuquerque Marriott Pyramid North  
5151 San Francisco Rd NE  
Albuquerque, NM 87109

### 2014 Prizes (2015 is Similar)

Icom 7100  
Yaesu FT-450  
Elecraft KX3  
Kenwood TM-281  
Icom ID-880  
Yaesu FT-7900  
Yaesu FTM-400D

#### Hamfest Fees (Preliminary)

Pre-Registration \$5.00  
Includes 1 Free Prize Ticket  
Registration at Door \$7.50  
Extra Prize Ticket \$2.00  
Flea Market Table \$15.00  
Ham Table with Electricity \$20.00  
Commercial Booth Call  
Tailgate Space (1) \$5.00  
RV Space Per Night \$10.00  
Friday Night Mixer \$12.50  
Saturday Contest/EMCOMM Breakfast \$17.50  
Saturday BBQ Lunch At Door  
Saturday Evening Banquet \$30.00  
Sunday New Ham Breakfast \$15.00

Rooms at Marriott Pyramid—\$89 + Tax  
<https://resweb.passkey.com/go/albuquerquecityhamfest>

Limited RV parking available on hotel grounds. No hook-ups available. Full service RV parks available nearby.

## Ham Radio Fun For Old-Timers & Novices

### New in 2015

Bigger & Better Than 2014  
New Venue & Better Floorplan  
All Activities Close Together  
Nicer Indoor Sales Area  
Tailgate Friday & Saturday  
Open All Day Friday  
Improved Friday Mixer  
New Saturday BBQ Lunch  
Good Equipment Auction  
Contest University  
FCC & New Rules Forum

### Themes

Building & Modifying Equipment  
Contesting  
Emergency Communications  
Attracting New Hams  
STEM Education & Ham Radio  
Hands-On Projects  
How to Get and Stay Active

#### Talk In Repeaters

Courtesy of Amateur Radio caravan Club  
145.33 (-600 KHz, 100 Hz PL)  
444.0 (+5 MHz, 100 Hz PL)



### ARRL New Mexico

Regional Hamfest Serving

New Mexico  
Colorado  
Utah  
Wyoming  
West Texas  
Oklahoma  
Arizona  
Nevada  
Mexico



## Special Guest Speakers

### To Be Announced

ARRL Leadership

### Riley Hollingsworth (K4ZDH)

Retired FCC Enforcement Special Counsel

"Changes in FCC complaint procedures and how they affect Amateur radio" and "Our continuing duty to Amateur radio"

### To Be Announced

Contesting / EMMCOMM Community

# Albuquerque Duke City Hamfest

## Conference

The DCHF is a great source of information on all aspects of ham radio. Multiple simultaneous activity tracks with emphasis on current topics of interest to old hams and newcomers alike. Many popular forums will be repeated so as to minimize chances for conflicts.

### \*\* Contest Academy \*\*

HF, DX and Contesting  
EMCOMM & Public Service  
STEM, Education & New Hams  
High Altitude BalloonSAT  
AMSAT / Moonbounce EME  
ARRL, ARES & RACES Forum  
Builders & Makers Forums  
Teachers & Educators Forums  
SDR, D-STAR, FM, Repeaters  
Equipment Design & Fabrication  
Using Test Equipment, How to Solder  
Remote Operation, Building a Station  
MARS, CAP, SOTA  
Mesh Networking, Raspberry Pi

## Hamfest

The DCHF provides the best opportunities to see, feel and touch the latest new equipment, antennas, publications, and accessories. Check out our expanded new equipment and flea market area for bargains on used gear, components, hidden treasures, and goodies you did not know

### 2014 Dealers & Manufacturers

Ham Radio Outlet  
Yaesu \* Icom  
Flex Radio \* Elecraft  
DZ Kit \* Ham Radio School  
Wired Communications  
RT Systems \* CQ Magazine  
High Tech Liquidators  
Tactical Communications  
Southwest Antennas  
WB2CUK Products  
In Logis \* Ham Crazy  
Daryl's Electronics of El Paso  
El Paso Antenna Co  
The Original Wireman  
CAIG Laboratories  
QRP Works \* NM-Mesh  
ARRL \* QCWA

## Activities

The DCHF is 3 days of ham radio fun for the learned and learning alike. Chew the rag with old and new friends, and visit our many socials, demonstrations and banquets. Bring the family and enjoy local attractions, museums, shopping

### Good Equipment Auction

Friday Mixer with Vendors  
Saturday Contesting Breakfast  
Saturday BBQ Lunch  
Saturday Awards Banquet  
Sunday STEM/New Ham Breakfast  
Near Space Balloon Project  
Tech/General License Review  
VE License Testing  
Specialized Modes Demo  
Skywam Class  
Hidden Transmitter Foxhunt  
Tours of Local Attractions  
Tour of Old Town Albuquerque  
Contests & Competitions



*Duke City Hamfest*  
Albuquerque, New Mexico

<http://www.DukeCityHamfest.org>

For More Information

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