



# 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)

**July 2015**

## 4H I.S.S Contact Update

As mentioned in last months newsletter, the Vail Vaquero's 4H Club's I.S.S. contact is scheduled for week 19 of the expedition. The contact will be held at Empire High School in Vail. Because there are no US Ham Radio Operators aboard the Expedition at this time, the kids will be talking to a Russian Cosmonaut. Unfortunately, we won't have an exact date until the week before the contact. What I can tell you are the potential dates and times of the contact. I was tasked with putting them in priority. This is what I submitted to ARISS:

#1 Tue 14jul15 11:45:25 11:55:39  
#2 Mon 13jul15 11:03:07 11:13:23  
#3 Wed 15jul15 10:51:17 11:01:50  
#4 Fri 17jul15 10:39:35 10:49:43  
#5 Thu 16jul15 09:57:19 10:07:39

Once we have an exact date I will send out an email invitation to the Ham Community. For those of you that will not be able to attend the event due to work, other obligations, etc there will be a live video feed of the event set up on Google Play by Mathias (*K0WBG*). Details will be in the email invitation.

Here is a picture of the antenna that Larry, *W7LB* built for the contact. Hope to see several of you at the contact site in a few weeks.

A special thanks goes out to the following Hams that are making this all possible:  
Larry, *W7LB*

Mathias, *K0WBG*  
Carl, *KB7AZ*  
Mike, *K7BUM*  
Rick, *W1GHF*

For up to date information please check out our website.



Lani Dzicek, *N3IDN*  
Vail Vaquero's 4H Ham Radio Leader  
<https://pimacounty4hhamradio.shutterfly.com/>



## 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

**Don't forget the XYL net!**  
**Monday night at 7:30pm**  
Ladies only please

## 2015 Officers and Staff

eaarsofficers@eaars.com to email all officers.

### President

Dave Wells

*N7AM*

### Technical Adviser

Milt Jensen

*N5LA*

### 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*

Angie *N7EMB*

Bob *KD7LMV*

Chris *N7JND*

Karl *N7DMA*

Join us every Sunday night at  
7pm on the EAARS Network  
repeaters for our Sunday  
Night Net.  
Everyone is Welcome!





# EAARS 2015 ARRL Field Day Exercise

Friday afternoon, June 26th, setup began at Cluff Pond 3 for the Eastern Arizona Amateur Radio Society 2015 ARRL Field Day Exercise. Dan's 20M Moxon Beam was deployed on the mesa again this year as was the 5BTV vertical. Across the road in the parking lot the 40M/80M, off bus mast, along with a folded double Zepp were deployed to provide plenty of choice in antennas.

Internet was made available thanks to the HSMM Mesh Nodes of Wendall, *W7WGW* and Dan, *AF7EF*.

Besides using the mesh nodes to Network N1MM logging for Field Day, Wendall, *W7WGW* demonstrated the use of the mesh nodes networking capability to look in on a live camera at his QTH 10.5 miles away.

This year EAARS field day exchange was *K7EAR* 3A AZ. *N7AM* Dave, *K7ZOO* Curt, *AF7EF* Dan, *KG7EQN* Jacob and *W7MIN* Gary put the club call *K7EAR* to use again this year with a total of 585 QSOs using CW, SSB and PSK31 during ARRL's 2015 Field Day Exercises.

Kurt, *K7ZOO*, gave an instructive presentation on "Protective Cases for Emergency Equipment" of the type we use in Amateur Radio. John, *W7STH* upgraded to General Class and we gained a new Amateur in the Gila Valley when David B. Lee of Pima passed his Technician class test receiving his new call sign *KG7UUA*.

The operators would like to Thank Kennie Joe and David Lee for bringing over coffee, breakfast burros, watermelon and cherry tomatoes for breakfast Saturday and Sunday mornings and for David's help setting up. Also helping during this years activities was Dave, *N7AM*'s significant other Luvina, Dave's Daughter Penny, *KB7EDQ*, Wendall, *W7WGW* and his brother Arvin, along with Dan, *AF7EF* were grandchildren Virginia (Wiedmeyer) Garcia, Tabatha Wiedmeyer., her boyfriend Matt Gonzales, Syrena Wiedmeyer



*KG7EQN* having fun!



Congratulations, David!

Dakota Quaintance, Caylun Quaintance and greatgrandson Titus, all skewed up to man a GOTA station. From beginning to end because of the Hot days there were many persons exposed and asking questions about Amateur Radio.

Some pictures are posted at <http://fd2015.info/tiki-index.php?page=Field+Day+2015> more will be added as they come in

Dan, *AF7EF*

# Vail Vaquero 4H ISS Crew Introductions!

Hi, this is the Vail vaqueros 4-H group. Our group focuses on Shooting sports, live stock, and other activities... One, is Ham Radio. Ham Radio is a hobby that lots of people look into.

Our 4-H group is organizing a meet up to contact the I.S.S (International Space Station). This will be a session where you get to contact the I.S.S Astronauts. If selected, everyone is welcome and other 4-H groups are also going to be invited. We will be talking to the astronauts and asking them Questions.

Here is Some information on the I.S.S.The I.S.S is 924,739 lbs and is as long as a football field and has 2 bathrooms, a gym and a 360-degree bay window, but of course there is more than that.

Here are some cool facts the International Space Station Size & Mass:

Module Length: 167 ft

Truss Length: 357 ft

Solar Array Length: 239 ft

Habitable Volume: 13,696 cubic feet

Pressurized Volume: 32,333cubic feet

Power Generation: 8

Solar Rays=84 kilowatts

Lines of computer code: About 2.3 million.



Jacob Komper  
Age 13

**Have you ever wanted to communicate with the inhabitants of the laboratory in space, better known as the ISS? Now you can!**

(Essential Info here!

Location: Empire High School

Time: TBD

Contact:TBD )

The ISS(International Space Station) is an incredible space craft that has had humans on it since 2000. The ISS is a giant laboratory in space, being about as long as a football field, and has a

**Ever wanted to talk to astronauts? Well now you can!**

Location: Empire High School

Time: TBD

Contact info: TBD

Using ham radio you can talk to astronauts in the international space station (ISS). The ISS is as long as a football field. Astronauts live, study and work at the space station. It has different modules that people from certain countries live in. Astronauts live in the space station for only a certain amount of time like six months or maybe a year because zero gravity affects muscles making them weaker. If you are interested in talking live to the astronauts on the ISS you can join us and ask questions about their lives in space.



Zane Walker  
Age 13

**See the next page for the rest of the crew!**

Also part of the crew are Jake, *KG7RHJ*, featured in the June newsletter, and Sitka

volume of one and a-half Boeing 747 airliners!

The ISS was built by five space agencies, that represent fifteen nations as a cooperative effort towards understanding space and exploring it. It is truly remarkable. Even better there is a way you can communicate with them! It is called Ham Radio. If you sign up now, you can ask the people who live in the ISS some of your own questions!



Max Walker  
Age 13



Hi my name is Jerico Dzicek. I am 14 years old and have been involved in 4H for the last six years. Currently, I am the president of the Vail Vaquero's 4H Club and a member of the South East Ranchers 4H Club. I have participated in many projects over the years including, dog, horse, archery, photography and many other projects.

This is my first year in the Ham Radio Project. The Ham Radio Project is fun. This year we built two antennas and a transceiver. We went to several Ham Radio picnics, and took several field trips. We visited the U of A Ham Radio Club and was able to make contact with other radio operators across the country. We went to a Survival Fest and learned that the Border Patrol uses Ham Radio to communicate in remote areas. We also learned about RACES and their role in emergency communication. In March we took a hike on Mt Lemmon and did a SOTA activation. SOTA is Summits On The Air. You hike up to peaks above 9,000 ft and activate home made radio and antennas on low power. It is very cool.

We are learning all about the FCC rules and regulations and I will soon be taking my test to become a licensed ham radio operator. So far I like it!

The best part about the Ham Radio project is that we were approved to make contact with the ISS this summer and am really looking forward to talking to the astronauts. I am SUPER excited to be able to communicate with astronauts while in space!!

Please visit our website for more information on our 4H Ham Radio Project. <https://pimacounty4hhamradio.shutterfly.com/>



Jerico Dzicek  
President Vail Vaquero's 4H Club  
Age 14



Jacob, Jake, and Jerico  
on Mt Lemmon doing SOTA



Sitka and Jerico  
Building a Transceiver



Max and Zane  
building antennas

# 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, *AA3OF*,  
[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 / Cochise 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...

- **CQWW VHF: Jul 18-19**  
<http://www.cqww-vhf.com/>
- **NA QSO Party-RTTY: Jul 18-19**  
<http://www.ncjweb.com/NAQP-Rules.pdf>
- **ARCA, Williams Hamfest: Jul 24-26**  
See flyer this issue
- **NA QSO Party-CW: Aug 1-2**  
<http://www.ncjweb.com/NAQP-Rules.pdf>
- **Skeeter Hunt!: Aug 9**  
<http://www.qsl.net/w2lj/>

JULY						
sun	mon	tue	wed	thu	fri	sat
28	29	30	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	31	1

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

## 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!



Stringin' wire

# 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 *N7AM* 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*





## 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  
RAFFLE TICKETS  
\$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 PL)

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

For More Information

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**Duke City Hamfest**  
Albuquerque, New Mexico  
<http://www.DukeCityHamfest.org>