

RAINBOW CANYONS AMATEUR RADIO CLUB NEWSLETTER



Club Website: www.rcarc.info Number 7 – Vol. 11 November 2025

Club Meeting Information

The RCARC meets at 7:00 p.m. on the 2nd Tuesday of each month at the Cedar City Senior Center, 489 E. 200 South. Down Stairs.

2025 Club Officer's

President:

Fred Govedich
KI7TPD

1-435-559-2682

fred.govedich@gmail.com

Vice President

Ron Shelley
K7HDX

1-623-261-6555

ronald.shelley@gmail.com

Secretary

Bonnie Bain
KI7WEX

1-435-865-1653

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Treasurer

Linda Shokrian
KG7PBX

1-435-867-5914

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Dennis L. West
W6DLW

1-760-953-7935

rcarcnewsletter@gmail.com



CQ, CQ, Happy Thanksgiving



Presidents Message

Dear Fellow Amateur Radio Operators,

Fall is definitely here and we are having much cooler temperatures.

The colors have been wonderful this year with all of the yellow, oranges and reds.

Soon we will be having our first snows as winter moves in, but we still have some nice days left so hopefully you can get out and plan on the radio and enjoy the fall.

Next month looks to be a busy month with our club breakfast to be followed by an Emergency Communication drill and our club meeting on Nov. 11.

We will be taking nominations for club officers at the November meeting and voting for the officers at our December Christmas party.

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RCARC Club Nets:

7 a.m. Breakfast Net - Monday – Saturday – 146.760.

12:30 p.m. Daily – Utah Beehive Net On 7.272.

8 pm. Wednesday – Panguitch Net – 147.160.

8 pm. Thursday– Morse Code Net- This is a Zoom Meeting.

8:00 p.m. Thursday's (Mtn Time) – Western Digital Net. Using FLDIGI, FLMSG AND FLAMP – 3.581 +, 1500/MFSK32.

9:00 p.m. Daily – Friendship Net – 146.760.

11 am. Saturdays (Mtn. Time) QCWA – 160 Net, Utah Chapter, 12 pm. Freq. 7.272.

8 pm. Sunday's – New Harmony NetNet – Bumblebee Repeater. – 146.680.

7 pm Sunday's Southern Utah 2 Meter SSB Roundtable at 7 pm on 144.250 MHz

Local Repeaters:

Intermountain Intertie:

146.940 MHz – Tone 100.0 Frisco.

146.800 MHz – Tone 100.0 Blow Hard

147.200 MHz + Tone 100.0

Tod's/Hatch

146.820 MHz – Tone 100.0 Utah Hill

Iron Mountain

146.760 MHz – Tone 123.0 Hz

146.980 MHz – Tone 100.0 Hz

448.800 MHz – Tone 100.0 Hz

connected to Dutton.

449.500 MHz – Tone 100.0 Hz – Off Air

448.400 MHz -- Tone 100.0/FM & DMR

Bumblebee/New Harmony:

146.680 MHz – Tone 100.0 Hz

Continued page 2

Save The Date

November 11, 2025

RCARC Club Meeting.

7:00 pm. Cedar City Senior Center,
489 E. 200 South. Presentation:
[KR7KR on Propagation](#)

December 16, 2025

RCARC Club Meeting.

6:00 pm. Cedar City Senior Center,
489 E. 200 South. Presentation:
[Club Annual Christmas Party &
Prize Giveaway](#)

January 13, 2026

RCARC Club Meeting.

7:00 pm. Cedar City Senior Center,
489 E. 200 South. Presentation:
[Salt Lake National Weather
Service/Skywarn.](#)

February 10, 2026

RCARC Club Meeting.

7:00 pm. Cedar City Senior Center,
489 E. 200 South. [More info to
follow](#)

President's Message **Continued from page 1.**

Remember if you need help with setting up your radio, software, or other equipment please ask your fellow HAMS for help.

Part of the fun is helping others! As always, I would like to thank everyone who makes our meetings great by asking questions.

I would also like to thank all of our net controls for the nets and everyone who participates!

Cheers!

Fred (KI7TPD)

Local Repeaters continued. **From page 1**

Rowberry:

449.925 MHz – Tone 100.0 VHF
Remote

Dutton:

147.160 MHz + Tone 100.0 Hz.

Winlink- Gateways

Local VHF – K7HDX-10 – 145.030
Portable VHF – K7HDX –11-- 145.050
Local VHF – KG7VEI -- 145.070

RCARC Monthly Breakfast

Please come join us on the first Saturday of each month at 9:00 am. for our club breakfast. We meet at the Golden Corral Buffet & Grill (in the back room), 1379 S. Main Street, Cedar City. Their menu offers an unmatched variety of quality foods from breakfast to dinner. See you there.



**Happy Birthday and
Anniversary to those
celebrating in November**

Happy Thanksgiving

Breakfast & Friendship Net Awards

April 2025

Breakfast Net		Friendship Net		
First Place	Second Place	First Place		Third Place
K2MFK - Kevin	KI7SCX - John	K7HDX - Ron	N7WWB - Darlene	KI7LVB - Tamny
K7ZI - Dick		K7NKH - Lee	W0KLH - Kevin	KK7FLL - Maddie
KC6WFI - Tony	Third Place	KA7J - Lance	WA7GVL - Paul	
KD6HYH - Sonja	KI7TPD - Fred	KI7LUM - Bruce	Second Place	
KG7PBX - Linda	KI7WEX - Bonnie	KI7LVC - Tim	K7ZI - Dick	
W0KLH - Kevin	N7SYI - Sylvia	KI7TPD - Fred	K7QXB - Shirleen	
WA7GVL - Paul		KJ7LTQ - Brant	KI7WEX - Bonnie	
		N7BO- Russ	N7SND - Larry	
		N7SIY - Sylvia	W6DLW - Dennis	

Rainbow Canyons Amateur Radio Club Treasurer Report Oct 14, 2025

Bank balance Sept 1, 2025 **\$2,732.27**

Deposits

Membership

KE7DDX, KM7BYA, N7MZZ + 35.00

Expenses

Rocky mountain Power (98 repeater elec exp) - 11.93

Repay - SK Donation N7TCE to Parkinson's Foundation - 100.00

Bank Balance Sept 30, 2025 **\$2,655.34**

Oct Outstanding

Deposits

Expenses -

Rocky Mountain Power (due 10/15/25) - 11.93

Funds Available after 10/15/2025 **\$2,643.41**

Waiting for - Check order credit + 36.21

Submitted by

Linda Shokrian KG7PBX

2025 RCARC Treasurer

435-867-5914

RCARC Upcoming Events

November 1, 2025 RCARC EComm Field Winlink Exercise from 1-4 pm. On the Iron Mountain 146.980 Machine.

November 11, 2025 RCARC Club Meeting. 7:00 pm. Cedar City Senior Center, 489 E. 200 S. Northside of building, Lower level. **Presentation: Ken Richter - Propagation**

December 9, 2025 RCARC Club Meeting. 6:00 pm. Cedar City Senior Center, 489 E. 200 S. Northside of building, Lower level. **Club Annual Christmas Party/Prize Giveaway.**

January 13, 2025 RCARC Club Meeting. 7:00 pm Cedar City Senior Center, 489 E. 200 S. Northside of building, Lower level. **Presentation: Salt Lake City, National Weather Service – Skywarn.**

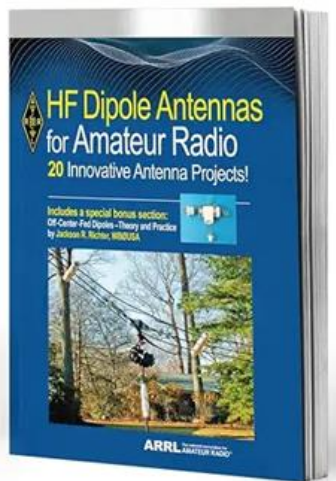
February 10, 2025 RCARC Club Meeting. 7:00 pm. Cedar City Senior Center, 489 E. 200 S. Northside of building, Lower level. **Presentation: TBD**

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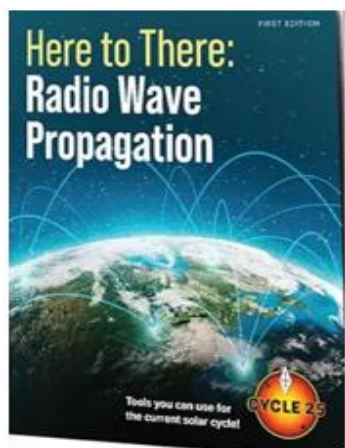
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RCARC Book Giveaway. Books are donated by Linda Shokrian (KG7PBX)

Shown below is the book that will be given away at November 11, 2025 meeting.



The Book below was given away to Shirleen (KB7QXB) at the October 14, 2025 meeting



Congratulations Shirleen See Picture on page 6

Contact Us.

Mailing Address:

195 E. Fiddler's Canyon Road #3.
Cedar City, Utah 84721

Club E-mail:

cedarcity.rcarc@gmail.com

Newsletter E-mail:

rcarcnewsletter@gmail.com

Website

www.rcarc.info

Face Book Page:

<https://www.facebook.com/groups/440325486875752/>

To Join RCARC or Pay Dues:

Go to www.rcarc.info select "Club Info" and then "Join " RCARC. Follow the instructions on the template.

Make check payable to RCARC.
Please write call sign on check.

Thank You



Daylight Saving Time ends on **Sunday November 2, 2025 at 2:00 am**, Fall Back 1 hour.



Buzz's November Safety Tip(s)



Cold Weather Safety Tips

For November cold, stay warm by dressing in multiple layers of loose-fitting clothing, with mittens, a hat, and waterproof boots to protect extremities. Prepare your home and car for cold weather, including a winter emergency kit for your vehicle, and be mindful of falls by wearing appropriate footwear and clearing walkways of snow and ice.

Personal Safety

- **Layer up:** Wear several layers of loose, lightweight, warm clothing to trap heat. Outer garments should be water-repellent and tightly woven.
- **Protect your head and hands:** Wear a hat, as significant body heat is lost through the head. Mittens are warmer than gloves, as they keep fingers together, and they should be snug at the wrist.
- **Use protection for your lungs:** Cover your mouth with a scarf to protect your lungs from the extreme cold.
- **Stay dry:** Stay out of the wind and avoid getting wet to prevent chills and hypothermia.
- **Limit time outdoors:** On extremely cold days, limit the time you spend outside.
- **Be aware of symptoms:** Know the symptoms of cold stress, such as tingling, pain, numbness, and blisters, and seek help if you experience them.

Continued next column

Car and Home Safety

- **Prepare your car:** Pack a winter emergency kit with blankets, warm clothes, non-perishable snacks, water, a flashlight, jumper cables, and sand. Keep your gas tank full.
- **Maintain your heating system:** Have your heating systems checked to ensure they are working properly.
- **Take precautions for plants and pipes:** Protect vulnerable plants and insulate pipes to prevent them from freezing.

Walking and Driving Safety

- **Prevent falls:** Wear shoes with good traction, allow extra travel time, and walk with short, flat-footed steps on slippery surfaces to avoid falls.
- **Clear walkways:** Frequently remove snow and ice from walkways, and use ice melt as needed.
- **Be cautious in wintry conditions:** Stay alert to conditions on the roads and weather forecasts, and avoid driving during and after a storm if possible.



RCARC October 14, 2025 Monthly Club Meeting Pictures



Members reciting the Pledge of Allegiance

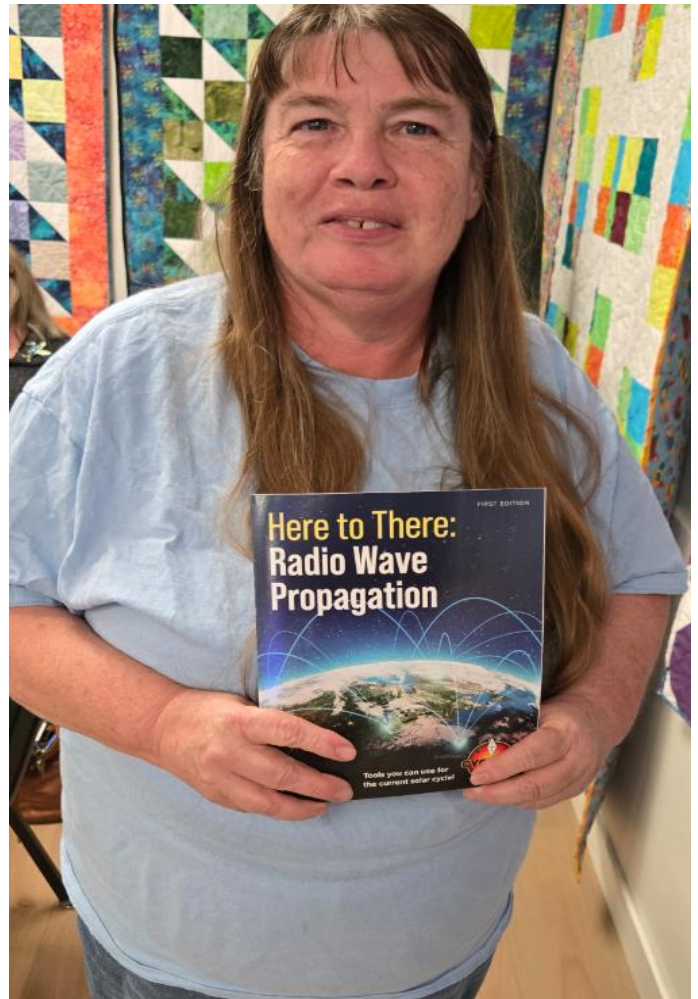


Ron (K7HDX) conducting the business portion of the meeting



Additional photo of Ron (K7HDX) doing club business

Continued next column



Shirleen (KB7QXB) Book Winner of the month.



Ron (K7HDX) presenting the upcoming EComm exercise on November 1, 2025 to attendees. See RCARC EComm Group Meets on Page 18 for additional information on the exercise.

Continued on page 10

WHO PAYS FOR RADIO BROADCASTING?

By HUGO GERNSBACK

NOW that radio has become quite stabilized, not only in the set building and parts manufacturing industries, but in broadcasting as well, we very often hear the question: "Who pays for broadcasting?" The public wonders, and asks all sorts of questions, and has all sorts of ideas. In fact, no end of rumors are afloat about broadcasting in general.

Radio broadcasting may be said to fall into two classifications: non-commercial broadcasting and commercial broadcasting. The non-commercial broadcasting is done by individuals or organizations which broadcast without direct monetary gain, although there is, as a rule, an indirect gain of some sort.

When a newspaper or a publisher of magazines owns a broadcast station, it is usually operated with the idea of increasing the circulation of the publications. In other words, the station is broadcasting propaganda. If a church or educational institution is doing non-commercial broadcasting it is with the idea of gaining as many listeners as possible, in the hope that the listeners will sooner or later "come into the fold." This, in other words, is simply propaganda.

If a department store owns a broadcast station, obviously its use is simply that its listeners will be impressed by the name of the store that operates the station.

The non-commercial broadcaster has a ticklish job, insofar as he can not put over his propaganda in a crude and undignified manner. Suppose a large department store has a broadcast station. How long would listeners stand for it if the department store were to praise its wares in almost every sentence? Nothing like this, of course, ever happens. The department stores, the newspapers and other non-commercial broadcasters are usually content just to get their publicity into the announcement, which may take the following form: "This is Station WXYZ, the John P. Doe Department Store. Our next selection will be—," etc.

Few broadcast stations resort to the use of direct advertising of their wares, although it seems to be ethical with newspapers to call attention to certain news as published in such-and-such a newspaper. News, in other words, is supposed to be a different kind of commodity from a cake of soap or a pair of silk stockings. On the other hand, it seems to be ethical for broadcast stations owned by department stores to institute prize contests occasionally in which well-known merchandise is given away to broadcast listeners.

All in all, the non-commercial broadcaster has not any easy job facing him. The broadcast station is usually charged up to advertising by the bookkeeping department, and only a certain sum is appropriated, which, as a rule, is not exceeded. The station, having no income, cannot go out and hire artists, so all the broadcasting of the non-commercial stations must be done by volunteer artists, who themselves are broadcasting for the publicity which they get from so doing. This, as a rule, works out harmoniously. The public, on the one hand, gets an excellent program by good artists, while the artists themselves get the advertising which they need. This is the reason why the non-commercial stations do not have to resort to any great amount of "raw" advertising over the air. As a matter of fact, a first-class station never does and never should. With the commercial stations, the situation is totally different. A commercial station is one which broadcasts for gain—quite frankly so. It solicits advertising from corporations and the form that the advertising takes is now well known. For instance, let us say, a manufacturer of electric batteries wishes to advertise its name to many thousands of radio listeners. The form that this advertising takes nowadays is somewhat as follows:

"This is Station WXYZ, broadcasting the Everlast Battery Corporation Symphony Orchestra." The advertising is contained in this announcement and if it is repeated week after week it must sooner or later impress the listener that the Everlast battery must be a good battery, although the batteries themselves are never mentioned by

name. The manufacturer of the battery knows that he must follow this up with the printed advertisement, and that the broadcast advertising is simply the forerunner to create good will and a "homey" feeling toward this particular battery.

The battery manufacturer in this case not only pays the broadcast station for the length of time he uses the station, but he has to pay the orchestra or artists as well. There is usually no fixed price for the artists or the orchestras, while there is a fixed price for broadcasting, as shown in the following paragraph. These happen to be the charges of one of the greatest commercial broadcast stations in the country—WEAF, of New York.

This station charges from \$150 to \$500 per hour, depending upon the use to which the station is put, the nature of the program, the hour of the day, etc. These are charges just for the one station. If, however, the entire net of 14 allied stations is tied in for one program from WEAF, the charge is approximately \$2,500 per hour. This is exclusive of the cost of the entertainers and other incidental expenditures.

It will now be seen that the commercial broadcaster has a certain advantage over the non-commercial one, in that he can pay top prices, if necessary, for talent, and on account of this the public gets an excellent program. Also, for that reason, it does not mind the little advertising which makes the broadcasting possible. The public, in America particularly, is rapidly becoming used to this sort of thing and no longer objects to the slight advertising feature over the air, because it knows that this is a world where you cannot get something for nothing and if you wish to listen to an excellent program some one in the end must pay for it. That some one in the end is, of course, the public.

There is a lot of foolishness being pandered about that broadcast listeners do not pay for the programs. They certainly do in one way or another, sooner or later, even though they do not realize it. For instance, if you are a broadcast listener and have heard, all summer long, the Goldentone Cord Orchestra, and are in need of an automobile tire, sooner or later, this name will probably stick in your memory and you will ask for a Goldentone Cord Tire. It will therefore be seen that eventually you will pay your share of the broadcasting expense, which is as it should be. If you derive pleasure from the excellent programs you receive night after night, day after day, you naturally do not feel that you should get all this for nothing.

When you buy a newspaper, or when you buy a magazine, you get such publications at a reasonable cost for one and only one reason; namely, the advertisements contained in such newspapers and such publications. The reader, nowadays, knows that he could not buy his morning paper for two cents, nor his monthly magazine for twenty-five cents, if it were not for the advertising that these publications carry. The advertising, in other words, makes it possible for the newspaper and magazine to be sold at a reasonable price. We do not object to the advertisements in these publications, because we know that without them we could not get such a wealth of text and editorial matter.

Therefore, if your broadcast station gives you a wealth of "text and editorial matter," meaning entertainment, music, speeches, and what-not, all free of charge, without your having to pay any money whatsoever, why object to the little advertising that of necessity must go out on the air to make such entertainment possible?

In Europe they still have the idea that every broadcast listener must be taxed a certain sum in order that the broadcast stations may live. That this policy is foolish is best shown by the fact that there are some 600 stations in the United States alone, while all Europe does not boast of more than about 125. Besides this, there are at least a hundred times more broadcast listeners in this country than in Europe.



The time has come.
This month we will
nominate new club
officers

Hello everyone, Buzz here with a reminder that the RCARC will be taking nominations for the coming year 2026 club officers at the November 11, 2025 meeting.

I'm encouraging each and every one of you to attend and be part of the election process.

Once the slate of nominations is in place members will have a chance to vote for their favorite nominee at the December 2025 Membership Meeting.



Give Thanks

RCARC EComm Group Meets

RCARC EComm group member came together at the Cedar City Visitors Center on October 16, 2025.

Dennis (W6DLW) brought the meeting to order and welcomed all to the meeting. The pledge of allegiance was conducted and the minutes of the last meeting were approved.

Presentation: Dennis then introduced Gordon Clemmer from the Iron County Sheriff's Departments volunteer Posse Unit. who provided a very informative overview of the Organization's responsibilities and capabilities.

The unit is a shoot off of the Volunteers in Police Service (VIPS) program which is part of Citizen's Corps and AmeriCorps.

Old Business

Part of the after-action report from Summer Field Day was that a 10 meter by pass filter was needed for the 10-meter radio set up.

After discussion the group made the decision to purchase a new filter. Dennis (W6DLW) will provide George Colson (Iron County's Emergency Manager) with the needed information to order the filter.

New Business

The Iron County Office of Emergency Management is in possession of an AM Emergency Radio Transmitter. The radio needs a new antenna. Bruno (KG7VVN) will gather the needed information to order a new antenna.

Information will then be given to George Colson for purchase.

In addition, a new computer and software will be needed to do the system programming.

Mesquite Nevada Shakeout Drill

The Drill will be taking place on November 12, 2025. Mesquite has requested that Iron County Participate. EComm member Ron Shelly will cover the Cedar City Hospital check-in and Dennis (W6DLW) will cover the check-in for the Cedar City Public Health Department.

George Gallis (AL7BX) will connect Rowberry to the Dixie Repeaters in St. George for the drill.

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RCARC October 4th Breakfast Pic's



Dick (K7ZI) looking at all the options for breakfast.



Larry (N7SND) and his wife enjoying breakfast.



Dick (K7ZI), wife Susan and Kevin (W0KLH).

Continued next column



Members enjoying their breakfasts and conversation.



Another view.



Sylvia (N7SIY) and Dan (N6NQX) having breakfast.

RCARC October 14, 2025 Monthly Club Meeting Pictures

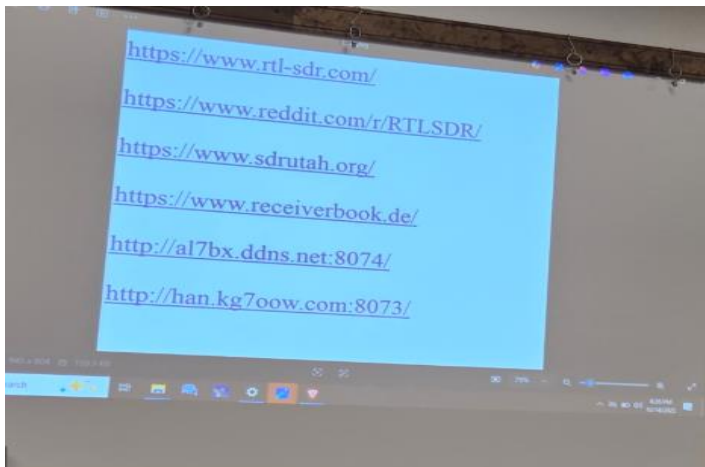
Continued from page 6



Brett Pruitt (K7BDP) ARRL Section Manager for Utah shared with the attendee's information on the upcoming Simulated Emergency Test (SET) that ARRL ARES is conducting on November 8th from 10am-2pm. For more information contact Brett Pruitt directly at email ham.k7bdp@gmail.com prior to the event.



George (AL7BX) presenting a Software Defined Radio presentation to the attendees.



Listed are some websites to checkout for additional information. You can contact George as well.

Amateur Radio Newsline



Every so often I repeat this information reference Amateur Radio Newsline for our new and more season Hams. Please access the following URL to get the latest Newsline information.

www.arnewsline.org

Hints & Hacks

HACK

Workbench Tool Holder

Here's an easy way to keep your small tools organized, visible, and always at hand. Best of all, it's free!

Use a block of Styrofoam, which is commonly used as packing for computer printers and many other products. Try to find a block that is about 2 or 3 inches thick and cut it to a size that's convenient for the spot you choose.

Just stick your screwdrivers, pliers, wire strippers, cutting tools and miscellaneous tools directly into the Styrofoam, as shown in Figure 5. They'll make their own holes and remain right where you place them.

Russ Peck, KG6CLA





A completed travel tube for an antenna for 15 meters. (Bob Patterson, KSDZE, photo)



HACK

Mobile Antenna Transport Tube

You can make transport cases for any of the popular fiber-glass shaft antennas from PVC pipe, end caps, and foam pipe insulation. The cost is minimal and the protection is great. To make two transport tubes, you need the following materials:

- One 10-foot section of PVC pipe 1 1/2 inches in diameter
- Two glue-on PVC end caps
- Two screw-on end caps and two matching glue-on threaded adaptors
- One 10-foot length of foam pipe insulation
- Four 1 1/2-in felt stick-on pads for chair/table legs
- One can of general-purpose PVC cement

I recommend reading all the steps before starting the project.

1. Cut a PVC pipe to fit the length of your antenna. If you use a "quick disconnect" for your mount and whip, make sure you allow for that extra length when you cut the pipe.
2. Put one felt stick-on pad on the inside of each glue-on cap, and one on the inside of each screw-on cap. The pads will protect the antenna as it slides back and forth inside the tube during transport.
3. Cement a glue-on cap onto one end of the tube. This will be the bottom of your transport tube.

4. With the screw-on cap removed, cement a screw-on adaptor to the other end of the tube. Do not screw the cap on before, during, or within 10 minutes after this step. This will allow the cement to dry completely, preventing the screw-on cap from being cemented in place.
5. Insert the foam pipe insulation into the PVC tube, and cut it to fit the length of the tube.
6. Check to ensure that there is no wet PVC cement on the screw-on threads or the screw-on end cap. Once you're sure of this, proceed to the next step.
7. Gently screw on the end cap.

Now that you have your finished transport tube, consider some of these finishing touches:

- Identify the antenna ("15 meters," "40 meters," etc.) that's in the tube using permanent marker on the outside of the tube and the end cap. It's a good idea to write your name and call sign on each tube as well.
- Attach a shoulder strap from a sports bag or backpack to make a carrying handle for your tube.
- Paint the tubes with PVC-approved paint.

Bob Patterson, KSDZE

The cost is minimal and the protection is great.



The Role of Repeaters

Word search

M	B	D	G	P	E	N	C	E	I	U	C	Z	R	E
E	X	I	C	S	O	X	E	L	P	U	D	B	Z	G
T	J	G	O	R	V	A	R	S	N	L	N	S	F	A
R	S	N	M	E	L	Q	Q	B	O	T	U	A	R	R
A	R	H	M	T	G	C	L	O	Z	Z	M	G	E	E
N	E	T	U	A	K	T	H	A	U	C	F	G	Q	V
S	C	C	N	E	R	P	X	Q	C	P	M	P	U	O
M	E	G	I	P	O	R	L	A	N	G	I	S	E	C
I	P	J	C	E	W	B	C	I	O	X	U	A	N	R
S	T	D	A	R	T	E	K	L	S	E	T	A	C	F
S	I	T	T	Y	E	L	M	Q	N	L	K	V	Y	L
I	O	E	I	X	N	K	F	R	Q	P	V	H	I	P
O	N	L	O	D	K	F	M	A	D	M	Z	B	W	Q
N	X	D	N	Q	W	V	O	E	U	I	B	V	R	H
X	K	W	Q	M	M	O	O	D	J	S	D	P	C	I

REPEATERS	COMMUNICATIONS	SIGNAL	COVERAGE	TRANSMISSION
RECEPTION	FREQUENCY	NETWORK	SIMPLEX	DUPLEX

FLORIDA BAPTIST CHURCHES GROW EMERGENCY RADIO NETWORK

People in Florida who turn to their churches in times of need will soon find refuge there in another kind of storm - hurricane season - with the help of amateur radio. Jack Parker W8ISH tells us about creation of a new church radio network-in-progress.

His role as the associational mission strategist for the Marion Baptist Association doesn't require Mark Weible, N4GPA, to have a ham license - but Mark, a former pastor, took his FCC test successfully a year ago and since then he has been finding ways to harness ham radio's power for churches' emergency communications during hurricane season.

The Ocala, Florida Baptist association has already added a radio shack and has plans for a tower. Under Mark's direction, the group is also looking to create a network of hams within its 67 member churches. Pastors are helping Mark locate licensees within their congregations. Meanwhile, the association has a telescoping radio antenna donated after an upgrade done by the Marion Emergency Radio Team, a radio group Mark belongs to which handles disaster communications at the county's Emergency Operations Center.

Mark plans to give church leaders a tour of the association's radio shack in the hopes it will inspire them to install a shack for their own local congregations. He told the Baptist Press that church involvement makes good sense. He said [quote]: "If we were to have a hurricane, I'd need to know which churches have power, which churches are not damaged and which churches can host disaster relief teams. I'd need to know which churches need help and which ones can help." End



WORLD'S LARGEST RADIO TELESCOPE GAINS RFI PROTECTION

As construction continues on the world's largest radio telescope - known as the Square Kilometre Array - Faraday cages have been installed at the site in Australia as additional protection against RFI. Graham Kemp VK4BB tells us what's happening there.

Two Faraday cages have been put in place at the Square Kilometre Array site in Western Australia to protect the giant radio telescope from interference caused by RF leaks coming from inside the data Centre. The data Centre and the array are being built in Murchison, a remote location that provides a needed environment of radio quietness. Despite the radio silence at the location, the data Centre's computers, which connect to the city of Perth, generate stray RF, spurring the need for Faraday cages to prevent the electromagnetic energy from escaping.

The international massive array, which will have 131,072 antennas, is still a work in progress since it was started in 2022. The site in Australia is home to the array's low-frequency antennas; South Africa is housing the mid-frequency antennas. The observatory and headquarters are at the Jodrell Bank Observatory in northwest England.

Although the array will still be a work in progress through to 2029, Philip Diamond, director of the SKA Observatory, recently told The Register website that tests may be run on the facility as early as 2027. He told The Register: "By then we will have the largest physical low-frequency telescope on the planet." End



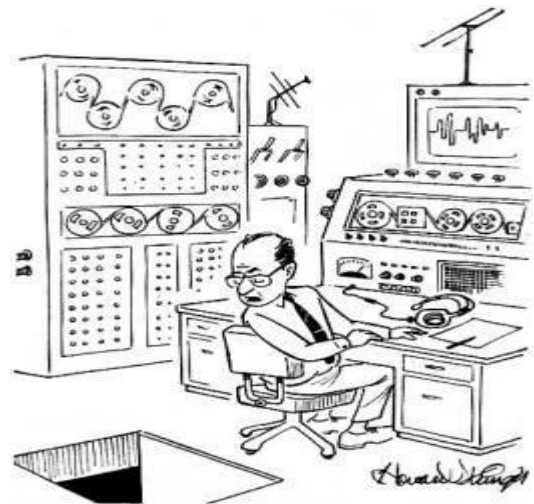
Ham Humor



"I need half a dozen thingamajigs, a couple of do-funnys, and three or four whatchamacallits."



"If I can't say anything good about a person, Vivian, I switch over to CW."



"That funny little button was for people who look over my shoulder, and keep asking questions about all the funny little buttons."



"I hope you realize that not many employers would let you listen to the radio while you work!"



"How do you like the cute shades I made for your funny lamps?"



RCARC Club Members participating in other events

Saturday October 11, 2025 the Community of New Harmony celebrated their 17th Apple Festival. Local families and small businesses spend months preparing — growing, baking, crafting, canning, building, and packaging everything by hand — to make this festival truly special.

This isn't just a market. It's a lifeline. The Apple Festival is the primary fundraiser for the New Harmony Fire Department, whose volunteers keep us all safe throughout the year.

Club members Sonja (KD6HYH) and Anthony Karbowski (KC6WFI) were among the many volunteers keeping the venue running smoothly. See picture below:



Sonja (KD6HYH) assisting an attendee in the lunch food line.



Anthony (KC6WFI) hiding behind Sonja (KD6HYH)



Attendees walking and checking out the Vendor Booths.



Another view



The cooks preparing the grill and getting ready to cook the burgers and dogs.

Ham Radio Terms Word Scramble

	WORD	HINT
1.	WBRHMEOE	Home Made
2.	CEHGWAR	Long Discussion
3.	KCSAH	Room
4.	NALBU	Transformer
5.	LEIDOP	Halfwave
6.	LPXEURDE	divides
7.	LESMIPX	Same
8.	YKNRASW	Spotter
9.	WRTSOE	Support Structure
10.	IAGY	Directional

Answers to Ham Radio Terms Word Scramble on page 20.

Ham Radio Secret Listeners

"Ham radio secret listeners" refers to the **Voluntary Interceptors (VIs)**, a network of civilian ham radio operators in Britain during World War II who were recruited by military intelligence to intercept enemy radio communications. These individuals, sworn to secrecy, listened for and transcribed German signals, which provided crucial raw intelligence for codebreakers at **Bletchley Park**. Their work helped to uncover German spy networks and was vital to the Allied war effort.

Access the URL below for the YouTube Video.

There may be an ad in the beginning.

<https://www.youtube.com/watch?v=EL1aRpNBA2I>



NATO Phonetic Alphabet Origins

Submitted by Keith Potter (NF7B)

The NATO phonetic alphabet is a system that assigns a unique, unambiguous code word to each letter of the English alphabet (e.g., Alfa, Bravo, Charlie) to prevent miscommunication, especially in radio and telephone communications. It is used by military, aviation, and emergency services to ensure clear and accurate transmission of messages, even over long distances or through interference.

Origin: The current system was adopted by NATO in 1956 after previous versions, like the "Able Baker" alphabet used by the US military, were found to be too English-centric and potentially confusing for international speakers. The ICAO also played a significant role in refining the alphabet for international use.

NATO PHONETIC ALPHABET

	A Alpha	B Bravo	C Charlie	D Delta	E Echo
F Foxtrot	G Golf	H Hotel	I India	J Juliett	K Kilo
L Lima	M Mike	N November	O Oscar	P Papa	Q Quebec
R Romeo	S Sierra	T Tango	U Uniform	V Victor	W Whiskey
X X-ray	Y Yankee	Z Zulu			

Please access the URL below for a YouTube Video on the origins of the NATO Phonetic Alphabet. **You may have to set through a 15 second ad first.**

<https://www.youtube.com/watch?v=UAT-eOzeY4M>



Fall Scenery



RCARC EComm Group Meets

Continued from page 8

November RCARC EComm Exercise

The Exercise will commence at 1:00 pm on Saturday November 1st and run until approximately 4:00 pm. Participants will respond to net control on the Iron Mountain Repeater 146.980 for check in and to receive exercise deployment information.

Net control will provide the participant via a text message the location within the county (In their neighborhood) to observe for damage.

Once damage is identified the participant will submit a Damage Assessment Report (DAR) using the Winlink software and the CERT Windshield Survey form.

The information received will be mapped and given to George Colson (Iron County's Emergency Manager) to assist in incident management.

Other Business

CERT Exercise

Od Iron Town will be conducting A CERT Exercise on Halloween Night from 6:00 pm to 9:00 pm. All are welcome to participate.

Adjournment

Meeting was adjourned at 7:06 pm.



Just another view



Gordon Clemmer, Iron County Sheriff's Office, Posse Coordinator speaking with the group.



Gordon Clemmer, Iron County Sheriff's Posse Coordinator addressing the EComm Group.



Continued next column

IARU URGES MORE INCLUSION OF HAMS WITH DISABILITIES

Amateur radio is for everyone, as we know, but not everyone has the same access to what they need to succeed. Some operators, or those who wish to get their license, have disabilities that can get in their way. Jeremy Boot G4NJH tells us about an effort to shine the spotlight on this situation - and the need for change.

One of the greatest challenges of amateur radio ought to be getting a rare DX, logging an all-time-new-one or mastering a new skill or new operating mode. It should not be the act of trying to get on the air itself.

To ensure that radio amateurs with disabilities have the same chance at all the other challenges and adventures, the Program for Disabled Radio Amateurs in IARU Region 1 is encouraging a celebration on and off the air to reflect ham radio's welcoming spirit.

This event will take place on the 3rd of December, which the United Nations has declared to be the International Day of Persons with Disabilities. In an announcement about the program, its coordinator Riri Azrak OD5RI encourages ham radio societies to plan awareness events, nets or special events using a special call sign incorporating the letters PDRA. Hams are also being urged to identify and support radio operators with disabilities or persons with disabilities who are seeking their license.

"Together, we can demonstrate that amateur radio truly belongs to everyone regardless of physical or sensory ability." End



FCC COMMISSIONER PUSHES FOR ACTION AGAINST COPPER THEFTS

We all know how precious copper can be in our antennas and elsewhere in our shacks. Our broadcast colleagues know it too and have suffered in recent years from vandalism and theft involving copper - and it has taken them off the air. One FCC commissioner recently called publicly for a tougher response, as we hear from Kent Peterson KCØDGY.

There is a "growing epidemic" of attacks on communications sites - and the response needs to include sharper federal penalties and more sophisticated preventive action from the industry, according to the newest commissioner to join the FCC.

Olivia Trusty, who was confirmed to the agency in June, called on telecom companies and broadcasters to fortify their sites with tamper-proof housings, cameras and alarms - and said the government must likewise step up the penalties for theft and vandalism. She made her remarks in a video presentation this month at the Telecom Industry Incident Management and Prosecutorial Collaboration Summit in California.

The past two years have seen a number of high-profile copper thefts in the United States, disabling Internet and television services and knocking broadcast stations off the air. For some radio stations, the result was tens of thousands of dollars' worth of damage.

Trusty noted that in some instances, the "911" emergency service was disrupted by similar attacks on telecom sites.

With the US Department of Homeland Security calling communications systems a top infrastructure sector, a bipartisan measure has been introduced in Congress to address these concerns. It is known as the Stopping the Theft and Destruction of Broadband Act of 2025 and was introduced by a Democrat and a Republican lawmaker with support from the industry. End.

GRANT HELPS IDAHO HAMS UPGRADE OUTDATED EMERGENCY COMMUNICATIONS

When it comes to ensuring public safety, obsolete radio equipment is a liability for hams whose priority is emergency preparedness. Thanks to a grant to help them pay for an overdue refresh, one club in Idaho expects to be better prepared from now on. George Zafiropoulos KJ6VU has those details.

A grant from Amateur Radio Digital Communications has brought good news for seven fire stations in Boundary County and an underperforming antenna in the North Idaho repeater group: The \$9,394 in funding will help the Boundary Amateur Radio Club W7BFI install new radios and power supplies at the fire stations and replace the antenna on Black Mountain - all part of a necessary upgrade of obsolete equipment.

Club board member Dan Parrent K7ZFR told the Bonners Ferry Herald that the radios were already 15 years old when the club received them as a donation from the railway 15 years ago. He said "They can't be programmed. One of them doesn't work but those radios were deployed at each of the seven main fire stations

He told the paper that the club can also install a better antenna at Boundary County Hospital, shoring up a necessary connection between radio operators and the hospital in an emergency. End.



Rocky Mountain HamCon Colorado Hamfest

By George Gallis (AL7BX)

Last week KG7PBX, AL7BX, WA7GVL and KK7SDR attended the HamCon Colorado Hamfest in Grand Junction.

The convention has posted online all of the slides that speakers used in their presentations. These can be found in PowerPoint or PDF form by clicking on the 'paper clip' icons at this link.

<https://indico.rmham.org/event/4/timetable/#all>

Answers to Ham Radio Terms Word Scramble from Page 16.

1. Homebrew
2. Ragchew
3. Shack
4. Balun
5. Dipole
6. Duplexer
7. Simplex
8. Skywarn
9. Towers
10. Yagi



What Happen to Heath Kit Radio

The Heath Company was founded as an [aircraft](#) company in 1911^[5] by [Edward Bayard Heath](#) with the purchase of Bates Aero plane Co, soon renamed to E.B. Heath Aerial Vehicle Co. Starting in 1926 it sold a light aircraft, the [Heath Parasol](#), in kit form.^[6] Heath died during a 1931 [test flight](#).^[7] The company reorganized and moved from Chicago to [Niles, Michigan](#).^[8]

In 1935, [Howard Anthony](#) purchased the then-bankrupt Heath Company, and focused on selling accessories for small aircraft. After World War II, Anthony decided that entering the electronics industry was a good idea, and bought a large stock of surplus wartime electronic parts with the intention of building kits with them. In 1947, Heath introduced its first [electronic kit](#), the O1 [oscilloscope](#) with 5-inch diameter [cathode-ray tube](#) (CRT) display that sold for [US\\$39.50](#) (equivalent to \$556 in 2024) – the price was unbeatable at the time, and the oscilloscope went on to be a huge seller.^[9]

See the YouTube video URL below. There may be an ad at the beginning.

<https://www.youtube.com/watch?v=V-F Fz2G7BI>



Scott Carlile

Silent Key

Obituary

Scott Giles Carlile, 45, passed away on October 18, 2025, in Cedar City, Utah. Scott was born June 17th, 1980, in Cedar City, Utah, the son of Brent G. Carlile and Kristine Cowley Carlile. He made a quick entrance into the world and looked like a miniature version of his dad! He was six days old when heart problems manifested, so enroute to Primary Children's Medical Center, they pulled off the road at Cove Fort, and intercepted grandparents from Venice, UT. There, Scott received his official name and blessing. As a child, he had pretty determined ideas and plans. Knowing his mom wanted her dining room to be larger, he came out of his room one day dressed in a toy hard hat with tools in hand, ready to perform the construction remodel. He designed and built several tree houses and loved the freedom his bike provided him. He also built a ham radio house 6 feet off the ground, complete with a padlocked door. Always needing something to do, Scott stayed busy and curious. He also loved dogs and enjoyed many in his childhood. From the beginning of Kindergarten, Scott was adamant about disliking school, even though he loved learning throughout his life. His favorite grade school activity was the parachute.

Continued next column

One day, he colored himself green to be like the Incredible Hulk. His favorite grade school activity was the parachute. Normally, this wouldn't matter, except it was the morning of his baptism as a member of The Church of Jesus Christ of Latter-day Saints. His first job was a local paper route, and he also developed an interest in the Cedar City Fire Department. Then Chief Dave Bently took him in as a 12-year-old boy and let him come every Tuesday to wash the fire trucks and hang out with older firefighters. Pulling pranks was always on Scott's mind—he once put potatoes in all the exhaust pipes of his neighbors' cars and was known for lighting the loudest firecrackers whenever he could. As soon as he became a licensed driver, he learned all the ins and outs of vehicle maintenance and car repair alongside his dad. He had a knack for figuring things out and appreciated the money saved by having the skills. He also developed a strong interest in radio equipment and fixing broken electronics—technical talents he often used to help others. Scott was also an avid Scouter and enjoyed countless hikes. He earned his Eagle Scout Award, in addition to several palms. In high school, he started working at Lin's and stayed there until he graduated from college.

Continued on page 22

Scott Carlile Silent Key

Continued from page 21

A chronic prankster, he partnered with some coworkers, and he may or may not have switched some labels on the canned vegetables. At age 20, he officially joined the fire department and became a volunteer firefighter. Over the course of his 25-year service, Scott received numerous commendations, certifications, and awards. His love for pranks continued with the FD, and he was often able to sit quietly in the back row with wandering eyes, as the mayhem ensued. Eventually, they got wise to him, but he sure had fun. He loved the brotherhood and was so sad as many of his mentors passed away. His current position was Station 1 Captain, and at one of his more recent fire calls, his claim to fame was his first bona fide rescue ... of a chinchilla. In 2004, Scott and Betsy first laid eyes on each other at an accident scene on 800 West 200 North. The fire marshal set them up and they quickly began dating exclusively. Because of Betsy's job covering public safety for the local newspaper, she was often at the firehouse. She loved the camaraderie but also often felt like she was dating the entire fire department! Although they dated for 14 months before they got engaged, many of the firefighters felt they should have taken that step much sooner. Scott and Betsy were married and sealed in the Saint George Temple on September 2, 2005, and had 20 years of love and learning together. Betsy supported the family while Scott finished school, and in May of 2006, he graduated from Southern Utah University with a Bachelor of Science in Electronic Engineering Technology. Scott worked some different jobs until he was hired full-time at the Cedar City Fire Department in 2006. Scott went back to Volunteer Status in 2008 after a private defense contractor in Las Vegas hired him to work in his engineering field. That job required a Top-Secret Security clearance, which was a source of pride and honor for Scott. Not wanting to be away from his family, Scott decided to go back to school and pursue a Master's Degree in Accounting. After a brief trial of faith, he was hired as a student employee in the Accounting Department at SUU, and upon graduating in 2016, he became a full-time employee. Scott has held numerous titles, including Budget Analyst, Adjunct Professor, and Assistant Auditor. He was working as the Assistant Director for Planning and Budget at the time of his passing.

Continued Next Column

He appreciated the Budget Office and cared deeply about his coworkers. Before having kids, Scott and Betsy loved to travel. Jack joined the family on his terms on April 15, 2010. Parenthood was an adjustment, but Scott loved being a dad. Tess joined the family six years later on June 8, 2016, and Jack couldn't wait to have a sister. Scott loved supporting his kids in their activities, whether it was a baseball game, a gymnastics showcase, a school program, or even coming to their school during fire drills. His favorite thing was also to surprise the kids with a trip. Over Memorial Weekend, the surprise trip was to New York City, and Scott loved seeing the 9-11 Memorial and riding ebikes through Central Park. Scott and Tess especially enjoyed holding hands, and Scott was so impressed with all of the cardboard structures she would make for her "Barbie Village." Scott and Jack enjoyed home and vehicle maintenance projects, practicing chipping in the front yard or playing catch. Scott enjoyed being outdoors with his family, surprising them, trips to Disneyland, drives in the fall to see the leaves, and having extended family dinners every Sunday night. He would also never say no to a Chicken and Shrimp Basket at Brad's Food Hut. His favorite night of the year was always Christmas Eve, when the family would come over for Prime Rib and games, watching for the Christmas Brownie, and doing a white elephant gift exchange. His favorite prank was when Betsy won a KFC scented fireplace log. Unbeknownst to her, he hid it in the back of her car. The next time she got in her car, he was watching and grinning from ear to ear. Scott is survived by his wife, Betsy Miller Carlile, son, Jack Giles, and daughter, Tess Kalea. His parents are Brent G. and Kristine Cowley; Siblings: Tony (Valena) Carlile, Stephanie (Les) Richey, and Kim (Matt) Brinkerhoff. He is also survived by several nieces and nephews, whom he enjoyed, many extended family members, including in-laws and chosen family, including members of CCFD and SUU communities.

