

# RAINBOW CANYONS AMATEUR RADIO CLUB NEWSLETTER



Club Website: [www.rcarc.info](http://www.rcarc.info) Number 7 – Vol. 8 August 2025

## Club Meeting Information

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

## 2025 Club Officer's

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CQ, CQ, Happy Summer



## Presidents Message

Dear Fellow Amateur Radio Operators,

I hope everyone is having a great summer so far. It has been a dry summer (but a little cooler). I had a great time at the Radio Direction Finding/Fox Hunt talk at the beginning of the month and hope that those who came and tried out the equipment will participate in the Fox Hunt later this year (we will have the equipment at the BBQ, so try it out!). With all of the recent fires and power outages it is a good time to check through your equipment and see what you can do in the case of an emergency or power outage. Think about building your own radio and power box if you have not done so and make sure you have backup batteries, solar or a generator in case the power goes out. In September our monthly meeting presentation will be on power options so this is a good topic to be thinking about. If you have examples, please feel free to share at the Sept. meeting!

Continued on Page 2

## RCARC Club Nets:

7:00 a.m. Breakfast Net - Monday – Saturday – 146.760.

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

8:30 p.m. Tuesday's - ORCA Digital Net. Using FLDIGI, FLMSG AND FLAMP – 3.581 +, 1500/MFSK32.

8:00 p.m. Wednesday – Panguitch Net – 147.160.

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

8:30 p.m. Thursday's - WDN Digital Net. Using FLDIGI, FLMSG AND FLAMP – 3.581 +, 1500/MFSK32.

8: p.m. Saturdays – SSTV – 449.925.

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

11: a.m. Saturdays (Mtn. Time) QCWA – 160 Net, Utah Chapter,  
12: p.m. Freq. 7.272.

8:00 pm. Sunday's – New Harmony Valley Net – Bumblebee Repeater. – 146.680 with a minus offset – PL 100.

## Local Repeaters:

### Iron Mountain

146.760 MHz – Tone 123.0 Hz  
146.980 MHz – Tone 100.0 Hz  
448.800 MHz – Tone 100.0 Hz  
449.500 MHz – Tone 100.0 Hz  
448.400 MHz -- Tone 100.0/FM & DMR

### 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

### Bumblebee/New Harmony:

146.680 MHz – Tone 100.0 Hz

### Rowberry:

449.925 MHz – Tone 100.0 VHF Remote

### Dutton:

147.160 MHz + Tone 100.0 Hz.

## Save The Date

**August 12, 2025**

### **RCARC Club Meeting.**

7:00 pm. Cedar City Senior Center,  
489 E. 200 South. **Annual Club  
Barbeque.** Stay tuned for more  
info.

**September 9, 2025**

### **RCARC Club Meeting.**

7:00 pm. Cedar City Senior Center,  
489 E. 200 South. **Presentation:  
Using Solar and other alternate  
systems with Ham Radio.**

**October 14, 2025**

### **RCARC Club Meeting.**

7:00 pm. Cedar City Senior Center,  
489 E. 200 South. **More info to  
follow**

**November 11, 2025**

### **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! Remember you can always pick up the mic and see who is listening! 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!

We will have our Club BBQ and Potluck August 12<sup>th</sup> at 6:00 PM in the Christ the King Catholic Church, 690 Cove Dr. (same location as our Swap Meet). I will bring out some fox hunting gear for those who are interested and we will have a show and tell for installing mobile rigs. Hope to see you soon!

Cheers!

Fred (KI7TPD)

## Notice

**Due to the 4<sup>th</sup> of July  
Holiday the monthly club  
breakfast at the Golden  
Corral was canceled.  
Therefore, no pictures  
from July.**

## 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 August**



# Happy Summer Everyone

# Breakfast & Friendship Net Awards

July 2025

Breakfast Net		Friendship Net		
First Place	Second Place	First Place	Second Place	Third Place
K7ZI - Dick	KI7SCX - John	K7NKH - Lee	K7HDX - Ron	KJ7LTQ - Brant
KE6ZIM - Johnny	N7SIY - Sylvia	K7ZI - Dick	N7WWB - Darlene	KK7UBC - Tommy
KG7PBX - Linda	N7SND - Larry	KA7J - Lance	KI7LVC - Tim	N7SIY - Sylvia
KI7TPD - Fred	<b>Third Place</b>	KI7LUM - Bruce	N7SND - Larry	
KI7WEX - Bonnie	KK6FLO - Dave	KI7TPD - Fred	W0KLH - Kevin	
W0KLH - Kevin	W0DHT - Del	KI7WEX - Bonnie	W6DLW - Dennis	
WA7GVL - Paul		WA7GVL - Paul		

## Rainbow Canyons Amateur Radio Club Treasurer Report July 8, 2025

Bank balance June 1, 2025	<b>\$2,978.50</b>
Rocky mountain Power (98 repeater elec exp)	- 11.56
Bank Balance June 30, 2025	<b>\$2,966.94</b>
June Deposits - membership - KJ7OGZ, NR7T	+ 30.00
Expenses - Rocky Mountain Power (due 7/16/25)	- 11.68**
**Elec cost for 98 repeater after solar panels installed	
Field Day Food	- 249.86
Funds Available after 7/16/2025	<b>\$2,735.40</b>

Submitted by  
Linda Shokrian KG7PBX  
2023 RCARC Treasurer  
435-867-5914

## RCARC Upcoming Events

**August 2, 2025** RCARC Field Trip to the Blowhard Mountain Repeater Site. The Caravan will leave from the Goden Corral Restaurant after breakfast around 10:00 am.

**August 12, 2025** RCARC General Membership meeting and annual barbeque at Christ the King Catholic Church Pavilion at 690 S. Cove Drive. Just S. of the temple at 6:00 PM. Come try your hand on Fox Hunting.

**September 9, 2025** RCARC Monthly Membership Meeting at the Cedar City Senior Center 489 E. 200 S. Lower-level, N. side of building at 7:00 PM. **Presentation: Using Solar and other alternative power sources with Ham Radio.**

**October 14, 2025** RCARC Monthly Membership Meeting at the Cedar City Senior Center 489 E. 200 S. Lower-level, N. side of building at 7:00 PM. **Presentation:**

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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 the August 12, 2025 meeting.**

### Note

There will be no book given away at the August 12, 2025 Meeting & Barbeque



The Book below was given away to Julie Ross (KK7WNN) At the July 8, 2024 meeting



**Congratulations Julie**

See Picture on page 12

## Contact Us.

### Mailing Address:

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Cedar City, Utah 84721

### Club E-mail:

[cedarcity.rcarc@gmail.com](mailto:cedarcity.rcarc@gmail.com)

### Newsletter E-mail:

[rcarcnewsletter@gmail.com](mailto:rcarcnewsletter@gmail.com)

### Website

[www.rcarc.info](http://www.rcarc.info)

### Face Book Page:

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

### To Join RCARC or Pay Dues:

Go to [www.rcarc.info](http://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**

## Fox Hunting Opportunity.

If you would like an opportunity to try your hand at Fox Hunting then please join us at the August 12<sup>th</sup> RCARC Club meeting and Barbeque (**See Flyer on page16**).

The necessary equipment for you to hunt down the fox will be available.

Please come join us and give it a try.





## Buzz's August Safety Tip(s)



**August** often brings warm weather and opportunities for outdoor activities, making it a month to be mindful of various safety precautions.

**August safety tips** focus on staying safe during summer's heat, preventing heat-related illnesses, and being aware of potential hazards like sun exposure, fire, and traffic. Key recommendations include staying hydrated, taking breaks in the shade, using sunscreen, and being mindful of surroundings while driving or walking.

### Here's a more detailed breakdown:

#### Heat Safety:

- **Hydrate:** Drink plenty of water throughout the day, especially when outdoors.
- **Seek Shade:** Take frequent breaks in cool, shaded areas to avoid overheating.
- **Dress Smart:** Wear light-colored, loose-fitting, and breathable clothing.
- **Sun Protection:** Use sunscreen with SPF 15 or higher, wear a wide-brimmed hat, and sunglasses.
- **Know the Risks:** Be aware of the symptoms of heat exhaustion and heatstroke and take action if they occur.
- **Never Leave Children or Pets in Parked Cars:** Temperatures inside a car can rise rapidly, leading to heatstroke.

Continued next column

#### Grilling Safety

Grilling safety involves preventing fires and burns, ensuring food safety, and handling fuel safely. Key practices include keeping the grill away from structures, never leaving it unattended, using proper lighting techniques, and maintaining a safe distance between the grill and people. Additionally, food safety is crucial, involving proper thawing, cooking to safe temperatures, and preventing cross-contamination.

#### Fire Safety:

- **Location:** Place the grill at least 10 feet away from buildings, overhanging branches, and anything flammable.
- **Stability:** Ensure the grill is on a stable, level surface.
- **Supervision:** Never leave a lit grill unattended.
- **Gas Grill Safety:**
  - Open the lid before lighting to prevent gas buildup.
  - Check for gas leaks with soapy water solution.
  - Store propane tanks outdoors in a well-ventilated area.

Continued on page 6

## Buzz's August Safety Tip(s) *Continued from page 5*

### Grilling Safety **Continued:**

#### Charcoal Grill Safety:

Use only charcoal starter fluid, not gasoline or other flammable liquids

- Allow coals to cool completely before disposing of them in a metal container.
- **Extinguishers:** Have a fire extinguisher or a bucket of water nearby.
- **Clothing:** Wear appropriate clothing (no loose sleeves or dangling items).

#### Food Safety:

- **Thawing:**

Thaw frozen food in the refrigerator, cold water, or microwave, not at room temperature.

- **Cooking:**

Cook food to safe internal temperatures using a food thermometer.

- 145°F for whole cuts of meat (with a 3-minute rest).
  - 160°F for ground meats.
  - 165°F for poultry.
- **Cross-Contamination:**

Use separate cutting boards and utensils for raw and cooked food.

- **Cleanliness:**

Wash hands, surfaces, and utensils thoroughly before and after handling food.

**Continued next column**

### General Safety:

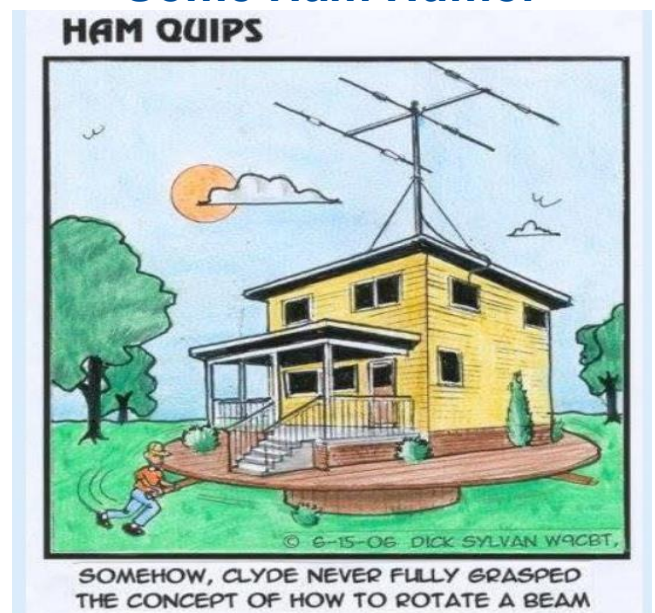
- **Children and Pets:** Keep children and pets at a safe distance from the grill.
- **Cleaning:** Clean the grill regularly to remove grease and fat buildup.
- **Lid:** When using a gas grill, always open the lid before lighting.
- **Safe Zone:** Establish a safe zone of at least 3 feet around the grill.



### HAMSHACK HOTLINE TO BE DISCONTINUED

Say goodbye to Ham shack Hotline, the free VOIP telecom service. The service announced it would be discontinued, effective the 29th of August. The project began in 2018 and grew to be a global communications network with a peak establishment of 7,000 interconnections across numerous servers. Ham shack Hotline's board of directors said it will donate whatever cash reserves it may have to a charity that supports military veterans. End.

### Some Ham Humor







Vol. 7

AUGUST, 1925

No. 2

## RADIO RECORDING

By HUGO GERNSBACK

**R**ADIO enthusiasts are in for a new treat which is coming along rapidly. Very often when we listen in by radio to a great personality, a well-known opera singer, or a famous orchestra, we are wont to exclaim that radio, while a wonderful thing, is still more or less ephemeral. In recent years some well-meaning, but otherwise misguided people have condemned radio for just that reason. They will tell you glibly that, after all, there is nothing like the phonograph, because you can repeat the selection any time you wish, whereas with radio, if you get a really excellent offering, it has flitted into the past just when you enjoy it most.

These well-meaning people are in for a severe shock, because it is becoming more and more apparent every day that radio can beat the phonograph at its own game any time it wishes to do so. The writer has in his possession a record of a recent speech by President Coolidge. This record was made in New York, using an ordinary 4-tube radio set. Mr. Coolidge spoke from Washington, of course, while the speech was broadcast through a New York station. The man who made the record has a specially constructed little machine by which the radio loud speaker is attached to a recording device, through which agency the entire speech was recorded.

The writer understands that a number of companies are now busily engaged in bringing out recording machines which can be attached to any radio set, making it possible for even a layman to record any selection that is wanted, and so preserve it for future use. Nor will these recording devices be expensive. They will, in most cases, cost far less than a radio outfit itself, and provide a lot of new entertainment for the radio enthusiast.

This is of particular importance right now, when so many companies are going into the manufacture of radio sets having a phonograph as an adjunct. It will, therefore, be a simple matter to record your radio selection and then play it on the phonograph alongside.

The reader will now probably make the objection that the 12-inch record, which is the largest made, can hold only five minutes of entertainment. Smaller records, of course, are in proportion. What, then, will happen if the President of the United States, or some other famous man, gives a lecture that runs for twenty-five

minutes? Obviously, the phonograph disc is useless on such an occasion.

There is a more recent development which one concern, taking cognizance of this fact, proposes to put upon the market. This is to be a photographic-phonographic device, similar in some ways to the DeForest Phonofilm. It is proposed to make a very narrow film, not more than one-quarter of an inch wide, rolled upon a reel. Such films could be bought at a low price.

The film is run through a small machine by means of a motor, while the incoming radio sound impulses are registered on the photographic film by means of a photo-electric cell. These films are good for a half-hour's run, while longer films can, of course, be made to run for an hour, if necessary.

A device of this kind naturally does not take up much room, nor is it expensive. The recording is easily done, even by a layman, and after the full record is finished the photographic roll is taken to your nearest drugstore and developed, just exactly as are the snapshots which you take with your Kodak. After the film comes back developed, it is run through the identical machine, by motor. The photo-electric cell is now used again in conjunction with your loud speaker. Every sound which originally came in through your radio set is held fast in the film, and can be reproduced a dozen or a thousand times, if necessary.

This method is much superior to the phonographic disc method. The latter has the disadvantage that the record must be made in soft material, such as zinc, wax, etc., and such a master record cannot be played many times before it begins to wear out. To be sure, matrices could be made from the original master record, but no layman would have the equipment to do this.

On the other hand, the photographic method is much better, because it has been proven that a photographic film on which sounds have been photographed can be run through the machine more than ten thousand times without acquiring any noticeable defects whatsoever. The reason is that no mechanical stylus is used on the photographic film, but rays of light instead, which do not affect the photographic film once it has been developed. We should, therefore, soon see in every house that has a first-class radio set, a radio recording device. It gives radio a new thrill and a permanency that it did not possess before.



## RCARC July 2025 Club Meeting and Presentation Pictures.



Meeting called to order and Fred (KI7TPD) conducting the pledge of allegiance.



Fred (KI7TPD) conducting club business



Fred (KI7TPD) introducing the Fox Hunting presentation.

Continued next column



Some of the Fox Hunting Equipment that will be used in the presentation and fox hunt practice at end of presentation.



Additional fox hunting equipment.



Even more antenna equipment used for fox hunting.

Continued on page 10



## POTA ACTIVATOR ELECTROCUTED IN NORTH CAROLINA

Tripp Owens, N4NTO, a well-regarded POTA activator died on Friday, July 4th, when, according to investigators, his antenna mast made contact with an overhead power line at the Chicora Civil War Cemetery near the Aversboro [pronounced: aver-us-burro] Battlefield Historic Site, US-11375. According to several local news reports, emergency crews were called to the scene after Tripp was found unconscious in the parking lot. One news report said that fire crews found him with his foot touching the mast beneath the power lines. Power company crews turned off the power to give the responders access. Tripp was pronounced dead at the scene.

A report on the QRPer.com website relayed information from Dave W4JL, who said Tripp had been spotted on the Reverse Beacon Network between 12:02 and 12:13 UTC that morning but noted on the POTA spots page that he was going QRT. QRPer's Thomas Witherspoon K4SWL added: [quote] "This is heartbreaking news for those of us in the Parks on the Air and WWFF communities. Tripp was a well-known and well-loved North Carolina POTA operator—a dedicated hunter and activator whose callsign appears in my logs many times over the years." [end quote]

Tripp's death was ruled accidental. Within hours of the news, the ham radio community offered condolences to his family on social media and shared memories of a man who they praised for his spirit of mentorship and his gentle sense of humor. Mark Gibson, N4MQU, praised him for his achievements as a top CW operator and a devoted contester.

He had been a ham since 1985. "Ambrose 'Tripp' Owens the third was 57 years old. END.

## YOTA AMERICAS CAMPERS LAUNCH FARTHEST BALLOON TRIP

Thirty-two campers traveled from all over the world to Thornton, Colorado in June to attend the annual Americas wide camp for amateur radio operators aged 15 to 25 called Youth on The Air. Jack McElroy, KM4ZIA, has been the leader of the YOTA balloon launch team since he was 14 years old at the camp's first in person event in the Americas.

In 2022, Newsline shared Jack's story of one of his personal balloons becoming the closest any amateur radio balloon has been to the South Pole. At this year's YOTA camp, the youth team in cooperation with Edge of Space Sciences launched a high-altitude balloon, tracked it by APRS, and brought back video from near space after reaching a height of 96,600 feet. But thunderstorms prevented the launch of the two Pico balloons scheduled for that afternoon.

Instead, the balloons were transported to NIST radio station WWV in Fort Collins the next day, where the campers were taking a tour of the facility and operated portable stations. The wide-open spaces and clear sky at WWV proved to be a great launch site for these balloons as they started the longest journey of any YOTA Americas balloons yet. At the time of recording this edition of Newsline, one balloon is flying over Hawaii and is closing in on an entire orbit around the Earth, while the other balloon made it to western Iran before returning to the ground.

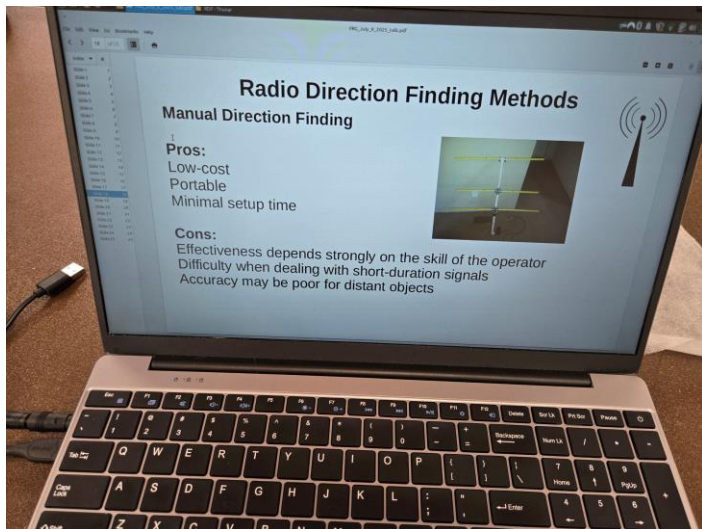
"This all would not have been possible without the curiosity and efforts of the campers, for they were the ones assembling, balancing, and launching the balloons. I hope that through experiences like this, youth can be inspired to bring their amateur radio expertise into areas that they never thought possible, from research projects to future careers." The balloon launch was sponsored by the North Fulton Amateur Radio League. You can follow the trek of these balloons on WSPRNET.ORG under KM4ZIA and on APRS.FI under WØY-1 and WØY-11. END

# RCARC July 2025 Club Meeting and Presentation Pictures.

Continued from page 8



Another style of antenna in the tool box for fox hunting.



The presentation begins.



Fred (KI7TPD) conducting a Power Point presentation on Fox hunting.

Continued next column



Brant (KJ7LTQ) showing one of his antennas for fox hunting.



Brant (KJ7LTQ) demoing a left to right sweep to show how the signal gets strong then weak. Which indicates the direction you want to move.



Fred (KI7TPE) demoing his antenna in a sweeping move showing how the signal strength changes.

See page 2 for information on how you can participate in Fox Hunting at the August 12<sup>th</sup> Barbeque.



## NEW WORLD RECORD FOR CW CALLSIGN COPY

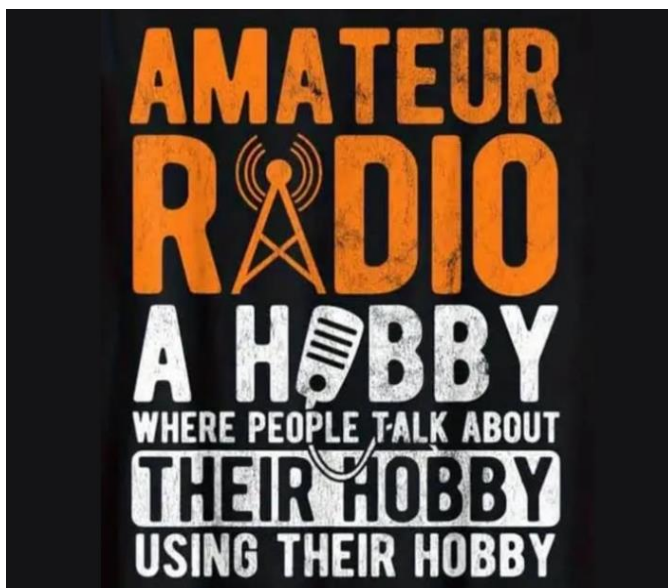
Our top story this week takes us to Germany where Europe's biggest ham radio trade fair was also the scene of a record-breaking achievement worthy of the Guinness Book of World Records.

Ham Radio Friedrichshafen's theme this year centered around remote radio operations but strong attendance proved that hams still like to show up in person to greet one another. An estimated 11,600 guests from 52 countries made the annual trip to Germany.

Many of them were present as the ham radio fair celebrated a record-breaking moment. A 13-year-old radio amateur from Romania surpassed last year's achievement in high-speed telegraphy, as spectators watched, mostly in silence, Ianis Scutaru, YO8YNS, achieved a maximum speed of 1,160 characters per minute for callsign copy - for a total score of 395,191 - landing him in the Guinness Book of World Records.

The crowd erupted in cheers and applause only after he had finished and the announcement was made. Ianis, the son of Lucian, YO8SLC, has been practicing Morse Code since the age of 8. End.

### More Ham Humor



## RUSSIA WORKS ON MODULES FOR SPACE STATION

Russia's space-station partnership with the US will soon be replaced by its own orbital station as Roscosmos prepares its first modules. We hear more from Graham Kemp VK4BB.

Just as the US prepares to take the International Space Station out of service in 2030, the space agency Roscosmos plans to launch the first modules for its Russian Orbital Station, the world's first drone platform space station employing robot maintenance. The move also marks the end of international collaboration in space between NASA and Roscosmos.

The Russian space agency is eyeing a 2027 launch for the first segment of its space station - the Scientific and Power Module, as the station enters a near-polar orbit. The full transition to the Russian Orbital Station is expected to be completed by 2030, just as the ISS awaits decommissioning. Other modules are also set for launch in 2030, including the gateway, the universal-node and base modules. Roscosmos expects the spacecraft to establish several stable communication channels by 2030, as the number of communication devices increases over the years. Roscosmos views the space station as a permanent fixture for Russia's space activities well outside of Earth's orbit. End.





**September 6, 2025**

The 16th annual running of the Cedar City Half Marathon down Cedar Canyon will feature plenty of pleasant surprises and is one of the most spectacular descending closed-canyon runs ever. Whether it's the sound of Coal Creek, breathtaking views, enthusiastic aid station volunteers, or energy-pumping music with crowds urging you to finish strong—the focus of the "Cedar Half" has always been on a quality runner experience over quantity. It's rare to run a half marathon or a canyon without worrying about traffic. You'll have the roads and trails to yourself in the Cedar Half. On race day, Cedar Canyon is closed to all vehicles, and at the mouth of Cedar Canyon all runners will transition onto Cedar's magnificent trail system all the way to the finish line.

RCARC has been asked to assist in this event. Please come join us and help provide race communication.

If you are interested in joining other club members please contact:

**Ron Shelley (K7HDX) at**  
[ronald.shelley@gmail.com](mailto:ronald.shelley@gmail.com)



Julie Ross (KK7WNN) won the book drawing titled  
 "The Parks on the Air Book"

# Who Knew?

Something new hams need to be aware of is a less-than-obvious bit of old-timey ham-speak still in use.

You may hear a ham say, "hi" or "Hihi" over the air or in person or in writing, and, curiously, their particular use of the term, "hi" is not in context of a greeting.

In ham-speak the term "hi" means laughter. Often doubled (Hihi), it's a ham's way of expressing a humorous response. So, when a ham says, "hi" he/she is laughing at something. Kind of like saying LOL in a text message or web post.

Where did this come from? In the early days of amateur radio, CW was the only mode so all communications were in Morse code. The word HI in Morse is dit-dit-dit-dit - dit-dit, (.... ..) which sounds like an electronic chuckle. Quickly adopted, hams have been using "hi" for laughter decades after voice and other modes were added to our radio amateur repertoire. End

## Utah Midsummer Renaissance Faire.

During the medieval times, vendors brought their wares, along with their families, in wooden carts the base of the city's walls for Festival Days. They set up a temporary shelter where their families slept, ate and played. Guildsmen worked at their crafts whenever business was light, and everyone sold hard, shouting their wares at passersby. Festival days were a joyous gathering of people, a bustling social event, full of color, music, laughter, and endless commotion.

The festival known as the Utah Midsummer Renaissance Faire, follows this tradition and has been a long-standing festival of fun, excitement, and great memories for over 40 years. People continue to gather from around the world to Cedar City, Utah to be a part of these festivities every Summer.

**Continued on page 19**



## 'NIGHT OF NIGHTS' HONORS LONG-GONE MARITIME TRADITION

Every year, devoted volunteers return the tradition of maritime radio to the air in California. Ralph Squillace KK6ITB tells us how.

The silencing of the last maritime radio station in the US in California in 1999 gave voice to an effort to create the Maritime Radio Historical Society, K6KPH, to preserve its treasured Morse Code tradition.

Every year, the event, "Night of Nights," celebrates this tradition on the anniversary of the day that the station signed off - ensuring that July 12th would not mark the station's final signoff, after all. Broadcast engineers, radio operators and history enthusiasts have seen to that. They volunteered to bring new life to the receive site at the Point Reyes National Seashore and to the Bolinas Radio transmitter site - returning Morse service to the station known as KPH/KFS.

This year's 26th edition of "Night of Nights" is a collaboration of modern skills and classic style equipment, including "Marconi T" type antennas at both the transmitter and receiver sites. KPH and KFS will be operating on assigned commercial frequencies while K6KPH will be operating on several HF amateur radio bands. For times, frequencies and QSL information, please check the Maritime Radio Historical Society website at [radiomarine.org](http://radiomarine.org). END.

### **Donation in Honor of Merlin Mackay**

**The Rainbow Canyons Amateur  
Radio Club has donated \$100.00 to  
the Michael J. Fox Parkinson's  
Research Foundation to aid in  
Parkinson's research.**

## Hints & Hacks

### Gripping Coax Connectors

It is usually best to finger-tighten the threaded shells of coaxial connectors, so they can be easily removed.

That's good advice, until you need to unscrew an especially stubborn shell.

Even a shell that's been finger tightened can become difficult to remove over time.



**An inexpensive rubber jar-opening pad is ideal for dealing with overtightened connectors as shown above.**

My solution is to use one of those rubber pads that are intended to help open ultra-tightened food jars and bottles.

They go by many names and are available at many grocery stores. The grippy rubber pads are inexpensive and are ideal for loosening difficult connectors. They also came in handy when it was time to attach a connector, allowing you to finger-tighten with the best of them. 73 Cameron Bailly, KT3A. [kt3a@arrl.net](mailto:kt3a@arrl.net).

# The Science of Wave Propagation

## Word Search

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

Propagation	Frequency	Reflection	Refraction	Diffraction
Absorption	Interference	Transmission	Distance	Conditions



# US Amateur Radio Bands

Operator license classes: **E** = Amateur Extra **A** = Advanced **G** = General **T** = Technician **N** = Novice  
CW operation is permitted throughout all amateur bands. Except as noted, all frequencies are in megahertz (MHz).

■ = RTTY, data, phone, image    ■ = USB phone, RTTY, data and CW    ■ = RTTY and data    ■ = phone and image  
■ = SSB phone      = CW only

## LF – Low Frequency band

## MF – Medium Frequency bands

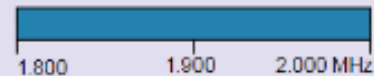
**2200 Meters (135 kHz) E,A,G**  
1 W EIRP maximum



**630 Meters (472 kHz) E,A,G**  
5 W EIRP max, except in Alaska within 496 miles of Russia where the limit is 1 W EIRP



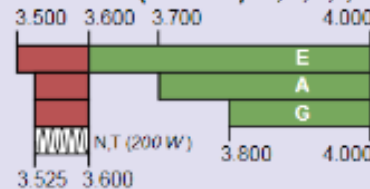
**160 Meters (1.8 MHz) E,A,G**



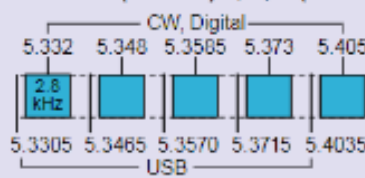
Amateurs wishing to operate on **2200 or 630 meters** must first register with the Utilities Technology Council online at <https://utc.org/plc-database-amateur-notification-process/>. You need only register once for each band.

## HF – High Frequency bands

**80 Meters (3.5 MHz) E,A,G,T,N**

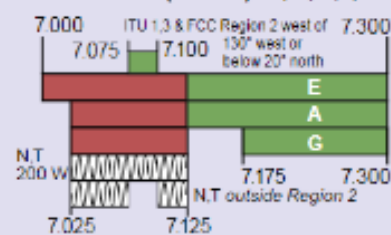


**60 Meters (5.3 MHz) E, A, G (100 W)**



Gen, Adv, and Extra licensees may operate on a secondary basis with a maximum ERP of 100 W maximum.

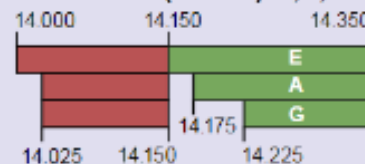
**40 Meters (7 MHz) E,A,G,T,N**



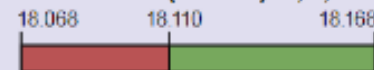
**30 Meters (10.1 MHz) E,A,G**



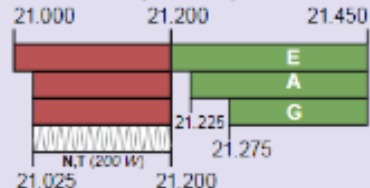
**20 Meters (14 MHz) E,A,G**



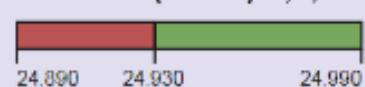
**17 Meters (18 MHz) E,A,G**



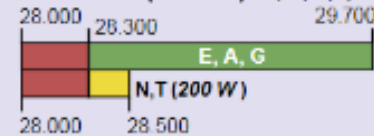
**15 Meters (21 MHz) E,A,G,T,N**



**12 Meters (24 MHz) E,A,G**



**10 Meters (28 MHz) E,A,G,T,N**

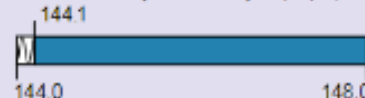


## VHF – Very High Frequency bands

**6 Meters (50 MHz) E,A,G,T**



**2 Meters (144 MHz) E,A,G,T**

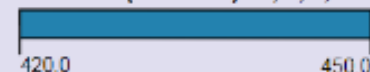


**1.25 Meters (222 MHz) E,A,G,T,N**



## UHF – Ultra High Frequency bands

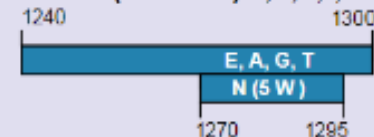
**70 cm (420 MHz) E,A,G,T**



**33 cm (902 MHz) E,A,G,T**



**23 cm (1240 MHz) E,A,G,T,N**



## SHF&EHF – Super and Extremely High Frequency bands

All licensees except Novices are authorized all modes on the following frequencies:

2300-2310 MHz	3300-3500 MHz	10.0-10.5 GHz	47.0-47.2 GHz	122.25-123.0 GHz	241-250 GHz
2390-2450 MHz	5650-5925 MHz	24.0-24.25 GHz	76.0-81.0 GHz	134-141 GHz	All above 275 GHz

See [www.arrl.org/band-plan](http://www.arrl.org/band-plan) for detailed band plans.

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OTAbands rev. 1-22-20

# It's Barbeque Time

**IT'S THAT TIME OF  
YEAR AGAIN**

**Everyone is  
welcome**

## **The RCARC August Meeting/Annual Potluck Barbeque**



Date: Tuesday August 12, 2024

Time: 6:00 PM to 8:00 PM

Location: Christ the King Catholic Church, 690 Cove Drive in the Pavilion behind the church. Cedar City, Utah 84721

Note: **Burgers and Dogs will be provided by the club. Please bring a side dish to share with others.**

**The Church is just South of the Temple**



**Fox Hunting:**

If you would like to give it a try, please join us as members will have equipment available to help you find the hidden transmitter. See you there!

## TOILETS ON THE AIR? GO WITH THE FLOW

Are you sitting down? Well, it's time to lift the lid on the news: Toilets on the Air is coming in August. If you happen to be in the New York City area that month, well, you got to go, you just got to go! The amateur radio contest was begun by Georg DH5GH at the Chaos Communication Congress, a hacker conference in Germany. It is making its debut in the US at the HOPE 16 conference in New York City in August. Because HOPE is a hub for hackers and innovators, contest organizer Todd Mazierski KE2AEQ, thought this venue would be perfect to launch a creative challenge to licensed hams there. Activators select designated restrooms on the campus of St. John's University to make the most CW, voice and digital contacts with others on 2 meters and 70 cm.

Now let's be clear, activators are permitted to sit or stand while they are doing their business while holding their HTs -- but they must be outside the restroom doors -- and a few meters away. They can only go inside the bathroom to, uh, "go" inside the bathroom for the usual reason. Yes, you heard that right: bathroom breaks are OK. Now that's a relief! End

### More Ham Humor



## Fire Information Website

### InciWeb

<http://inciweb.nwcg.gov>

InciWeb is an interagency all-risk incident information management system. The web-based program provides information for wildland fire emergencies and prescribed fires, but can also be used for other natural disasters and emergency incidents such as earthquakes, floods, hurricanes, tornadoes, etc.

The system was developed with two primary missions:

- Provide the public a single source of incident related information; and
- Provide a standardized reporting tool for the Public Affairs community.

Official announcements include evacuations, road closures, news releases, maps, photographs, and basic information and current situation about the incident. End

**Wild Fires - Check out this URL for Utah Wild Fire Information**

<https://utahfireinfo.gov/>





# Notes save Mother and 9-year-old son stranded in remote California wilderness

By Stepheny Price who is a writer for Fox News Digital and Fox Business.

A mother and her young son were rescued after getting lost [in a California forest](#), thanks to quick thinking, a handwritten note and timely action by rescuers.

It happened on Saturday, July 12, when a routine training exercise for the Calaveras County Volunteer Search and Rescue (SAR) Team turned into a real-life rescue mission in the rugged terrain near Spicer Reservoir.

Shortly before 1:30 p.m., Calaveras County Dispatch received a report of a 49-year-old mother and her 9-year-old son who were overdue [from a trip to Camp Wolfeforo](#). The pair had left Sacramento the day before but had since gone silent – no calls, no texts and no check-ins, according to the reporting party.

Concerned for their safety, a deputy was immediately sent to investigate. Fortunately, the Search and Rescue (SAR) team was already training nearby and quickly joined the search.

A location-sharing app provided by the reporting party helped narrow the search zone, officials said. Air support from the California Highway Patrol was also called in to assist.

A breakthrough in the search came from a promising lead – a 911 text from nearby campers who reported seeing a vehicle that matched the missing family's description the day before. With this critical tip, officials said searchers zeroed in on the area.

Then, early in the evening, searchers discovered a handwritten note at a remote intersection. It was from the missing mother, pleading for help.

See note next column.



A mom left a trail of notes to help lead rescuers to her location after getting lost in a California forest with her son. (Calaveras County Sheriff's Office)

The Calaveras County Sheriff's Office shared an image of the note, showing the directions the mother had laid out to help find them.

"HELP. Me and my son are stranded with no service and can't call 911," the note read. "We are ahead, up the road to the right. Please call 911 to get help for us. Thank you!"

Following a series of similar notes left along the route, rescuers tracked the pair to their vehicle, roughly a mile down the road.

However, the remote location and thick forest canopy posed another challenge as cell and radio signals were blocked, "making standard radio or cell communication impossible."

Officials said the rescue team utilized an amateur radio frequency, commonly known as "HAM radio," to establish communication.

Continued next column

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## Notes save Mother and 9-year-old son stranded in remote California wilderness

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After broadcasting "emergency traffic" on the HAM radio, their call was immediately answered by a retired El Dorado County Communications Supervisor who was a HAM Operator monitoring frequencies from his home.

"This HAM operator then contacted the El Dorado 911 center, which provided the information to Calaveras Dispatch, and the SAR command post was notified," officials said.

Rescuers used recovery equipment to free the family's vehicle and safely escorted them back to the command post, where they were reunited with anxious loved ones.

Officials said that the rescue mission revealed just how quickly technology can fail in remote areas.

Authorities later revealed that the mother had been following a GPS route that diverted her onto remote backroads. When the signal dropped, the pair became disoriented deep in the forest.

Despite the dangerous circumstances, officials said the duo made several smart decisions that [contributed to their safe rescue](#). They left notes at intersections, used hazard lights at night, and relied on basic survival skills. Notably, the young boy used a whistle in short bursts to help signal their location, officials said.

Authorities highlighted that their most important move was informing someone of their itinerary and expected return, critical information that helped launch the timely rescue. End

## Utah Midsummer Renaissance Faire. Continued from page 12

Our own club members Fred (KI7TPD), Bonnie (KI7WEX), Steve (KI7YCE) and Penny (KJ7AHL) who are Fred's parents along with Mary Bonnie's sister participated in the event.



The meeting of the minds. L to R, Darlene (N7WWB), Mary, Terry West, Bonnie (KI7WEX) and Penny (KJ7AHL).



Fred (KI7TPD) and Ron (K7HDX) in Conversation.



Steve (KI7YCE) in conversation with Ron (K7HDX) out of picture.  
Photos by Dennis West (W6DLW)



# For Sale

By Aland Done (W7JXI)

Kenwood TH-D7A - in the box, works well, has only about 20 hours of use. S/N104000368

Battery doesn't hold a charge very long.

Third party batteries available online.

Radio does work excellent when plugged in. \$250



Continued next page 21

**For Sale**  
**By Aland Done (W7JXI)**

Continued from page 20

Vintage power supply - built in the 1960's by my father when he was working for KSL Radio as the operator at the Salt Flats transmission station. 12 to 14VDC, continuously variable. Rock solid, clean output. \$200

