

# RAINBOW CANYONS AMATEUR RADIO CLUB NEWSLETTER CEDAR CITY, UTAH



Club Website: [www.rcarc.info](http://www.rcarc.info) Number 5 – Vol. 12 – December 2023

## 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.

## 2023 Club Officer's

### President:

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K17TPD

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### Treasurer

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KG7PBX

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CQ, CQ, Merry Christmas



## Presidents Message

Dear Fellow Amateur Radio Operators,

Hope you had a great November and a wonderful Thanksgiving! Fall is definitely here with colder temperatures and snow over Thanksgiving weekend! Radio bands have been opening up and people around the world are making contacts on 10 meters! I hope you can get out and play on the radio because everyone can get on 10 meters and right now you can talk around the world. We had a great time at the Iron Mission Days Special Event at the Frontier Homestead state park with 247 contacts. Each contact was really earned with conditions not favoring us, but I think we did a great job! So, thank you to those who participated! This was a great opportunity to come out and meet with the public and at the same time make contacts!

This month our club breakfast will be held on December 2<sup>rd</sup> and will be held as a potluck at Linda's (KG7PBX) house so I hope you can make it. We always have a great time at these monthly events!

Our Christmas party will be held at 6:00 PM on our next scheduled meeting day, December 12<sup>th</sup> and we will be giving away a range of Ham Radio prizes! Should be fun! **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

**December 12, 2023**

### **RCARC Club Meeting.**

7:00 pm. Cedar City Senior Center,  
489 E. 200 South. [Club Christmas Party](#)

**January 9, 2024**

### **RCARC Club Meeting.**

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

**February 13, 2024**

### **RCARC Club Meeting.**

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

**March 12, 2024**

### **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.**

We will also have our officer elections (current nominations are for the existing leadership team). The dinner will be a potluck so please bring a dish to share!

Winter Field Day is just around the corner and will be held on January 27-28, 2023. We will be using the N7U callsign and we will be setting up at the Iron County EOC located on Kittyhawk just like last year. For those who are interested in participating please let me know! Be prepared for cold weather!

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)



## **RCARC Club Dues are Due**

**See Page 22**

## **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 December**

**Merry Christmas and Happy and Happy New Year**

Breakfast Net		Friendship Net		
<b>First Place</b>	<b>Second Place</b>	<b>First Place</b>	N7SYI - Sylvia	
K2MFK - Kevin	KZC6ZIM - Johnny	K7NKH - Lee	W0KLH - Kevin	
K7ZI - Dick	KE8OYI - Caleb	K7WEP - Paul	W9YNK - Benjamin	
N7SND - Larry	KK6FLO - Dave	K7ZI - Dick	<b>Second Place</b>	
N7SIY - Silvia	<b>Third Place</b>	K7HDX - Ron	KJ7LTQ - Brant	
	KI7SCX - John	N7WWB - Darlene	KA7J - Lance	
	K7ZZQ - Johnny	KE8OYI - Caleb	<b>Third Place</b>	
	KI7WEX - Bonnie	KG7VEJ - Jack	KI7WEX - Bonnie	
	KI7TPD - Fred	KI7LUM - Bruce	KI7TPD - Fred	
		KI7ZLVC - Tim		

**Rainbow Canyons Amateur Radio Club  
Treasurer Report Nov 14, 2023**

Bank balance Nov 1, 2023	<b>\$1,107.08</b>
Deposits - membership 2024 W0KLH	+ 15.00
Expenses Rocky mountain Power (due 11/15/2023)	- 19.86
 Funds available as of Nov 15, 2023	 <b>\$1,102.22</b>

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

**RCARC Upcoming Events**

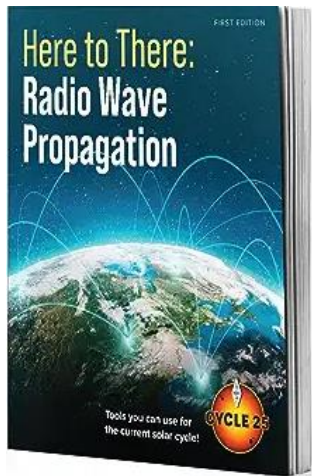
- December 2, 2023 RCARC Breakfast Potluck at Linda's House (See Flyer on page 16).
- December 12, 2023 RCARC Club Meeting Christmas Party. (See Flyer on page 15).
- RCARC EComm. Christmas Dinner at the Heritage Center on Friday December 15.
- Regular Monthly Meeting January 9, 2024.
- Winter Field Day, January 27-28, 2024 at the Iron County EOC.

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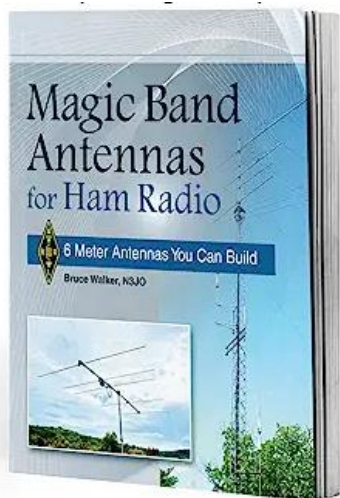
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**RCARC Book Giveaway.**  
Books are donated by  
**Linda Shokrian**  
**(KG7PBX)**

**There will be no book giveaway in December.**  
**Book shown below will be given away at the January 2024 Meeting.**



**The Book below was given away to**  
**Brant Palmer (KJ7LTQ)**  
**at the November Meeting**



**Congratulations**  
**Brant**  
**See pic page 19 lower left corner**

## Contact Us.

### **Mailing Address:**

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### **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**

## Utah VHF Society Information:

For more information on the Utah VHF Society visit their website at:

[www.utahvhfsociety.org](http://www.utahvhfsociety.org)

In addition, visit [www.w7ara.org](http://www.w7ara.org) for the newly added Arizona frequencies.





## Buzz's December Safety Tip(s)



### General Holiday Safety Tips

Watch any holiday movie and you'll know there are plenty of ways something can go wrong this season. But with the Christmas safety tips below, you'll be one step closer to a hijinks-free holiday celebration.

#### 1. Keep pets away from cords and poisonous plants.

Between seasonal houseplants and shiny Christmas lights, the holidays introduce many new things into your home that may be enticing to your pets. Keep your cats, dogs and other animals away from toxic plants like mistletoe, holly berries, poinsettias, amaryllis, lilies, and Christmas cacti, and keep cords or wires out of reach.

#### 2. Get your car serviced before any road trips, and stay safe on the road.

If you have a road trip planned this holiday season, go ahead and schedule an appointment to get your oil changed and any other routine maintenance taken care of [so that your car is in perfect driving condition](#). To stay on top of your [vehicle's health and diagnostics, consider adding CPI Drive](#) to your car for the perfect road trip buddy.

Before you leave, pack a seasonally-appropriate emergency preparedness kit with everything you may need if you break down in cold weather. Additionally, allow plenty of extra time so you don't need to rush, and avoid driving in snow and ice.

**Continued next column**

#### 3. Stay smart and aware as you buy gifts online.

Shop from known, familiar sites as much as you can, provide as little information as possible at check out, only purchase from secure sites, and keep track of what you've ordered, when it ships, and when it should arrive. [Learn more about staying safe online here.](#)

#### 4. Follow the rules for safe food handling.

Food poisoning can quickly ruin a holiday. Whether you're baking holiday treats or cooking dinner on Christmas Eve, be sure to wash your hands frequently, use a meat thermometer to ensure food is cooked through, keep raw meat away from everything else, and keep cold foods refrigerated.

[If you're planning to deep fry a turkey](#), do it outside, away from your home.

### Christmas Tree Safety Tips

According to the National Fire Protection Association, between 2015 and 2019, fire departments across the United States responded to, on average, 160 Christmas-tree related fires per year. Here's what you can do to enjoy your Christmas tree safely this December and keep your home from becoming another statistic.

**Continued on page 8**

# RCARC November Meeting & Presentation Pictures



Members awaiting meeting start.



Fred (KI7TPD) calling meeting to order.



Fred (KI7TPD) leading the Pledge of Allegiance.



Fred (KI7TPD) receiving the Foix Hunt Trophy from Maddie (KK7FLL) who was last year's winner.



Pictured is Gegie Hankins (Terry West's Mother) before the meeting continued, we stopped to celebrate Gegie's 97<sup>th</sup> Birthday. Happy Birthday Gegie.



A great carrot cake

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# RADIO NEWS

H. GERNSBACK—Editor and Publisher  
ROBERT E. LACAULT—Associate Editor

EDITORIAL AND GENERAL OFFICES, 53 PARK PLACE, NEW YORK

Vol. 5

DECEMBER, 1923

No. 6

## Simplifying Radio

By H. GERNSBACK

WHEN we look back 20 or 25 years and contemplate the radio equipment of the vintage of 1900, we smile, or perhaps laugh outright, all according to our individual temperaments. We look on our 1-K.W. thunder factories with their rock-crushing equipment and marvel why there ever was such a display of metal and various sundry materials. But the radio receivers of the year 1900 are the ones that catch most of our attention. In order to hear the long distance call of the thunderous 1-K.W. station located 3 miles and 55 yards to the starboard side of us, we required an outfit with at least 25 different pieces of apparatus, not to speak of batteries, choke coils, metal lined boxes to keep out the waves set up by the decoherer, and a four-wire aerial, several hundred feet long. It took days to adjust such a receiver, and only an expert could handle such a set. There were more nuts and binding posts in the wireless receiving set of 1900 than you can find in a well stocked small radio store today.

Since that day we have improved the ancient outfit somewhat and we pat ourselves on the back and smile contemptuously at Marconi's first endeavors. We look at our present day outfits and say to ourselves that here at last is something worth while.

As a matter of fact, we should creep into a hole and weep, for the improvements which look wonderful to us, since 1900, are still very mediocre. Imagine the smile of the man who takes up this issue of RADIO NEWS 25 years hence. He certainly will have a good laugh at our present day radio atrocities, and he will not, for the life of him, understand why we ever did what we are doing right now.

It is all very well to sit back complacently and say that the millenium in radio has finally arrived, when as a matter of fact, we are perhaps a million years away from it. Just as we have simplified our apparatus and its action during the last 25 years, in this same degree we will simplify all radio apparatus in the future.

We have mentioned editorially before that the days of the huge generator, transformer and tremendous spark gap, that are in our large sending stations, are numbered. We have stated that during the next five years these thunder factories will be scrapped and that the entire plant which takes up acres today will be located in an office building in a room less than 20' square. There will be no noise and you will hear no sound, as all the sending will be done by powerful electronic tubes. Even the amateur 10 years ago had a noise factory all his own. We were using large spark coils or transformers; big spark gaps, either stationary or rotary; a sending inductance, called a helix, 2' high and 1' in diameter, along with many other cumbersome condensers and a host of other paraphernalia. Compare this to the small tube transmitter of today, which does not take up more room in its entirety than the old-fashioned helix. And so it goes.

The public still seems to have the erroneous idea that in order to get its money's worth, it must be handed a big box with at least 10 dials and a few gross of knobs thrown in for good measure.

Our vacuum tubes are still the size of a child's fist when it has already been demonstrated for years that a tube, smaller in diameter than a pencil and 1" high, will do the work just as well.

As a matter of fact, we believe that the vacuum tube, although remarkably good today will eventually be found only in industrial works. But it will have no place in radio reception. Other devices will take the place of the vacuum tube, as the coherer made way for the detector, and as the detector made way for the vacuum tube.

Speaking of vacuum tubes, it may interest many to know that a Holland manufacturer is now making vacuum tubes filled with argon, which, at a pressure of 30 volts, works as well as the pres-

ent tube at 100 volts. Its life is about 1,000 hours without change in its characteristics. One of these used for transmitting does the work of four, with only 200 volts on the plate.

Then we have our good old friends the rheostat and the potentiometer, with which we garnish our present day outfits. You may rest assured that five years from now, rheostats will no longer be known in connection with vacuum tubes. Either the vacuum tubes themselves will have a device to adjust the filament voltage automatically, or all outfits will be provided with automatic regulating ballasts. Some such devices are already making their appearance. It is a nuisance today, and always has been, to adjust the filament voltage by hand. Rheostats in the future will be recognized as a monument to inefficient or incorrectly designed tubes.

Next, we have our good old chum the inductance switch (tapped), a monstrosity of the first caliber. Being such, no self-respecting first-class radio outfit today would be without one or more of these switches. As a matter of fact, the more the better, because each switch adds "value" to the outfit in order to tag on an extra \$10. To be sure, there are several outfits on the market today that get along excellently without the tapped switch, which latter, by the way, acts like a first-class sieve, losing the little energy that comes in over the aerial. A variable condenser used in connection with the inductance (tuning coil) is far better in all respects than taps and a switch. Up-to-date manufacturers are doing this now. A good article on this phase appeared in the last issue of RADIO NEWS.

Most every up-to-date outfit has a number of variocouplers, variometers, and at least a quart of variable condensers, in order to make a respectable appearance. One of these days, and not in the far future either, it will be found that an outfit can get along without all this paraphernalia. It will be found that one, and perhaps two fixed coils are all that are necessary; one condenser knob with perhaps a little gearing, will take care of all the tuning. In other words, a single control outfit, without rheostat, without variocoupler, without variometer, with nothing but a single knob. Such outfits are already on the market today and are welcomed by the public for the reason that one has to be an expert or know something about radio to operate many present day outfits. Your mother, sister, or daughter cannot operate such receivers, and must wait until you come home. Years ago, it took an expert mechanic to drive an auto. It takes an expert today to handle the average radio outfit. Five years hence radio outfits will be simplified to such an extent that everybody can use them, just as anyone can drive a car now.

Then there is our great American nuisance, the loud-talker. To be correct it talks loudly but says nothing. We are still awaiting the loud speaker without a horn. Why the horn was ever thought of is just another of the unsolved radio mysteries. When a human being speaks, he uses no horn. The cricket makes a sound that can be heard for half a mile, the sound coming from a surface less than 1" square; and again there is no horn! The traffic policeman when sounding his whistle does not require a horn in order to project the sound. When the nightingale sings, it may be heard more than a mile away; evidently it can worry along very nicely without a horn.

One of these days someone will sit down and read all the books on acoustics that have ever been printed and after that he will do some thinking of his own and the result will be a loud speaker that speaks loudly and which is smaller than your fist.

That loud speaker, by the way, will be built into the future radio receiving outfit, and why shouldn't it be? The loud speaker today is conceded to be the most important part of a radio outfit. You might as well take the engine of your auto and mount it on a separate truck and lug it around. This would be a good analogy and is just what we are doing in radio today.

## General Holiday Safety Tips

Continued from page 5

### 5. Don't let your live tree dry out and become a fire hazard.

Before you bring your live tree home, have the tree vendor cut off the bottom of the trunk to expose fresh wood so it will absorb water more easily. Once you bring it home, place it in a safe, secure stand so it doesn't fall over, and water the tree daily to make sure there is water in the base at all times. Trees should be kept away from radiators, electric space heaters, fireplaces, and candles.

Also, as fun as it is to get a Christmas tree early to kick off the holiday season, don't get your live tree too soon, or it will be completely dried out by the time Christmas Day rolls around.

You may be wondering how to keep your Christmas tree alive while on vacation. Ultimately, keeping it well-watered is the best thing you can do. Fill your tree stand all the way up with water right before you leave, so that it can stay as hydrated as possible. However, if you're taking a long trip, you may want to take the tree down before you leave to avoid it becoming a fire hazard while you're gone, or ask a neighbor for help.

### 6. Purchase a fire-resistant artificial Christmas tree.

Did you know that some fake Christmas trees can be just as flammable as the real deal? If you opt for an artificial Christmas tree, always choose a UL-certified pre-lit tree, or use UL-certified lights. Like a real-tree, avoid placing your tree near heat sources, and always check the cords for damage or fraying wires.

Continued on next column

### 7. Keep breakable ornaments out of reach.

If you've got sentimental, fragile, or breakable ornaments, hang them high on your tree, out of reach of tiny hands. The same goes for any other breakable Christmas decor. The last thing you need during a fun holiday celebration is cut fingers and shards of glass on the floor. If you have small children, consider purchasing kid-friendly ornaments until they grow old enough to know not to play with or throw glass ornaments. You'll enjoy the reduced stress from worrying about their safety, and they'll love getting to be involved with decorating the tree!

## Christmas Fire Safety Tips

Dry Christmas trees aren't the only cause of fires each December. According to the National Fire Protection Association, electrical distribution or lighting equipment was involved in almost half of home Christmas tree fires. \* Additionally, nearly one-fifth of Christmas tree fires started because a heat source was too close to the tree. Thus, Christmas fire safety is an important part of enjoying the holiday season.

### 8. Make sure your Christmas lights aren't a fire hazard.

Always use indoor lights indoors, and outdoor lights outdoors. Each year when you decorate your home before you hang any lights, be sure to replace any old, broken, or fraying lights.

Additionally, always turn your lights off when you are leaving your house or going to sleep. Using timers or [smart devices to control your lights also makes it easy to turn your lights on and off when needed.](#)

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## General Holiday Safety Tips

Continued from page 8

Also, as tempting as it may be to go full Clark Griswold on your home, be careful not to overload your home's electrical circuit with holiday lights. And on that note, always use a sturdy ladder or stepladder to hang your lights and decorations!

### 9. Use your fireplace wisely.

Don't burn wrapping paper, trees, wreaths or another décor in your fireplace. If you decide to build a wood fire or turn on your gas logs, use a fireplace screen and make sure children are kept a safe distance away at all times.

### 10. Be conscious of candles.

Candles are an easy way to set a festive mood, but it's important to keep safety in mind if you decide to light them. Candles should be kept at least a foot away from anything flammable, and should be in stable holders that won't fall down. Keep kids away from lit candles, and never leave a lit candle unattended.

If you'd like to avoid the dangers of candles altogether, consider purchasing remote-controlled candles with fake flames to create a holiday ambiance without safety concerns.

## Christmas Home Security Tips

Take these Christmas home security tips to heart, you can do your part to keep from being a victim of crime this December.

### 11. Keep your home safe while you travel with a good security system.

When you leave your home, always lock your doors and windows, and [arm your security system](#) to help keep everything safe and secure.

[Smart security systems with professional monitoring services](#), like CPI, can help guard your home against intruders. Between smart locks that can only be used by people you want in your home, motion detectors, cameras, professional monitoring, and even smart lights that keep your home from staying dark while you're gone, CPI Security's products and services work together to [protect your home while you travel for the holidays](#).

### 12. Have a neighbor keep an eye on your house while you're out of town.

[Enlist a trusted neighbor who can monitor your house while you are out of town](#). Ask them check your mail, bring any packages that get delivered inside, and even shovel your sidewalk and drive into your driveway to leave tire tracks if it snows so that your home appears occupied.

### 13. Schedule packages to be delivered when you will be home.

[Don't let Grinchy porch pirates ruin your holiday](#) – have packages delivered when you will be home, or send them somewhere else such as your office or a friend or family member's house instead.

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## General Holiday Safety Tips Continued from page 9

### 14. Don't share holiday plans online.

As excited as you may be to share your holiday fun with your social network, [don't post to social media about when and where you'll be going](#), and wait until you're back home to share photos online.

### 15. Dispose of gift packaging discreetly.

Don't brag to would-be thieves about all the great Christmas gifts you've received. A giant TV box by the curb, for example, is an invitation for thieves to break into your home and take it. When you throw away packaging, break it down and hide it in trash bags so you avoid inadvertently advertising all the new, valuable things in your home.

## Have a Safe & Happy Holiday!

Following these holiday safety tips will help take some of the stress of this time of year off your plate, helping you enjoy the magic of the season. End



## RCARC Winter Field Day Information

This year's RCARC's Winter Field Day Operations will be held at the Iron County Emergency Operations Center (EOC) facility on Kitty Hawk Drive between Bull Dog Road and Airport Road across from the Cedar City Animal Control Office.

Set up will commence at 8 am. On Saturday January 27, 2024 and Winter Field Day will start at 12 pm. and continue for 24 hours until 12 pm. on Sunday January 28, 2024.

Field Day demonstrates ham radio's ability to work reliably under any conditions from almost any location and create an independent communications network. "It's easy for anyone to pick up a computer or smartphone, connect to the Internet and communicate, with no knowledge of how the devices function or connect to each other," said **Sean Kutzko KX9X** of the American Radio Relay League, the National Association for Amateur Radio. "But if there's an interruption of service or you're out of range of a cell tower, you have no way to communicate.

Ham radio functions completely independent of the Internet or cell phone infrastructure, can interface with tablets or smartphones, and can be set up almost anywhere in minutes. That's the beauty of Amateur Radio during a communications outage."

"Hams can literally throw a wire in a tree for an antenna, connect it to a battery-powered transmitter and communicate around the world," Kutzko added.



# 2023 Holiday Craft Fair



Cedar City Visitors Center  
581 Main St.

Friday & Saturday

December 1<sup>st</sup> and 2<sup>nd</sup>



10:00 am ~ 5:00 pm



Handmade Gifts by Local Crafters

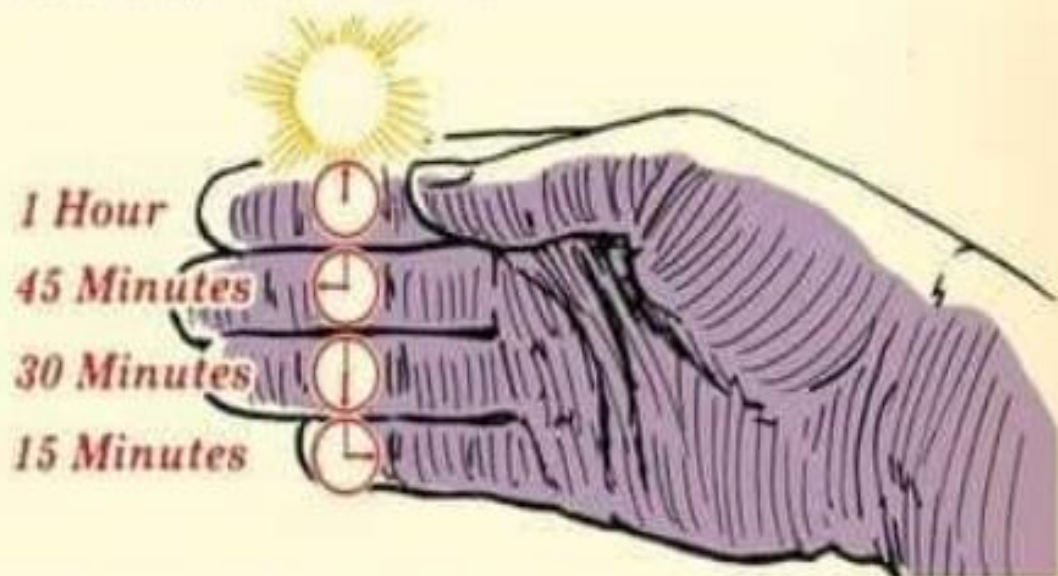


# HOW TO MEASURE REMAINING DAYLIGHT WITH YOUR HAND

MANLINESS  
W



**1: FACE** the sun and extend your arm in front of you so that your palm faces toward you and fingers are parallel to horizon.



**2: POSITION** your index finger so that it rests just below the sun and your pinky parallel to the edge of the horizon.

**3: COUNT** the number of fingers it takes to reach from the sun to the horizon. Each ascending finger represents 15 minutes until the sun sets.

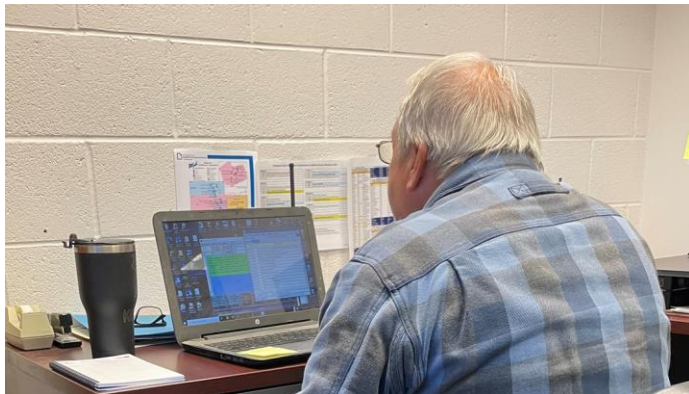


## Iron County Office of Emergency Management (OEM) E-Comm. Unit participates in Southwest Utah Healthcare Coalition Quarterly Exercise.

The Southwest Utah Healthcare Coalition Exercise is a communications exercise for Emergency Support Function 8, Public Health & Medical Services, and the Southwest Utah Healthcare Coalition. The purpose of this drill is to practice and validate emergency communication capabilities among healthcare facilities, emergency management, and other key partners in the Southwest Region of Utah.

On Thursday November 9, 2023 E-Comm. members staffed the Radio Communication Room at Cedar City Hospital and SWUPH Facility to assist in the exercise.

Pictured below is Jack Colter (KG7VEJ), Public Health Department and Brad Biedermann, Cedar City Hospital (WA7HHE) who was monitoring the digital portion of the exercise and Dennis West (W6DLW) not pictured who was monitoring the VHF Radio Communications. See pics below.



Jack (KG7VEJ) above and Brad (WA7HHE).

## RCARC November Breakfast Pictures



Members enjoying Breakfast



Just a different View



Larry (N7SND) and Kevin (K2MKF) in conversation.

## ARLB031 ARRL Hails FCC Action to Remove Symbol Rate Restrictions

The FCC Commissioners unanimously voted to amend the Amateur Radio Service rules to replace the baud rate limit on the Amateur HF bands with a 2.8 kHz bandwidth limit to permit greater flexibility in data communications.

"The Federal Communications Commission today adopted new rules to incentivize innovation and experimentation in the amateur radio bands by removing outdated restrictions and providing licensees with the flexibility to use modern digital emissions," announced FCC.

The announcement can be found online at, <https://docs.fcc.gov/public/attachments/DOC-398409A1.pdf> .

The new rules can be found online at, <https://docs.fcc.gov/public/attachments/FCC-23-93A1.pdf> .

"Specifically, we remove limitations on the symbol rate (also known as baud rate) -- the rate at which the carrier waveform amplitude, frequency, and/or phase is varied to transmit information -- applicable to data emissions in certain amateur bands," concluded the FCC Report and Order and Further Notice of Proposed Rulemaking, adopted November 13, 2023. "The amateur radio community can play a vital role in emergency response communications but is often unnecessarily hindered by the baud rate limitations in the rules."

Consistent with ARRL's request, the amended rules will replace the current HF restrictions with a 2.8 kHz bandwidth limit.

**Continued next column**

"We agree with ARRL that a 2.8 kilohertz bandwidth limitation will allow for additional emissions currently prohibited under the baud rate limitations while providing sufficient protections in the shared RTTY/data sub bands," concluded the FCC Report and Order.

ARRL President Rick Roderick, K5UR, hailed the FCC's action to remove the symbol rate restrictions. Roderick stated that "this action will measurably facilitate the public service communications that amateurs step up to provide, especially at times of natural disasters and other emergencies such as during the hurricane season. Digital technology continues to evolve, and removing the outmoded data restrictions restores the incentive for radio amateurs to continue to experiment and develop more spectrum-efficient protocols and methods while the 2.8 kHz bandwidth limit will help protect the shared nature of our bands. We thank Congresswoman [Debbie] Lesko (AZ-08) for her efforts on behalf of all Amateurs to get these restrictions removed."

In a Further Notice of Proposed Rulemaking (FNPRM), the FCC proposes to eliminate similar restrictions where they apply in other bands.

"We propose to remove the baud rate limitation in the 2200-meter band and 630-meter band - and in the very high frequency (VHF) bands and the ultra-high frequency (UHF) bands.

"Additionally, we seek comment on the appropriate bandwidth limitation for the 2200-meter band, the 630-meter band, and the VHF/UHF bands."

**Continued on page 17**





RCARC Christmas Party Potluck Dinner  
December 12, 2023 at 6:00 PM.

Cedar City, Senior Center at 489 East, 200  
South, Cedar City.  
Northside of Building. Lower Level.

Club Member Ken Richter (KR7KR) will  
provide 2 Smoked Turkeys, 2 Smoked  
Hams and yes Smoked Cheese.

There will be prize giveaways, such as an  
ICOMM 2730 VHF/UHF Mobile Radio  
along with other items.

Please bring a dish to share with other club  
members along with their families.

Note: if you bring a dish, please bring the  
necessary utensils to serve it.





## RCARC Christmas Breakfast Potluck

**Saturday, December 2, 2023 At 9:00 AM.  
Linda Shokrian' Residence. (KG7PBX)  
2438 W. Carmel Canyon Drive  
Cedar City, Utah.**

**Off Cove Drive Just South of the  
Temple.**

Please come join fellow RCARC Club Members at our December 2<sup>nd</sup> Christmas Breakfast Potluck. Bring a breakfast dish to share with other attendees.  
**Note: There will not be a breakfast at the Golden Corral in December.**





## ARLB031 ARRL Hails FCC Action to Remove Symbol Rate Restrictions Continued from page 14.

ARRL has previously expressed its support for eliminating the symbol rate limits in favor of bandwidth limits where they apply on the VHF and UHF bands but suggested that the bandwidth limits themselves be reviewed in light of today's technology and tomorrow's possibilities. Similarly, when eliminating the baud limits on the 2200 and 630-meter bands, consideration should be given to what, if any, bandwidth limits are appropriate.

The FCC will announce a period for public comment on the additional proposed changes based upon publication of the FNPRM in the Federal Register. End.



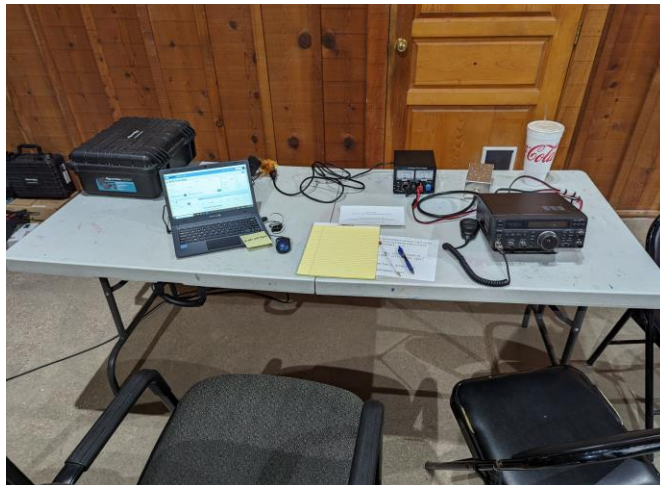
## Iron Mission Days

RCARC and Frontier Homestead State Park & Museum joined forces to celebrate "Iron Mission Days" on November 10 & 11, 2023. **COMMEMORATING** the **172nd anniversary of the first Iron Works in the Rocky Mountains.**

A number of RCARC operators staffed the Special Event Station (N7U) set up in the South end of the main building and worked both 20 & 40-meter voice and FT8 on several bands over the two-day period making around 270 to 300 contacts. In addition, Parks on The Air (POTA) was activated and the park number was provided for those contacts that wished to have it. Contacts were also provided with the RCARC website information to access directions on how to receive a contact certificate.

A special thanks to Dick Parker (K7ZI) who made two-day event possible and Russ Chaffee (N7BO) for making sure the contact requests were fulfilled.

Frontier Homestead State Park & Museum, provided hands-on activities designed to honor the spirit of our community and those that created opportunities for our city's growth. **See Pic's below:**



20 Meter Voice set up and ready for use.



40 Meter Voice Set up and ready for use.



Ron (K7HDX) on 20 Meters and Brody in red shirt (K7VXV) on 40 Meters.

**Continued on page 20**



# Christmas Word Search

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

CHRISTMAS  
 HOLLY  
 ORNAMENT  
 MISTLETOE  
 GREEN  
 RED  
 SILVER  
 BELLS  
 JINGLE  
 HOHOHO  
 STAR  
 SANTA  
 HOLIDAY  
 STOCKING  
 JOY  
 MERRY  
 CARD  
 PRESENT  
 BOW  
 SNOWFLAKE  
 TREE  
 GINGERBREAD  
 WREATH  
 SNOWMAN  
 CANDLE



## RCARC 2024 Board Member Nominees

At the November 2023 RCARC General Membership Meeting the following Members were nominated for the 2024 Club Board Officers:

Position	Name	Call Sign
President	Fred Govedich	KI7TPD
Vice President	Ron Shelley	K7HDX
Secretary	Bonnie Bain	KI7WEZ
Treasurer	Linda Shokrian	KG7PBX
Newsletter Editor/Historian	Dennis L. West	W6DLW

Nominations for RCARC Board positions will remain open until December 12, 2023 at which time elections will be held. If you or someone you know would like to be nominated, please let one of the current Board members know.

# RCARC November Meeting & Presentation Pictures

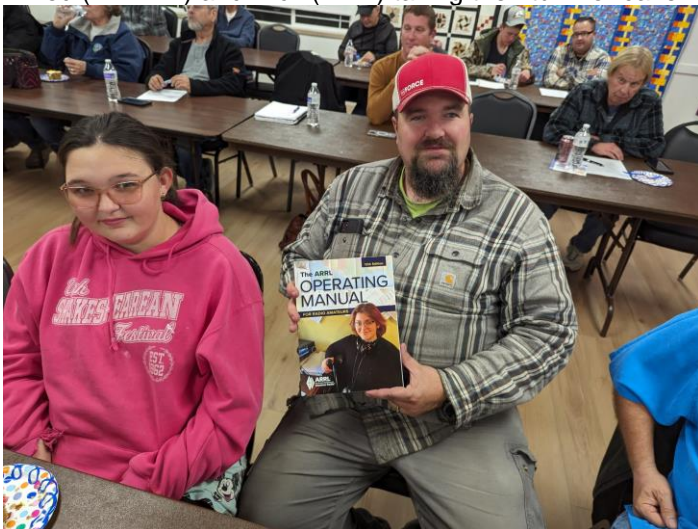
Continued from page 6



Ron (K7HDX) and Terry West selecting their piece of cake.



Fred (K17TPD) and Dick (K7ZI) taking their turn for cake.



Brant (KJ7LTQ) November Book Winner and Maddie (KK7FLL). **Continued next column**



Rachel Campbell (KJ7CMI) update the attendees on Ham Con Zion coming to St. George next July. More info see [hamconzion.com](http://hamconzion.com).



Dick (K7ZI) presenting an after-action update on Iron Mission Days.

## Presentation

**Mel Parks (N7MP) president of the Utah VHF Society presented an in-depth overview of the past, present and future of the for the Intermountain Intertie Radio System.**



Mel (N7MP) introducing himself and starting the overview. **Continued on page 21**



# Iron Mission Days

Continued from page 17



Linda (KG7PBX) and George (AL7BX) working FT8 with Bonnie (KI7WEX) in blue jacket looking on.



Dennis (W6DLW) working the 20-meter voice station.



Fed (KI7TPD), Ron (K7HDX) and Brody (K7VXV) at the 40 Meter Voice Station. Bonnie, George and Linda in background.



Items from the past outside the museum



Antenna set up outside.

Continued next column



# RCARC November Meeting & Presentation Pictures

Continued from page 19



Mel (N7MP) updating the group on the addition of the more repeaters connected to the Intertie System in Arizona. For additional information on the Utah VHF Society visit <https://utahvhfs.org> End.

## SKYWARN Recognition Day Is Ready to Go

**The 2023 SKYWARN™ Recognition Day (SRD) is December 2 from 0000z to 2400z.**



The event honors all SKYWARN storm spotters and amateur radio operators for their contributions to the National Weather Service (NWS) during severe weather. Amateur radio operators also provide vital communication to the NWS and emergency management when normal communications fail.

Continued next column

The [National Oceanic and Atmospheric Administration \(NOAA\)](https://www.noaa.gov/) website is now updated with the SKYWARN registration form, mapping form, and rules and information you'll need to check in for this year's event.

It's important to review the following event resources on the NOAA website:

- Operating procedures
- Participant registration lists
- SRD 2023 contact log sheet
- SRD 2023 NWS office contact log sheet
- SRD 2023 NWS operational details
- Social media planning document

SRD was developed in 1999 by the NWS and ARRL. Amateur stations exchange contact information with as many NWS stations as possible on 80, 40, 20, 15, 10, and 6 meters, plus the 2-meter and 70-centimeter bands. Contacts are also permitted using repeaters. Non-amateur radio spotters can exchange information with NWS offices using social media.

To learn how to become a trained NOAA storm spotter visit [Spotter Training \(weather.gov\)](https://www.weather.gov/spotter-training).

In 2022, more than 5,000 spotters participated in SKYWARN Recognition Day.





# Reminder RCARC Dues are coming Due

**Hello everyone, Buzz here with a reminder that the club dues are coming due at the end of this month**

**For information in regards to RCARC dues contact Linda Shokrian (KG7PBX) at (435-867-5914 or fill out and submit the dues form.**

## RCARC CLUB DUES ARE NOW DUE

### Rainbow Canyons Amateur Radio Club (RCARC)

Please fill out the below form with the applicable information. Check the individual or family membership. If family members are hams, please add their name and call signs in the space provided.

Name		
Call Sign		
Address		
City, Street and Zip Code.		
Phone		
E-mail		
Dues	\$ 15.00 Individual	\$ 20.00 Family
Family	Name: Name: Name: Name:	Call Sign: Call Sign: Call Sign: Call Sign:

**Please submit payment to:**

**Linda Shokrian (KG7PBX) at 2438 W. Carmel Canyon Drive. Cedar City, Utah 84720.**

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





**Hello everyone, Buzz here with a reminder that RCARC members will be voting for the coming year's 2024 club officers at the December 12, 2023 meeting.**

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

**See the position nominees running for office on page 18. Please attend this month's meeting and vote for the person of your choice.**



Created to be a jam-packed, two-day, amateur radio convention and expo, HamCon: Zion will also be the site of the 2024 ARRL Rocky Mountain Division Convention and will offer ham radio related activities including presentations, forums, workshops, demonstrations, and special events. A vendor expo hall and an indoor swap meet are planned, as well as, a first-night happy hour meet-and-great and closing night banquet dinner with a unique twist. Join us as we build THE premier ham radio show for the West.

Nestled against the striking backdrop of Utah's red rock landscapes, the 2024 ARRL Rocky Mountain Division Convention will serve as a vibrant hub for radio enthusiasts from all walks of life.

**Continued on page 24**

## Utah VHF Society

If you wish to renew or join follow the below described methods or go to:

[http://utahvhfs.org/uvhfs\\_join\\_renew.html](http://utahvhfs.org/uvhfs_join_renew.html)  
and follow the instruction there.

If you wish to mail a check, dues may be sent to:

Utah VHF Society  
P.O. Box 482  
Bountiful, UT 84011-0482

The PayPal account address for the Utah VHF Society is:

[paypal@utahvhfs.org](mailto:paypal@utahvhfs.org)

- **IMPORTANT:** Please note that the above email address is pronounced "Pay Pal at Utah Vee Aiche Eff Ess dot Org"
- **PLEASE** check the spelling of the email address to which you are sending your payment and make sure that it is correct and has the word "UTAH" in it - and then check again before you send your payment!

**Please note that this is not a link, but the address to which you should send your payment after you log into PayPal. At the moment, we don't have a "shopping cart" set up for PayPal - sorry.**

**If you have a PayPal account, follow these easy steps:**

Log into your PayPal account

1. Click on the **"Send Money"** tab
2. Where it says **"To"**, enter the Utah VHF Society's PayPal address: [paypal@utahvhfs.org](mailto:paypal@utahvhfs.org)

Under **"Amount"** enter the number based on the number of years' membership you wish. *Please enter the amount for at least two years to help minimize the amount of PayPal fees.*

**Continued on Page 24**



3. Select "**Purchase**" and select either "**Goods**" or "**Services**". *Please do not select anything under the "Personal" tab.*
4. Hit the "**Continue**" button. This will take you to a new screen.
5. Select your method of payment and hit the "**Send Money**" button
6. **Thank you for your support!**



Continued from Page 23

If you *don't* have PayPal, don't worry - you can still pay by check/mail to the address above, or in person at the next swap meet.

**When you pay via PayPal, please include the following:**

- Under "**Subject**" please put "Utah VHF Society Dues for <your name>" - remembering to put your name in there.
- Under "**Message**" please include:
  - **Your name, address and phone number.** Also note if you do **NOT** want your name, address and/or phone number to appear in the Utah VHF Society booklet.
  - **Your callsign** - if you have one.
  - Whether or not you would like to be included on the net roster. If you don't say "yes" we'll assume that you don't check in on that net regularly.
  - Indicate whether or not you are a member of ARRL.

The Utah VHF Society is a non-profit (IRS501c3) organization founded in 1968 to promote the installation and use of VHF amateur repeaters throughout Utah. The Society also provides financial support for aligned repeaters and serves as frequency coordinator for the state. End.

It's a unique opportunity to connect with fellow enthusiasts, learn from experts in the field, and explore the latest advancements in amateur radio technology and practices.

Our carefully curated program boasts an array of captivating workshops, thought-provoking presentations, hands-on demonstrations, and networking opportunities that will help you enhance your skills, broaden your knowledge, and forge meaningful connections within the amateur radio community. The ARRL Rocky Mountain Division Convention 2024 promises an exciting weekend of discovery and growth. Get ready to embark on an unforgettable radio adventure!

**Dates:**

**Friday & Saturday, July 12 & 13, 2024**

**General Admission Times:**

**9:00AM - \*5:00PM Daily**

**\*Evening Special Events Scheduled after 5:00PM**

**Location:**

**The Dixie Convention Center  
1835 Convention Center Drive  
St. George, UT 84790**

**Tickets:**

***Purchased on-line or at the door day of show. (Coming Soon).***



# Santa Net 2023

Santa Net is back on 3.916 MHz for the 18th year! Starting Friday, November 24th, good girls and boys can talk to Santa Claus, via amateur radio, nightly starting at 7:05 PM (Central). The Santa Net will run every night through Christmas Eve, December 24, 2023.

Pete Thomson (KE5GGY), of the 3916 Nets, commented on The Santa Net. He said, "What started 18 years ago as a small gathering on Christmas eve has really grown over the years. This year we expect to connect around 1,000 kids with Santa."

Youngsters can talk to "Santa at The North Pole" via strategically placed operators (Santa Net Relay Stations) who relay the voice of Santa. Thomson said the dedication of 3916 net members is the reason for the net's longevity. He said, "Santa Net is only possible because of the net members who volunteer their time and talents as relay stations and in other support roles. Each year our volunteers tell us that Santa Net was a highlight of their Holiday Season."

In addition to connecting kids with Santa, Thomson said that Santa Net also brings young people into amateur radio. He added, "Santa Net is often the first time many of these kids experience the magic of amateur radio. Every year we hear from parents and sometimes even the kids who go onto get their amateur license after taking part in Santa Net."

Prior to each night's Santa Net, pre-net check-ins can be made at [www.cqsanta.com](http://www.cqsanta.com) Third party rules and regulations apply.

The Santa Net is presented by the 3916 Nets. The Rag Chew Crew, The Tailgaters, 3916 Trivia and The Freewheelers are all amateur radio nets that meet on 3.916 MHz nightly. For more information on The 3916 Nets, go to <http://www.3916nets.com> For more information on The Santa Net go to [www.cqsanta.com](http://www.cqsanta.com) or email KE5GGY at Gmail dot com.

