

# RAINBOW CANYONS AMATEUR RADIO CLUB NEWSLETTER CEDAR CITY, UTAH



Club Website: [www.rcarc.info](http://www.rcarc.info) Number 5 – Vol. 10 – October 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

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CQ, CQ, Happy Halloween



## Presidents Message

### Dear Fellow Amateur Radio Operators,

Fall is here with cooler temperatures! Get out and play on the radio before the first snows hit. The Cedar City ½ marathon was a great success! The organizers have really been happy to have our help. This was a good year and everything seemed to go very well! Thank you and keep up the good work everyone who volunteers for these events! Our September presentation from the Iron County Search and Rescue was great and I can see many ways where we can work together. We are very lucky to have such a well-organized group.

For October we will have a presentation on what to do during an active shooter event (something I hope we never have to face) for our monthly meeting.

We have a fox hunt scheduled for the end of the month (Oct. 21) We also have Iron Mission Days at the Frontier Homestead State Park 1n November next month.

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

**October 10, 2023**

### **RCARC Club Meeting.**

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

**November 14, 2023**

### **RCARC Club Meeting.**

7:00 pm. Cedar City Senior Center,  
489 E. 200 South. [Mel Parks  
\(NM7P\) will discuss the VHF  
Societies Intertie Radio System.](#)

**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](#)

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

This is a great opportunity to come out and meet with the public and at the same time make contacts around the country and even the world. We can pair Techs up with Generals and Extra class HAMS so that you can try out the HF radio bands. All participants will also receive a certificate for taking part in this event.

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 (K17TPD)

## **Notice**

Come meet Mel Parks (NM7P),  
President of the Utah VHF  
Society.

**Mel will be attending our  
November 14, 2023 RCARC  
Membership Meeting.**

**Mel will discuss and update our  
members on the VHF Society  
Intertie Radio System.**

## **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 October**

# **Happy Halloween**

Breakfast Net		Friendship Net		
First Place	Second Place	First Place	Second Place	Third Place
K2MFK - Kevin	KG7PBX - Linda	K7NKH - Lee	K7HDX - Ron	W6DLW - Dennis
K7ZI - Dick	KK6FLO - Dave	K7WEP - Paul	N7WWB - Darlene	
KC6WFI - Tony	<b>Third Place</b>	K7ZI - Dick	KI7LUM - Bruce	
KZC6ZIM - Johnny	KK7CTI - Shanda	KE8OYI - Caleb	N7SYI - Sylvia	
N7SND - Larry		W9YNK - Benjamin	WA7GVL - Paul	
N7SIY - Silvia		KI7LUM - Bruce	KA7J - Lance	
KI7WEX - Bonnie		KI7WEX - Bonnie		
KI7TPD - Fred		KI7TPD - Fred		

Rainbow Canyons Amateur Radio Club  
Treasurer Report Sept 12, 2023

Bank balance Aug 31, 2023	<b>\$1,147.94</b>
Deposits - memberships KG7HZZ	+ 15.00
Expenses Ck # 128 - BBQ exp - Propane	- 16.06
Balance as of Sept 12, 2023	<b>\$1,146.88</b>
Sept Expenses Rocky mountain Power (due 9/15/2023)	- 18.85
Funds available as of Sept 15, 2023	<b>\$1,128.03</b>

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

### RCARC Upcoming Events

- Active Shooter Presentation-October 10, 2023 at the RCARC monthly Club Meeting at 7:00 PM.
- Fox Hunt in October 21, 2023. More information to follow.
- Mel Parks (NM7P) VHF Society President will attend our November 14, 2023 RCARC Membership Meeting to update our club on the VHF Societies Intertie System.
- Homestead State Park, Iron Mission Days coming in November. More to follow.
- RCARC Club Christmas Party – December 12, 2023 at the RCARC monthly Club Meeting.

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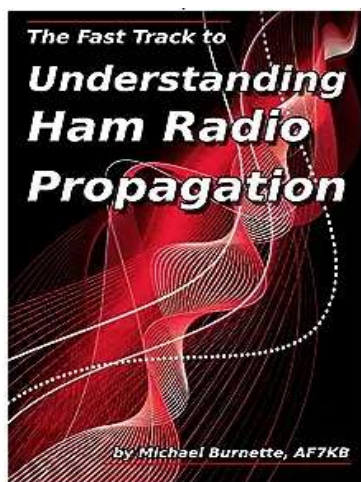
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**RCARC Book Giveaway.**  
Books are donated by  
**Linda Shokrian**  
**(KG7PBX)**

Shown below is the  
book that will be given  
away at the **October 10**  
**2023 meeting.**



The Book below was  
given away to  
**Bonnie Bain (KI7WEX)**  
at the **September 12,**  
**2023 meeting**



**Congratulations**  
**Bonnie**  
**See Pic on page 13**

## Contact Us.

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### 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**

## Hello Everyone

Last month was preparedness month. However, I just received a great resource page that I thought you might appreciate.

This Preparedness Guide has a lot of information about helping older adults.

Please access the URL below.

[https://www.ready.gov/sites/default/files/2023-09/ready-gov\\_disaster-preparedness-guide-for-older-adults.pdf](https://www.ready.gov/sites/default/files/2023-09/ready-gov_disaster-preparedness-guide-for-older-adults.pdf)



## Buzz's October Safety Tip(s)



The safety reminders communicated in the work place can be easily translated to fire safety in the home. Establish a family emergency action plan, discuss escape routes with family members, and locate fire extinguishers in your home.

Additionally, conduct a mock fire drill with your family members to ensure you and your loved ones know how to get out safely. During this drill, outline meeting places that are at a safe distance from the home. Designate a neighbor to contact for help in the event of an emergency. Simple exercises such as the aforementioned could mean the difference maker in your family making it out alive in the event of a fire in your home.

Below are key components to ensuring your workplace and home are fireproof:

Each year, the National Fire Protection Association (NFPA) celebrates National Fire Safety Month in October with Oct. 7<sup>th</sup>-13<sup>th</sup> being national fire prevention week and Oct. 13<sup>th</sup> being National Home Fire Drill Day. According to the Bureau of Labor Statistics, in 2016, there were 88 occupational fatalities as a result of workplace fires or explosions. This is down from 2015, in which there were 121. While the statistics show that the number of fatalities due to fires or explosions in the workplace is on a downward slope, any number other than 0 is unacceptable and demands the attention from management, safety professionals and employees in every company. Not only do fires present a severe life safety hazard, they also can be detrimental to business success due to the possible destruction of business equipment and facilities. This campaign serves as a reminder to us all of the importance of fire safety awareness in both the workplace and our home lives.

Fire safety awareness in the workplace should be second nature and should be translated into our personal lives to keep our loved ones safe in the event of a fire as well. Take time this month to have a fire safety talk with your department at work. Review your emergency action plan, communicate supervisory roles, and walk evacuation routes with your team. In times of crisis, it is of human nature to rely on memory created through practice. October is the perfect time to conduct a fire drill before a real-life event occurs. Ensure nobody is left behind and all are in tune with their life safety route!

1. **Eliminate Clutter** – Exercise good housekeeping. Clutter can easily become a fuel source in the event of a fire, allowing a fire to spread quickly. Furthermore, clutter can restrict access to emergency equipment and exit routes.
2. **Designate Smoking Areas** – Permit smoking only in designated smoking areas and provides means for extinguishing smoking materials safely.
3. **Fire Extinguishers** – Maintain the appropriate type and number of fire extinguishers. Conduct monthly and annual extinguisher inspections to ensure they are in good, working condition. Provide training for employees on the correct use of fire extinguishers.

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**Continued next column**

# Active Shooter Presentation

## What is an Active Shooter?

An active shooter is an individual engaged in attempting to kill people in a confined space or populated area. Active shooters typically use firearms and have no pattern to their selection of victims.



## About the Presenter

### Scott McIntyre

Scott is a retired Los Angeles Police Officer, who completed his career as a Detective and Training Officer. Scott has provided "Surviving very bad things" training all over Southern California. His training includes but is not limited to: Pre-Incident Indicators and Advanced Situational Awareness, LA PD Run Hide Fight Instructor, Bomb Squad IED Recognition, FBI Intelligence Training, FBI Hostage and Crisis Negotiation Training and has worked with the Homeland Security Cyber Working Group in Los Angeles.

Date: Tuesday, October 10, 2023

Time: 7:00 PM.

Location: Cedar City, Senior Center, at 489 E.  
200 S. Rear of Building, Lower Level.

## ACTIVE SHOOTER RESPONSE GUIDE

### **RUN** (If you can)

- Get out if you can, even if others insist on staying
- Leave belongings behind
- Your life is more precious than "things"
- Once out, call 9-1-1



### **HIDE** (If you need)

- If you can't get out, find a place to hide
- Barricade or lock doors
- Hide behind large objects
- Turn out lights and silence your phone



### **FIGHT** (If you must)

- Attempt to incapacitate the shooter
- Act with aggression
- Improvise weapons
- Commit to your actions



911 WHEN IT'S SAFE TO DO SO

The University of Texas at Austin  
Emergency Management



The University of Texas at Austin  
Police Department



# RADIO NEWS

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

EDITORIAL AND GENERAL OFFICES, 33 PARK PLACE, NEW YORK

Vol. 5

OCTOBER, 1923

No. 4

## Needs Of the Radio Industry

**T**HERE are a number of things in the radio industry which are at the present time very much mismanaged and which in the end act to the detriment of the entire art. Certain forces which do not show at all the old established American spirit have made themselves felt during the last year and it is of these that the writer wishes to speak.

At the present time the industry in many spots has sunk to the level of a "catch-as-catch-can" attitude. For example: A certain manufacturer who for eight or ten years has manufactured and gradually evolved a fine radio head set, suddenly finds that his product is copied by about a dozen imitators. The new-comers who do not know very much about the business, took the old established product—on which there are no patents—and copied it from the diaphragm down to the last nut. To be sure, after they got through with the copy it was not at all the same article as manufactured by the experienced manufacturer, for as everyone knows, there are tricks in all trades. Making a telephone head set is about one of the most difficult things that can be copied by an inexperienced manufacturer.

The same method of procedure has been followed with almost every radio instrument: rheostats, variocouplers, loud speakers, vacuum tubes and a host of others. In this the new-comers are actually being encouraged by the dealers and jobbers of radio materials. Here is the reason: The writer, not very long ago, happened to be in the main office of a well-known radio chain corporation which operates a number of stores throughout the country. He was speaking to the proprietor who is also the moving spirit. During the conversation a young inventor strolled into the office and pulled out a new sort of socket that looked extremely good and certainly was an improvement over the present sockets. It had no binding posts at all, but had something that was much better. It took up at least 25 per cent less room than the ordinary socket, and it was well made. The proprietor of the chain stores looked it over quizzically and praised it sky high. Very much encouraged, the inventor of the socket eagerly asked if he could get an order. The proprietor laughed and said, "Why should I give you an order and make trouble for myself? You have a fine article, but I cannot afford to 'buck' the conventional sockets. This socket would no doubt sell lower than the ones we carry now. This means more sales to be made, less profit to us and more work. Also, every time we would try to sell your socket it would mean an explanation by our salesmen. We are not in the business to make explanations—we want to sell goods in the minimum of time. The more explanations we have to make the less time we have to sell goods."

The inventor listened to all this and became much crestfallen and finally ventured to ask what the solution was. The chain-store operator told him that if he would advertise the article and create a demand for it then there would be no trouble about selling his product, but that he was not in the business as pioneer for unknown manufacturers.

And so it goes. The above should be an object lesson to all would be inventors and designers of radio material. If they are not prepared to spend some money in introducing and popularizing their products, nine times out of ten, the proposition will not go over. For that reason most inventors become discouraged and simply copy everything in sight, thereby following the un-American path and at the same time the path of least resistance.

If an example of the socket instance is needed, we might cite the case of a famous loud talker. For several years it would not sell at all. It was a high-grade, high-priced instrument and there was but little demand for it. The manufacturers had an excellent

product—of this they were convinced. Finally, after interesting capital, they started an advertising campaign in all the national magazines and many of the newspapers throughout the country. They kept this up and are still at it now in an ever increasing way. The product today is famous. Every ten year old child knows it by name and there is hardly a dealer in the country who can afford to keep it off his shelves. Here is an article that had merit in the first place and that was built up and put over in a big way despite early handicaps.

There are other types of manufacturers who become convinced, to their own satisfaction, that their new radio apparatus is a world beater. Without thought they rush into the manufacture of such an article, tooling up for it at a great expense and ordering thousands and tens of thousands of screw machine pieces, stampings, windings and what not. The last thought in their minds is: Will the thing sell? After the first few thousands have been turned out and orders perhaps secured, it is found that the article, for some reason or other, does not take with the public. Whereupon the manufacturer closes up shop. This happened in quite a good many instances. It shows how not to do it.

The right procedure is to make a model and take it around to one or two dozen dealers. *No time and money should be spared to make this model look like the ultimate article.* Write down carefully the answers and the impressions of the dealers. Then in addition to this, visit personally twelve or more radio amateurs, by which is meant those who really understand radio and are not merely broadcast fans who do not know much about the art. Write down their answers and impressions. If more than half of each group, dealers and amateurs, condemn the apparatus or instrument, or are lukewarm, it is a safe bet that it should be left alone. Its success will not be assured. If, however, the consensus of opinion is that the article is a good one, then there should not be any hesitancy in going ahead. It is better to be sure than to be sorry later.

It is our recommendation that in spite of the instance of the chain-store operator cited above, we should leave the beaten track. There is room for many improvements in much of our radio material today. Just to mention a few: Most of our instruments are vastly too large. Take for instance our variocouplers and variometers. There is no reason at all why they should be so big and clumsy. Our present mesh plate condensers are a monstrosity from an electrical and radio standpoint. They take up too much room and accumulate dust between the plates which decreases the efficiency; they have sharp edges and sharp corners from which the radio energy leaks like water through a sieve. We venture to predict that within five years such condensers will be found only in museums.

Our present telephone receivers are anachronisms of a bygone age. These are not radio instruments at all, having never been designed as such. The Germans are fast getting the better of us in telephone receivers and soon their competition will become serious if we don't watch out. They already have on the market head sets that weigh less than 1-6 of ours, some of them small enough to actually fit the ear opening. The English are also making one designed upon sound radio principles, one-fourth of the thickness of our present-day receivers and built along strict radio lines.

We are still waiting for the single control, single dial radio outfit that the layman can really operate without being a radio expert.

Someone will make some of these changes and if he does so in the right way, he will make a fortune.

Get off the beaten track!

H. GERNSBACK.

# Cedar City Half Marathon



On September 9, 2023 Rainbow Canyons Amateur Radio Club (RCARC) members were in place by 6:00 am at their assigned locations along the Marathon course to support the over 600 runners participating in this year's Cedar City Half Marathon.

The Cedar City Half Marathon is a perfect high-altitude trainer for those preparing for full marathons, including the Saint George Marathon which is held only a few weeks later.

This 13.1-mile closed-canyon course is one of the nation's fastest courses. Runners descend from 8,408 feet in elevation to 5,600 feet at the finish line.

RCARC members gather information for Race Management in regards to runners that pass their stations. This information is then passed on to Race Management. Members also assist with emergency communications if needed, logistical needs of the Aid Stations in getting additional supplies, water and cups if they run low. **See Pic's below:**



Runners getting ready at the Start line.

Continued next column



Fred (K17TPD) talking with Race Control. Race about to start.



Race is underway.



Fred (K17TPD) monitoring the race start.

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# RCARC September Club Breakfast Pic's



Club members enjoying breakfast



Brody (K7VXV) and daughter Rachael



Left - Bruce (KI7LUM) and his wife. Right – George (AL7BX) and Linda (KG7PBX)



L - Tammy (KI7LVB) C – Son R – Tim (KI7LVC)



L to R Brant (KJ7LTQ), Maddie (KK7FLL) and Fred (KI7TPD)



L- Terry West, R- Rachael and George (AL7BX in Rear).

**Continued next column**

## Hurricane Idalia: Amateur Radio Serves Critical Functions

Hurricane Idalia made landfall Wednesday, August 30 on Florida's Big Bend region as a Category 3 storm sustaining winds of 125 miles per hour. The storm tracked across Georgia and into South Carolina, and on Thursday morning it had moved offshore of North Carolina.

ARRL volunteers staffed key positions across the affected region. Section Emergency Coordinator of the [ARRL Northern Florida Section](#) Arc Thames, W4CPD, led the activation of [Amateur Radio Emergency Service®](#) (ARES®) volunteers within the Section. Thames said the ARES volunteers would be staffing the radio room at the state Emergency Operation Center (EOC) until 7:00 a.m. on Thursday, August 31 and will provide additional service if needed. "So far there does not appear to be a large communications impact that would require amateur radio support," he said.

The [Florida Statewide Amateur Radio Network \(SAR net\)](#) was the primary emergency communications system used during the storm. The system is a series of linked UHF repeaters that covers the entire state. There were also HF nets linking counties to the state EOC.

In a message to ARES leadership in the affected Sections, ARRL Director of Emergency Management Josh Johnston, KE5MHV, reminded them of gear at ARRL Headquarters that can be deployed if necessary. "We have equipment assets in our Ham Aid program available to you for loan if you have a need to backfill. These can be used during - long term recovery efforts as needed," wrote Johnston.

The Federal Communications Commission (FCC) [approved an ARRL-requested emergency waiver to HF symbol rate limits](#),

to allow higher speed data communications in the Amateur Radio Service response to Hurricane Idalia. [Read the waiver](#) (PDF)

Many counties in the ARRL Northern Florida Section were activated. Section Manager Scott Roberts, KK4ECR, was at the Clay County EOC for 27 hours. "We had a good number of our Northern Florida counties activated, as well as other places in the state. There were four shelters open here in Clay County alone," he said. As of press time, Roberts said the final information was still being tallied, but he knew of activations Duvall, St. Johns, Escambia, Marion, and Leon Counties.

In Ocala, the Marion County Emergency Radio Team (MERT) was activated to support shelter operations on Tuesday, August 29. Marion County ARES was placed on standby to support the MERT team and other served agencies. The county was spared the brunt of the impact. Marion County ARES Emergency Coordinator Hayden Kaufman, N2HAY, said the activation identified some opportunities for improvement in the area's disaster response. "We were very fortunate to have had little to do. However, the activation provided us some insight on factors that would impede communications in an emergency," he said.

Ham volunteers worked with the County Sheriff's office to ensure the amateur radio equipment onboard the Marion County Mobile Command Center was fully operational before it was deployed to Madison County, the area most heavily impacted by the storm.

Kaufman thanked the many local volunteers for their service during the hurricane. "I am personally proud to be a member of our increasingly tight-knit EmComm community," he said.

**Continued next column**

## New York Club Operates Ham Radio in Honor of National Lighthouse Day

August 7 was National Lighthouse Day, and the Peconic Amateur Radio Club (PARC) participated by operating at Horton Point Light (US0023) in Southold, New York.

Our operations were a great success, regardless of the rain early on in the day. Our team set up two HF transceivers, one on commercial power and the other on battery power. Both transceivers were successful in advertising Horton Point Light's existence. Eleven contacts were logged within the continental US. Our club has received requests for our commemorative Horton Point Lighthouse National Lighthouse Day QSL card.



Horton Point Light. [Photo courtesy of Gary Utz, KE2YKJ]

Three club members (Don, N2QHV; Gene, KC2ZQL, and Dick, N2YIB) operated the stations and were observed by other members (Charles, K2GLP; Doug, KD2TJW, and Amal, N2ZUY) who provided encouragement and advice.

PARC also participated in the annual International Lighthouse Lightship Weekend in August. Members activated the Plum Island Lighthouse (US0226), Orient Point Lighthouse (US0273), Long Beach Bar "Bug" Lighthouse (US0163), and Horton Point Lighthouse (US0023).

By Gary Utz, KE2YK

End

## Something to Think About!

### A Fresh Take on In-Person Meetings

Like many radio clubs across the country, most of the Denver Radio Club's (DRC) activities were curtailed by the pandemic and local restrictions at our meeting location. The club quickly transitioned from in-person to web-based meetings, allowing presenters from around the country to be utilized without requiring any travel. Club members appreciated having more diverse guest speakers covering a greater breadth of topics. Members didn't need to travel to meetings, which gave them more time for evening activities. Unfortunately, our meeting location still maintains meeting restrictions, so the club has continued with the remote-meeting forum.

Once the pandemic restrictions relaxed, DRC surveyed its members, seeking input on having the general meetings return to being in person or remain being remote. Overwhelmingly, the club elected to continue the web-based meetings, but this left a void in those seeking the camaraderie from meeting in person. Club officers elected to conduct four extra club gatherings, located mostly in our usual Field Day spot. These events, branded DRC Saturdays, are open to members and non-members alike.

The first event, held on April 29, was billed as Member Show and Tell. Attendees brought what they built and got it on the air. There was a demonstration of FT8/digital, with time to get on the air using that mode. In addition, Florida was having their QSO party, and the club allowed attendees to operate the club station with more anticipated activity.

On June 3, DRC hosted an Elmer Picnic in the Park. Hotdogs, hamburgers, and questions and answers were being served. Handheld transceiver programming was offered to those unsure of how to create code plugs and get their new radios on the air.

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## Hurricane Idalia: Amateur Radio Serves Critical Functions

Continued from page 9

[Hurricane Watch Net](#) (HWN) Manager Bobby Graves, KB5HAV, said the storm called for "all hands-on deck". Ahead of impact, the intensity and track of the storm greatly concerned him. "I have been watching and plotting hurricanes for over 35 years. I have witnessed, many times, a Hurricane cross a state line into another as a hurricane...two states were hit by the same hurricane. Never have I seen a storm cross three States as a Hurricane," said Graves.

The [WX4NHC amateur radio station at the National Hurricane Center](#) was also active during the storm, as was the [Hurricane VolP Net](#).

Amateur radio operators continue to serve impacted communities through served agencies as the recovery phase begins. Check [ARRL News](#) for the latest updates.



Wow, what a vintage set up. Amazing to say the least.

## Amateur radio operators share Sabine Pass Lighthouse restoration story



Sabine Pass Lighthouse recently enjoyed a great run of radio activation during International Lighthouse and Lightship Weekend. The Lighthouse stands about two and a half miles south of the Cheniere LNG facility. The Sabine Pass Lighthouse – Cameron Preservation Alliance is working to renovate this lighthouse so it once again becomes a symbol of local communities.

Andrew Tingler is the President of Cameron Preservation Alliance and works with the National Weather Service in Lake Charles, Louisiana. The public can learn more at [facebook.com/Sabine Pass Lighthouse](https://facebook.com/SabinePassLighthouse). Four amateur radio operators — Glen Rose, Steve Gomez, Verne King and Bob Rose — traveled to the Sabine Pass Lighthouse for the special weekend Aug. 19-20.

They obtained a special event call sign for the activation. Tingler described the progress of excavating the subfloor space that had been created in earlier years so the foundation and central 12" cast iron column could be assessed. Also discussed was the process that would be utilized to clean up the interior of the lighthouse so the circular cast iron stairway treads could be reinstalled.

The Cameron Preservation Alliance's search efforts for the original Fresnel lens, which had been removed and carried away, was also described.

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## Amateur radio operators share Sabine Pass Lighthouse restoration story

Continued from page 13

The radio operators were successful in reaching a few DX stations in Europe, Mexico and the Caribbean. Operators set up stations under the limbs of a shade tree. The difference in temperature between the open sun and the shade with an 8-10 mile-an-hour sea breeze coming in off of the Gulf of Mexico was substantial. "After gathering our logs and checking our contacts, we made 19 lighthouse contacts, 2 lightship contacts, 9 parks on the air contacts and one contact with the USS Little Rock CL-92 Museum ship in the Buffalo and Erie County Naval & Military Park, New York," Rose said. "Our contact list of over 280 contacts included contacts from eight foreign countries, DX locations and 26 states. During our operation, we provided the public with information including the International Lighthouse and Lightship number for the Sabine Pass Lighthouse, the location of the Sabine Pass Lighthouse, the Sabine Pass Lighthouse Cameron Preservation Alliance's work to restore the lighthouse and the Facebook page for the Cameron Preservation Alliance."

Read more at:

<https://www.orangeleader.com/2023/08/30/amateur-radio-operators-share-sabine-pass-lighthouse-restoration-story/> End.



Bonnie (K17WEX) winner of Understanding Ham Radio Propagation Book.

## A Fresh Take on In-Person Meetings

Continued from page 10

A radio technician with an Aero flex service monitor tested radios for compliance with radio specifications. Many radios were checked, but unfortunately the weather turned, and the hotdogs and burgers had to wait for better weather.

One issue that kept coming up was that amateurs wanted more opportunities to operate within their license classes. DRC elected to do a Parks on the Air activation on July 15 at a nearby wildlife management area that doesn't require park admission fees. Several radios, bands, and modes were operational for those attending. Once again, hotdogs and refreshments were an added incentive. Propagation didn't cooperate fully, but a good time was had by all, and the event was highly successful.

Finally, our last DRC Saturday of the year was September 16. This event included a Winlink demonstration and clinic. Its purpose was to assist those having difficulties in setting up their radio for this email network and provided an opportunity to use it. A GOTA station was available for those wanting the chance to try HF.

Overall, the DRC Saturday events have been an immense success. Making face-to-face contact has been positive for club morale. Going forward, the club plans to continue these events.

For more information, visit us at [WOTX.org](http://WOTX.org).

By Kevin Schmidt, K0KPS



# Cedar City Half Marathon

Continued from page 8



Bag Pipe Player alongside the race course.



Aerial view of runners.



The runner just keep coming.

Continued next column



Benjamin (W9YNK) and Caleb (KE8OYI) at the finish line.



David (KK6FLO) at Aid Station 7.



First runner crossing the finish line. **Cont'd on page 15**

# Cedar City Half Marathon

Continued from page 14



Additional Runners Cross the Finish Line.



Last runner approaching the Coal Creek Trail Cutoff.



Runners passing Aid Station 4



Kevin (K2MKF) and Dennis (W6DLW) at Race Control



Additional runner passing aid station 4

Continued next column



*Happy Halloween*

# RCARC September Meeting and Iron County Sheriff's Search & Rescue Presentation Pic's



Members Arriving for their meeting. Bruno (KG7VVN) and Georg (AL7BX) in conversation.



Fred conducting club business.



Fred (KI7TPD) bringing the meeting to order.



Members listening to Fred (KI7TPD)

## Iron County Sheriff's Search & Rescue Presentation Pic's

RCARC would like to express its appreciation to the Iron County Sheriff's Search & Rescue Unit for the very informational presentation on their unit. The information shared with the group will defiantly assist our members in the future if our club was assigned to work with them.



Members citing the Pledge of Allegiance

**Continued next column**



Left – Gary Orton and Right Jim Harmon start the Presentation.

**Continued on page 18**



## Winlink Shakeout Exercise This Month

The Winlink Development Team (WDT) continues its successful collaboration with the US Geological Survey to provide real event and exercise "Did You Feel It?" (DYFI) earthquake intensity reports via Winlink. All Winlink users are invited to send Exercise Winlink DYFI reports on October 19, 2023, at or after 10:19 local time with Exercise ID: 2023SHAKEOUT. For [step-by-step Winlink DYFI Exercise instructions](#) and additional information see the [Winlink Shakeout Website](#) and the details below.

### What is Shakeout?

The Great Shakeout is the world's largest earthquake drill. It is held annually on the third Thursday of October, and millions of people participate all over the world. In 2022 over 45.6 million people registered their participation. The goal of the Shakeout is to teach people how to protect themselves during an earthquake.

Great Shakeout Earthquake Drills across the U.S. are coordinated by the Southern California Earthquake Center in partnership with ECA, CUSEC, state and national emergency management partners, with support from FEMA, NEHRP, NSF, and USGS.

The Shakeout drill is simple. At the designated time (or whenever works for you or your organization), participants practice [self-protective actions such as "Drop, Cover, and Hold On"](#) or "Lock, Cover, and Hold On" if they use a wheelchair.

### How to Participate

- [Register your volunteer radio group](#) for the Great Shakeout.
- Send [Winlink DYFI \("Did You Feel It?"\) exercise reports](#) on **October 19, 2023, after 10:19 (local time)** to the United States Geological Survey (USGS). **Exercise ID: 2023SHAKEOUT**
- Conduct local radio nets or functional radio exercises to test your group's preparedness.

The Great Shakeout is also an opportunity to learn more about [earthquake preparedness](#). Participants can learn about the different types of earthquakes, how to create an earthquake safety plan, and how to make their homes and businesses more earthquake-resistant.

The Great Shakeout is a great way to get ready for an earthquake. Many preparedness lessons from the Great Shakeout also apply to floods, fires, landslides, and other disasters. It is also a chance to connect with your community and learn how to help others in the event of an earthquake or other disaster. Look for more details on the [Winlink Shakeout Website](#) in the coming weeks. End.

## Amateur Radio Defense Magazine

Amateur Radio Defense was a magazine published in the early 1940's. In its own statement, "AMATEUR RADIO DEFENSE is being published to foster a greater use of amateur radio operators and equipment in the defense of our nation. Publication appears to have ceased in 1941.

"Amateur Radio Defense magazine painted hobbyists as a reserve army of fifty thousand licensed amateur radio operators who stand ready and able to meet any threatening disaster."

This was in response to the curtailment of ham radio leading up to the U.S. entry into the war. In June, 1940, contact with foreign amateurs was prohibited by "Order 72"

Access the URL below to see magazines from November 1940 to July 1941.

When webpage opens click on the magazine cover to open it. Happy reading.....

[https://worldradiohistory.com/Amateur\\_Radio\\_Defense.htm](https://worldradiohistory.com/Amateur_Radio_Defense.htm)

Continued next column

# RCARC September Meeting and Iron County Sheriff's Search & Rescue Presentation Pic's

Continued from page 16



Gary & Jim Tag Teaming as the presentation moved forward.



Fred (KI7TPD) conversing with Gary Orton prior to the presentation.



For more information on the Iron County Search & Rescue Unit contact the below information.

Phone: 435-867-7500  
Email: [IronsheriffSAR@gmail.com](mailto:IronsheriffSAR@gmail.com)

**Stay Safe Everyone**

## Club Members Working QRP

Submitted by Lance Jackson (KA7J)

Ken Munford (N7KM), Dick Parker (K7ZI), Larry Bell (N7SND) and I spent the morning on the mountain a couple of weeks ago working QRP. Ken was able to contact two German stations and one from the Czech Republic using less than 10 watts on an end-fed long wire antenna. See Pic's below:



Dick (K7ZI) at his portable station set up.



Larry (N7SND) at his portable station setup.



Ken (N7KM) at his portable station setup.

# Pros and Cons of HF Attic Antennas

In a perfect world, all hams would have plenty of room for antennas. HOAs wouldn't exist, and there would be no need to hide antennas in the attic (provided you have one). While the performance of antennas located outside will almost always be better, locating them inside and in a roof, space may be the only option—and a workable one.

## Advantages of Installing an Attic Antenna

Though installing a radio antenna in the roof space won't work as well as an outdoor antenna, there are some advantages:

- **Ease of installation:** It is normally easier to install a radio antenna in the attic than outside. There is no need to climb up ladders onto the roof, scale towers, or raise tall masts from ground level. If you don't like heights, this is a great advantage.
- **Access to feedline:** All radio antennas need a feedline to transfer signals to and from the antenna. Coaxial cable is the most common form of feeder. It could be easier to route feeders when installing an antenna in the roof space or attic.
- **Protection from the elements:** Radio antennas located outside are subject to weathering. Wind, rain, and pollution all cause the antenna to deteriorate over time. Even the coax can deteriorate quite quickly, especially when water seeps inside.
- **Visual impact:** Antennas located outside can be unsightly. Locating them inside removes the visual impact and hides them from neighbors and the HOA.

Continued next column

- **No trees, masts, or towers needed:** The support structure is already in place.

## The Downside

Attic antennas are a compromise and may require more planning and care during installation. You should choose them only when outdoor antennas are impractical or not allowed.

- **Low height above ground:** An antenna cannot be placed higher than the highest peak of the roof, a point usually low in terms of optimal HF antenna height.
- **Heavy metal:** Got a metal roof, foil-backed insulation, and large amounts of HVAC paraphernalia? If you have any or all of these, the attic option may not work.
- **Shorter antennas:** Sometimes the antenna must be shorter than 1/2 wavelength for a dipole to fit into the available space. Work-arounds include loading coils, traps, and linear loading—all of which can reduce efficiency.
- **RFI interference:** Because of the proximity to your living area, interference from plasma TVs, power supplies, and other electronics could be a problem. You'll need to neutralize sources of RFI that may interfere with your receiver.
- **RF exposure:** Because the antennas are installed inside the structure, you need to consider RF exposure to yourself and those living in your household. Likely this will include adjusting transmitter power levels. The ARRL has a PDF document, "RF Exposure and You," which can give you some guidance.

## Attic Antenna Installation Tips

- When locating an antenna in the attic or roof space, there are several precautions you can take to ensure that performance is the best for the circumstances.

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# Pros and Cons of HF Attic Antennas

Continued from page 19

- **Keep away from internal wiring and ducting:** There is often internal wiring or HVAC ducts within the attic or roof space. Make sure the antenna is as far away from these as possible so they do not affect performance.
- **Remember wiring and objects from the floor below:** When installing an attic antenna, it is easy to forget lights and electronic devices can be a source of considerable interference. Keep the antenna as far away as possible from these and take measures to reduce or eliminate RFI in the home. Also remember the opposite is true—wiring can carry interference caused by your antenna.

## HF Attic Antenna Options

Confined spaces limit your options when it comes to HF antennas. It's also assumed that performance is much less than full-sized antennas. Depending on the attic, construction materials and layout, this can be true. But as a general rule, the impact is not as great as you might think.

You can install a simple wire dipole in almost any attic space. Don't worry if you don't have the room to run the dipole in a straight line. Try to keep the first 1/3 of each wire starting from the feed point straight and in the clear. The last 2/3 contributes little to radiation, so you can bend and shape it almost any way you want, except for folding it back tight on itself. Cross other conductors, like wiring, at right angles, when possible, to minimize inductive coupling, which increases RFI and losses.

Want to work more than a single band? Parallel/fan dipoles are a good solution that will allow you to operate on multiple frequencies.

Rotatable multiband dipoles are also a possibility, though they may not have enough room to actually rotate. **Continue next column**



They're essentially short dipoles with traps or loading coils and constructed with aluminum tubing. Some examples include the **MFJ 1769** (26 feet) and Comet's **CHV-5X** (14 feet). Some of the shorter ones like the Comet may be able to rotate in some installations.

But it isn't all about dipoles. You can try a **magnetic loop**—just remember it has a narrow bandwidth. Another option I discovered is a Broadband Butterfly Terminated Dipole (BBTD)., The BBTD radiator is a big loop that follows the perimeter of the roof. It's a close relative of the Terminated Folded Dipole, using a balun and a terminating resistor. It is truly broadband, with loss on some lower bands but gain on 20 meters and above.

Mobile antennas such as Hamsticks, screwdriver antennas, and others are already a compromise. Putting them in the attic makes them even less effective. Sure, you can try them, but the closer the antenna is to "full size," the better it will work.

## Up in the Air?

Attic installations will require you to spend some time trimming and tweaking the length of the antenna to achieve the lowest SWR. You won't know exactly what will work the best until you build and test the antenna. That experience will help you—and maybe you'll discover new options.

At least you'll be out of the rain and snow. . . End

## Amateur Radio Serves in Large Utah Bike Race

On September 9, 2023, the [Bridgerland Amateur Radio Club](#) (BARC) in northern Utah provided amateur radio communications support during [LoToJa](#), the longest 1-day USA Cycling (USAC)-sanctioned bicycle race in America. The LoToJa course consists of 200 miles of rough, mountainous terrain. BARC was prepared for the challenge and had been training and working on their communications plans for more than 3 decades.

The club's involvement with LoToJa began in 1991, when the race had 200 riders and 14 amateur radio operators. This year's event had 1,700 riders and 120 amateur radio operators, including 35 cars with amateur radio operators along for the ride. Amateur radio was engaged in every aspect of the race from start to finish thanks to assistance of operators from Ogden, Davis County, and Salt Lake City, as well as Idaho, Wyoming, and Maryland.



Section Manager of the ARRL Utah Section Pat Malan, N7PAT, said that BARC members evaluate their operating skills and equipment, which is the best form of preparation for emergency communications. "It's a tremendous effort and dedication from everyone," Malan said.

Youth Coordinator for the ARRL Utah Section and former BARC President Kevin Reeve, N7RXE, said the teams deployed two mountaintop portable repeaters (using batteries and solar power), three portable digipeaters, and a portable iGATE throughout the racecourse, in addition to setting up four command and net control centers. Reeve explained, "This provided continuous audio and an Automatic Packet Reporting System (APRS) for the 35 cars covering the entire event."

**Continued next Column**

Reeve went on to say that this year, a family needed to contact one of the riders because of an emergency. He stated, "There was no cell phone coverage, but we were able to locate the cyclist in about 5 minutes, then reunite them with their family in 15 minutes."

BARC also provided emergency communications for at least two other large-scale cycling events this year, including the Little Red Riding Hood event that had 3,500 women cyclists and 70 ham radio operators, and the Cache Gran Fondo event that had 1,500 cyclists.

BARC was founded in 1976 by Jeff Jacobsen, WA7MBL; Bob Wood, WA7MXZ, and Bill Neville, WA7KMF (SK), and it exists for the training and fellowship of amateur radio operators. The club currently has 227 members. End

## Some Ham Cartoon Humor



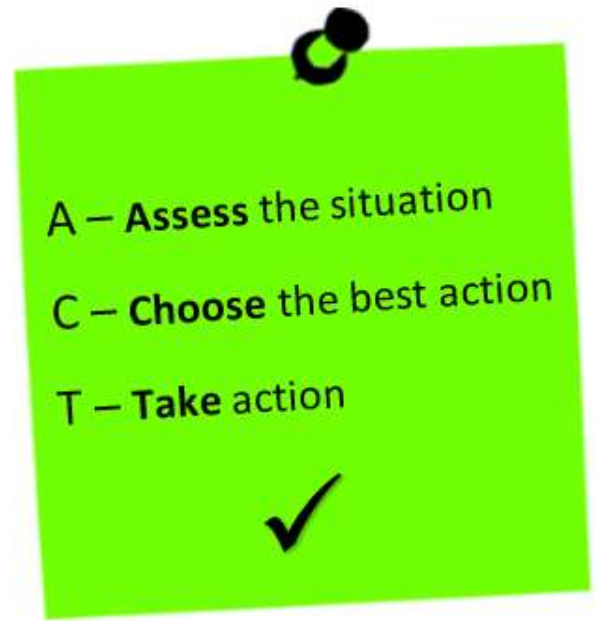
## Buzz's October Safety Tip(s)

Continued From Page 5

1. **Chemical Safety** – Use and store chemicals safely. Read hazard warning labels and safety data sheets to determine flammability and other fire hazards. Ensure your chemical storage areas provide adequate ventilation for the storage of chemical or other hazardous substances.
2. **Waste Control & Storage** – Limit the accumulation of flammable or combustible materials and residues as to prevent the risk for such materials contributing to a fire emergency.
3. **Exits** – Ensure emergency exit route diagrams are posted and accessible in all areas of the facility for all employees to easily view. Additionally, ensure means of egress are well-lit with regulated exit signs and free from debris or clutter.
4. **Contact Information** – Employees should have access to a list of emergency contact phone numbers in case of emergency. Remember that human nature is to panic in emergency situations; therefore, basics such as the company address, important phone numbers, and building floor plan should be posted on or with the emergency action plan.

Remember it is always better to be *proactive* rather than *reactive* and it is best to alleviate hazards or hiccups in times of peace than in times of chaos. Utilize the above tips to reduce the risk for catastrophe or at least minimize the damage. The reality is that fire emergencies and disaster situations can strike anyone, anytime, anywhere. So, remember, if a fire occurs in your workplace or home, don't panic, **A-C-T**:

Continued next column



## Winlink Great SHAKEOUT

### What is Shakeout?

The [Great Shakeout](#) is the world's largest earthquake drill. It is held annually on the third Thursday of October, and millions of people participate all over the world. In 2022 over 45.6 million people registered their participation. The goal of the Shakeout is to teach people how to protect themselves during an earthquake.

Great Shakeout Earthquake Drills across the U.S. are coordinated by the Southern California Earthquake Center in partnership with ECA, CUSEC, state and national emergency management partners, with support from FEMA, NEHRP, NSF, and USGS.

The Shakeout drill is simple. At the designated time (or whenever works for you or your organization), participants practice [self-protective actions such as "Drop, Cover, and Hold On"](#) or "Lock, Cover, and Hold On" if they use a wheelchair. You may want to [register your group](#) for the Great Shakeout. Registrants will receive a certificate of participation from the Shakeout organization.

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# Winlink Great Shakeout

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## How can Radio Operators participate in Shakeout?

The [US Geological Survey \(USGS\)](#) and Winlink are collaborating to provide "Did you feel it?" (DYFI) earthquake intensity reports via Winlink. SHARES and Amateur Radio Operators are therefore invited to send an EXERCISE Winlink "Did you feel it?" (DYFI) message to the USGS during Shakeout!

In real events Winlink DYFI ground truths contribute to USGS earthquake intensity assessments and event response products, like [PAGER](#). The PAGER system provides fatality and economic loss impact estimates following significant earthquakes worldwide and is used by governments, agencies, NGOs, private companies and citizens.

Please note that ONLY Winlink offers the DYFI exercise option! An exercise option is NOT available on the USGS DYFI website - so it is a unique Winlink feature! And yes, Winlink DYFI exercise reports are sent to the USGS!

## Note to RCARC Members:

Ron Shelley (K7HDX) will be discussing the Winlink Great Shakeout and inviting our club members to join in.



## Antique CW Keys



Telegraph Key and Sounder. Circa, 1885



Spark and Wireless Telegraph Key



J38 Military Telegraph Key



Early original Apparatus Company Key