

RAINBOW CANYONS AMATEUR RADIO CLUB NEWSLETTER CEDAR CITY, UTAH



Club Website: www.rcarc.info Number 6 – Vol. 1 – January 2024

Club Meeting Information

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

2024 Club Officer's

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CQ, CQ, Happy New Year



Presidents Message

Dear Fellow Amateur Radio Operators,

Hope everyone had a wonderful Holiday season and that you are looking forward to another great year of Amateur Radio! Our RCARC Christmas meeting/party was one of the best so far! Thank you to everyone who helped with getting things set up and with donating prizes! Everyone seemed to have a lot of fun and congratulations to all of the winners who won the great prizes this year! Members of this club really make our activities great! So, thanks everyone for a great 2023. I hope to build on everything we did last year. I look forward to working with everyone and hope our club activities, "Elmer" nights/classes and events will help new and old Hams connect with our Hobby! Winter Field Day is coming up fast! It is January 27 and 28. We will meet out at the Iron County EOC Saturday morning to set up. We will have the EComm trailer, but come ready for cold weather!

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

January 9, 2024

RCARC Club Meeting.

7:00 pm. Cedar City Senior Center,
489 E. 200 South. [Get to know
your radio. See Presidents
Message.](#)

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](#)

April 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.

We will have a demo on how to use your radio for our January meeting so please come out and bring your radio if you have questions! I encourage you all to play, share, and have fun! Everyone has strengths and weaknesses and we are all in this because we love some aspect of radio communications. If you are interested in how radios, antennas, or other equipment works then please explore the topic, experiment, and share what you have done with the group! We have members who have been doing this for less than a year up to those who have been doing this for decades. That is what makes this such a fun hobby! Don't be shy, we are all friends here!

In service,

Fred Govedich (KI7TPD)



January 2024.pdf



HamfestFlyers
Reduced.pdf

Check out the Links above for the current Arizona Amateur Radio Newsletter and Hamfest Flyer.

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 January**

**Happy New Year
Everyone**

Breakfast Net		Friendship Net		
First Place	Second Place	First Place	Second Place	Third Place
	Third Place			

Due to unforeseen Circumstance the December 2023 Net Winners will be posted with the January 2024 Winners.

**Rainbow Canyons Amateur Radio Club
Treasurer Report Dec 12, 2023**

Bank balance Nov 1, 2023	\$1,107.08
Deposits - membership 2024 W0KLH, KE6ZIM, WA7GVL, K6QOG, W6,DLW KI7LVB, KI7LVC, KG7YIB, KG7YIC, NR7T	+ 140.00
Expenses Rocky mountain Power	- 19.86
Bank Balance Dec 1, 2023 (Reconciled)	\$1,227.22
Dec Deposits - membership 2024 KG7VEJ, K7NKH, KF7GPZ, KF7WIY	+ 50,00
Dec Expenses Rocky Mountain Power (due 12/19/2023)	- 20.26
Funds Available afer 12/19/2023	<u>\$1,256.96</u>

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

RCARC Upcoming Events

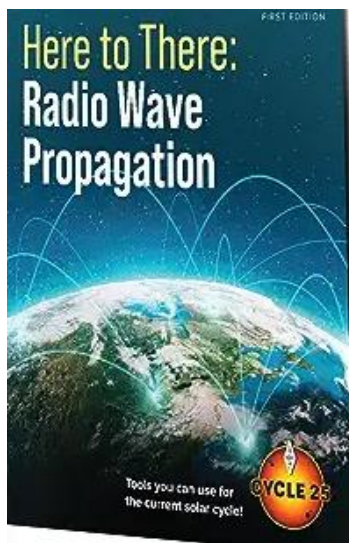
- Regular Monthly Meeting January 9, 2024. Program: Get to know your radio. See program note on page 4.
- Winter Field Day, January 27-28, 2024 at the Iron County EOC. See article on page 8 for details.

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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 January 9 2024 meeting.



A BOOK WAS NOT GIVEN AWAY IN DECEMBER

Contact Us.

Mailing Address:

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

Club E-mail:

cedarcity.rcarc@gmail.com

Newsletter E-mail:

rcarcnewsletter@gmail.com

Website

www.rcarc.info

Face Book Page:

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

To Join RCARC or Pay Dues:

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

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

Thank You

Get to know your radio

Have a radio you just can't figure out?

1. Programming issues.
2. What do they mean by check the reverse.
3. Can't figure out how to set your mic level?

Bring your radio and all questions you may have about your radio and Radio Manual to the January 9, 2023 meeting and let some of our club members assist you in finding the answers.

See you there.



Buzz's Safety Tips

Winter Safety Tips

Drive Safely in the Snow

Driving in the winter means changes in the way you drive. Snow, sleet and ice can lead to hazardous road conditions. Prepare your vehicle for the upcoming winter season with [these helpful tips](#).

Avoid Shoveling, Snow blowing Injuries

[Shoveling snow](#) or using a snowblower are among winter's most grueling activities. High levels of activity in cold temperatures put many people at risk of heart attack, especially those that have inactive lifestyles

Treat Frostbite Immediately

Use first aid to help someone who may have [hypothermia or frostbite](#). Online and classroom courses are available at workplaces and other organizations through NSC. [Download the NSC first aid app](#) and you will be ready to give first aid for frostbite, hypothermia and many other emergencies.

Prevent Carbon Monoxide Poisoning

Carbon monoxide detectors save lives. Every year, hundreds of people die and tens of thousands are treated for [carbon monoxide poisoning](#).

The most common symptoms of carbon monoxide poisoning are often described as “flu-like” – headache, dizziness, weakness, upset stomach, vomiting, chest pain and confusion. [Check out our carbon monoxide fact page](#).

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Winter Safety Tips - Continued from Page 5

Avoid Injuries While Enjoying the Winter Weather

Whether you are [skiing and snowboarding](#), [sledding](#) or skating, take safety precautions like learning basic skills and using the appropriate gear for the sport.

Know the Numbers

Need more facts and stats? See the *Injury Facts* page on [Weather-Related Deaths and Injuries](#). End.

Rally Cool Stuff



Where's the nearest car wash.



Strange



Home antenna system



RADIO NEWS

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

EDITORIAL AND GENERAL OFFICES, 33 PARK PLACE, NEW YORK

Vol. 5

JANUARY, 1924

No. 7

What Broadcasting Needs

By H. GERNSBACK

HAVE you taken note lately that the quality of broadcasting has diminished somewhat? It is almost impossible these days to get a first-class artist to broadcast. If you have wondered why this is so, you may stop wondering right now, and take yourself severely to task. *The fault is all your own* for a very simple reason: Recently, Eddie Cantor, an actor of no mean standing, broadcast a very fine selection from a well known station in New York. The next morning he received an avalanche of mail—yes, he did not! As a matter of fact, he did not receive a single, solitary postal card. Imagine how pleased he was. And he is no exception. The public is becoming so used to radio that it takes it for granted, never thinking that the artist, very likely, is not paid for his work. Broadcast listeners should be aware of the fact that artists are not going to continue broadcasting to an unappreciative public. At best, broadcasting is a thankless job. You render a selection into a lifeless microphone transmitter, and at the end of the performance the artist does not even get applause. He might just as well perform in the Sahara Desert for all the personal satisfaction he gets. Then the next morning, if he does not receive even a single letter thanking him for his work he is not likely to broadcast soon again.

It is absolutely essential that broadcast listeners make an effort to show their appreciation of the artist's work in some way. If you are near the station, telephone, and if you find that the line is busy, send a letter or a postal card to the artist and thank him. This is the very least you can do, owing to the fact that the service costs you nothing in the first place. Your letter of applause to the broadcasting station will not only please the performer, but it will also inform the broadcasting station that it is doing a worth while service.

During July of this year there were 581 broadcasting stations. At this writing, there are approximately 567; in other words, a net decrease of 14 stations. If broadcasting interests you and if you have the radio industry at heart, telephone or mail your applause as often as you can. A number of concerns are now getting out applause cards, which is a very good idea. It costs only a cent to mail these out and we hope to see them universally adopted in the very near future.

Almost every day we are in receipt of letters from broadcast listeners who complain of commercial ship and shore radio stations which handle traffic on 450 meters. The complaint seems justified because such traffic, it would seem, could be handled just as well on 600 meters. Furthermore, there also seems to be an excessive amount of testing going on at the lower wave-lengths. This, of course, interferes greatly with the reception of radio broadcast programs and many of our readers are wondering if the Department of Commerce could not assist in improving these conditions by ruling that ship and shore stations, particularly those using spark transmitters, should work on the 600-meter wave-length during broadcast hours, and on 450 meters, only when necessary.

One of the greatest nuisances today in radio broadcast reception is the pause when a broadcasting station is on the air, but does not transmit. For instance: You try to get a certain station which you know is on the air. An artist has just finished a selection and the announcer has given the name of the artist and the selection just rendered and concludes his statement with: "Artist so and so will render a new selection in a few minutes." Meanwhile, someone a thousand miles off is trying to get this particular station. He frantically moves his dials too and fro; although he may get the carrier wave he is not sure that this is the station sought, because there is no way of telling whether the station has been finally and definitely located. It seems that such a condition could be overcome without great expense by our broadcasting sta-

tions. We know of one station that used to have a metronome which the announcer started the second the station stopped sending. You could hear the ticks plainly and the listener-in knew that this station was still operating. We suggest that broadcast stations in general adopt some sort of mechanical appliance to keep their listeners informed during intermissions. One suggestion is a single stroke bell placed near the microphone, which bell might be sounded once or twice a second. This system would be very simple, because the different stations could use different sounds. There are any number of variations and differences in musical sounds that any clever electrician could rig up in a few hours' time; thus each station could have its own earmarks.

We would also suggest that stations use an automatic transmitter to send their call letters slowly in code. This can easily be accomplished by using an instrument somewhat similar to an omnigraph which would enable distant listeners to read the letters in code. The whole apparatus operating a buzzer might be placed in front of the microphone, or better yet, operate the oscillator tubes on the transmitter as this would increase the range.

While we are about it, why do some broadcasting station announcers fail to designate their station's call letters at the end of each selection? The other night, the writer, with infinite trouble, finally located what proved to be a DX station, but he had to wait through the rendition of at least four selections before the announcer finally thought to state the station's name. This happened to be a Philadelphia station, and such practices are, of course, inexcusable. The advertising that such a particular station gets from long distance listeners is destroyed at once because not every listener-in has the time to wait, and often if he does have the time, atmospheric conditions may make it impossible to understand the infrequent announcements of the station.

Also, some of the announcers are very careless in announcing. Numerous broadcast listeners in Cuba complain that they are unable to determine what broadcasting station they are receiving, since most of the stations they receive from are weak, and it is often very difficult to understand voice transmission. If the suggestion given above, namely, to designate the station between selections with different sounding gongs, is adopted, this will help a great deal, for even if the DX listener does not understand correctly the call letters of the station, he can check himself up by listening for the next intermission.

Certain stations are in the habit of reading off a quantity of telegrams and messages received by them, all of which are practically the same in their wording and most of them are of no interest to the listeners. Broadcasting stations should discontinue such practice and merely thank the senders as a body for their kindness. In nearly all instances, the listeners grow tired of hearing these telegrams read and tune in to another station.

Many broadcast listeners would like to receive long distance stations, but due to local interference they never have a good opportunity. It is suggested that the United States be divided into its time sections: Eastern Standard Time (E.S.T.), Central Standard Time (C.S.T.), Mountain Standard Time (M.S.T.) and Western Standard Time (W.S.T.). Then let all broadcasting stations in one zone (E.S.T. for instance) cease transmitting for one night at 10:30. Then the listeners in this zone could listen for the DX stations. The next night all stations in the next zone (C.S.T.) would shut down at 9:30. The following night stations in zone (M.S.T.) should cease broadcasting from 8:30 to 9:30 and in (W.S.T.) from 7:30 to 8:30. This would give the whole country a chance to listen in for DX stations, which is not possible today with simple receiving sets.



2024 Winter Field Day

History

In June of 2006, Charles, N5PVL, asked if SPAR (The Society for the Preservation of Amateur Radio) would be interested in sponsoring a Winter Field Day activity. Discussions, proposed rules, and modifications followed, and in September, SPAR's Board of Directors voted to approve sponsoring a Winter Field Day. Next came a flurry of activities to get the word out, and the first Winter Field Day was held just four months later, on January 13-14, 2007. Based on comments from participants, Winter Field Day would soon become an annual event.

Walt (W5ALT) and **Charlie (KY5U)** contributed significantly to the success of SPAR and WFD. However, due to health issues, activity within SPAR slowly declined, and so did their support of WFD.

Because of these health issues and the aging members of SPAR's Board of Directors, there was a delay in scoring and releasing the 2015 WFD results. Members who had participated in WFD over the last nine years were upset, and with no official response from SPAR, rumors spread, and some feared that WFD might fade away. Stepping up to the challenge of keeping WFD alive, a small group of WFD enthusiasts banded together and formed the **Winter Field Day Association (WFDA)**.

In late 2015, the remaining SPAR Board Members handed over the reins and the responsibility of Winter Field Day to the Winter Field Day Association, who scored the 2015 entries, and have been promoting the event ever since.

A WFD committee was formed to oversee the rules and manage the event. Subtle changes to the rules have been made as needed, but the event's purpose has remained the same.

Through the hard work and dedication of **Tom (W8WFD)**, **Bill (VE3FI)**, **Dave (W3DET)**, **Erik (WX4ET)**, and **Ken (N8KC)**, Winter Field Day has continued to grow and thrive. For many who have participated in WFD over the years, it is no longer just an event but an annual tradition. In 2022, the WFDA processed over 2,500 logs from stations around the world, and once again reigns of Winter Field Day were passed to a new board of directors.

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. END

RCARC December Christmas Breakfast Pictures.

On December 2, 2023 approximately 40 RCARC club members came together for a Christmas potluck breakfast at Linda's (KG7PBZ) residence. See pic's below:



Club members enjoying breakfast.



Just a different angle.



And in another area, more members enjoy breakfast and conversation. **Continued next column**



Dick Parker (K7ZI) Dutch Oven Potato's right and Ken Munford (N7KM) Dutch Oven Peach Cobbler left.



Ken Munford (KN7KM) and his wife



George (AL7BX) Santa Hat and Craig (KK7BNZ) in conversation. Rita, Craig's wife getting food.

ARRL RF Safety Committee Develops New Guidelines to Communicate RF Safety



Radio amateurs now have a new tool from ARRL to help answer questions about their stations. Neighbors of amateur radio operators are sometimes concerned about transmissions and radio frequency exposure from amateur stations.

The [ARRL RF Safety Committee](#), with their international counterparts at the Radio Society of Great Britain (RSGB), the Irish Radio Transmitters Society (IRTS), and the Swedish Society of Radio Amateurs (SSA), has developed a new set of guidelines to help amateurs interact with and talk to their neighbors about RF exposure.

Chairman of the ARRL RF Safety Committee Greg Lapin, N9GL, said the new informational PDF found on the ARRL RF Exposure page, [Helping Amateurs Interact with Neighbors Asking About Radio Transmissions](#), was developed after a year of discussions about RF safety.

"Neighbors may be alarmed by some of the misinformation about RF safety that is available from a variety of sources. By following the exposure regulations from the Federal Communications Commission, we can be confident that our families and neighbors are safe," Lapin said.

Lapin added that RF exposure regulations are based on decades of trustworthy research. He also encouraged all amateur radio operators to perform exposure assessments for their stations to make sure they meet those regulations. End.



Dennis's (W6DLW) Remote HF Tuner Project

In the middle of November George (AL7BX) stopped by to see why I was having such high SWR on HF. After some testing it was determined that the Remote HF Tuner was not tuning. George wanted to get another opinion and brought Ken and Brad to the party. After several attempts to reset the tuner with no success the project was put on standby while I ordered another unit.

A week or so later the project team came back and installed the new remote tuner. While things were better something was still off. After additional testing the information sent them toward the Bias T switch. The switch was replaced and all systems were back on target and working well.



George (AL7BX), Ken (KR7KLR) and Brad (WA7HHE) working on the remote HF Tuner.



All hands-on deck



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.

RCARC 2024 Board Members

At the December 2023 RCARC General Membership Meeting the following Members were elected as the 2024 RCARC Club Board Officers: Congratulations to all.

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

The Rainbow Canyons Amateur Radio Club (RCARC)
is Sponsoring an Amateur Radio

General Class

Intermediate Level for Ham Radio

Dates: Thursdays - March 7, 14, 21, 28, and April 4th, 2024
with the test, Thursday April 11, 2024

Time: 6:00 pm - 9:00 pm

Where: Cedar City Senior Center
489 E 200 South, Cedar City, UT 84720

Class Cost: Free

Study Manual: Free Download

www.ad7fo.com/training.html

Click on Training/Amateur Licenses/General Syllabus (yellow button on left) to download. Please bring to class. This is your study manual.

This class will be held at Cedar City Senior Center, (Sorry, no Zoom available). Testing will be in person on Thursday, April 11h. If you cannot make the 11th, other arrangements can be made.



Contact to register:

Linda Shokrian KG7PBX
435-867-5914 or
email: Lgshokrian@gmail.com

There is a \$15 ARRL Test Fee

The FCC \$35 license fee does NOT apply to upgrades

40 Years of Amateur Radio in Space

Melissa Gaskill, a science author from Austin, Texas, has written a comprehensive review about the 40-year history of amateur radio in space. In her article, "[Ham Radio in Space: Engaging with Students Worldwide for 40 Years](#)," Gaskill explores the Shuttle Amateur Radio Experiment (SAREX), which is now known as Amateur Radio on the International Space Station (ARISS).

Gaskill said that while she wrote the article, she is not an expert on the subject but there are many who are including Kenneth Ransom, N5VHO, International Space Station (ISS) Ham Project Coordinator since 2004.

Ransom said that amateur radio in space was a possibility even before 1983, when Astronaut Owen Garriott, W5LFL (SK), made history during the STS-9 Space Shuttle Columbia mission with the first amateur radio contact from space. NASA had been looking for ways to bring amateur radio to Skylab (a space station designed as an orbiting workshop for scientific research) and even the moon.

"Having amateur radio in space has added a heightened level of interest, not only for hams, but for the overall program as well," said Ransom. "Just being able to talk to a crew member on board a spacecraft is an amazing accomplishment."

Garriott's son, Richard Garriott, who operated amateur radio during a short-term mission on the ISS in 2008, will present a special webinar on December 7, 2023, at 1800 UTC to discuss his father's first historic mission. The presentation will be available to watch on [ARISS - YouTube](#). The event is hosted by ARISS International Chair Frank Bauer, KA3HDO.

ARISS is a cooperative venture of international amateur radio societies and the space agencies that support the ISS. In the US, participating organizations include NASA's Space Communications and Navigation (SCaN) program, the ISS National Laboratory -- Space Station Explorers, [ARRL](#), and AMSAT. End.

ARRL Announcements

2023 SKYWARN™ Recognition Day participants can now obtain an electronic QSL card by visiting the [NOAA SKYWARN website](#). Step-by-step instructions are available to those who've submitted their log(s) to help them construct and print a 2023 QSL participation certificate. The deadline for submitting logs is January 31, 2024. Additional information is available on the [SKYWARN Facebook page](#).

The New Amateur Extra-Class Question Pool has been released and is effective July 1, 2024. The [National Conference of Volunteer Examiner Coordinators \(NCVEC\) Question Pool Committee \(QPC\)](#) has released the 2024 - 2028 Extra-Class FCC Element 4 Question Pool and Syllabus to the public. The new [Extra-Class Question Pool is effective from July 1, 2024, through June 30, 2028](#). The 2024 - 2028 pool is available as a Microsoft Word document and as a PDF. The 10 graphics required for the new Extra-Class Question Pool are available within the documents or separately in PDF and JPG file formats. Extra-class examination candidates preparing for their exams using the 12th edition of [The ARRL Extra Class License Manual](#) or the 5th edition of [ARRL's Extra Q & A](#) are encouraged to test on or before June 30, 2024. New editions of ARRL licensing publications will be available in May for exams taken on or after July 1, 2024. Read more on [ARRL News](#).



Iron County's Community Emergency Response Team (CERT) and RCARC Emergency Communications (EComm) Unit Christmas Party

At 6:00 PM on December 15, 2023 RCARC EComm & CERT members gathered at the Cedar City, Heritage Center for the annual Christmas Party get together hosted by (George Colson) Iron County's Office of Emergency Management (OEM). **See pics below.**



Members visiting before dinner



CERT and EComm Members mingling prior to dinner start.



Dinner is being served.



EComm members seating themselves.



The line has formed.

Continued next column

Continued on page 28

ARDC and ARRL Announce \$2.1 Million for the Next Generation of Amateur Radio

[Amateur Radio Digital Communications \(ARDC\)](#) and [The ARRL Foundation](#) announced a three-year commitment with over \$2.1 million in combined funding to support scholarships for radio amateurs, radio technology for classroom teachers, and amateur radio club grants

This commitment reinforces a strong shared vision between ARRL The National Association for Amateur Radio® and ARDC to invest in the future of amateur radio through programs supporting the next generation of radio amateurs. "ARRL and ARDC share a common vision for the future of Amateur Radio," says The ARRL Foundation President David Norris, K5UZ.

"The Foundation exists to support the next generation of radio amateurs, and we are so proud to collaborate with ARDC to make these programs possible."

The ARDC Scholarship at The ARRL Foundation has supported nearly 100 amateur radio operators in pursuit of their educational goals since its inception in 2020. The renewed commitment will result in over 200 total scholarships, awarded over the next three years, for radio amateurs pursuing higher education, with scholarships ranging from \$5,000 to \$25,000. This competitive scholarship program is run through The ARRL Foundation Scholarship Program, and recipients who demonstrate academic excellence and financial need can use this funding for tuition, room & board, books, and other fees essential to advance their education. More information on eligibility and application deadlines may be found online at The ARRL Foundation website at www.arrl.org/scholarship-program.

The ARRL Club Grants program was introduced in 2022 with initial funding from ARDC. Thanks to this next round of collaboration, the ARRL Club Grants Program will continue in 2024.

Beginning with significant funding from ARDC in 2022, the ARRL Club Grants program is administered by The ARRL Foundation, together with the ARRL Field Organization. These club grants are critical to the future of amateur radio because of the importance of mentoring and helping licensees become active in Amateur Radio. ARRL encourages clubs to revitalize this critical aspect of their role by applying for funding to support programs in one of the available categories, including ham skills development, STEAM learning and education, or club station improvement, among others. This transformational program will launch in the Spring of 2024. More details will be provided through upcoming informational sessions and on The ARRL Foundation website at www.arrl.org/club-grant-program.

Additional funding from ARDC will extend the effectiveness of ARRL outreach programs to teachers and schools, including the ARRL Teachers Institute for Wireless Technology. Monies will be used to purchase equipment to allow students to get hands-on STEM experiences through radio communications and radio technology.

Read more about the exciting announcement on [ARRL News](#). End.

Vintage Amateur Radio Picture



Early 1920's Home Setup

Continued next column

RCARC December Christmas Party Potluck Meeting

On December 12, 2023 over 70 club members gathered at the Cedar City Senior Center to celebrate the Christmas Holiday with a Potluck Dinner.

Thanks to all who attended and especially Ken Richter (KR7KR) for Smoking the two Turkey's and 2 Hams along with some great smoked cheese.

In addition, a great big thanks to the Event organizers, set up and teardown crews for all your hard work.

See Pictures below:



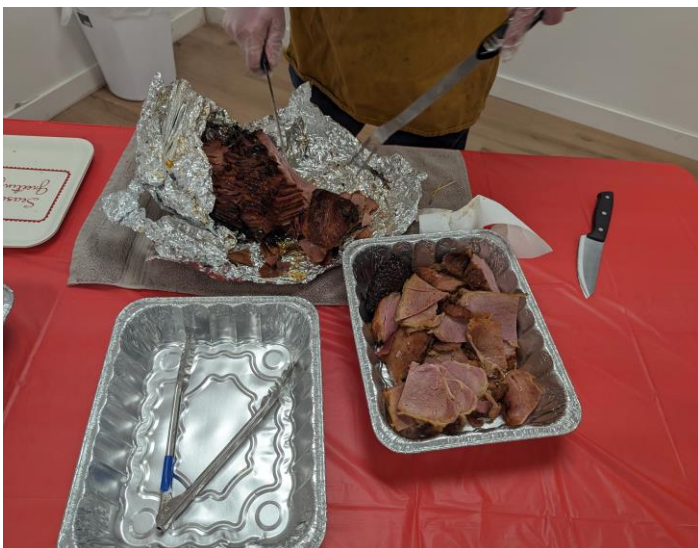
Fred (KI7TPD) checking to see if the RCARC Banner was centered.



Members arriving and mingling with each other.



The Prize Drawing table. The ICOM 2730 radio in foreground is the Grand Prize.



Brody (KG7VXV) carving the Ham



Members waiting for event to start.

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Silent Key



K7DVP

Darce Vernile Prince

Darce Vernile Prince, 76, passed away suddenly on Wednesday, November 29, 2023 at St. George Regional Hospital. He was known for his constant love of family, broad range of skills and interests, and lifelong devotion to the Gospel of Jesus Christ. He will be sorely missed. Vernile was born on July 1, 1947 in Cedar City, Utah to Darce M. Prince and Lorna Belle Anderson. Despite suffering the tragic loss of his mother as a child, he enjoyed an idyllic rural upbringing in New Harmony, Utah, where he had plenty of room to explore, hunt and run free with siblings, friends and cousins. His father remarried, blessing Vernile with a caring second mother, Camilla Pace, who he loved dearly. Vernile's parents taught him such important values as faith in God, love of country and hard work, which remained with him throughout his life. Vernile attended Cedar High School as a member of the Class of 1965, many of whom have remained close friends to this day. Among those friends was a red-haired cutie, Elma Lynne Sandberg. Their first date to the Sweetheart Ball was the beginning of a tender romance and 54 years of marriage, which began with their wedding in the St. George LDS temple on June 14, 1969. As a young man, Vernile served an LDS mission to Australia. He graduated from Brigham Young University and began his career as a lineman for a rural telephone exchange. Vernile remained a loyal employee with the same company for 35 years, eventually retiring as President of All West Communications. Vernile and Elma Lynne raised their family in Cokeville, Wyoming and Kamas, Utah. He was a strong and capable provider, a supportive, involved father and a faithful member of The Church of Jesus Christ of Latter-Day Saints. His children Darin (Suzanne), Clay (Lori), Jillyn (Kenneth) and Joel (Tiffany) will remember him as a fun-loving, funny, adventurous man with boundless curiosity, a contagious laugh and endless zest for life. He enjoyed a special, unique relationship with each of his seventeen grandchildren, and was loved and admired by them. He felt fortunate to have become great-grandfather to one baby girl, with one more baby boy on the way at the time of his passing. He was a natural leader, serving for many years in various regional and national professional associations where he was known for his practical, commonsense style.

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Darce Vernile Prince (K7DVP – Silent Key) continued from page 17

Vernile served faithfully in many church callings, including many years leading youth as Young Men’s President and Scoutmaster. He was a committed home teacher and ministering brother. He served simultaneously as Bishop of his ward and Mayor of Kamas City. He served a mission to Guam Micronesia with his beloved “Ellie,” fulfilling a lifelong dream. Vernile engaged with and maintained an ever-evolving range of hobbies, skills, and interests throughout his life. He rode and broke horses. He painted with oils. He loved music, and experimented with guitar, accordion and harmonica. He was a master photographer and a talented writer. Vernile explored much of the world through travel. He hiked to the tops of tall peaks and ventured to the depths of the ocean with SCUBA gear. He caught fish in all kinds of waters from Alaska to Mexico. Later in life, he learned woodturning and created many beautiful artistic pieces for family and friends. In retirement, Vernile returned home to New Harmony and built a paradise on earth in the shadow of the Kolob’s. There, he expertly cultivated flower gardens, fruit trees, and a productive vegetable garden. He created his own fishing pond, and cared for his horses and beautiful yard. This home became a precious gathering place where his family has created cherished memories.



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
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

- **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

5. Click on the "**Send Money**" tab
6. Where it says "**To**", enter the Utah VHF Society's PayPal address: 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 Next column

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

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.



Please see the Flyer Below. Registration Information to Follow.

Save the Date

CERT, VIPS, MRC Volunteers Conference

Sat, April 20, 2024, 10a-4p

**Heritage Center Theatre
105 N 100 E, Cedar City UT**

A day of lunch, learning, and wonderful presentation, which may include:

ARES radio

Civil Air Patrol

See Something, Say Something,

Psychological 1st Aid

Home Fire Safety

Search & Rescue

American Red Cross

Dept of Public Safety

Emergency Response

Come meet with other volunteers from our area and learn from our County Emergency Teams and Community Partners.

Watch for more info and a registration link at a later date. In the meantime, get to your calendar and Save This Date. You don't want to miss it. Hope to see you there!

RCARC December Christmas Party Potluck Meeting

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Members arriving and placing their dishes on the tables.



Members taking their seats as the event is about to start.



Fred (K17TPD) welcoming attendees and calling the meeting to order.



Gegie (Terry's Mom) drawing the winning ticket for the Grand Prize. ICOM 2730 Mobile Radio.



And the Winner is (W9YNK) Benjamin. Congratulations.



Dick (K7ZI) chose an antenna mount adapter

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Continued next column

RCARC December Christmas Party Potluck Meeting

Continued from page 21



Paul (WA7GVIL) selecting the Christmas Stocking.



Ron (K7HDX) selecting the Inovato Mini Computer.



Ann (KJ7OGZ) selected one of the Baofeng HT Radios.

Continued next column



Brant (KJ7LTQ) took the 2nd Baofeng HT Radio.



Caleb (KE8OYI) selected the wire antenna.



Lance (KA7J) took one of the Ammo Boxes.

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Successful Shakeout 2023 Exercise and Winlink DYFI Reports

The Shakeout 2023 exercise was an extremely successful demonstration of worldwide amateur radio, CISA SHARES, and Air Force MARS operators providing "ground truth" reports to USGS during a simulated earthquake. Over 1,500 reports were submitted through the Winlink system using the "Did You Feel It" (DYFI) form developed by the Winlink team in cooperation with the United States Geological Survey (USGS.) Reports were received from the US, several European countries, Philippines, Australia, and New Zealand. The reports were sent directly to USGS and distributed to several other agencies including South Carolina Emergency Management Agency, which generated maps and reports for FEMA.

The DYFI reports were processed by the Winlink Express program, which has built-in capabilities for analyzing and mapping many types of reports. The reports were displayed on a map generated by Winlink Express with markers indicating the severity of the earthquake.

Winlink Express also wrote real-time updates to a comma separated value (CSV) file which was used by ArcGIS® and other third-party GIS programs to generate additional maps, charts, and reports.

The locations of reports shown on Winlink Express maps and passed to third-party GIS programs were very accurate. To achieve maximum accuracy, Winlink Express uses a hierarchy of methods for determining the position:

3. The user explicitly specified latitude and longitude (not a default value)
4. GPS position from form or message header (inserted automatically by Winlink Express)

1. Google street address lookup to determine latitude and longitude
2. If no user-specified or GPS location, and the street address is not valid (for example, street address but no city or state), then user's grid square.

Using the grid square is less accurate than GPS or address lookup, but it shows the neighborhood where the report was submitted, rather than discarding the report due to lack of location.

Some additional checks were applied to reported positions. If a user-specified location was provided by someone with a North American call sign (US, Canada, Mexico), and the longitude was positive indicating Eastern Hemisphere, an address lookup was used in preference to the submitted position, because there was a high likelihood that the user got the sign of the longitude wrong. This procedure corrected the location of approximately a dozen reports.

An analysis was done of the positions determined by the hierarchical processing to see how closely they compared to the street address location. This is a summary of the distance between positions derived by Winlink Express and the reported street address:

Distance ≤ 33 feet: 93.70%

Distance ≤ 50 feet: 95.19%

Distance ≤ 100 feet: 96.32%

Distance ≤ 200 feet: 97.95%

Distance ≤ 500 feet: 98.66%

In 93.7% of the cases, the position was within 33 feet (10 meters) of the street address, and 98% of the time the difference was within 200 feet.

The location difference does not imply an error: The GPS position may be 50 feet from the street address location, but the GPS position may give a more precise location of the sender. A difference of 50 feet could be due to which room in a house the report was submitted from.

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RCARC December Christmas Party Potluck Meeting

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Maddie (KK7FLL) selected the Wrapped Gift.



Tony (KC6WFI) took the 2nd Ammo Box.



Ken (N7KM) selected the antenna coax A/B switch.

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Merlin (N7TCE) selected one of the Emergency gas, water shut off tools.



Ron (K7HDX) selected the 2nd Christmas Stocking for LEE (K7NKH) who was not present.



Sonia (KD6HYH) selected the Jpole Antenna from K&M Antenna's

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RCARC December Christmas Party Potluck Meeting

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George (AL7BX) selecting one the Emergency utility shut off tools.



Dennis (W6DLW) took the other Antenna Mount Adapter.



Linda (KG7PBX) taking the PC carrying case with current US Amateur Radio Bands on the cover.



Kevin (W0KLH) selected the tool carrying bag.



John (K17SCX) selecting one the Emergency utility shut off tools.



Bonnie (K17WEX) selected one of the Nagoya HT Whip (NA771) Antennas.

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Continued next column

RCARC December Christmas Party Potluck Meeting

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James Moore (KG7VEI) selecting the last Emergency utility shut off tools.



Terry West taking the last Nagoya HT Whip (NA771) Antenna.



Fred (K17TPD) selected one of the two Baofeng HT Microphones.

Continued next column



Bruce (K17LUM) selected the last Baofeng HT Microphone.

Congratulations to all the winners

Drawings over and members are enjoying the Christmas Potluck Feast



The room just got very quiet.



Another view of members enjoying dinner.

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Iron County's CERT and RCARC EComm Unit Christmas Party

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Members and families enjoying dinner.



Dinner and good company.



Everyone seems to be enjoying themselves.

Continued next column



Just another view



The Dessert Bar.



The whole Buffet Layout.

George thank you for your generosity and making this dinner possible for the volunteers.

RCARC December Christmas Party Potluck Meeting

Continued from page 27



The back row with Benjamin (W9YNK) and Caleb (K8OYI) in conversation.



Additional members enjoying the Potluck.



The final row enjoying the festivities

Continued next column



Brian (KD7NSH) and Family enjoying the event.



The gangs all here.

