

RAINBOW CANYONS AMATEUR RADIO CLUB NEWSLETTER CEDAR CITY, UTAH



Club Website: www.rcarc.info Number 5 – Vol. 11 – November 2023

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.

2023 Club Officer's

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CQ, CQ, Happy Halloween



Presidents Message

Dear Fellow Amateur Radio Operators,

Fall is definitely here with much cooler temperatures and lots of colorful leaves! This has been a busy month. We had a very interesting talk on what to do in an active shooter event for our October meeting and we had a fox hunt. For November we have the Iron Mission Days Special Event coming up on November 10 and 11 at the Frontier Homestead state park. Please volunteer to help if you can and thank you to those who volunteer for these events!

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.

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

November 14, 2023

RCARC Club Meeting.

7:00 pm. Cedar City Senior Center,
489 E. 200 South. [Mel Parks, Utah
VHF Society Intertie Radio System
Update.](#)

December 12, 2023

RCARC Club Meeting.

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

January 9, 2024

RCARC Club Meeting.

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

February 13, 2024

RCARC Club Meeting.

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

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

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)

Reminder

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 November**

Happy Thanksgiving

Breakfast Net		Friendship Net		
First Place	Third Place	First Place		Third Place
K2MFK - Kevin	KI7SCX - John	K7WEP - Paul	N7SIY - Sylvia	KK7FLL - Maddie
K7ZI - Dick	KI7WEX - Bonnie	K7ZI - Dick	N7WWB - Darlene	
KG7PBX - Linda	KI7TPD - Fred	KG7VEJ - Jack	W0KLH - Kevin	
KK6FLO - Dave		KA7J - Lance	Second Place	
		K7HDX - Ron		
		W9YNK - Benjamin	K7NKH - Lee	
Second Place		KE8OYI - Caleb		
N7SIY - Silvia		KI7ZLVB - Tammy		
KZC6ZIM - Johnny		KI7LVC - Tim		
		KI7LTQ - Brant		

**Rainbow Canyons Amateur Radio Club
Treasurer Report Oct 10, 2023**

Bank balance Sept 30, 2023	\$1,128.03
Deposits	+ 00.00
Expenses	
Rocky mountain Power (due 10/16/2023)	- 20.95
Funds available as of Oct 16, 2023	\$1,107.08

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

RCARC Upcoming Events

- November 4, 2023 – RCARC Breakfast at the Colden Corral, 1379 South Main Street.
- November 9, 2023 - Southwest Utah Public Health Coalition ESF8 Communications Exercise.
- November 11, 2023 – Cedar City, Iron Mission Days
- November 14, 2023 – RCARC Club Meeting. Mel Parks to give update on the Utah VHF Society and Intertie System.
- December 12, 2023 RCARC Club Meeting Christmas Party.

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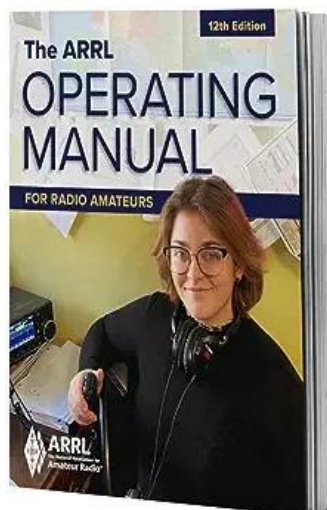
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RCARC Book Giveaway.
Books are donated by
Linda Shokrian
(KG7PBX)

Shown below is the book that will be given away at the November 14, 2023 meeting.



The Book below was given away to
George Gallis (AL7BX)
at the October meeting



Congratulations George

See Pic on page 18

Contact Us.

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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

Reminder

There will be not be a book giveaway at the December 12, 2023 RCARC Club Meeting



Buzz's September Safety Tip(s)



1. Stay in the kitchen when you are cooking on the stove top so you can keep an eye on the food. Stay in the home when cooking your turkey, and check on it frequently.
2. Keep children away from the stove. The stove will be hot and kids should stay three feet away.
3. Make sure kids stay away from hot food and liquids. The steam or splash from vegetables, gravy or coffee could cause serious burns.
4. Keep knives out of the reach of children.
5. Be sure electric cords from an electric knife, coffee maker, plate warmer or mixer are not dangling off the counter within easy reach of a child.
6. Keep matches and utility lighters out of the reach of children — up high in a locked cabinet.
7. Never leave children alone in room with a lit candle.
8. Keep the floor clear so you don't trip over kids, toys, pocketbooks or bags.
9. Make sure your smoke alarms are working. Test them by pushing the test button.

Continued next column



Have activities that keep kids out of the kitchen during this busy time. Games, puzzles or books can keep them busy. Kids can get involved in Thanksgiving preparations with recipes that can be done outside the kitchen.

Top 5 Thanksgiving Safety Hazards

- **Fire** – More than 4,000 home fires take place Thanksgiving Day in the United States, and most of those start in the kitchen. To help prevent fire in your home on Thanksgiving, never leave food cooking unsupervised, keep children away from the stove, and make sure the floor remains free of anything that could cause tripping. And of course, make sure fire alarms are in working order.

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Thanksgiving Safety Tips

Continued from page 5

Food – Choking and food poisoning are two of the biggest hazards regarding food, and their potential only increases at Thanksgiving when most people consume more food than usual. Prevent these scary and uncomfortable events by taking time to enjoy food instead of eating quickly, following safe handling and cooking guidelines for meat, and knowing what to do should a food-related emergency occur.

Travel – About 91% of Thanksgiving travel takes place by car, and over 20 million people travel by airplane. Since Thanksgiving is one of the most travel-heavy times of the year, it is also one of the most likely for accidents and other challenges experienced when travelling. When traveling by car, make sure your vehicle is well-maintained, plan your route ahead of time, and be prepared with an emergency kit. For air travel, allow extra time to get to your gate, get plenty of rest to help you stay patient in the crowded airport, and be sure to pack for quick on and off to avoid spending time in lines and at the luggage carousel. And, regardless of method of travel, always stay aware of weather conditions.

Pets – If you add pets to an already busy house during a Thanksgiving get-together, you may just create a recipe for disaster. To avoid this, make sure everyone knows not to feed scraps to your pets, keep your pets out of the kitchen, and perhaps put pets in a closed bedroom if they seem overwhelmed.

Continued next column

A loving pet owner makes sure to understand the possible hazards involving their beloved family member and does what is necessary for ensuring everyone's safety and wellness where pets are concerned.

Black Friday – Safety on Black Friday involves not only having a shopping plan and remaining patient in the chaos, but also realizing that more shoppers out also means more thieves are out too. Keep yourself and your purchases safe by using the buddy system, by not overloading yourself when walking to the car and by being mindful of who sees your credit card. In addition, make sure purchases are always out of sight in your vehicle and that children are always within your sight in the store.

Taking some time to organize and plan, along with dosing up on common sense, goes a long way in creating a safe environment for you and your family during the Thanksgiving Holiday. While you cannot control others, you can decide for yourself to put together the right mix for a safe time, whether eating or shopping. Doing so will help make sure the holiday remains thankful instead of full of regret.



Sappy Thanksgiving



RADIO NEWS

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

EDITORIAL AND GENERAL OFFICES, 33 PARK PLACE, NEW YORK

Vol. 5

NOVEMBER, 1923

No. 5

Amateur Radio

THE word amateur in its relation to wireless—now Radio—was probably used first by the writer in his magazine—MODERN ELECTRICS—the pioneer radio publication—in the April, 1908 issue. At that time there existed practically no radio amateur, as we understand the term today, in America, and for that matter anywhere else in the world. At that time the radio amateur was an experimenter who either sent or received wireless code. In those early days, everyone who dabbled in wireless was an amateur. It mattered not if you had only a coherer set to receive the code with or whether you had a sending and receiving outfit capable of transmitting and receiving messages for one or two miles. Everyone who delved into wireless as a pastime with no intention of deriving profit from his hobby was an amateur.

During the past few years the status of the radio amateur has changed somewhat. No longer is the modern amateur willing to sit in his attic and listen to commercial code messages from ships, land stations, and other commercial stations, which 20 years ago embraced practically all of the radio traffic. The modern amateur has become a world unto himself. He has his 5- or 10-watt well designed and sharply tuned tube transmitter and he sends code to his fellow amateurs, hundreds, and even thousands of miles away, bridging even the Atlantic and the Pacific. He sends and receives only private amateur messages and is not at all interested in commercial messages. He is also luke warm towards listening to broadcasting stations and if he is a dyed-in-the-wool, honest-to-goodness amateur, he never publicly admits that he has ever listened to a broadcast concert. This is below his dignity.

The modern amateur sends and relays messages to his friends across the continent and assists wherever possible the authorities for the welfare of the community. In some instances, radio amateurs have been instrumental in apprehending thieves of stolen automobiles; he has helped telegraph companies to handle traffic when the wires were down; and can usually be relied upon to do his share when the country is in danger by war or when a catastrophe occurs. Indeed, if there had been many Japanese amateurs—which we are sorry to say there were not—a good many lives and untold distress could have been avoided, if the non-existing Japanese amateurs could have been pressed into service to transmit intelligence when there was no other way to transmit it.

We are quite confident that if such a national cataclysm had occurred anywhere in the United States, the American amateur would have responded on a grand scale to bring order out of the chaos.

Like radio itself, the radio amateur is also changing and will continue to change to keep up with the tendencies of the times. The last year has turned the radio art completely topsy turvy, and a new order of amateurs is arising in the vastly increased field of radio. We now have a distinct class of new amateurs, which perhaps can be better termed "radio experimenters." This new crop of devotees to the art are not at all interested in code or relay work and do not care about transmission or reception of code. Nor are these people just BCL's (broadcast listeners), but they are serious minded workers. They are known mainly for building myriads of receiving sets and as quickly as a new set is described in literature, the experimenter will usually build it over night. The writer knows of a banker who has no less than 18 sets of the latest types from the Reimartz down to the Neutrodyne, and these outfits are not make-shifts. They are all carefully built. Wiring is done with bus bar wire and the connections are soldered,

and many a manufacturer would be proud to turn out any one of these 18 sets. This man is by no means an exception. He is present in every community, and he knows his business. He is not only an experimenter, but he knows the theory of a vacuum tube and knows all about amplification and has a few hook-ups of his own that have not been published anywhere. To be sure, quite a host of broadcast listeners become regular amateurs who have stations to transmit and receive code and do relay work. But we believe that the new order of radio experimenters of today vastly outnumber the orthodox radio amateur as we know him.

In talking to a number of these new radio experimenters, we have ascertained that they have no interest in code work at all and as a matter of fact do not believe in it. If, however, they could use the radio telephone, they would not be averse towards using it as a means of communicating with friends or acquaintances.

Personally, the writer thinks that the day is coming when the two classes, the radio amateur and the radio experimenter, will be amalgamated into one large class, the extent of which can only be dimly foreseen to-day. Already, if you are awake after eleven o'clock in the evening and tune down to 200 meters, and if you happen to live in a large center, you will hear not only one, but dozens of amateurs conversing with each other by radio telephone. Every radio amateur, who has a tube transmitter can send radio telephone messages as well by the simple addition of a \$2.00 microphone. Indeed the amateurs themselves are waking up to the fact that for short distance work the radio telephone is more satisfactory than code, and while amateurs have been able to send radio telephone messages for over a thousand miles, such distances are considered freak work. Over a radius of 50 miles, however, the radio telephone is becoming very popular with the amateur. This, by the way, the writer foreshadowed in his editorial in the December, 1919 issue of RADIO NEWS. The advantage of the radio telephone, particularly for short distance work, is that radio telephone messages can be transmitted more rapidly than code—at least three or four times as fast.

If the amateur were to resort to loop transmission on wavelengths of 150 meters and upwards, he would do away with quite a good deal of interference because the transmitting wave would then be directive. (An article on loop transmission appears in this issue.) Of course, at the present time, it is not as yet feasible, nor practical, for all amateur traffic to switch over to the radiophone, but sooner or later, this will come about. At the present time, the Department of Commerce insists that every licensed amateur, quite rightly, must pass an examination, and no license is issued unless the amateur is proficient in sending and receiving code. We believe, however, that this ruling, as soon as the radiophone becomes sufficiently popular, will be modified, and the time will come when any radio enthusiast can rig up his sender and call up friends at his pleasure and converse with them. It probably will consume 5 to 10 years to make this transition.

This does not mean that code will go out of use entirely. The invention of the telephone did not displace the telegraph. For certain purposes the amateur will always resort to code where greater accuracy and range are desired, but we believe that in the radio amateur world, the proportion of code to phone traffic in time will be in the proportion of the wire phone messages to the telegraph messages. And as every one knows, there are over 10,000 phone conversations to one telegram.

H. GERNSBACK.

RCARC October RCARC Breakfast Pic



Eclipses do odd things to radio waves. An army of amateur broadcasters wants to find out why

The below URL was submitted by Brad Biedermann (WA7HHE)

<https://www.bbc.com/future/article/20231005-eclipses-do-odd-things-to-radio-waves-to-learn-more-an-army-of-american-amateurs-will-broadcast-during-the-next-ones>

Reminder

Mel Parks, Utah VHF Society will be at the next RCARC Club Meeting to report on the Intertie Radio System,

ARRL Urges Comments to FCC on 60-Meter Band – See related story on page 14.

The ARRL is asking that all radio amateurs urge the Federal Communications Commission (FCC) to continue the existing use of the 60-meter band. A public comment period is open until October 30, 2023. ARRL encourages expressions of support to the FCC for the current 100 W ERP power limit (instead of reducing the power limit to 15 W EIRP) and continuing secondary access to the current channels.

To submit a filing of your comments for the FCC's consideration in the rulemaking process, go to the FCC web page for the Notice of Proposed Rulemaking's (NPRM) Docket Number 23-120 at, <https://www.fcc.gov/ecfs/search/docket-detail/23-120>.

If you wish to directly enter your comments, select the button labeled SUBMIT AN EXPRESS FILING at, <https://www.fcc.gov/ecfs/filings/express?proceeding5d=23-120>.

If you are uploading a document that contains your comments, select SUBMIT A STANDARD FILING at, <https://www.fcc.gov/ecfs/filings/standard?proceeding5d=23-120>.

When submitting your comments, be sure the correct proceeding's docket number, 23-120, is included on the form. Your name and comments will be entered into the official public record of the proceedings and will be viewable by anyone who visits the docket web page.

While radio amateurs are encouraged to include any comments they would like in their submissions, they're especially encouraged to draw upon their personal experiences using the 60-meter band for public service purposes and for its location between the amateur 80- and 40-meter bands, which is critical to ensuring signal propagation to certain geographic areas during variations in time and the solar cycle.

Some of the main points to comment on for this NPRM are:

* Urging the FCC to keep the four existing channels allocated to amateur radio on a secondary basis.

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RCARC October Membership Meeting and Presentation Pic's



Members and guests arriving for the meeting.



Member citing the Pledge of Allegiance.



Fred (K17TPD) bringing the meeting to order.

Continued next column



George Gallis (AL7BX) giving the local repeater report.



Johnny (K7ZZQ) giving a report on Ham Zion. See article on page



Ron (K7HDX) reporting the October 4th Emergency Alert System Exercise.

Continued on page 11

ARRL Urges Comments to FCC on 60-Meter Band

Continued from page 8

* Urging the FCC to keep the 100 W power limit for the four existing channels and the new 15 kHz sub band.

ARRL Public Relations and Outreach Manager Sierra Harrop, W5DX, underscored the importance of commenting, urging members to speak up. "ARRL members make up the strongest voice in matters of amateur radio spectrum defense," said Harrop. "Your membership and participation in the rulemaking process both ensure ARRL continues to make the difference when our band privileges are threatened.

Please join us in effort to protect our 60-meter band privileges."

ARRL Launched the NTS Newsletter Last Month

There's a new newsletter in the ARRL repertoire. The first issue of [The NTS Letter](#) was published on October 3, 2023. The NTS Letter is a monthly digest of all things related to the ARRL National Traffic System®. It is edited by Marcia Forde, KW1U, who is a veteran traffic handler and serves as the Section Traffic Manager for the ARRL Eastern and Western Massachusetts and Rhode Island Sections.

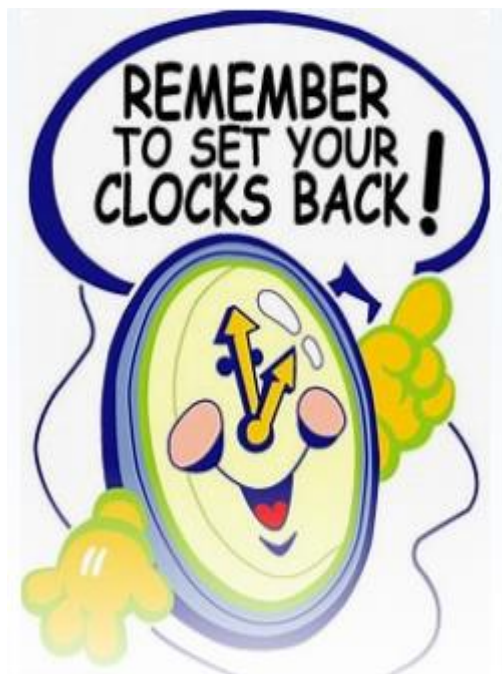
The NTS is network that allows for rapid movement of messages, referred to as "traffic," from origin to destination, and for training amateur operators to handle written traffic and to participate in directed nets. The network consists of the layering and sequencing of both voice and CW traffic nets, as well as a digital system that operates 24/7.

This nationwide system operates 365 days a year, generally relaying routine message traffic for training purposes and for maintaining readiness if called upon in an emergency. If called upon, these operators stand ready to assist emergency communications personnel and served-agency partners in relaying welfare and other messages. It is the modern continuation of the historic "radio relay" from ARRL's founding in 1914.

Continued next column

Director of the ARRL New England Division, Fred Kemmerer, AB1OC, said the NTS is a great way to get involved in emergency communications. "Newly licensed and experienced amateurs alike who participate in NTS find satisfaction and enjoyment in learning the skills of sending and receiving concise written voice and CW traffic in an organized, on-air network. It's a natural complement to the skills and training one needs to become an effective emergency communicator and Amateur Radio Emergency Service® volunteer. Plus, it's an opportunity to meet new friends, and it's fun!" said Kemmerer.

[The NTS Letter](#) is published monthly and is free of charge to ARRL members. Members can subscribe at arrl.org/opt-in-out by selecting "edit" to view all of their subscription preferences (members need to be logged in to their ARRL website account to do this). End.



You may or may not be ready but "Daylight Savings Time" for 2023 ends in just a few days.

To be exact it will fall back 1 hour at 2:00 am. on Sunday November 5, 2023

RCARC October Membership Meeting and Presentation Pic's

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Dick (K7ZI) updating the group on the upcoming November 10-11 Iron Mission Days Event.

Presentation

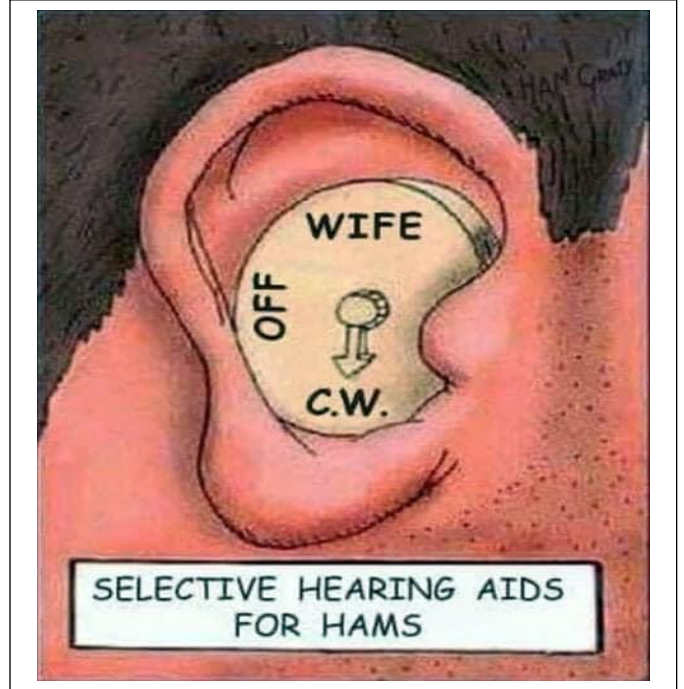
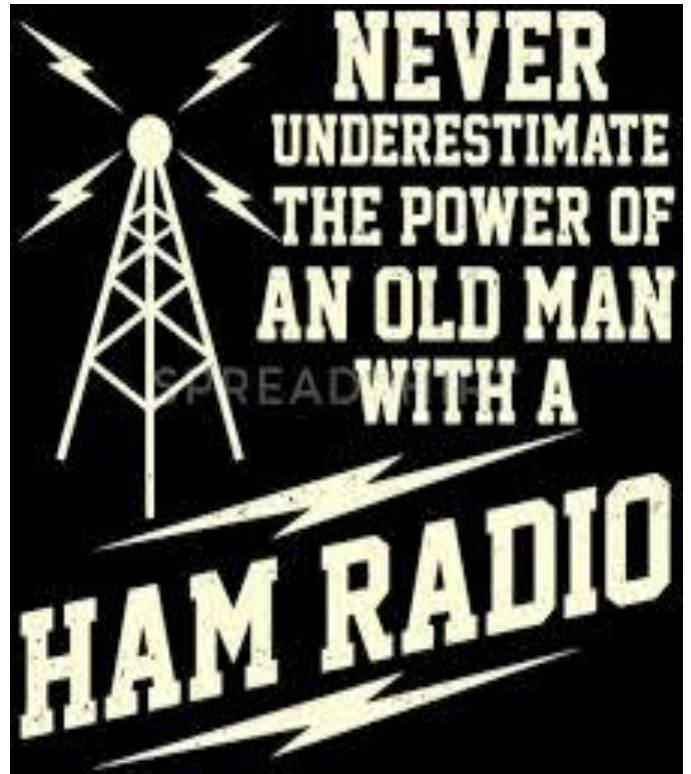


Scott McIntyre (Retired LA PD Detective) presenting what to do during an Active Shooter Incident.



Scott asking what does an active shooter have in common with fire. They both need fuel, oxygen and heat to function.

Ham Radio Humor



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

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

On Thursday November 9, 2023 E-Comm. members will staff the Radio Communication Room at Cedar City Hospital and Southwest Utah Public Health Department (SWUPHD) to assist in the exercise.

See follow up story in the December 2023 Newsletter next month. End

Let's Talk About Water

Over the next 12 months Southwest Utah Public Health Department (SWUPHD) will be sharing the 12 Areas of Preparedness found in Be Ready Utah. They have some great resources. And along with SWUPHD website; <https://swuhealth.org/preparedness-resources/>, there are many ideas to help you become more prepared.

This month, let's talk about WATER: <https://beready.utah.gov/family-preparedness/12-areas-of-preparedness/water/>

Don't let it overwhelm you. Take small steps if you need to, to build your kits, pantries, cars and homes. Just keep moving forward. You can do this!

Please check out the above URL for the preparedness information.



FCC to Vote on Removing Symbol Rate Restrictions

ARRL welcomes news of a scheduled vote by the Federal Communications Commission (FCC) to [consider removing symbol rate restrictions](#) that restrict digital modes, foster inefficient spectrum use, and dampen incentives for innovation.

In the draft Commission decision, the FCC would replace the current HF restrictions with a 2.8 kHz bandwidth limit. The Commission also announced that it will consider a Further Notice in which it will propose eliminating similar restrictions where they apply in other bands and consider relying on signal bandwidth limits. If both actions are adopted by the Commission, there will be a period for public comment on the Further Notice issues.

In announcing the proposed Commission actions, FCC Chairwoman Jessica Rosenworcel said that "We're bolstering amateur radio. We will vote on a proposal to incentivize innovation and experimentation in the amateur radio bands by removing outdated restrictions and providing licensees with the flexibility to use modern digital emissions."

ARRL requested and strongly supports replacing the symbol rate limits on the HF bands with a 2.8 kHz bandwidth limit. ARRL also supports eliminating the symbol rate limits in favor of the already-existing bandwidth limits where they apply on the VHF and UHF bands and eliminating the similar limits 2200 and 630-meter bands.

ARRL Director of Emergency Management Josh Johnston, KE5MHV, said the changes will result in a tremendous time savings during disasters, when every second counts.

"We will be very pleased to have the FCC remove the restrictions on symbol rate for the amateur bands.

Continued on page 16

Wow, what a great deal!

For Sale



Yaesu FT- 890 HF Radio w/ Manual and hand mic
LDG AT 200 Pro Autotuner
Heil HD-5 Microphone with cable for the 890 and stand
Asking \$500.00
Contact Kevin Kilcoyne (K2MFK) text or call 626.945.0441

Give Kevin a text or call

RCARC EComm Members Meet

On October 19, 2023 Ron (K7HDX) brought the meeting to order at 5:30 PM

Under Old Business:

The ICS 100 Class, Winlink Demo and Electromagnetic Pulse Presentation (EMP) were deferred until next year

Installation of Antennas and Radios at the EOC placed on hold until George Colson can be consulted. Antenna suggestions: HF end fed ½ wave 10-80 meters inverted V (NVIS) around \$173.

New Business:

In regards to the EComm and Antenna Trailer's maintenance/readiness lead person search the EComm trailer was tabled until a later date. Bruno (KG7VFN) has offered to fill the antenna trailer lead person position.

Brad (WA7HHE) will be upgrading software on computers in the EComm Trailer.

Other Business:

Cedar City Iron Mission Days is just around the corner the date and time: Friday Nov. 10 to Saturday Nov.11. Setup will take place on Thursday Nov. 9 at 3:00 pm.

Hours of radio operation are Friday 9:00-5:00 pm. and Saturday 9:00-3:00pm for radio operations with take down at 3:00 pm.

Radio Coverage: Signup sheet for on the air operator and logger (will be passed out at the next RCARC meeting).

POTA

Radio Bands: 10, 20 and 40 with FT8 on 10 Meters.

Southwest Utah Public Health Coalition ESF8 Communications Exercise.

SWUPH ESF8 Communications Exercise will be held on November 9, 2023 starting at 9:00 am. Utilizing 146.760 (Iron Mountain) as the primary frequency. End.

ARRL Call to Action: FCC & 60 Meters

The FCC has issued a Notice of Proposed Rulemaking (NPRM) Docket Number 23-120 which would reduce power on 60 meters from 100 watts ERP (Effective Radiated Power) to the equivalent of 9.5 watts ERP. The NPRM would replace the current five channels (currently each with a 100-watt power limit) with a 15 KHz continuous spectrum from 5351.5 to 5366.5 KHz, but limiting power to the equivalent of 9.5 watts ERP. ARRL is proposing to keep the current five channels AND add the docket's proposed 15 KHz of continuous spectrum, all at a power level of 100 watts ERP.

It's important to note that in 2022 our neighbor, Canada, enacted ARRL's position by keeping the five current channels AND adding the expanded 15 KHz of continuous spectrum, all at 100 watts. ARRL is advocating for the FCC to adopt the identical allocations and power limits which Canada put in place over a year ago.

When the FCC authorized 60-meter access for Amateur Radio operators in July 2003, the Commission cited the positive propagation attributes for emergency communications. Over the past twenty years during hurricanes, Caribbean Amateur Radio stations used 60 meters to relay critical weather and situational reports to U.S. operators. Clearly, 9.5 watts ERP would be woefully inadequate to maintain communications for these purposes.

In the May 2023 ARRL survey, members overwhelmingly pointed to Spectrum Defense as the #1 priority of the League. The Rocky Mountain Division takes this priority seriously. For the maximum impact, the FCC needs to hear from ARRL members to underscore the importance of 60 meters. Having a consistent band plan with Canada will also ensure harmonious communications throughout most of North America.

PLEASE support the ARRL's filing in this matter. To learn more about the NPRM and its impact on our 60-meter privileges, please visit <https://www.arrl.org/60-meter-band> . On this webpage you will find the links to file comments with the FCC. Please don't delay. A substantial response from the Ham community before the October 30 deadline is the only way to forestall the loss of our valued operating privileges. Please urge your fellow Hams to file comments as well. Protection of our Amateur Radio spectrum is our number one priority.



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

Hello everyone, Buzz here with a reminder that the RCARC will be taking nominations for the coming year 2024 club officers at the November 14, 2023 meeting.

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

Once the slate of nominations is in place members will have a chance to vote for their favorite nominee at the December 2023 Membership Meeting.



Give Thanks

ARIZONA DESERT AIRE WAVE

Provided by Riki Kline - K7NJ

The Arizona Desert Aire Waves is published monthly and is the official news media of the participating clubs.

Please find attached the November edition of the Arizona Desert Aire Waves along with a file of flyers for upcoming events.



November 2023.pdf HamfestFlyers-Rd.pdf

Check out the above URL's



Using Amateur Radio to Play Chess

Playing chess using amateur radio? The concept may have begun in 1912 when a group of college students from Case Western Reserve University (CWRU) wanted to challenge chess players at The Ohio State University (OSU). Though the official origin is still debated, clippings from a 1912 issue of *The Case Tech*, one of CWRU's former student newspapers, reveal that the challenge was made when the CWRU Wireless Club procured a Morse code transceiver.

Faculty Advisor to the Case Amateur Radio Club, W8EDU, David Kazdan, AD8Y, said there are no official records of the match, so the challenge was re-proposed this year by the [Case Amateur Radio Club](#). With the help of [OSU's Amateur Radio and RF Club](#), W8LT, the game was on.

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Frequency Privileges in Ham Radio

Whether you are a new Ham Radio Operator or more experienced veteran listed below are frequency privileges by classification.

Technician Class

As a Technician licensee, you have free access to all amateur frequencies above 50 MHz, but what about on the shortwave high-frequency (HF) bands? This chart will help you follow the rules.

Band	Frequencies (in MHz)	Modes you can use
80 Meters	3.525-3.600	CW
40 Meters	7.025-7.125	CW
15 Meters	21.025-21.200	CW
10 Meters	28.000-28.300	CW, RTTY/data, 200 watts PEP maximum power.
10 Meters	28.30-28.500	CW, phone, 200 watts PEP maximum power.

Above 50 MHz - All amateur privileges
 CW=Morse code; PEP=peak envelope power;
 RTTY=radioteletype.

General Class

Soon, if you haven't done so already, you'll be thinking about upgrading to General class. You have many more frequencies to use on the high-frequency (HF) bands.

Band	Frequencies (in MHz)	Modes you can use
160, 60, 30 Meters		All amateur privileges
80 Meters	3.525-3.600	CW, RTTY, data
80 Meters	3.800-4.00	CW, Phone, image
40 Meters	7.025-7.125	CW, RTTY, data
40 Meters	7.175-7.300	CW, phone, image
20 Meters	14.025-14.150	CW, RTTY, data
20 Meters	14.225-14.350	CW, phone, image
15 Meters	21.025-21.200	CW, RTTY, data
15 Meters	21.275-21.450	CW, phone, image
17, 12 10 Meters		All amateur privileges

Above 50 MHz All amateur privileges.
 CW= Morse code; RTTY= radio teletype.

Extra Class

Extra Class licensees have all amateur privileges across the spectrum.

A complete chart of the U.S. frequency and mode privileges for all license classes is available from the [American Radio Relay League \(ARRL\)](#). End.

FCC to Vote on Removing Symbol Rate Restrictions

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This will eliminate the need for temporary waivers during an event and provide the ability to train and exercise using the higher symbol rate, allowing increased data capability to our served agencies and partners."

[Congresswoman Debbie Lesko \(AZ-08\)](#) introduced [The Amateur Radio Communications Improvement Act \(H.R. 3241\)](#) on May 11, 2023, to require that the FCC eliminate the obsolete HF digital symbol rate limit with a 2.8 kHz bandwidth limit.

The Congresswoman subsequently addressed the issue with Chairwoman Rosenworcel in a Congressional oversight hearing. The changes are supported by many state emergency management officials.

ARRL will continue to engage on this matter. End.



Happy Thanksgiving

Mentorship through An Antenna Build

After Field Day 2023, the Candlewood Amateur Radio Association (CARA) determined that it would be best to use a dedicated 80/75-meter dipole, rather than the multiband off-center-fed antenna that had been used previously. This would give the club dedicated antennas for 80, 40, 20, 15, and 10 meters. Dan Fegley, W1QK, suggested that the antenna be built with a single pole knife switch so it would be shorter for the SSB section of the band. It was decided to have the switch around 3.9 MHz, as well as 3.55 MHz (the desired CW portion of the band) for the full length of the antenna when the switch is closed. Working measurements were calculated, and a preliminary sketch was made for the antenna. The antenna will be used for ARRL Field Day and Winter Field Day and be put up as an inverted v.

A while back, ARRL Connecticut Section Technical Coordinator Steve Simons, W1SMS, shared that he would like to host some sort of technical hands-on activity at his house. John Ahle, W1JMA, suggested having a build project for this antenna on August 12 from 1 to 3 PM. Invitations were sent to CARA club members and other hams from surrounding clubs that had expressed an interest in antenna building. Materials for the project were obtained, and prior to the event, John and Steve shot lines over trees to evaluate the antenna and settled on how the knife switch would be employed in the construction.



CARA members gather around the wire counter. [Stephanie Fuda, photo]

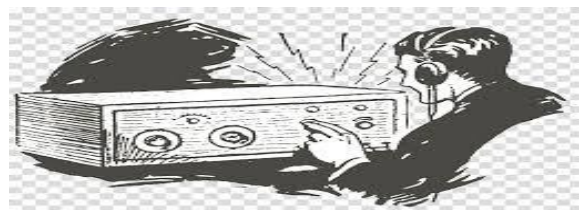
About a dozen CARA members and other local hams arrived at Steve's for the build. After an hour delay from the rain, the project began. The first steps were to explain the concept of the antenna, as well as the working calculations and design. Wire was measured and cut for each leg of the dipole for the 3.9 and 3.55 MHz sections. The wire was soldered to the center insulator, and the end insulators were temporarily put on the antenna so we could evaluate the SWR for the SSB section.

Steve had several instruments that could be used for SWR measurements, including an MFJ-269 antenna analyzer, an Array Solutions AIM-UHF vector network analyzer, and a newly purchased NanoVNA. Most measurements were conducted using the AIM-UHF, as its control software enabled an immediate scan and display of critical parameters over a defined frequency range. The antenna was hoisted as an inverted v and measurements were taken.

The antenna was too long! The first of many lessons learned was that when a dipole is in an inverted-v formation, the calculations will be 2 - 5% less than the standard flat top calculations. After several cuts were made, we were satisfied with the lowest SWR at 3.86 MHz. The knife switch and remaining wire were soldered, measurements were taken, and the wire was cut to get the CW portion to 3.5 MHz.

The antenna was completed by around 4 PM, and contacts were made with stations in Vermont, New Hampshire, and Maine. All who participated were happy with the results; the work areas were cleaned up and then many participants stayed for a BBQ.

By Dan Fegley, W1QK



HAPPY THANKSGIVING EVERYONE

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Using Amateur Radio to Play Chess

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It started on September 26 as a round-robin tournament with other schools and is now moving into an elimination phase. The setup is the same as any chess game except the players are in different locations.



Case Amateur Radio Club, W8EDU members and Case Western Reserve University Chess Club members (left to right) Jonah Barnett, KO6BGI; Duncan Lu; Andrew Stappenbeck; Zach Baldwin, KE8ZDJ and Tobias Heller KE2BWU playing HAMCHESS. [Adam Goodman, W7OKE, photo.]

Chess moves are relayed over the air either by voice or Morse code.

CWRU started the tournament strong with a win against Rensselaer Polytechnic Institute (RPI), but they lost the long-anticipated game against OSU.

W8LT President Arvcuken Noquisi, KE8MXF, said the tournament is a series of test games to determine the best way to incorporate amateur radio into what is now referred to as HAMCHESS.

"Now we are using EchoLink through a Cleveland, Ohio, repeater with algebraic chess notation relayed by voice," said Noquisi. "In the future, each chess team will determine what method works best for them based on skill level and participation."

Noquisi added that blending the school's chess and amateur radio clubs makes for a great campus experience and opportunity for community involvement.

W8EDU President Adam Goodman, W7OKE, said collegiate amateur clubs are still recovering from the COVID-19 pandemic, and HAMCHESS is a great way to reenergize amateur radio clubs and involve other college organizations.

In 1945, the United States and the USSR squared off in a radio chess tournament using CW. In the 1980s, Chess and Amateur Radio International, a club with more than 200 members, used 20-meter SSB in a match between five US players and five players in Oceania, a geographical region spanning the Eastern and Western hemispheres.

Today, more than a dozen college amateur radio and chess clubs are participating in HAMCHESS events. College and university radio clubs, including those participating in the chess tournament, regularly network with each other through the Program. End.

October RCARC Meeting Book Winner George Gallis (AL7BX)



Continued next column

