

RAINBOW CANYONS AMATEUR RADIO CLUB NEWSLETTER



CEDAR CITY, UTAH

Club Website: www.rcarc.info Number 5 – Vol. 9 – September 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 Labor Day



Presidents Message

Dear Fellow Amateur Radio Operators,

It has been a hot/rainy and busy Summer! Our August BBQ was a great success and it was wonderful to see everyone out at the BBQ gathering. It is always great to see how enthusiastic and passionate everyone is and how willing everyone is to help out our fellow members. A big Thank you to Brody (K7VXV) and Terry West for helping with the cooking and to everyone who participated by bringing food and helping with set up and clean up. We have an interesting lineup for our next meeting and will have the Iron County Search and Rescue presenting at our September meeting.

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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

September 12, 2023

RCARC Club Meeting.

7:00 pm. Cedar City Senior Center,
489 E. 200 South. [Iron County
Sheriff's Search & Rescue
Presentation.](#)

October 10, 2023

RCARC Club Meeting.

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

November 14, 2023

RCARC Club Meeting.

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

December 12, 2023

RCARC Club Meeting.

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

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

I hope everyone has been getting out on the radio! Have fun, and play on your radio. As we move into Fall the temperatures will be falling and you might want to get out a bit more. Remember if you need help with setting up your radio, software or other equipment please ask your fellow HAMs for help. Part of the fun is helping others! As always, I would like to thank everyone who makes our meetings great by asking questions. I would also like to thank all of our net controls for the nets and everyone who participates!

Cheers

Fred (KI7TPD)

Reminder **School is back in session**



Be aware & be safe

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 September**



Happy Labor Day

Breakfast Net		Friendship Net		
First Place	Second Place	First Place	W9YNK - Benjamin	
K2MFK - Kevin	KZC6ZIM - Johnny	K7NKH - Lee	KE8OYI - Caleb	
K7ZI - Dick	Third Place	K7WEP - Paul	Second Place	
KG7PBX - Linda	KI7SCX - John	K7ZI - Dick	W6DLW - Dennis	
KI7TPD - Fred		KA7J - Lance	KI7LVC - Tim	
KI7WEX - Bonnie		K7HDX - Ron	Third Place	
N7SND - Larry		N7WWB - Darlene	KI7LUM - Bruce	
N7SIY - Silvia		KI7TPD - Fred	N7SND - Larry	
		KI7WEX - Bonnie		
		N7SIY - Sylvia		

**Rainbow Canyons Amateur Radio Club
Treasurer Report Aug 8, 2023**

Bank balance July 1, 2023	\$1,544.99
Deposits - memberships N7TCE	+ 15.00
Expenses	
Rocky Mountain Power	- 20.12
Ck # 123 - Field Day Food	- 208.59
 Balance as of July 31, 2023	 \$1,331.28
Aug outstanding membership Deposit KG7ZH	+15.00
Aug Expenses	
Rocky mountain Power (due 8/16/2023)	- 19.85
 Funds available as of Aug 16, 2023	 \$1,326.43

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

RCARC Upcoming Events

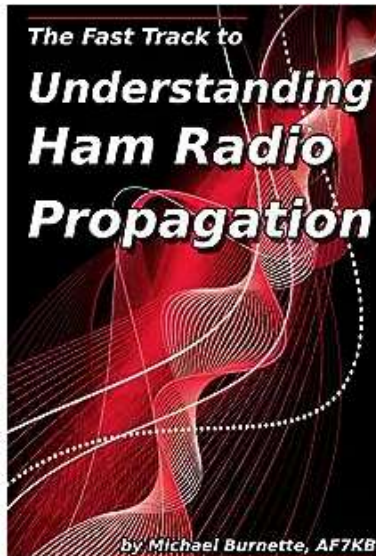
- Cedar City Half Marathon. September 9, 2023. More information to follow
- September 12, 2023 RCARC Membership Meeting. Presentation – Iron County Sheriff's Search & Rescue.
- October 10, 2023 RCARC Membership Meeting. Presentation – Active Shooter Presentation.
- Fox Hunt in October. More information to follow.
- December 12, 2023 – RARC Christmas Meeting & Club Potluck.

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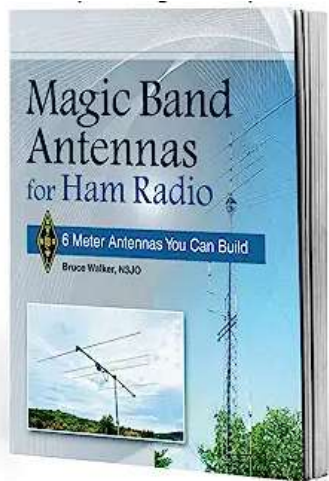
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RCARC Book Giveaway.
Books are donated by
Linda Shokrian
(KG7PBX)

Shown below is the book that will be given away at the September 12, 2023 meeting.



The Book below was given away to
Kayla Johnson
at the August meeting



Congratulations
Kayla

See Picture of Rachael Johnson accepting the book for Kayla on page 11

Contact Us.

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Newsletter E-mail:

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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

Free Emergency Preparedness
101 from [Be Ready Utah](https://www.be-ready.com) :



<https://www.facebook.com/100064445749584/posts/pfbid0CtsVjMpWQshSeMN9CmKEtgbgcM1Q1RrZpnL5WL4HaAbtrxp5cDwAbRoRVJXDmnlol/?fnsn=mo&mibextid=6aamW6>

Click on URL above for Webinar Registration Information



Buzz's September Safety Tip(s)



Safety Precautions to Take When Working with Electronic Equipment

When working with or testing any electronic equipment, it's always important to be cautious. Whatever type of equipment you're handling, whether simple or complex, it's important to take the right safety precautions.

Working with electricity comes with huge risks that should never be taken lightly. If you're a hobbyist who loves working with electronic components or electronics professional at your workplace, safety should always come first.

To avoid personal injury, possible damage to equipment or [danger of fire](#), all work on electronic equipment should be conducted following these safety procedures.

General Safety

Before working on any electronics, consider following these basic safety precautions to help reduce any hazards.

- Remove any electronic equipment you're testing or working on from the power source.
- Never assume the power circuit is off. Test and test again with a voltmeter to confirm.
- Remove fuses and replace them only after the power to the circuit is disconnected.
- Don't connect power to a circuit until you're done working on it and rechecked the work.
- Always ensure that all electronics equipment is properly grounded
 - If it's damaged, replace it. For instance, replace cables instead of repairing with insulating tape.
 - Always use the right electronics repair and maintenance tools.

Continued next column

Always return covers after removing them to reduce the risk of electric shock.

- Make sure your circuit is not overloaded.
- Always have safety equipment like a fire extinguisher, a basic first aid kit and a mobile phone nearby.

Personal Safety

It's important to ensure that you're [safe when working on electronic circuits](#). Here are some personal safety precautions to keep in mind:

- Always keep your work area dry.
- Always work in a well-ventilated area.
- Don't wear flapping or loose clothing when working.
- Don't work with metallic jewelry on your hands like watches, rings and bracelets.
- Don't use bare hands to remove hot parts.
- Always wear non-conductive shoes.
- Always wear insulator gloves in your hands when carrying out repairs.
- When removing high-voltage charges on capacitors, always use a shorting stick.
- Don't hold the test prods when measuring voltage over 300V.
- Always remove power to a circuit before connecting alligator clips.
- Always wear safety goggles.
- Be careful when handling large capacitors as they can still hold high voltage even after you've disconnected the circuit from power.

High Voltage Safety

One mistake that electronics experts make when doing repairs or maintenance work is assuming routine safety procedures after getting all too familiar with their work. It's important to know that most electronic equipment use high-voltage that is dangerous and can be fatal. Always follow these safety precautions when working on or near high-voltage circuits.

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RCARC Blow Hard Repeater (Intermountain Intertie)

Site Tour Pictures

The **Intermountain Intertie** is the largest linked amateur radio [repeater](#) system in the state of [Utah](#). Managed by the [Utah VHF Society](#),^[1] the Intermountain Intertie primarily covers areas west of the [Wasatch Front](#), from [Saint George](#) to [Tremonton](#). The Intermountain Intertie also covers areas in the northwest of Utah up to [Boise, Idaho](#) and toward the northeast into [Evanston, Wyoming](#) and [Rock Springs, Wyoming](#). The Intertie further reaches into parts of [Montana](#), and [Arizona](#). There are no Intermountain Intertie repeaters east of [I-15](#) on [I-70](#); in this area, the Sinbad Desert [Amateur Radio Club](#) Intertie has substantial coverage.

On the morning of August 5, 2023 after the RCARC Club monthly breakfast a number of members caravanned up to the top of Cedar Mountain to tour the Blow Hard Repeater Site which is one of two sites that allows the Cedar City area access to the Intertie System. **See Pics below:**



George (aL7BX) in black shirt explaining the antennas on the building.

Do It Yourself (DIY)

DIY wire winders for the 25-foot counterpoise. Made from 1/2-inch PVC pipe. Look pretty easy to make. Have fun.]



A couple of Home Depot plastic pail (5 gallon) covers and 4 one-half inch PVC couplings and some glue makes for large diameter antenna wire coils!



I used regular pvc pipe glue but it doesn't make a super tight bond so I ran #8-32 x 2 1/2-inch stove bolts and washers through the PVC couplings and lid for strength.



You should be able to load a lot of wire on them. In the bottom photo, approximately 25 feet of loose #16 wire can be rolled on each coil.

Project created by KL7JR

Reprinted from the May 2019
RCARC Newsletter

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RADIO NEWS

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

EDITORIAL AND GENERAL OFFICES, 33 PARK PLACE, NEW YORK

Vol. 5

SEPTEMBER, 1923

No. 3

Music vs. Radio

THE whole country has been watching with interest, and we believe with considerable annoyance as well, the fight between the music publishers and authors, conducted against radio broadcasting stations. The controversy in brief is that the music publishers and authors insist that the broadcasting stations pay them a royalty on their musical compositions, and until this payment is forthcoming, they refuse to let the broadcasters use their music. They claim this right under the copyright law.

Technically the musical interests are, of course, right. We believe they have the power of stopping anyone from using their musical compositions if the broadcasters do not pay for the license.

But the stupidity and short-sightedness of these self same musical interests would be ludicrous if it were not so appalling.

These musical interests, when they get out a new piece, will not hesitate to resort to any means in order to bring it to the attention of the public. Thousands of copies of sheet music are sent out free, and common hand-organs are hired to drum the piece into our heads. Vaudeville and motion picture theaters are in some cases paid good money simply for playing the piece in order to popularize it. Many musical compositions as yet unknown are sandwiched in some musical comedy for the simple purpose of getting them before the public.

When it comes to the greatest advertising medium, radio broadcasting, music publishers hold up their hands in horror and say that we are ruining their trade because if everybody listens to a musical composition by radio, none will wish to buy the sheet music, piano rolls or phonograph records. How these facts rhyme together only the music trades can make out. No one else, unbiased, has as yet been able to understand the peculiar slant of mind of the people behind the movement.

The childish arguments that are used by some of the champions of the cause are often amusing; witness the following, which appeared in a recent issue of the *Music Trades*:

"I am opposed to the radio broadcasting of music, especially the popular variety, for the very good reason that the practice is inimical to the welfare of the record and roll trade and, by no means last, the talking machine and player industry. When radio fans in the larger cities can hear solid dance programs played by the foremost orchestras with a \$5 outfit, it is only reasonable that they should ignore their player or talking machine, even if the rolls and records were supplied them gratis. Other forms of free public music are necessarily insignificant when compared with radio broadcasting."

This statement is made by none other than Mr. Arthur A. Friestedt, President of the United States Music Company of Chicago.

Following along the same line of logic, if Mr. Friestedt goes to see a musical comedy and hears a certain piece

that he likes he will promptly forget all about it. Contrary to his argument, however, as he leaves the theater, he will buy a copy of the selection for himself or for his daughter. As a matter of fact that is just what happens. The piece that was broadcast from the theater has pleased him and he wishes to either play it himself or let a member of his family do so.

If proof is wanted we might cite the following:

"A typical example of the effect of radio broadcasting was furnished by the testimony volunteered at the first meeting of the National Association of Broadcasters when Mr. Wendell Hall, a song writer, made the declaration that 'Mellow Moon' which he had written, made no appreciable headway in the hands of a publisher who resorted to the usual avenues open to publishers for exploiting a new musical creation. There was practically no sale. Then Mr. Hall began singing 'Mellow Moon' at KYW and WDAP Broadcasting Stations. He stated that in the month of April the sale of 'Mellow Moon' jumped to 100,000."

We believe that the entire controversy now staged by the musical interests against the broadcasters is nothing but a hoax and is not being conducted in good faith for the following reasons: The musical interests realize that in Radio they have a tremendous advertising force that will popularize a given piece of music more rapidly than any agency ever did. They know that sooner or later the broadcasters will no longer advertise their music free, but in the near future will wish to be paid for the tremendous service they are now rendering music publishers.

Down in their hearts, the musical interests know this and wish to forestall this move by making a demand upon the broadcasters themselves. They figure that if they could secure an agreement for a number of years, a compromise might be reached whereby the broadcasters would continue to advertise their musical productions free. We hope that the broadcasters will see through this game and will not allow themselves to be ensnared into a long time contract to their detriment.

The value of indirect advertising through broadcasting is tremendous. When Grand Opera Houses and Musical Comedies are playing to empty houses, they often resort to broadcasting one or more acts of the production. The result is like magic. The writer has seen it happen time and again when for instance a Musical Comedy was broadcast from Broadway that the attendance rose to tremendous proportions during the next few days. This is not a vague general statement, but has been carefully checked up from actual observation and with talks among theatrical producers. And the time will come, as the writer has predicted before, when theatrical producers will pay broadcasting stations handsomely for broadcasting one or more acts of their productions, and that time is nearer than any of us realize. If broadcasting stations can fill otherwise empty houses they should and will be reimbursed for such services. This is legitimate and we believe fair.

H. GERNSBACK,

Safety Precautions to Take When Working with Electronic Equipment

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Don't work on electronic equipment or make repairs with high voltage on.

- Don't take chances doing what you're not sure about.
- Consider using an isolation transformer when working on AC powered electronic circuits or equipment.
- Never tamper with interlocks.
- Don't ground yourself: Make it a practice to use only one hand when connecting equipment to an electronic circuit.

Fire Safety Precautions

When working with electronic equipment, there is often a risk of fire caused by a short circuit or other reason. Follow these precautionary steps:

- Avoid anything that would cause a fire around your working area like paper, cloth or other combustible materials.
- Look out for damaged wire insulation, overheating of electronic equipment, damaged circuit boards and corrosive components like batteries.
- If there is a burning smell on your electronic equipment, disconnect the power source.
- If there is a fire, use a nonconducting dry powder or CO2 fire extinguisher.
- Always check your circuit to be sure that everything is okay after repairs or maintenance before connecting power.

Electric Shock

One of the major hazards when working with electronic equipment is [electric shock](#). To avoid this, you should take a few safety precautions, including:

- Always read safety procedures that come with every electronic equipment you're about to test or work on.
- Recheck all wires for bad connections
- Always make sure that all parts of electronic equipment are well-mounted to prevent accidents.
- Keep electronic equipment away from water and other liquids
- Always check for signs of wear, defects and fraying on electronic equipment cables, cords and connectors.
- Use special safety rubber gloves and shoes.

Continued next column

Testing Equipment

With the increasing use of electronics in homes and workplaces, safety is becoming more and more important to consumers and service experts. If you're an electronics expert offering repair and maintenance services, it's important to invest in the right new or [used testing equipment](#) for your work—that ensures that you're able to carry out your job safely. End.

Amateur Radio Newsline



Every so often I repeat this information reference Amateur Radio Newsline for our new and more season Hams. Please access the following URL to get the latest Newsline information.

www.arnewline.org

ARRL Board Votes to Increase Membership Dues for 2024

July 26, 2023

The [ARRL](#) board has voted to increase membership dues starting January 1st. In addition, members will be required to pay \$25 on top of the membership dues in order to continue receiving printed copies of ARRL magazines such as *QST* and *On the Air*.

ARRL President Rick Roderick called the dues increase "a necessary part of ensuring ARRL is supported so we can continue to promote and fight hard for our Amateur Radio Service..."

ARLB017 ARRL Files Comments Against "Seriously Flawed" HF Rules Petition

ARRL, as part of its mission to protect Amateur Radio, has filed comments against a proposal that would introduce high-power digital communications to the shortwave spectrum that in many instances is immediately adjacent to the Amateur HF bands.

The "Shortwave Modernization Coalition" (SMC), which represents certain high-frequency stock trading interests, filed the petition with the Federal Communications Commission (FCC). ARRL responded on behalf of its members and the 760,000 licensees of the Amateur Radio Service in the US.

The petition can be found online at, <https://www.fcc.gov/ecfs/document/1042840187330/1>

The ARRL Laboratory performed a detailed technical analysis over several months to determine if the proposed rules would affect operations on the bands allocated to Radio Amateurs that are inter-mixed with the Part 90 bands in the spectrum in question.

ARRL's analysis determined that, if the proposed rules are adopted, the new operations inevitably will cause significant harmful interference to many users of adjacent and nearby spectrum, including Amateur Radio licensees. Ed Hare, W1RFI, a 37-year veteran of the ARRL Lab and internationally recognized expert on radio frequency interference, was the principal investigator on the study.

Hare concluded the petition should not be granted. "This petition seeks to put 50 kHz wide, 20,000-watt signals immediately next to seven different amateur bands with weaker protections against interference than required in other services," said Hare.

In its formal opposition, ARRL stated, "That destructive interference would result if operations commenced using anything close to the proposed maximum levels."

ARRL's filed comments highlight flawed analysis and incomplete data submitted by the petitioners. It noted the petitioners "...significantly understate the harmful interference that is not just likely, but certain, if the rules proposed by SMC are adopted as proposed. It is noteworthy that SMC's proposed rules would provide less protection than the much-lower power amateur radio transmitters are required to provide Part 90 receivers."

ARRL's opposition also noted that there was no reported tests conducted with Amateur or other affected stations, but referenced a spectrum capture in the Comments filed with the Dayton Group that showed actual interference into the Amateur 20-meter band from one of the High Frequency Trading experimental stations.

Part 90 HF rules currently authorize a maximum signal bandwidth equal to a voice communications channel, at up to 1000 W peak envelope power (PEP). The petition seeks multiplication of signal width, greater transmitted power, and weaker rules that protect users of adjacent spectrum. ARRL's comments expose the likely fallout:

"Incredibly, notwithstanding the significant increase in potential interference that would result from using digital schemes with 50 kHz bandwidths and 20,000 watts of power, SMC also proposes to substantially lessen the protections required to protect adjacent and neighboring licensees. SMC proposes [out-of-band emissions] limits that offer less protection than the existing Part 90 limits and would actually permit no attenuation (0 dB) at the edge of adjacent allocations, many of which are bands allocated to and heavily used in the Amateur Radio Service. Consistent with lessening protections while increasing the potential for harmful interference, SMC also proposes a lower limit for spurious emissions. SMC would reduce the existing protection of -73 dB for the applicable 1000-watt power limit to just -50 dB protection for their proposed 20,000-watt limit. Due to the much wider 50 kHz proposed bandwidth, the resulting interference would penetrate deep into the adjacent Amateur bands."

The proposal has been assigned FCC Docket No. RM-11953. While the period for commenting on the petition has now closed, replies to comments in the record may now be submitted.

Hundreds of licensed Radio Amateurs filed comments in the Docket, expressing overwhelming opposition to the proposal. Those interested may read ARRL's full comments and the results of the technical analysis, which are included in the filing. "If granted as written, this would be devastating to Amateur operation for many tens of kHz into our bands," said Hare.

ARRL will continue to advocate for its members and the Amateur Radio Service in this proceeding. END.

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RCARC Members Participate in the 2023 Cedar City Midsummer Renaissance Faire

This past July 12th through the 15th several members Fred (K17TPD), Bonnie (K17WEX), Craig (KK7BNZ) his wife Rita along with Steve (K17YCE) and Penny (KJ7AHL) Fred's parents participated in the City's Midsummer Renaissance Faire.

During the medieval times, vendors brought their wares, along with their families, in wooden carts the base of the city's walls for Festival Days. They set up a temporary shelter where their families slept, ate and played. Guildsmen worked at their crafts whenever business was light, and everyone sold hard, shouting their wares at passersby. Festival days were a joyous gathering of people, a bustling social event, full of color, music, laughter, and endless commotion. The festival known as the Utah Midsummer Renaissance Faire, follows this tradition and has been a long-standing festival of fun, excitement, and great memories for over 40 years. People continue to gather from around the world to Cedar City, Utah to be a part of these festivities every Summer.

See Pic's below:



Fred (K17TPD) working on a leather cell phone carrying case.



Bonnie (K17WEX) working on her crafts.

New ARRL Video Helps Members Navigate Digital Magazines

ARRL members have [digital access](#) to four high quality magazines: *QST*, *On the Air*, *QEX*, and *NCJ*. If you have questions or concerns about how to get the most out of the digital editions, "How to View ARRL Magazines Digitally" on the ARRLHQ YouTube channel, will help walk you through it.



The [video on YouTube](#) makes it easy for members to navigate the digital editions of *QST*, *On the Air*, *QEX*, and *NCJ*.

The video, hosted by Jherica Goodgame, K15HTA, explores the features of the digital presentation including switching between magazines, saving to PDF, searching for content, bookmarking's, and zooming in to content. It covers the web browser version, as well as the Android and iOS applications.

If you download the ARRL magazines app for Android or iOS, ARRL will send a notification to your device when a new edition is available for reading. They are also available on Amazon Kindle.

The video can be viewed at <https://youtu.be/vmZfIC2IUIs>

Reminder

Mark your calendar for September 12, 2023 at 7:00 PM.

The Iron County Sheriff's Search and Rescue unit will be on hand with a presentation on their unit.

They are volunteers just like us so please come and show your support.

Cedar City Senior Center

RCARC August Breakfast Pictures



Members in conversation over breakfast.



Fred (KI7TPD) in conversation with Brian (KG7OOW) on right not seen.



Paul (WA7GVL) and Ron (K7HDX) in foreground with Brant (KG7LTQ) and Maddie (KK7FLL) in background.

Morserino - 32 CW Keyer Kit Assembly Party Pictures

On August 10, 2023 Several members met at Terry and Dennis's House to assemble the Morserino -32 CW Keyer Kits. See pictures below.



Fred (KI7TPD) right and Ken (KR7KR) left both assembling the CW Keyer Kits. Dennis (W6DLW) cheering them on.



Bonnie (KI7WEX) left and Linda (KG7PBX) looking at the plastic case the CW Key will mount in



Rachael Johnson receiving book of the month for Kavla Johnson

Radio Response: Hawaii ARES Steps Up During Tropical Storm Calvin

On July 12, 2023, the first major Pacific hurricane of the season, Hurricane Calvin, activated the readiness of amateur radio operators across the state of Hawaii. As it approached the Big Island, the hurricane weakened, evolving into Tropical Storm Calvin and delivering heavy rain, flash flooding, dangerous surf, and damaging winds in its wake.

Daily briefings were convened by the Hawaii Emergency Management Agency, with representatives from all major island emergency management departments and the governor in attendance. Hawaii's ARRL Amateur Radio Emergency Service (ARES®) members from various parts of the state attended these briefings leading up to the landfall of Tropical Storm Calvin. Some were there as part of their regular jobs in disaster readiness and response, and others as volunteers. These meetings featured updates and forecasts from the National Hurricane Center and Central Pacific Hurricane Center, providing valuable insights for all in attendance.

Anticipating the looming threat, the Hawaii County Civil Defense engaged several volunteer groups, including the ARES. Under the leadership of ARES Assistant Section Manager Tony Kitchen, WH6DVI, the group was galvanized into action. As Hawaii County developed its Incident Action Plan (IAP) under the frameworks of NIMS/ICS, Kitchen contributed four ICS forms related to Amateur Radio.

Stationed at the Emergency Operations Center (EOC) in Hilo for a cumulative 23 hours across Tuesday and Wednesday, Kitchen managed the incoming Winlink reports and directed them to the appropriate County Defense staff. Despite the relatively light number of Situation Reports (SITREPs),

Continued next column

they resulted in consequential actions such as a welfare check by a police officer and direct communication with HELCO Power and Spectrum Internet provider points of contact concerning outages.

Reflecting on the experience, Kitchen noted, "In times like these, the value of diverse communication methods such as amateur radio with Winlink radio email and voice traffic on HF and VHF becomes vividly clear." When internet or telephone service goes down in a community, it is helpful for agencies involved in emergency management and mitigation to find out about it as soon as possible. The Amateur Radio Service may be the only means available to achieve this objective. Real time detection of problems helps everyone involved coordinate an appropriate response.

As Tropical Storm Calvin unfolded, amateur radio operators ran nets on 7.190 and 146.760 MHz (Kulani Cone repeater) to receive voice reports. Stations established their ordinary hub nets at 1800 on Tuesday, processing these reports from the spokes via the typical frequencies and modes they had previously practiced.

Kitchen further emphasized the importance of readiness and adaptability in amateur radio, stating "This event underscores the importance of practicing and maintaining our skills regularly, even in times of tranquility, with voice traffic and Winlink radio email. -- *Michael Miller, KH6ML, Hawaii Amateur Radio Emergency Service End.*

Amateur Radio Operators Serve in Hawaii Firestorm Relief Efforts

ARRL members, in the Hawaii Amateur Radio Emergency Service®, ([Hawaii ARES®](#)), continue to respond following to the deadly wildfires on the island of Maui.

The radio amateurs are coordinating with state and local officials during the response and recovery effort. On August 15, an HF SHARES gateway, and an amateur VHF VARA FM gateway were brought back online, after having been damaged. Local hams continue to update lists of frequencies and repeaters that can be used in the response.

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RCARC August Annual Club Barbecue and Monthly Meeting Pictures.



Brody (K7VXV) and Terry West Prepping the work Station and getting ready to BBQ.



Members placing their potluck side dishes on the serving tables.



Club members arriving for the Barbecue.



Fred (K17TPD) getting everyone's attention to start the meeting prior to eating.



Members continue to arrive.



Members listening to Fred (K17TPD) to right not seen as he conducts the meeting portion of the event.

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Continued next column

Amateur Radio Operators Serve in Hawaii Firestorm Relief Efforts

Continued from page 12.

ARRL Headquarters staff have been in daily contact with member-volunteers on the island. "Our thoughts and prayers go out to the people of Hawaii and especially the island of Maui," said ARRL Director of Emergency Management Josh Johnston, KE5MHV. "ARRL was in initial contact with Section Manager [of the ARRL Pacific Section] Joe Speroni, AH0A, on Wednesday, August 9, and we have had daily briefs with him. This is an exceedingly challenging time for Hawaii, and we will be available as needed." ARRL has offered equipment through ARRL Ham Aid, a program established in 2005 and funded by donations, Ham Aid makes emergency communications equipment available to amateur radio organizations during disasters.

Johnston emphasized that most amateur radio communications, including relayed messages are being handled on the existing repeater system in the state. On shortwave, HF stations across Hawaii are operating nets on 7.088 MHz.

On August 8, wildfires fueled by strong winds began burning in Maui, and by the next day, much of Lahaina had been destroyed. As of press time, 110 people have been killed in the blaze and 2,200 structures have been destroyed; 86% of those structures were residential, according to Hawaii Governor Josh Green



Fire Damage at Wailuku, HI (Dominick Del Vecchio/FEMA, photo)

RCARC Blow Hard Repeater (Intermountain Intertie) Site Tour Pictures

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Additional members listening to George (AL7BX).



George explaining the equipment to folks on his right not in picture.

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RCARC Blow Hard Repeater (Intermountain Intertie) Site Tour Pictures

Continued from page 14



Members listening to George (AL7BX) from prior picture.



Fred (KI7TPD) and Ron (K7HDX) reacting to something funny.



Paul (WA7GVL) left and Fred (KI7TPD) right looking at the equipment in the radio vault.



George (AL7BX) sharing with the group additional information about the repeater site.



Another view from the outside.

Continued next column

RCARC August Annual Club Barbecue and Monthly Meeting Pictures.

Continued from page 13



Fed (K17TPD) conducting further business before the barbecue.



Another view of the business portion of the night.



Brody showing his gift certificate to Las Flores Family Restaurant for his many contributions to the club.

Continued next column



The Potluck is under way.



Additional Pic of food line.



Dick (K7ZI) famous Dutch oven Potatoes.

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RCARC August Annual Club Barbecue and Monthly Meeting Pictures.

Continued from page 16



Chef Brody (K7VXV) at the grill.



Dogs & Burgers are sizzling



Terry West serving up a Hot Dog.



Terry West serving up a another Hotdog.



Brant (KJ7LTQ) and family enjoying the barbecue.



Looks like trouble waiting to happen. Just kidding. David (K7DLD) in black shirt and Sam (KK7MPE) just kicking back.

Continued next column

Navajo Mountain Repeater Site Tower Failure

On 29 July a team of Volunteers drove to Navajo Mountain to assess the damage to the tower, feed lines antennas and equipment at the Navajo Mountain repeater site.

Upon arrival the team made an evaluation of all the antennas on site, all antennas have some damage,

All most all of the SARBA (CACTUS) antennas and feedlines were so badly damaged that they will need to be replaced. All of the antenna feed lines had minor to very severe damage, kinks and stretches and we expect all the feedlines will have to be replaced in the future. The team was able to salvage some of the Utah VHF Society Intertie antennas, the Utah VHF Society plans to replace all of our antennas.

The tower was a total loss with the exception of the section used as a cross member at about 20 feet up. The ground level tower section was damaged at the concrete base but two legs of the section were sturdy enough to mount some of the Utah VHF Society Antennas to restore the link to Blowhard and Mount Eldon, in addition, we were able to restore the two repeaters 448.600 (UVHFS) and 146.96 (W7WAC).

This is set up for temporary operation until a replacement tower is built. This temporary set up will not last the winter it will definitely fail.

The Utah VHF Society has ordered a replacement Rhone 55 Tower (approximate cost \$5,000.00) for the site that will be delivered to Jeff Hickman, KB7VPL, in Page AZ. Also new guy wires will have to be purchased and installed. The four existing ground anchors all appeared to be sound for future use.



Tower lying on ground next to building lower left corner of picture.



Tower on ground from different angle



Ground level view

See Pictures next column

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Can someone explain this?

Amateur Radio Responds to Disasters Across the United States

[The fires](#) are out on the Hawaiian island of Maui but extensive search and rescue operations continue.

President Biden visited the island on Monday, August 21, 2023, and told residents the federal government will provide help "for as long as it takes" to recover from the devastation.

Numerous emergency response agencies and organizations are still arriving, and volunteers are helping to provide coordinated communications on the KH6COM repeater, on 146.520 MHz, and a VHF/UHF countywide system with emergency backup power. Hawaii has many amateur radio repeaters and an extensive internet-linked repeater system.

On the west coast of the United States, after a record amount of rainfall, [Hurricane Hilary](#) has been downgraded to a tropical storm and is heading toward the Northeast. The west coast area is still experiencing flooding and mudslides as residents face major cleanup operations.

Continued next column

Section Manager of the ARRL Los Angeles Section Diana Feinberg, AI6DF, said there weren't any amateur radio activations, but Radio Amateur Civil Emergency Service and ARES groups were on heightened alert.

There was minimal damage in the Los Angeles A Basin area. Feinberg also said the City of Los Angeles Auxiliary Communications Service was activated and reported to the Emergency Operations Center, but there weren't any communication outages.

Section Manager of the ARRL Santa Barbara Section John Kitchens, NS6X, said there was more concern for the 5.1-magnitude earthquake that hit his area during the storms. "There were no actual activations, but we were ready. Our folks [took] advantage of the situation and turned it into a real-time drill," said Kitchens.

The [Hurricane Watch Net](#), [WX4NHC amateur radio station at the National Hurricane Center](#), and the [VoIP Hurricane Net](#) were activated on Sunday, August 20, for Hurricane Hilary. Despite having bilingual operators in each group, and the storm's impact to the Baja California peninsula, there weren't any reports from Mexico, much to the concern of net operators. WX4NHC Amateur Radio Assistant Coordinator Julio Ripoll, WD4R, said, "Hurricanes have no borders and ham radio has no borders."

Ripoll encouraged Mexican stations to check in and pass along reports when the net was active. "We can work together to help each other and those affected by hurricanes," he said.

Tropical storm alerts were issued along the south Texas coast on Tuesday, August 22, as Tropical Depression 9 formed in the Gulf of Mexico. The storm's center moved inland over south Texas by midday, when it became Tropical Storm Harold. It caused rain and wind, but there was little to no damage. The South Texas Amateur Radio Club said their amateur radio operators were ready even though they were not activated.

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Navajo Mountain Repeater Site Tower Failure

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A view of top section of downed tower.



Tower legs are bent by cement platform.



Quite a mess

Continue next column



Another view



Top of Tower on ground



Aerial view of the Navajo Repeater Mountain Site.
Intertie building bottom (Center) of picture

Amateur Radio Responds to Disasters Across the United States

Continued from page 19

While tropical storms and an earthquake impacted large portions of the country, much of the Pacific Northwest has been dealing with wildfires.

In eastern Washington, the [Spokane County ARES®/ACS](#) was activated to deploy a mobile network unit (MNU) to the Gray Fire on Friday, August 18. The MNU is a self-contained, satellite-based internet and cell (AT&T, Verizon, and T-Mobile) support system. Volunteers set up the gear at an incident command post used by county officials. End.

65 Great Things About Ham Radio

CQ Magazines "Great Things About Ham Radio." <https://www.cq-amateur-radio.com>.

1. It works when nothing else does
2. It makes you part of a worldwide community
3. The opportunity to help neighbors by providing public service and emergency communications
4. Some of the nicest people you'll ever meet
5. Some of the smartest people you'll ever meet
6. Some of the most interesting people you'll ever meet
7. Some of the most generous people you'll ever meet (along with some of the cheapest!)
8. Lifelong friendships
9. Friends around the world (including those you haven't met yet)
10. The opportunity to go interesting places you might not otherwise go to
11. The opportunity to do interesting things you might not otherwise get to do
12. The opportunity to expand your knowledge of geography
13. The opportunity to expand your knowledge of earth and space science
14. Practical uses for high school math
15. Practical uses for high school physics
16. A good way to practice a foreign language

Continued next column

17. A good way to keep in touch with faraway friends and relatives
18. A good way to get driving directions when visiting someplace new (with or without GPS)
19. A good way to find the best places to eat when visiting someplace new (with or without GPS)
20. Finding "non-touristy" off-the-beaten-path places to stay, eat, visit, etc.
21. A good way to learn about virtually any topic
22. A good way to bridge the generation gap
23. A good way to keep tabs on elderly/infirm people
24. People named Joe (Walsh, Rudi, Taylor)
25. How many of your non-ham friends have actually talked to someone in some remote place such as Cape Verde or the Seychelles?
26. How many of your non-ham friends might have talked to an astronaut aboard the space station?
27. How many of your non-ham neighbors might have a satellite uplink station in their basements—or in the palms of their hands?
28. How many of your non-ham neighbors might have a TV studio in their garage?
29. What other hobby group has designed, built, and had launched its own fleet of communication satellites?
30. Where else can you play with meteors?
31. Moonbounce
32. Informal way to improve technical skills
33. Informal way to improve communication skills
34. Introduces a variety of career paths
35. Offers unparalleled opportunities for career networking
36. Opportunities for competition in contesting and foxhunting
37. A good way to collect really cool postcards from around the world (despite the growth of electronic confirmations)
38. Nearly endless variety of different things to do, on and off the air
39. Ham fest's
40. Dayton
41. Field Day

Continued on page



N7JHC

James Henry Curry, 85, passed away August 8, 2023 at the Cedar City Hospital in Cedar City, Utah. Jim was born on October 7, 1937 in Charleston, West Virginia, to Walter Leon and Ruby May Totten Curry. He grew up in West Virginia, and graduated from Collins High School in Oak Hill, West Virginia. He moved to California in 1957 where he met Evelyn Harvey. They were married December 23, 1958. Jim worked 35 years for Southern California Gas Company. At the beginning of his career, he worked as a mechanic on the big engines that pumped natural gas from Texas to Los Angeles. He finished his career as a Station Superintendent. He loved Ham Radio, fishing, hunting, camping, motorcycle riding and anything outdoors. For ten years, he also had his own heating and air conditioning business. After retirement from the Gas Company, he moved to Cedar City, where, with the help of his wife, Evelyn, they built their own home. He was a member of the Church of Jesus Christ of Latter-Day Saints and served in several callings, from Scout Leader to Bishop. He loved his family and was very dedicated to them. Jim is survived by his wife, Evelyn, and his children, Dan and his wife, Patty, of Washington, Utah; Tracy and her husband, Terry Sharp of Mesa, Arizona; Kandra and her husband, Steve Carroll, of Cedar City, Utah; Steve Curry of Hurricane, Utah; David and his wife Heather, of Cedar City, Utah; and Scott and his wife, Tisa, of Gilbert, Arizona; 23 grandchildren and 29 great-grandchildren. He was preceded in death by one granddaughter, Terilyn Sharp. Funeral Services will be held Saturday, August 19, 2023, at 11:00, at the Westview Chapel, (800 S Laurie Ln), Cedar City, Utah. There will be a viewing from 9:30 to 10:30 prior to the service. Interment will be in the Cedar City Cemetery, under the direction of Southern Utah Mortuary. Online condolences may be left and a live stream of the funeral service found at www.mortuary.org.



KG6LFU

James Wesley Beal, age 97, passed away August 14, 2023, in Cedar City, Utah. He was born February 19, 1926, to Edward and Anna Beal. He was raised on the family farm in Ogden, Utah by his grandmother, Isabella Baird following the death of his mother when he was a young boy. After graduating from Ogden High School in Ogden, Utah, he enlisted in the US Navy during WW II. Following his military service, he immediately returned home to provide care for his two sisters after the death of their father. In 1949 Jim married Gwendolyn Sparks with whom he had four children with and began working for Sears & Roebuck to support his growing family. However, he soon realized that the retail business was not an industry he was passionate about and made the decision to return to college to earn his degree in education and eventually earn a master's degree in education. Teaching and elevating youth as an educator became his life's calling. He had found his passion. His dedication and devotion to teaching, training, and mentoring the youth in the areas in which he lived led him to a lifetime of involvement with the Boy Scouts of America. In 2008, following many years of exceptional service, The Boy Scouts Council presented Jim with the highest award that can be bestowed upon an adult volunteer leader – The Silver Beaver. On June 19, 1974, Jim married June Marie May Brower. June (Grammy) brought a joy into his life that was blessed and eternal. Their love and laughter set an example for all who knew them and a priceless legacy for their posterity. They served an LDS mission together in Riverside, California, from 1998 to 1999. In June 2006 they moved from Banning, California, to Cedar City, Utah, which Jim felt was heaven on earth. Jim loved life having many hobbies – among them were aviation, fishing, camping, golf, cooking and baking to name just a few. He enjoyed his membership in Rotary International, a national HAM radio club, as well as other local and national organizations. Jim also had a knack for business and bought a Dairy Queen while living in Banning, California. The high school students knew they could count on Mr. Beal for a job which was consistent with his desire to serve the young people within the community. Jim is survived by daughter Kathy (Frank Torres) of Hesperia, California, daughter Dawna Woslum of Palmdale, California, sons, Lee (Lori) Brower, Washington, Utah, Sam (Rita) Brower of Cedar City Utah, Brad (Tammy) Brower of Farmington, Utah, and Jon Brower of Cedar City.

He was preceded in death by his dear wife June, sisters Marie Farley and Margaret Beal and sons Edward Beal, James Beal, and Robert Beal. Funeral services will be held Monday, August 21, 2023, at the Church of Jesus Christ of Latter-Day Saints 13th Ward Building located at 725 South 1100 West, Cedar City, at 11:00am. There will be no public viewing. Interment will be in the Cedar City Cemetery following the funeral service under the direction of Southern Utah Mortuary.

65 Great Things About Ham Radio

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42. Working DX
43. Being DX
44. DXpeditions
45. Contesting
46. Award-chasing
47. Double-hop sporadic-E
48. Worldwide DX on 6 meters (once or twice every 11 years)
[The current extended sunspot minimum has shown that mechanisms other than F2 propagation can offer intercontinental DX on the "magic band" at any point in the solar cycle.]
49. Tropospheric ducting
50. Gray-line propagation
51. TEP, chordal hops, etc.
52. Getting through on CW when nothing else will
53. Unexpected band openings
54. Building your own gear
55. Using gear, you've built yourself
56. Operating QRP from some remote location
57. Experimenting with antennas
58. Working DX while mobile or while hiking
59. Experimenting with new modes and new technology
60. The opportunity to help build an internet that doesn't rely on the internet
61. DXing on your HT via IRLP and Echolink
62. Contributing to scientific knowledge about propagation
63. Keeping track of other people's GPS units via APRS
64. Ham radio balloon launches to the edge of space, and as always...
65. Reading CQ!

Permission is hereby granted to reprint this list in amateur radio club newsletters, provided credit is given to CQ magazine. Online editions must include a link to the CQ website,

<https://www.cq-amateur-radio.com>.

RCARC Members Participate in the 2023 Cedar City Midsummer Renaissance Faire

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Fred (KI7TPD) talking with a Faire Visitor.



Some of the tools of the trade.



Some of the chains and jewelry made at the Faire.