

RAINBOW CANYONS AMATEUR RADIO CLUB NEWSLETTER



CEDAR CITY, UTAH

Club Website: www.rcarc.info Number 5 – Vol. 7 – July 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.

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CQ, CQ, Happy 4th of July



Presidents Message

Dear Fellow Amateur Radio Operators,

What a month! It has been a really busy month that started with our club swap meet, the Ride the Gap bike race and ended with a wonderful field day! As always Field Day was a great success with 360 contacts, 110 CW on 40 meters, 164 phone on 40, 20, 15 and 10 meters and 86 digital contacts on 20, 15, 10 and 6 meters! The weather was good this year (a little wind, with a nice temperature) and everything seemed to go well.

We also had some of our new HAMs come out to play on the radio! It is great to see HAMs making their first HF contacts! As always it is great to see everyone helping out our new members. A big Thank you to everyone who participated by helping with set up and clean up, and by manning the radios and making contacts. Overall, I hope everyone had a great time and I hope you can take the enthusiasm forward and play on the radio more!

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

July 11, 2023

RCARC Club Meeting.

7:00 pm. Cedar City Senior Center,
489 E. 200 South. **Program: Ken
Munford (N7KM) will present
Propagation & Antennas.**

August 8, 2023

RCARC Club Meeting.

7:00 pm. Cedar City Senior Center,
489 E. 200 South. **Annual RCARC
Barbecue. More info to follow.**

September 12, 2023

RCARC Club Meeting.

7:00 pm. Cedar City Senior Center,
489 E. 200 South. **More info to
follow.**

October 10, 2023

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.**

For our July meeting we will be hearing a presentation from Ken (N7KM) on propagation and antenna design. Should be fun! I hope everyone has been getting out on the radio! We have our local nets as well as opportunities to participate on HF contests and 10 and 6 meters has been opening up so get out there, have fun, and play on your radio. 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! Remember you can always pick up the mic and see who is listening! 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)

July 11, 2023 RCAC Meeting Presentation.

**Program: Ken Munford
(N7KM) will present
Propagation &
Antennas.**

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 July**

Happy Fourth of July

Breakfast Net		Friendship Net		
First Place	Second Place	First Place	Second Place	Third Place
K2MFK - Kevin	N7SIY - Silvia	K7NKH - Lee	K7HDX - Ron	KI7LVC - Tim
K7ZI - Dick	Third Place	K7WEP - Paul	N7WWB - Darlene	
KC6WFI - Tony	KI7SCX - John	K7ZI - Dick	KI7LUM - Bruce	
KZC6ZIM - Johnny		N7TCE - Merlin	N7SYI - Sylvia	
N7SND - Larry		KA7J - Lance	KJ7LTQ - Brant	
		W1EPR - Austin		
		W6DLW - Dennis		

**Rainbow Canyons Amateur Radio Club
Treasurer Report June 13, 2023**

Bank balance (reconciled) May 1, 2023	\$1,475.56
Deposit - memberships K7DLD, K7JRD, N7CWO, KK7MPL, AL7BX, KK7MDG, KK7BNZ, KK7MHN	+ 110.00
Expenses Rocky Mountain Power	- 19.06
Balance as of May 31, 2023 (reconciled)	\$1,566.50
June Deposit - memberships KI7ZAD	+ 15.00
June Expenses Rocky mountain Power (due 6/15/2023)	- 18.71
Funds available as of June 15, 2023	\$1,532.79

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

RCARC Upcoming Events

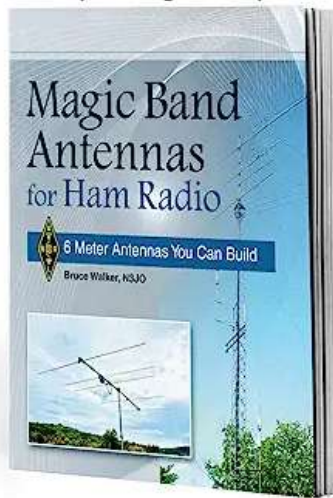
- Southwest Utah Public Health Department (SWUPHD) Emergence Services Function (ESF8) Coalition Communications Exercise. July 11, 2023 at 9:00 AM. Iron Mountain 76.
- RCARC annual Bar-B-Cue. August 8, 2023. More info to follow.
- Cedar City Half Marathon. September 9, 2023. More information to follow
- Fox Hunt in October. More information to follow.

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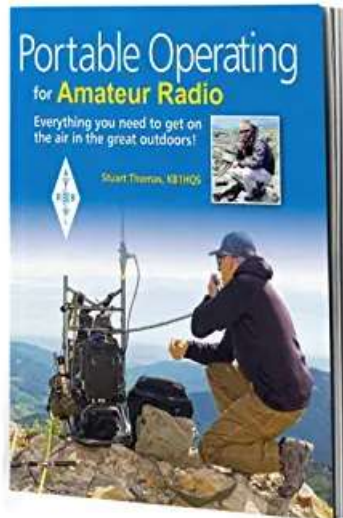
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RCARC Book Giveaway.
Books are donated by
Linda Shokrian
(KG7PBX)

Shown below is the book
that will be given away at
the July 11, 2023
meeting.



The Book below was
given away to
at the June meeting



Congratulations
To Laurel Snodgrass
(KJ7ZNT)
See Picture on page 14

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

Note

The Blowhard Repeater (Intertie) 146.800 is back on the air.

George Gallis (AL7BX) and Brian (KG7OOW) were able to get to the repeater site (Snow Conditions) and replace a failed repeater with a spare.

A great big thanks to George and Brian.





Buzz's July Safety Tip(s)



Leave Fire Works to the Experts

Summer is synonymous with barbecues, parades and fireworks. The National Safety Council advises everyone to enjoy fireworks at public displays conducted by professionals, and not to use any fireworks at home. They may be legal but they are not safe.

In 2017, [eight people died and over 12,000 were injured](#) badly enough to require medical treatment after fireworks-related incidents. Of these, 50% of the injuries were to children and young adults under age 20. Over two-thirds (67%) of injuries took place from June 16 to July 16. And while the majority of these incidents were due to amateurs attempting to use professional-grade, homemade or other illegal fireworks or explosives, an estimated 1,200 injuries were from less powerful devices like small firecrackers and sparklers.

Additionally, [fireworks start an average of 18,500 fires each year](#), including 1,300 structure fires, 300 vehicle fires and nearly 17,000 other fires.

Fire Works Safety: If you choose to use fireworks legally.

Continued next column

If consumer fireworks are legal to buy where you live and you choose to use them, be sure to follow the following safety tips:

- Never allow young children to handle fireworks
- Older children should use them only under close adult supervision
- Never use fireworks while impaired by drugs or alcohol
- Anyone using fireworks or standing nearby should wear protective eyewear
- Never hold lighted fireworks in your hands
- Never light them indoors
- Only use them away from people, houses and flammable material
- Never point or throw fireworks at another person
- Only light one device at a time and maintain a safe distance after lighting
- Never ignite devices in a container
- Do not try to re-light or handle malfunctioning fireworks
- Soak both spent and unused fireworks in water for a few hours before discarding
- Keep a bucket of water nearby to fully extinguish fireworks that don't go off or in case of fire
- Never use illegal fireworks

Better yet, grab a blanket and a patch of lawn, kick back and let the experts handle the fireworks show.

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RCARC Summer Field Day 2023

On June 24-25 RCARC participated in ARRL's Summer Field Day Event. This year we utilized the Pavilion at the Three Peaks Recreational site.

Set up commenced on Saturday at 9:00 AM. With event contacts beginning at 12:00 PM. and running through 12:00 PM. on Sunday.

Our event call sign will be "N7U"

During the fourth full weekend in June, the eyes of the amateur radio community turn towards the annual Field Day operating event. From its beginning back in the 1930's as an event to test the field preparedness and emergency communications abilities of the burgeoning amateur radio community, Field Day has evolved into the largest on-the-air operation during the year. In 2022, entries were submitted by almost 5,000 clubs, groups and individuals from across the US and Canada. These logs showed participation by nearly 30,000 individuals and almost over 1.2 million contacts were reported during the brief 24-hours of the event. Field Day is officially an 'operating event,' not a contest. The purpose remains today as it did in the beginning: to demonstrate the communications ability of the amateur radio community in simulated emergency situations. See Pictures below:



Fred (K17TPD) assigning work assignments to volunteers before tower goes up.



Brody (K7VXV), Dick (K7ZI) and Bruno (KG7VVN) checking the trailer level prior to antenna install.



Antenna ready to be mounted to tower. Bruno (KG7VVN) providing a safety briefing.



Antenna being attached to antenna mast post.

Continued next column

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RADIO NEWS

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

EDITORIAL AND GENERAL OFFICES, 53 PARK PLACE, NEW YORK



Vol. 4

JUNE, 1923

No. 12

The Broadcast Listener

THIS editorial is written for the broadcast listener, also sometimes termed "Radiophone Fan," better known to radio amateurs as "Phone Hound."

The broadcast listener, as we all know, is in a distinct class by himself. He is interested in the technicalities of either electricity or radio at all. He receives a radio set for one purpose only—to listen in. He receives a few directions either verbally or printed, when he buys his radio set at the store or from a mail order company, and as to the content he is satisfied. He is an individual who owns a phonograph, and who cares not a hoot what is inside of the case or how the slightest idea what the phonograph is not supposed to know who knows how to drive a car, but who knows absolutely nothing about machinery, and does not want to know. He drives his car for pleasure or for business, but is not interested in automobile engineering, and does not care to be. This is exactly the position of the broadcast listener, and we may as well admit that he is in the overwhelming majority.

Indeed, radio engineers, as well as the entire technical radio fraternity today, bend every effort towards simplifying every radio set to such an extent that it will come into the class of the phonograph or the automobile: that is, that the owner does not need to know anything of radio whatsoever in order to operate his set.

Today there are such sets, and they are getting more common every day. If the owner of such a set feels that he wants to experiment with something different after he has become sufficiently interested in radio—well and good, but the greater majority will probably continue buying simpler and simpler sets, as new models come out.

This radio millennium, however, has not as yet been reached, and the broadcast listener, perforce, must learn some things today about radio if he wishes to get the maximum results from his set.

Let us first start with the crystal set owner: The broadcast listener probably knows that his receiving radius is rather small. It is given, as a rule, as 25 miles. However, there is no set rule about distances in radio, neither with a crystal set nor with a Vacuum Tube set. In some localities, as, for instance, large cities, mountainous regions, particularly where the mountains bear ores,—or if you are in the midst of great steel structures—a 25-mile receiving range is excessive. Oftener it is not even 10 miles, even if a powerful broadcasting station is near.

On the other hand, there are crystal sets in operation every day that receive from distances ranging up to 500 miles and more. Here the radio engineer frankly throws up the sponge, and admits that he doesn't know why such a condition should exist. He advances many theories why some crystal sets, particularly those located in the country, should make such records. So far we have not discovered the correct reason.

As to the operation of his set, the crystal set owner is not troubled very greatly, for the operation of such a set is simple. He turns one or more knobs, makes one or two detector adjustments, until the sounds come in strongest, and that is about all.

The crystal set owner is not bothered with batteries or tubes, as is the tube set owner, and his troubles are comparatively few. But once in a great while a crystal set goes dead. Nine times out of ten the trouble will not be in the "boughten" outfit—mostly it will be loose connections, either the ground clamp attached to the water pipe is loose or it does not make contact. Going over these connections should be the first thought. Scrape the metal perfectly clean and bright, and see that the ground clamp or wire is fastened with maximum pressure to the pipe. Next, the aerial and lead-in may have become disconnected. Sometimes the aerial is joined to the lead-in, and the connection may have become loose, particularly if it has not been soldered, which certainly should be done. If the set still does not work, the trouble may then be with the lightning arrester. This may be disconnected, or the connections looked over. If still results are not had, then the trouble is in the outfit.

First tighten up all the screws and see that all the connections are good. Many times the tightening and cleaning of a few connections will make the outfit work. The crystal, if a catwhisker is used, should be cleaned with Carborundum on a piece of absorbent cotton.

If still no results are had, then the outfit must be returned to the maker.

Here is a new thought for crystal set owners. In recent experiments with crystal sets, the writer has very successfully used, instead of an aerial, a copper strip from $\frac{1}{4}$ " to $\frac{1}{2}$ " wide, and only .005" (five thousandths of an inch) thick. This copper strip can be secured from radio supply or specialty companies and is very cheap, costing only about one cent a foot. By using such strip, instead of wire, we catch, so to speak, more energy. *The bigger the surface that we expose to the waves, the more energy do we intercept.* Results with a copper strip antenna are really surprising.

The tube set owner has an entirely different problem. As to the distances over which he can receive, there are no fixed rules—just as with the crystal set. A single tube circuit, using no fancy hook-up, is good for anywhere from 50 to 100 miles. If the set is the so-called regenerative set, the distance is very much greater, running into hundreds and even thousands of miles. As a rule, the more tubes used, the greater the distance. This holds particularly true if the set is a radio frequency or Reflex Circuit set.

The Vacuum Tube set owner, with a few instructions, readily learns how to tune in, but again there are no set rules as to how this is done, either. It makes a difference for every outfit used. The broadcast listener is usually told, after the tubes have been lighted, to adjust either the condenser or variometer dials until the "whistle" is heard. That means that a particular station has been picked up. When the sounds are then heard weakly, other adjustments with other dials and knobs must be made, until the maximum sound is received. The directions naturally vary for every set. It is, however, not difficult to master the art of adjusting, particularly where local stations are concerned. Even the lady of the house, after a few instructions, has no trouble in tuning in for nearby stations. The trouble arises when you try to tune in for a distant station. There are very few sets on the market that can boast of tuning in to the so-called "DX" (distant) stations, while a local station is working on a similar wave-length. As a rule, the attempt proves hopeless for the local station. If it sends at 360 meters, it will positively drown out every "DX" 360-meter station. Even if a local station is sending on 360 meters and it is attempted to get a distant 400-meter station, the results are not always encouraging.

The Vacuum Tube owner, when his set gives him trouble, should pursue the same method in hunting for that trouble as explained under "crystal set operation." The tube set owner knows that when the light in the bulb fails, his storage battery (or dry cells, if he uses the new low-voltage tubes) is failing. If it is a storage battery, it must be recharged. If he uses dry cells, it is useless to do anything except throw them away and buy new ones. If a tube suddenly goes dead, a new one must be bought. Owners, however, have been fooled at times when a tube has gone dead, which was not dead at all. Often the socket connection goes bad, and for that reason before a tube is thrown away, it should be tested in another socket or another set, to make reasonably sure that it is really burnt out.

If the set emits weird and unaccustomed noises, there is either a loose connection somewhere that should be tightened, or the "B" batteries need renewing. "B" batteries, if they are of good make, last anywhere from 9 to 12 months, and should be renewed after such a period. It is much safer to do so, as many troubles arise from a "B" battery that is slowly but surely wearing out. One source of loud noises will often be found in the rheostat or potentiometer. The metal finger that rides over the wire convolutions may have become loosened, where it should be tight; this is a frequent trouble. If no reception is had at all, and the owner is not technically inclined, after he has looked the set over to the best of his ability, he had better call in a radio amateur or other expert, or otherwise return the outfit to the factory.

If the set is one in which dust can accumulate on the inside, a frequent source of diminished reception will be apparent. A thorough dusting of all the parts will often bring astonishing results, particularly if the dust is thick upon some of the condenser plates and other connections.

H. GERNSBACK.

RCARC Holds June 2023 Ham Radio Gear Swap Meet

On Saturday morning June 10, 2023, members, friends, family and others gathered at the Christ the King Catholic Church, 690 Cove Dr. in the Pavilion to buy, sell, or swap new and used Ham Radio gear. See Pic's below.



Ken Richter (KR7KR) looking at the free stuff.



It's early but the swap meet is underway.

Continued next column



CW anyone? One of Ken Munford's (N7KM) Tables.



Another one of Ken's (N7KM) Tables.



Attendees looking at all the stuff.

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Legislation to Remove Private Land Use Restrictions on Amateur Radio Introduced in Congress

Congressmen Bill Johnson (OH-06) and Joe Courtney (CT-02) reintroduced a bill in the US House of Representatives on June 12 - H.R.4006 - to remove private land use restrictions that prohibit, restrict, or impair the ability of Amateur Radio operators from operating and installing reasonable antennas on property that they own or control. Similar legislation, H.R. 9670, was introduced by Congressman Johnson in 2022.

The full text of the bill can be found in PDF format at, https://billjohnson.house.gov/uploadedfiles/amateur_radio_emergency_preparedness_act_signed_bill_text.pdf

"I reintroduced the Amateur Radio Emergency Preparedness Act to remove barriers to disaster and emergency communications and training, and to promote education in STEM subjects related to critically needed wireless technology," Congressman Johnson said in a release. "Passage of this bill will promote developing and sustaining our nation's wireless future and facilitate and encourage amateur radio operations as a public benefit."

"As their actions during recent natural disasters such as Hurricane Sandy proved, amateur radio operators in Connecticut can be a critical component of disaster response and emergency management. It is in our communities' best interest that we give them the capabilities to operate at the highest level, and with the re-introduction of this bill, we've taken a strong step in that direction," said Congressman Courtney.

Continued next column

Rick Roderick, K5UR, President of ARRL, on behalf its Members and America's Amateur Radio community extended his thanks and appreciation for the leadership of Congressman Johnson and Congressman Courtney in their tireless efforts to support and protect the rights of all Amateur Radio Operators and to further STEM education and the advancement of American expertise in wireless technology.

The exponential growth of communities bound by private land use restrictions that prohibit both the operation of Amateur Radio and the installation of amateur station antennas has significantly restricted the growth of the Amateur Radio Service.

The ARRL continues its multi-year efforts to eliminate private land use restrictions that prevent Amateur Radio operations and has pledged to strongly support Congressman Johnson and Congressman Courtney in their efforts on behalf of Amateur Radio. End.

Cal Poly Amateur Radio Club achieves 2,000th License Milestone

Student-run [Cal Poly Amateur Radio Club \(CPARC\)](#) at California Polytechnic State University in San Luis Obispo County just hit a licensing milestone. On May 23, 2023, Kyle Wiens became the 2,000th person to pass the amateur radio exam given by CPARC since they started in 2009.

Wiens, now KO6ABA, is a Cal Poly alumnus and CEO of iFixit, a company that produces electronics repair guides for consumers. After learning about the approaching landmark, Wiens expressed immediate interest in being that 2,000th licensee.

Weins and several interested members of the iFixit staff took a course from CPARC officers Mathew Shaham, KM6WIU, and Hunter Herring-Alderete, KN6RJA. Then they took an exam.

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Radio Pictorial



Upper Right Photo Shows Captain A. J. Hillary, Master of the Mail Boat "President," Receiving Information By Radio as to the Number of Bags of Mail on Board an Incoming Liner. Above: A Picture of a One-Kilowatt Ship Type of Quenched Spark Transmitter. This is the Most Efficient Form of Spark Transmitter, But, Due to the Greater Efficiency of C.W., They Are Being Converted Into the Latter. Aside From the Quenched Spark Gap, All the Other Apparatus is Made Use of in the Conversion.



Above is a Photo of Professor Low and the Apparatus With Which He Can Wireless Photographs, Just as a Voice is Wireless. Professor Low Was Granted His First Patent in 1917. Left: A Boy Scout of Troop 301, New York City, Operating a Portable Radio Set While Out on a Hike. The Outfit Both Sends and Receives and Was Perfected by Boy Scouts of the Above Troop. It is Entirely Self-Contained and Uses Both "A" and "B" Batteries With But One Tube.

Buzz's
July Safety Tip(s)
Continued from page 5

Sparklers Are Dangerous

Every year, young children can be found along parade routes and at festivals with sparklers in hand, but sparklers are a lot more dangerous than most people think.

Sparklers burn at about 2,000 degrees – hot enough to melt some metals. Sparklers can quickly ignite clothing, and children have received severe burns from dropping sparklers on their feet. According to the [National Fire Protection Association](#), sparklers alone account for more than 25% of emergency room visits for fireworks injuries. [For children under 5 years of age, sparklers accounted for nearly half of the total estimated injuries.](#)

Consider using [safer alternatives](#), such as glow sticks, confetti poppers or colored streamers.

Received the following information from Riki Kline (K7NJ)



Newsletter and Hamfest Flyer



HamfestFlyers-Rd.pdf



July 2023.pdf

Click on link to view



Ride The Gap at Parowan, Utah

On Saturday June 3, 2023 a number of RCARC club members arose at what I call zero dark thirty and made their way to Parowan, Utah to participate in the in the Ride the Gap Bicycle Race. Club members were assigned various geographic locations along the four different race routes along with a Sweep and response vehicle to provided race communication for the event. Race communication was set up at the Iron County Government Center in Parowan.

The race consisted of 4 routes, Full Century – 100 miles, 75 miles, Metric Century – 55 miles and citizens 30 miles. All races started and ended at Lions Park in Parowan. In addition, all races passed through the Parowan Gap.

A little History on the Gap

Approximately 15 million years ago, a long slender section of sedimentary rock sheared from the earth's crust along parallel fault lines. This up-thrown block, later named the Red Hills, began to inch its way above the surrounding valley floor. At the same time the block was rising, a stream was cutting a path perpendicularly across the ridge. For millions of years the uplifting of the ridge and the down-cutting of the stream remained in equilibrium.

Continued erosion by wind and rain have shaped the gap into the pass seen today.

Parowan Gap Petroglyphs

Several centuries ago Native Americans traveling through the area stopped and pecked designs onto the smooth faces of large boulders found on the east side of the gap. Over the years many of the boulders have been covered with these chiseled figures known as petroglyphs.



See Pictures on page 12

Ride The Gap at Parowan, Utah

Continued from page 11



Kevin (K2MFK), Steve (N6NPA) and Dennis (W6DLW) sharing a moment before Race start at Net Control.



Sylvia (N7SIY) and Maddie (KK7FLL) holding down the fort at the Start/Finish Line.



Dennis (W6DLW), Steve (N6NPA) and Kevin (K2MFK) handling race traffic.



Brant (KJ7LTQ) portable set up for field use at the Start/Finish Line.



Aid Station 2 which was at or near the Petroglyphs
Linda (KG7PBX) and George (AL7BX) were assigned this location.

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Australian Government to Resume Amateur Licensure, Deed Delegation Ends

The Australian Communications and Media Authority (ACMA) said they will resume responsibility for amateur radio licensing in the country. As [first reported](#) by the Wireless Institute of Australia, the "new, more effective arrangements" come as ACMA reported that the Australian Maritime College (AMC) has decided not to extend a deeded arrangement that delegated licensing of radio amateurs to the school beyond February 2024. AMC has been responsible for operator exams, issuing qualifications, and recommending that ACMA issue a call sign to an applicant.

Australia issues three license classes: Foundation, Standard, and Advanced. Currently, tests are administered by volunteer assessors, often associated with radio clubs, who are accredited through the AMC. ACMA proposes to keep that same corps of volunteers, but to have them directly administer testing on behalf of the government. Those interested in being ACMA-accredited assessors may apply to the agency.

ACMA plans to introduce the new accreditation scheme and class licensing arrangements in August 2023

This little guy was trying to hitch a ride with Terry & Dennis (W6DLW). It attached itself to the driver's side rear door at Summer Field Day.



Bonnie (K17WEX) stated it was a Jumping Spider. It had laid eggs before found.

It was removed and released back into the wild.

Ham Radio Licensee Hit With \$24,000 Fine for Jamming Net

QST de W1AW
Special Bulletin 5 ARLX005
From ARRL Headquarters
Newington CT June 5, 2023
To all radio amateurs

California Licensee Hit With \$24,000 Fine for Jamming Net, Failure to ID: FCC

An investigation by the Federal Communications Commission (FCC) results in a large fine against a California amateur radio license holder.

A Notice of Apparent Liability Forfeiture (NALF) for \$24,000 has been filed against Phillip J. Beudet, N6PJB, of Burney, California.

According to the filing, the penalty is for Beudet "willfully and repeatedly interfering with the radio communications of the Western Amateur Radio Friendship Association (WARFA) while it was attempting to hold a regularly scheduled net and for failing to provide station identification on amateur radio frequencies."

FCC agents used direction finding techniques during November and December of 2022 to track the interfering signals to Beudet's home station. Agents "heard him playing recordings on 3.908 MHz that caused interference to the ongoing WARFA net while failing to provide his assigned amateur call sign," the document stated.

STEAM Education

Steam stands for Science, Technology, Engineering, Arts and Mathematics.

As part of the S.T.E.A.M. classes at the Annual LDS Home Educators Conference in Salt Lake City, UT the last week of May. David (K1AN) and Heather (W8GEM) Anderson, Members of the Yavapai Amateur Radio Club from Arizona, taught several technology classes. Along with teaching about robots and electronics, they also taught basic radio science, Morse code, and did an activity where 15 students were able to get on the radio for the first time and make contact with members of the Utah VHF Society in the Salt Lake Area and pass some traffic to them. They did a great job with their classes and many of the students left with the goal of getting their ham licenses before the next conference.



Pictured. RCARC youth member Aaron Moore KK7GAX, with the help of David Anderson K1AN, makes a contact during the LDSHE Conference in May. Aaron is a member of RCARC.



The June Book giveaway winner is Laurel Snodgrass (KJ7ZNT).

RCARC Holds June 2023 Ham Radio Gear Swap Meet

Continued from page 8



Terry West talking with a couple that drove in from Nevada.



Fred (KI7TPD) explaining about an antenna he holding in his hands.



Linda Blanchard displaying a collection of Don Blanchard's (SK) radio gear.

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RCARC Summer Field Day 2023

Continued from Page 6



The mast is on its way up to first position before extension upward.



First section of the mast is up. Volunteers checking everything before mast is raised further in the air.

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Antenna and Tower are up and ready to use.



Our Field Day view looking East from the pavilion.

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RCARC Holds June 2023 Ham Radio Gear Swap Meet

Continued from page 14



More gear for sale.



Ken Munford (K7KM) talking to a member about a radio for sale.



Ken Munford (K7KM) (sitting) talking with attendees.

Cal Poly Amateur Radio Club achieves 2,000th License Milestone

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The session had 28 applicants and was the largest group of the year held by CPARC's Volunteer Examiners. Alumnus Marcel Stieber, AI6MS, served as session liaison and worked closely with student lead Andrew Fahey, KN6FIJ, to coordinate the exam.

CPARC uses an accelerated course licensing technique that became popular through Dr. Dennis Derickson's, AC0P, Freshman Licensing Initiative which started in 2011. Up until 2022, when the FCC began issuing a fee for new licenses, the initiative provided class credit in the introductory course, Electrical Engineering E-111, for obtaining an amateur radio license.

The effort gave new electrical engineering students a preview of topics covered in further classes. It also afforded students a practical outlet for skills like radio contesting and volunteering as communications support for events. At the peak of the initiative, CPARC was licensing more than 100 operators in one 50-minute class period.

"It's a big milestone. Most exam teams don't make it to license number 2,000. I'm really proud to support the students running these exam sessions," Stieber said after the exam session. As the last papers were graded, the majority of student applicants passed in addition to every member of the iFixit crew



CPARC VE team with group from iFixit. [Marcel Stieber, AI6MS, photo.]

RCARC EComm Group Meets

On June 15, 2023 RCARC EComm group members came together at the Cedar City Heritage Center.

Dennis (W6DLW) brought the meeting to order and introduced Speaker: Austin Smith, Emergency Services Coordinator for the Southwest Utah Public Health Department (SWUPHD). SWUPHD covers the 5 Southern Counties in Utah.

Austin provided an overview of the services that they provide such as educational services, tracking diseases, travel consulting, vaccinations, baby your baby, birth and death certificates, developmental screening, WICK, community health, car seat inspections, Tobacco prevention and education, environmental health, septic inspections, foodservices, food handling permits, inspections etc., body art facilities, swimming pools (public), drinking water (public), tobacco compliance, emergency preparedness, hospital county etc. emergency coordinators, emergency training, flood mediation, radiation detectors, etc. Stop the bleed, radio communications, (public services), Public Health points of dispensing (PODS), flu shots, etc. opioid prevention (Narcan) and training, access and functional needs, power dependent medical needs, etc. Medical Reserve Corp, animal testing (dog/animal bite).

Austin's presentation was eye opening to say the least. Thank you, Austin, for your time and wealth of knowledge.

As the meeting progressed into new business Dennis (W6DLW), shared with the attendees that the EComm Board would be presenting several training classes over the next few months. The first will be the Incident Command ICS100 class which is an introduction to the ICS System. This will be an online class through the Federal Emergency Management Agency (FEMA). FEMA utilizes the Emergency Management Institute (EMI) for these classes. Information on how to register for the online class will be sent to members in July.

In addition, Ron (K7HDX), Fred (KI7TPD) and Linda (KG7PBX) will provide Winlink Training over the next few months. It will include Software and Hardware needed. Learning how to send messages, ICS Forms, using HF and VHF repeaters, peer to peer etc.

Continued next column

Also in the making will be an EMP presentation and some type of Table Top Exercise and possibly an active shooter presentation early next year.

Lastly, Brad (WA7HHE) gave an update on the upcoming SWUPH Department July 11, 2023 ESF8 Coalition Communications Exercise.

Meeting Adjourned at 6:31 PM.

See Pic's below:



Dennis (W6DLW) bringing the meeting to order and introducing speaker Austin Smith (W1EPR) SWUPHD).



Austin Smith (W1EPR), SWUPHD presenting his presentation.

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Ride The Gap at Parowan, Utah

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Riders getting ready at the start line.



Aid Station on Midvalley Rd. in Enoch.



The long road to Minersville on the 100-mile course.



The race has started.



Mechanical Issues.

Continued next column

When did the amateur radio expression of 73's come about?

73 -- Ham lingo for "best regards." Used on both phone and CW toward the end of a contact.

The first authentic use of 73 is in the publication *The National Telegraph Review and Operators' Guide*, first published in April 1857. At that time, 73 meant "My love to you!"

In the National Telegraph Convention, the numeral was changed to a friendly "word" between operators.

In 1859, the Western Union Company set up the standard "92 Code." A list of numerals from one to 92 was compiled to indicate a series of prepared phrases for use by the operators on the wires. Here, in the 92 Code, 73 changes to "accept my compliments," which was in keeping with the florid language of that era.

Over the years from 1859 to 1900, the many manuals of telegraphy show variations of this meaning. Dodge's *The Telegraph Instructor* shows it merely as "compliments." *The Twentieth Century Manual of Railway and Commercial Telegraphy* defines it two ways, one listing as "my compliments to you;" but in the glossary of abbreviations it is merely "compliments." Theodore A. Edison's *Telegraphy Self-Taught* shows a return to "accept my compliments." By 1908, however, a later edition of the Dodge Manual gives us today's definition of "best regards" with a backward look at the older meaning in another part of the work where it also lists it as "compliments."

"Best regards" has remained ever since as the "put-it-down-in-black-and-white" meaning of 73 but it has acquired overtones of much warmer meaning. Today, amateurs use it more in the manner that James Reid had intended that it be used --a "friendly word between operators."



For Sale Buzz's July Hot Tip

Hey everybody, my buddy Dennis (W6DLW) has a great deal for you. He is willing to let go of his Lewis & Clark Commemorative 14-inch Dutch Oven with carrying bag for the unreal amount of just \$100.00 OBO for both the oven and the carrying bag.

The Dutch oven and carrying bag have never been used. The oven is in its original box.



Don't let this great opportunity pass you buy. If you are a Dutch oven aficionado you know that this is a great value.

As stated above the oven and carrying bag have never been used.

If interested contact Dennis (W6DLW) at 760-953-7935 or send an email to w6dlw@outlook.com.

RCARC EComm Group Meets

Continued from page 17



Austin Smith (W1EPR SWUPHD) referring to several handouts on table regarding the various programs they offer.

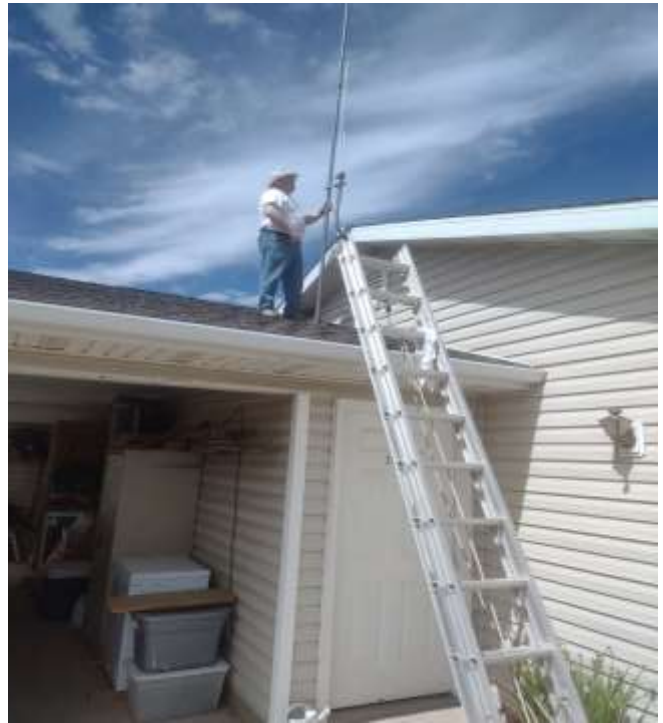


Bill (K6QOG) signing in.

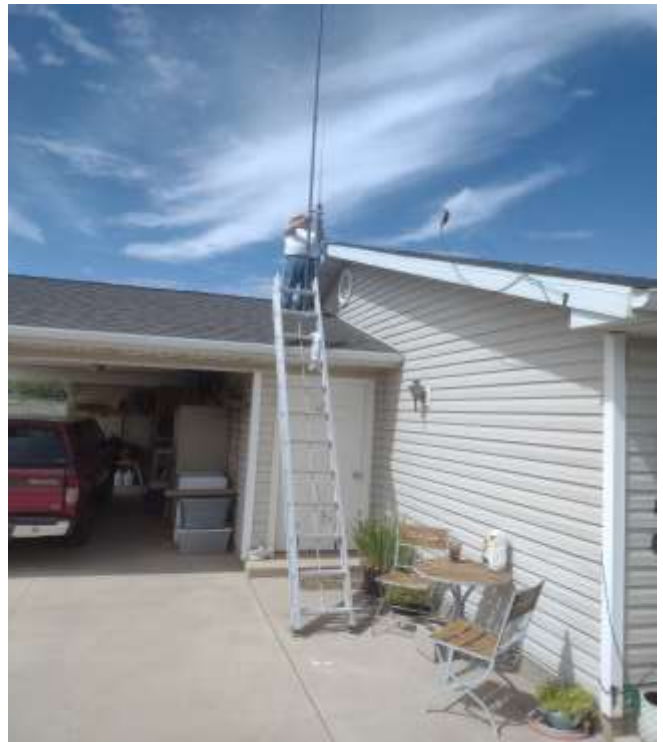


Attendees listening to Austin's presentation.

Club member Ann MacDonald (KJ7OGZ) gets new HF antenna installed.



Dick (K7ZI) making some adjustments to Ann (KJ7OGZ) new HF antenna installation. Ken Munford (N7KM) was there assisting but not pictured.



Additional Pic of the installation.

RCARC Summer Field Day 2023

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Fred (K17TPD) bring power in from the generator left of the trailer down in the valley.



Work Party lunch break before the action starts at 1200.



Ken (N7KM) left, Larry (N7SND) right and Kevin (K2MFK) standing setting up Larry's radio.



Field day is underway. Ron (K7HDX) working 20-meter phone.



Additional Antenna's being set up.



Craig (KK7BNZ) and George (AL7BX) working 20-meter FT8 Digital.

Continued next column

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RCARC June Meeting Pic's



Members conversing prior to the meeting start.



The gangs all here. Full house tonight.



Pledge of Allegiance



Linda (KG7PBX) providing the treasurer report.



Fred (KI76TPD) bringing meeting to order.



George (AL7BX) providing an update on the repeater Systems.

Continued next column

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RCARC Summer Field Day 2023

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Potluck time is fast approaching and Brody (K7VXV) is at the ready with Dogs and Burgers.



Brody (K7VXV) and his dad clowning around.



Dick's (K7ZI) famous Dutch Oven potatoes.

Continued next column



Potluck Dinner is underway.



Second wave fill their plates.



Brant (KJ7LQ) working 6-meters.

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RCARC June Meeting Pic's

Continued from page 22



Fred (KI7TPD) and Bonnie (KI7WEX) accessing the random number for the book give away. See winner on page 14.

Meeting Program: Member portable go kits



Brant (KJ7LTQ) with his flag pole mast and portable radio unit.



Closer look at radio unit.

Continued next column



Bruno with his portable to go kit.



Another view of Bruno's (KG7VVN) portable go kit.



Craig (KK7BNZ) showing & explaining his go kit.

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RCARC Summer Field Day 2023

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Sunday Morning



Terry West and Brody (K7VXV) getting breakfast started on the flat top.



More of a master piece breakfast created by Terry West and Brody (K7VXV).



Brody (K7VXV) scrambling the eggs.



Dennis (W6DLW) working 20-meter phone.



Fred (K17TPD) and Brody (K7VXV) having a little fun with the Mic.

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Continued next column

RCARC Summer Field Day 2023

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The Antenna Tower is down. Trailer is secure and waiting to be towed to storage.

2023 Field Day Stats

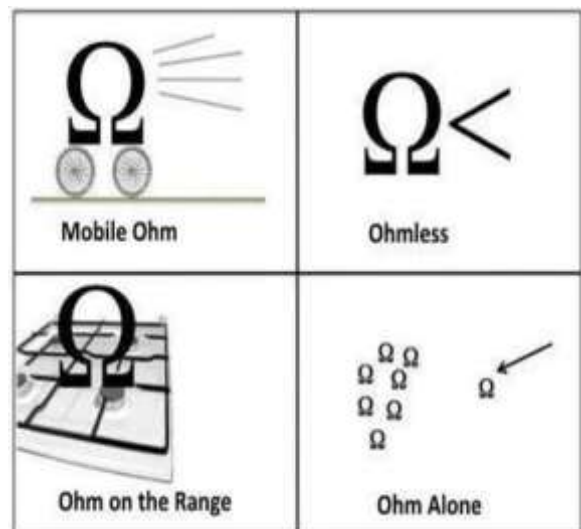
Total Contacts by Band and Mode

Band	CW	Phone	Digital	Total	%
40	110	60	0	170	47
20	0	93	25	118	33
15	0	5	30	35	10
10	0	6	17	23	6
6	0	0	14	14	4
Total	110	164	86	360	100

Total Contacts by Operator

Call Sign	Total	%
K7NJ	110	31
K7VXV	73	20
K7HDX	38	11
AL7BX	32	9
KA1CMQ	32	9
KK7BNZ	28	8
KI7TPD	23	6
W6DLW	9	3
N7SIY	4	1
?	2	1
KG7PBX	2	1
KK7MDT	2	1
KK7FLO	1	0
W1EPR	1	0
TOTAL	14	

HAM HUMOR



RCARC June Meeting Pic's

Continued from page 24



Dick's (K7ZI) Suit Case to go kit.



Another view of all Fred's portable off grid equipment.



Side two of Dick's suit case to go kit.



Ron (K7HDX) showing & explaining his two portable go kits.



Fred (K17TPD) off grid portable power supply.



Ron's (K7HDX) Harbor Freight Amo Box portable radio set up.

Continued next column