

RAINBOW CANYONS AMATEUR RADIO CLUB NEWSLETTER

CEDAR CITY, UTAH



Club Websites: www.rcarc.info OR www.rainbowcanyons.com Number 3 – Vol. 7 – July 2021

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.

2021 Club Officer's

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CQ, CQ, Happy 4th of July



Presidents Message

Greetings fellow HAMs!

It has been a busy month with a wonderful field day! Field Day was a great success with 323 contacts, 84 CW on 40, 20 and 15 meters, 67 phones on 40 and 20 meters and 172 digital contacts on 80, 40, 20, 15, 10 and 6 meters! The weather was good this year 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 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. We also had a visit from our ARRL section representatives who were visiting all of the Utah club Field Day activities. Overall, I think everyone had a great time and I hope you can take the enthusiasm forward and play on the radio more!

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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. Wednesday – 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.

Local Repeaters:

146.980 MHz – Tone 100.0 Hz

146.940 MHz – Tone 100.0 Hz

146.760 MHz – Tone 123.0 Hz

147.160 MHz + Tone 100.0 Hz.

448.800 MHz – Tone 100.0 Hz

146.680 MHz – Tone 100.0 Hz

Remote Bases:

449.500 MHz – Tone 100.0 Hz

449.925 MHz – Tone 100.0 Hz

ILRP/Echolink

449.900 MHz – Tone 100.0 Hz

Save The Date

July 13, 2021

RCARC Club Meeting.

7:00 pm. Cedar City Senior Center,
489 E. 200 South. [Program to be determined](#)

August 10, 2021

RCARC Club Meeting.

7:00 pm. Cedar City Senior Center,
489 E. 200 South. [Program to be determined](#)

September 14, 2021

RCARC Club Meeting.

7:00 pm. Cedar City Senior Center,
489 E. 200 South. [Program to be determined](#)

October 12, 2021

RCARC Club Meeting.

7:00 pm. Cedar City Senior Center,
489 E. 200 South. [Program to be determined](#)

President's Message

Continued from page 1.

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 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!

We will have a club Swap Meet July 10th starting around 10:00am so get out sell or buy some radio equipment!

Fred (K17TPD)

RCARC Club Breakfast

Come join us the first Saturday of every month at 9:00 a.m. for breakfast at the Pastry Pub located at 86 W. Center Street, Cedar City. Check out their website at:

www.cedarcitypastrypub.com



Happy Birthday and
Anniversary to those
celebrating in July



Happy Fourth of July

Breakfast & Friendship Net Awards June 2021

Breakfast Net		Friendship Net	
First Place	Second Place	First Place	Second Place
N7SND - Larry	KF7CIN - Clare	K7HDX - Ron	N7SND - Larry
N7SIY - Sylvia	KI7LUO - Melody	N7WWB - Darlene	KG7VEJ - Jack
		W6DLW - Dennis	K7WEP - Paul
	Third Place	KI7LUM - Bruce	
	KC6WFI - Tony	KI7SXJ - Isaiah	Third Place
	KI7SCX - John	K7NKH - Lee	KA7J - Lance
			KI7DRE - Larry
			N7SIY - Sylvia

Ham radio: A hobby still alive and thriving

BOSTON – Alan Lewis pledged to do two things when he retired: learn to weld and get an amateur radio license. He did both, and then took his amateur radio license one step further.

Almost immediately after getting his license, Lewis said he started getting involved in the public service aspects of amateur radio, including emergency communication.

Amateur radio, or ham radio, for a very long time was the only federally licensed hobby. The word ham refers to amateur radio operators.

The Federal Communications Commission considers amateur radio a service to the public, to be pursued for the sake of advancing the art of radio and providing emergency communication. All frequencies allocated to amateur radio are shared among operators, according to the FCC.

On a large scale, the amateur radio service was called into action as recently as 2017 following Hurricane Irma and Maria, according to the Amateur Radio Relay League (ARRL), a national association for amateur radio. Amateur radio operators were tracking the progress of the storms and helping to communicate needs for supplies and coordinate rescues across the Caribbean. After the storm, hams, as they call themselves, also helped to set up a communication network across Puerto Rico, according to the ARRL. Groups of amateur radio operators on the air, called nets, helped before, during and after the hurricanes in various ways.

Lewis is the manager of the morning session of a regular emergency net, during which he and other hams check in at a certain frequency to prepare for receiving emergency traffic every day, such as maydays for boats in distress and to help coordinate rescues.

Operators on emergency nets don't just sit there and listen, he said. They talk and check in with each other, so it's a social activity as well as a service. Lewis thought that no one would come back on the net every day if they were just sitting there and listening.

"That's how we get people to keep it going," he said.

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RCARC July Meeting Book Giveaway

The book shown below will be awarded to one of our RCARC members at our club meeting on July 13, 2021.

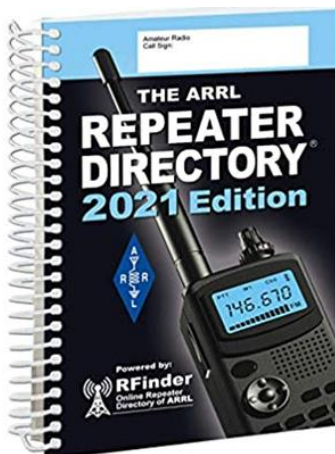
This book is being donated by Linda Shokrian (KG7PBX).



The meeting start time is 7:00 PM. You have to be there to win. See you there.

RCARC Book Giveaway Winner.

The winner of the June 8, 2021 book giveaway. The ARRL Repeater Directory, 2021 Edition is:
Ken Richter (KR7KR)



Congratulations
Ken

Contact Us.

Mailing Address:

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

Club E-mail:

cedarcity.rcarc@gmail.com

Newsletter E-mail:

rcarcnewsletter@gmail.com

Website

www.rcarc.info

www.rainbowcanyons.com

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

Save the Date
RCARC Swap
Meet coming
July 10, 2021
@ 10:00 A.M.
Main Street
Park in the
Pavilion



Buzz's July Safety Tip(s)



Sparkler and Fireworks Safety

More than 50,000 fires are caused by fireworks every year. Take the proper precautions when operating fireworks.

- Never disassemble or try to make your own fireworks.
- Don't point sparklers, or fireworks at yourself or others, especially while they're being lit.
- Only light fireworks on the ground and in areas that are dry and fire resistant.
- Don't attempt to light multiple devices at the same time.
- Never allow young children to handle fireworks or sparklers.
- Always keep a portable fire extinguisher close by. Also keep a water hose or buckets of water nearby to put out fires.
- If fireworks malfunction, don't relight them! Douse and soak them with water then [throw them away](#).
- Resist the urge to bring your pet to a fireworks display. The [safest place](#) for them is at home where it's familiar, quiet and not crowded.

Water Activity Safety

As July is one of the hottest months of the year, many families turn to water activities to beat the heat. However, even fun water activities have serious risks if the proper precautions aren't taken.

- Review safe boating practices.
- Never consume alcohol while driving a boat.
- Before boating, always check that there are enough life preservers on hand for every passenger.
- Set water safety rules for your family.
- Pools should be enclosed completely with a fence to restrict access to the area. Consider installing [wireless outdoor sensors](#) that will alert you via phone or with a chime inside your home if the sensors are activated.
- Keep a first aid kit near the pool.

Continued on page 6

Grilling Safety

July is one of the peak months for grilling fires. Enjoy grilling your favorite meals this summer while also keeping your family safe.

- Check gas grill hoses for cracks, holes and leaks.
- Keep children away from grills. Gas leaks, blocked tubes, and propane tanks can be a cause of grill fires and explosions.
- Never grill indoors, in the garage, in any enclosed area or on a surface that might catch fire.
- Keep the grill at least two feet away from decks, siding, branches and any outdoor equipment that can catch fire quickly.

If you follow these simple 4ths of July safety tips, your entire family will be sure to have a safe and memorable holiday.

Los Angeles ARES Northeast District Conducts Exercise, "Return of the Operators"

On May 31, the ARES LAX (Los Angeles, California) Northeast District conducted its fifth Saturday Exercise - dubbed *SatEx* and themed "Return of the Operators" - which was deemed a "smashing success." Assistant District Emergency Coordinator for the Hollywood district, David Ahrendts, KK6DA, was credited with devising a challenging exercise scenario that included deteriorating conditions and focused on building an ad hoc network of stations for the response.

Event and Out-Of-Area Traffic

The exercise began with a simulated earthquake at 0830L. Participating stations sent DYFI ([Did You Feel it](#)) reports to the US Geological Survey (USGS) and welfare messages to their out-of-state contacts through HF and VHF gateways. Stations were encouraged to use the K6YZF-11 VARA FM digipeater to connect to Winlink hybrid RF/email gateways AJ7C, W6BI and K6IRF.

Continued next column

Hospital Message Traffic

At 0900 the hospital net commenced operation on the southern California [Disaster Amateur Radio Network](#) (DARN) and stations with digital traffic were directed to *ARES 501* (local designation for an emergency simplex frequency) to pass hospital traffic to the Medical Alert Center (MAC). No infrastructure digipeaters were to be used, simulating deteriorating conditions post-event. In an ironic twist, life imitated exercise with conditions actually deteriorating on the 2-meter band after 0900! However, without skipping a beat, stations affected asked for relays, and digipeater operators and other stations offered to act as relays and digipeaters. Their training kicked in and stations overcame adverse conditions effectively. See diagram for a graphic look at the hospital network.

Hospital stations sent a list of check-ins, Hospital Status Assessments, Resource Requests, and check-outs using Winlink. Beacons Hospital Service Levels using APRS were transmitted to the MAC station during the exercise.

The MAC station responded with acknowledgements and replies containing simulated approvals and ETAs for resources requested. **Continued page 15**

Southwest Utah Public Health Department's (SWUPHD) Medical Reserve Corps Honored.

On June 8th SWUPHD hosted a luncheon for their Medical Reserve Corps (MRC) Volunteers.

MRC Coordinator, Suz Roam greeted the attending volunteers. This luncheon was to recognize MRC volunteers who participated in the COVID19 Clinic's and other support areas.

Suz stated that there are 520 MRC Volunteers in the 5 Southern Counties, which are Washington, Iron, Kane, Garfield and Beaver. She further stated that 140 volunteers assisted the Health Department with a total 4,380 hours volunteered during these clinics.

Attending volunteers were presented a certificate and a commemorative coin of appreciation for their service to the Health Department.

Rainbow Canyons Amateur Radio Club (RCARC) members Bruno DeBacker (KG7VVN), Ron Shelly (K7HDX), Bill Stenger (K6QOG) and Terry West are MRC members and gave of their time to assist in various capacities during the clinic's. There may have been other RCARC members that participated as well.

In addition, the SWUPHD MRC program was established in June 15 years ago.



Terry West with her certificate and commemorative coin.

Continued next column

Below are pictures of both the front and back of the coin.



Top picture front side of coin:

Reads **"Southwest Utah Public Health Dept."** across the top.

Reads **"Prevent-Promote-Protect"** across bottom.

Bottom picture rear side of coin:

Reads **"COVID-19 Response Team"**.



A Slithering Encounter

By Bruno De Backer (KG7VVN)

I had an uninvited guest trying to sneak into my pick-up truck on Thursday June 3, 2021.

As I walked by my barn, I heard a bird commotion so I investigated further and discovered a 5-foot gopher snake on the wood rack next to my pick up.

I thought it would be neat to take a picture of the snake to show to the grand kids when they come to visit at the end of the month.

I went back to the house to grab my phone.

When I returned the intruder was not on the wood rack but on the hood of the truck. I decided that I would let it be as I appreciate its help keeping the field mice and squirrels under control!

I returned a few minutes later to find the inquisitive beast hanging from the passenger side of the vehicle. I thought it was pretty amusing to see this animal trying to hang onto the wind deflector to make it to the ground. I was waiting for it to drop ungracefully to the ground at any moments.

After a few minutes of struggle, it decided to change strategy and began to crawl back under the window wind deflector. I grew curious as to how this critter was going to impress me with its acrobatic prowess. Within a minute, I saw the head of the snake disappear thru the side of the door!? I had left the window cracked open about half an inch to allow for hot air to escape.

So, I ran to the driver side and opened the door to confirm my suspicion. Indeed, the little rascal was working his way into the cab! I had visions of driving down the road and having the fellow traveler climb up my leg and rest comfortably in my lap!!

It was time to terminate his plans so I returned to the other side and grabbed it by the tail but it wouldn't budge. I had to dislodge him with my left hand and when I did, the snake swung right into my lap. I fell backwards into a spool of barbed wire I had stored next to the truck.

Continued next column

For all its trouble, I let the little fellow loose to go thin out the vermin around the homestead.

I have a nice scratch on my leg and a cool story to tell the grand kids, with pictures to boot!

73, Bruno (KG7VVN)

See picture's below:



Continued on page 9

A Slithering Encounter

Continued from page 8



I'm moving on, I know when I'm not wanted.

**A Great big thanks goes to:
George Gallis
AL7BX**

George thank you for the great Antenna presentation at last month's RCARC Club meeting.

Great Presentation

**Save the Date
RCARC Swap Meet coming
July 10, 2021 @ 10:00
A.M.**

**Main Street Park in the
Pavilion**

Pictures of the 4th Technician Class. June 3, 2021.



Craig Thompson (KD6PN) addressing the class.



Class members & Instructor Ken Richter (KR7KR).



Class members going over questions and answers.

Rainbow Canyons Amateur Radio Club
Treasurer Report as of June 8th, 2021

Bank statement balance - May 1, 2021	\$2,117.67
Club Insurance	- 200.00
Rocky Mountain Power	- 15.36
Bank statement balance - May 31, 2021	\$1,902.31

Submitted by
Linda Shokrian KG7PBX
2021 RCARC Treasurer
435-867-5914

Welcome to
Amateur Radio Funnies
WE ARE HERE TO LAUGH!



Who Knew?

If you fail, never give up
because F.A.I.L. means:
First Attempt in Learning.

END is not the **END**, in fact
E.N.D. means:
Effort Never Dies.

If you get **NO** as an answer,
remember **N.O.** means:
Next Opportunity.

**CHANGE YOUR
MINDSET**

Pictures of the 5th Technician Class. June 10, 2021.



Class introduction slide and picture of instructor Don Blanchard (WA7GTU) at lower left. Don was teaching using Zoom.



Fred (KI7TPD) addressing class participants prior to session start.



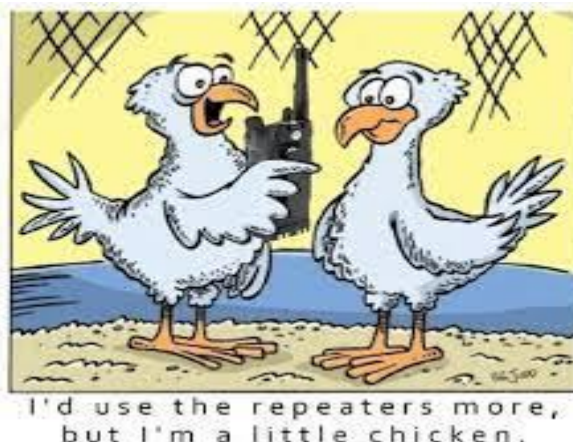
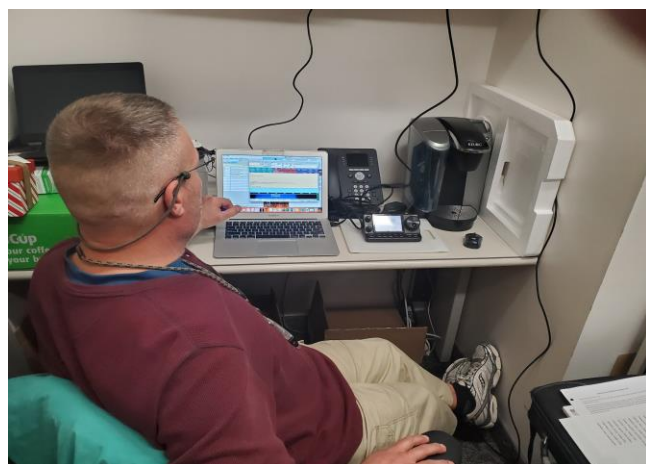
Class session underway with Don Blanchard (WA7GTU) addressing the class through Zoom.

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

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

On Wednesday June 2, 2021 E-Comm. members staffed the Radio Communication Room at Cedar City Hospital to assist in the exercise.

Pictured below is Bruno DeBacker (KG7VVN) who is monitoring the Digital Communications portion of the exercise. Not shown is Brad Biedermann who was also monitoring the digital portion of the exercise and Dennis West (W6DLW) who was monitoring the VHF Radio Communications.



Word Search

A J L W G S Z O H C J Z Q W Y Z S U P S U F K A P K Q U W H
 I H Y R F Q V V M D H O W L P O B H Q K D K L Y T V H K V A
 W V U P F Z F O K R W O I Z K Y H M R P Y E U N P O O C J X
 Y J P R K W Q Y Y D N F J O O F Z B E A F N W J I K X N Q A
 U K A U N T R A F F I C Y D E W R C F X J L D V U X S O Y E
 R F O O I I P M U C C F M G V F T G B B F Q V N Y J H E Y B
 Q I X E C O M M U N I C A T I O N Y A J X O Q L X U K U L U
 R N H U J S G A F D D U C R P L O G I S T I C S C H I E F X
 S A R L F Z C U T B H J A U T H D L N C U Z X Y O J K E Z P
 V N G A R I Q F J A G S A F E T Y O F F I C E R F R I C V E
 M C D I I M X L T O R U C U O P E R A T I O N S C H I E F I
 L E K M N E R U N N E R D D E T R Y P M I P W J B T H X U C
 T C A Q C D U R G Q E L I Q R D J P I O B S D L M T N U X I
 H H N C I P V P Y F T O Y F R E U A W N M V U H R R I V Y Q
 M I Z H D R L E B C E T A W W M W S C G R J F M Y X L V K P
 O E X U E E N I J R R S T A G I N G M A N A G E R U V E G C
 F F M D N P L T D J Q V C J T V Y V X I Q O X Y O J D R B M
 I J N G T T H O A U J Y C O S E A Y S F L Y T T O E X E H K
 Q W B G C E W K Y C L D I F O G V C D L Z U A W J D K E U P
 V W I U O A O B S E R V A T I O N H C O Y J H U W U G I D D
 Y T P B M M G K N J M B J A K L B T B I Q I L H Z C O T E M
 E R E Z M I R J F D G I V S Z O H A U A N M E R I A L M E B
 J T Z F A F M T L Q S A E X J Y H Z X O I E I M U T Y X A P
 P O U Q N Y I U R C U Y Z W H T W Q I W D A M O N O B H G V
 M F F Z D X B E U K H Z I H X E R S C L X F M A G R G M E L
 O K S B E G B R T E J L I R E G I S T R A T I O N O E W E W
 B A M T R N G P L A N N I N G C H I E F U P Y X S A H E F Y
 Y R Y I L F Y G A Y G I R X G R E E T E R J P F E X G H W H
 B K I T J A K V G Z N J X P K E B M P A E H L B D C B E X Z
 Q K X B O X P P R O Z A C W Y W U U H K W E E N C J W Z R M

Incident Commander	Operations Chief	Vaccine Manager	Traffic
Staging Manager	Safety Officer	Planning Chief	Greeter
Logistics Chief	Communication	Observation	Runner
Registration	Finance Chief	Med Prep Team	PIO
Educator	Greeter		

Wild Fires - Check out this URL for Utah Wild Fire Information
<https://utahfireinfo.gov/>

RCARC June Monthly Meeting Pictures.



Attendees waiting for the meeting to get started.



Fred (K17TPD) interacting with attendees and conducting club business.



Ron (K7HDX) updating attendees on several upcoming events, Fire Road Race, Half Marathon and Beaver Marathon.



George (AL7BX) commencing with his antenna presentation.



George (AL7BX) answering questions from the attendees.



Pledge of allegiance

Continued next column



RADIO NEWS

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



Vol. 3

JULY, 1921

No. 1

WHY WE DO IT

A CHAP from the West wrote in to us the other day in the following strain. Says he, "I read your Editorials every month, but somehow or other I feel that they are a waste of space. Why not use this good space and give us some how-to-make-it stuff and the like, instead of telling us what we should do and what we cannot do most of the time?"

This letter is well put and to the point, and we like it. As for ourselves, we confess that writing editorials is about as difficult a job as we would like to have, and if we could get out of it gracefully, we would have done so long ago. However, there is our pride—which may be foolish. And then, again, we have been writing editorials ever since the inception of the magazine. A foolish idea perhaps, but then what can you expect of a poor editor who has to say something every month, whether he has anything to say or not?

Now, writing editorials for RADIO NEWS is not exactly a cinch as we mentioned above, and as the country editor is apt to say "the news is scarce." Not that news about radio and all that sort of thing is scarce—quite the contrary, there is too much of it. If our readers only knew how much material finds its way to the waste basket every month and how many articles are crowded out, they would be very much surprised. This in face of the accusation when we first started out that we would never be able to fill 48 pages of text month after month for a year to come. And now look at us! Here we are printing 88 pages a month chuck full of good radio material, and if we were a philanthropic institution instead of a dollar chasing one (and not catching the dollars at that) we might get out a 200 page book comfortably every month without much ado. But we were talking about editorials, and we are not supposed to talk shop.

Why then is a radio editorial? As far as we can figure it out ourselves, it is supposed (we say supposed advisedly and guardedly) to instruct and to encourage and perhaps to push the art forward if ever so little. We admit that this is a grand and glorious undertaking, and we also admit

that nine times out of ten, we fall down with a bad thump, and end up with a lot of QRM. If, however, we succeed only once in a while, in implanting the germ of a good idea into the cranium of a young and budding radio bug, then we feel that next month we can sling the ink as carelessly as may be.

Our readers have probably noticed often that radio amateurs, as a rule, like to imitate each other a good deal. When one gets a new hook-up or a new style panel switch the whole fraternity goes wild about it, and they all adopt it. Of course, we do not discourage that sort of idea too much, but at the same time it stifles originality, and in any new art originality is one of the vital things, which should be cultivated, and that has been the reason why most of our editorials have been along the lines of trying to bring the best out of the amateur for the benefit of the others.

Now these ideas that we try to instil in your minds are not necessarily always our own, and we do not think for one minute that in advising them we know it all ourselves. But we see so many communications, so many suggestions, so many articles that come to our desk every day that we necessarily take most of our suggestions from them. Therefore, the next time you read one of the editorials remember that it may only be the crystallization of a hundred communications coming to our desk all boiled down into a few concrete ideas. In other words, the editorial on which we justly pride ourselves is not our editorial at all, but fundamentally it originated with you, and we are sorry to say we take all the credit for it. But then that is the nature of the editorial "beast" who is "supposed" to know more than the ordinary mortal, but who, nine times out of ten, does nothing of the sort.

We started out saying that it is not always simple to get up an idea for an editorial. We admit that this month the editorial wisdom had run dry, but we simply had to fill this page and we were rather desperate about it. So you see we did not write a radio editorial after all, and we are not quite sure if the joke is on you or on us.

H. GERNSBACK.

Los Angeles ARES Northeast District Conducts Exercise, "Return of the Operators" *Continued from page 6*

In some cases, the traffic was sent directly to the MAC; in others, stations coordinated Digipeats of messages through other hospital stations.

Challenges

- *Powering stations* is an ongoing challenge. Solar panels and high-capacity batteries paired with low current draw devices proved effective remedies for some stations.
- *Location*. While some hospital stations enjoyed rooftop access, others had to operate at street level, often surrounded by buildings. It was impressive how the latter stations overcame their location challenges through creativity and teamwork. Digipeating through other hospital stations, for example, proved an effective remedy.
- *Antenna height and location*. Several stations commented on field antenna height and/or location as challenges at their sites. Mitigation suggestions from those stations included trying different deployment systems, relocating antennas and trying directionals going forward.

Successes

- Operators are well trained and displayed excellent esprit de corps.
- Traffic handling was effective in spite of challenging conditions.
- Regular training and practice prior to the exercise helped overcome in-the-field challenges during the exercise.
- Operators acted in calm, collected, professional manners and worked well together as a team.
- Even without infrastructure, stations were able to pass traffic, building an ad hoc network of hospital stations.

Continued next column

After-Action

Stations provided ICS-214 Activity Reports post-exercise. The quality of the reports was extremely high and they fostered understanding of the challenges at stations and how the operators overcame them. Some stations provided written after-action reports in addition to the ICS-214. A Zoom hot wash was conducted with participants sharing their experiences. - *Oliver Dully, K6OLI, ARES LAX Northeast District Emergency Coordinator. End.*



Ten New Hams Congratulations are in order

On June 17, 2021 at 6:00 pm. drew closer 10 students from the just ending RCARC Technician class came together at the Cedar City, Senior Center to take the Technician Class Exam.

After receiving their test and grading was complete all 10 passed and became new Ham Operators.

A great big thank you goes to the class organizers, instructors that gave of their time and knowledge.

Congratulations goes to the following:

Roger	Graves	KJ7ZOB
Dale	Butterfield	?
David	Coates	KJ7ZNP
Tim	Cutting	KJ7ZNO
Nicholas	Dalton	KJ7ZNR
Wade	Moore	KJ7ZNS
Laurel	Snodgrass	KJ7ZNT
Frank	Gagliardi	KJ7ZNU
James	Snodgrass	KJ7ZNV
James	Pomeroy	KJ7ZNW

In addition, the new Hams were entered in to a drawing to possibly win a mobile Radio, or 1 of 3 antennas. The winners are:

Nicholas Dalton	Radio
Wade Moore	Mag Mount
David Butterfield	Dual Band Antenna
Frank Gagliardi	J Pole Antenna

Congratulations to all.

RCARC Members Enjoying Breakfast at the Pastry Pub



George (AL7BX), Linda (KG7PBX), Bruce (KI7LUM) & Sheri in conversation.



Ed (KK7ZL) and wife Jan.



Kevin (K2MFK) talking with George (AL7BX) out of picture.

Continued next column.



Ann (KJ7OGZ) and Sylvia (N7SYI) enjoying breakfast.



The gang's all here. Minus me Dennis (W6DLW) as I'm taking the pictures.

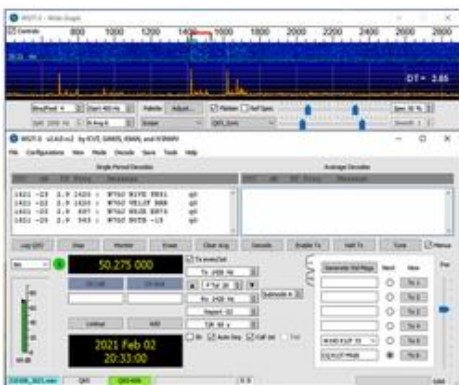
Please Take Note

Due to the ARES Winlink Training that started on Wednesday, June 30, 2021, the RCARC Morse Code Net has moved to Thursday nights @ 6 pm. The new temporary dates are:

July, 1, 8, 15, 22, and 29.

WSJT-X Version 2.4.0 Now Generally Available, Version 2.5.0 on the Horizon

WSJT-X version 2.4.0 is now available in general release. According to co-developer Joe Taylor, K1JT, WSJT-X version 2.4.0 includes the new digital mode Q65. This protocol is designed for two-way contacts over especially difficult propagation paths, including ionospheric scatter, troposcatter, rain scatter, TEP, EME, and other types of fast-fading signals.



"On paths with Doppler spread more than a few Hertz, the weak-signal performance of Q65 is the best among all WSJT-X modes," the [Quick Start Guide](#) asserts.

WSJT-X version 2.5.0-rc1 (beta) has been released. According to the [Release Notes](#), in version 2.5.0, "the Q65 decoder has been enhanced to measure and compensate for linear frequency drift in Q65 signals."

Q65 uses 65-tone frequency-shift keying and builds on the demonstrated weak-signal strengths of QRA64, a mode introduced to WSJT-X in 2016. Q65 offers user message and sequencing identical to that in FST4, FT4, FT8, and MSK144. It includes a unique tone for time and frequency synchronization. As with JT65, this "sync tone" is readily visible on the waterfall spectral display. In addition, Q65 provides a sensitive "sync curve" near the bottom of the waterfall window.

Continued next column

Testing showed that Q65 will enable stations with a modest Yagi and 100 W or more and to work one another on 6 meters at distances up to around 2,000 kilometers on most days of the year, in dead band conditions.

For the complete announcement, see the [WSJT-X website](#). Read [an expanded version](#).

Separate SATERN Nets Now Operational

On June 2, The Salvation Army Team Emergency Radio Network (SATERN) launched a new SATERN International SSB Net on 14.325 MHz. Net sessions will take place Mondays, Wednesdays, and Fridays at 11 AM Central Daylight Time, in cooperation with the Hurricane Watch Net ([HWN](#)), which has used 14.325 MHz for many years during its own activations. Just down the band, another net sporting the same SATERN acronym -- the Strategic Auxiliary Team Emergency Readiness Net -- has established itself on SATERN's former frequency of 14.265 MHz.



The latter net was organized by Lee Glassman, WA5LEE, a former manager of the original SATERN. The Salvation Army made the distinction clear in its announcement launching the new SSB net on 20 meters.

"The new SATERN organization (Strategic Auxiliary Team Emergency Readiness Net) is not associated with The Salvation Army," SATERN National Committee Chair Michele Heaver told ARRL.

Continued on page 18

"At this time, SATERN (Salvation Army Team Emergency Radio Network) is no longer associated with Lee Glassman and does not support his new efforts with the Strategic Auxiliary Team Emergency Readiness Net. This is a breakaway organization."

The SATERN split will entail a new "updated and revised SATERN website" in the near future, The Salvation Army (TSA) said in its announcement. The new SATERN under Glassman has established [its own web presence](#).

On his [QRZ.com](#) profile, Glassman, an Assistant Emergency Coordinator for South Texas District 14 Amateur Radio Emergency Service (ARES), cited "a conflict of ideals." Among other things, he said he was put off by a building list of requirements imposed by TSA that included credentialing and background checks.

Glassman told ARRL that the net retained the SATERN acronym because it was familiar to net users, "plus the fact that TSA pretty much decided to dissolve the daily 20-meter net with no plans to replace it, and we did not wish the regulars to be kept hanging.



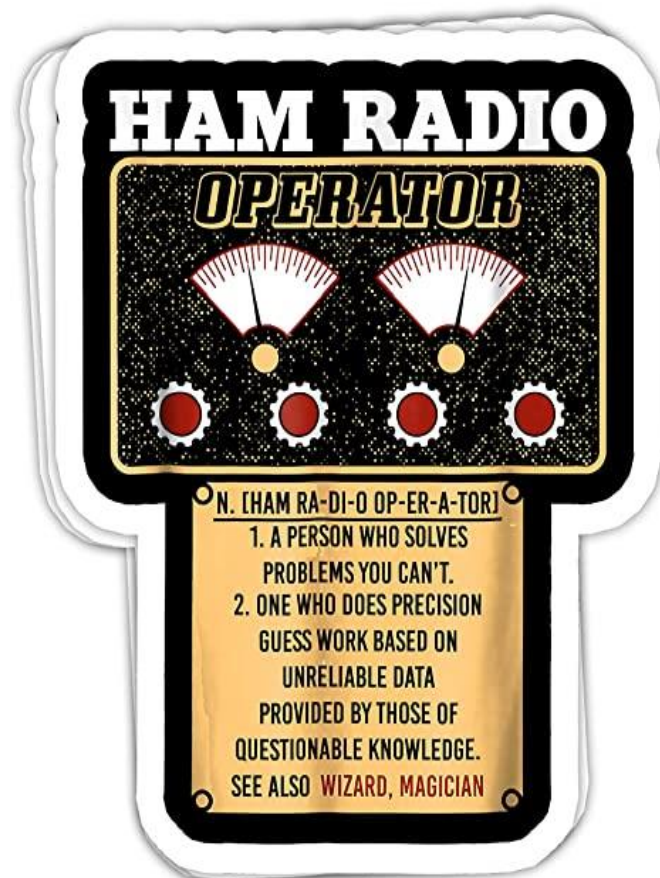
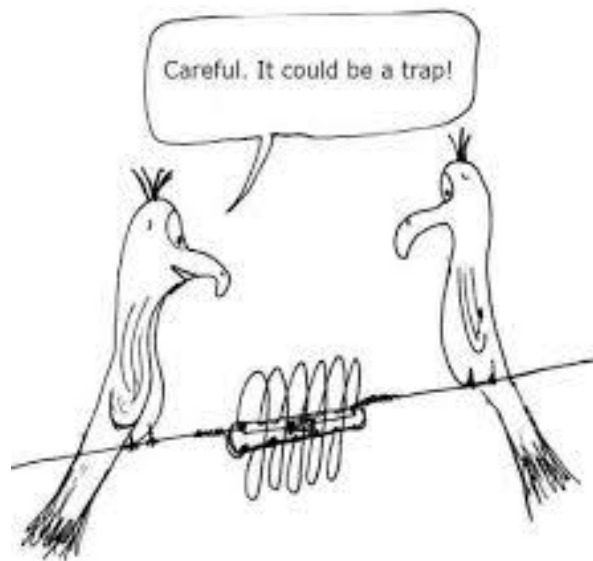
We changed what the acronym stands for. We also have a pending trademark on the name and logo."

"We do not disparage TSA, nor do we permit others to do so," Glassman said. "We wholly encourage everyone to support TSA, ARES, ARC, and any other group that they wish."

Glassman lists himself as co-manager of the Strategic Auxiliary Team Emergency Readiness Net, along with Ned Griffin, KL7QK. The net's stated purpose is to provide backup communication support during disasters.

Continued next column

The "original" SATERN -- the Salvation Army Team Emergency Radio Network -- is a fully integrated Salvation Army program within The Salvation Army Emergency Disaster Services (EDS). It was organized in 1988 by Major Patrick McPherson, WW9E (SK). Read [an expanded version](#). End.





RCARC Field Day Pictures



RCARC 2021 Field Day Base of Operations.
3 Peaks County regional park.



2021 Field Day set up begins.



Fred (KI7TPD) and Russ (N7BO) placing elements together.



Brody (K7VXV) and Larry (N7SND) attaching last few elements.



Antenna and Tower are up.



Russ (N7BO) and George (AL7BX) setting up an HF Antenna.

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2021 Field Day Pictures

Continued from page 19



George (AL7BX) and crew setting up another HF Vertical Antenna.



Dick ((K7ZI) getting some assistance from George (AL7BX) reference an application set up.



Fred (KI7TPD) and David (W6FJN) installing a Band Pass Filter on the 40-meter voice station.



Digital Station setup and ready to go.



Brody (K7VXV) working 40-meter voice with Ed (KK7ZL) looking on.



Ken (KR7KR) setting up for CW with Bruno (KG7VVN) looking on.

Continued on page 24

Ham radio: A hobby still alive and thriving. **Continued from page 3**

Even someone with the most basic license can provide a public service. Amateur radio operators volunteer for races and events such as the Boston Marathon and the Head of the Charles, said Jim Wilber, a ham enthusiast. This allows for seamless and easy communication along the entire course or event.

Wilber explained that it's easy to have operators all listening to the same frequency.

"It would be so difficult to keep track of 20 cell phone numbers," he said.

Ham radio operators are locally, nationally and internationally organized in clubs and by the Amateur Radio Relay League, although being part of a club is not required to operate. Amateur radio is a community, and there's a precedent for operators to guide and mentor each other, Wilber said.

Seasoned operators sometimes help newly certified hams set up their first antennas at his local club.

"That's recognized, universally, as a function of ham radio, is to bring up the next generation of hams," he said.

Wilber got involved in ham radio after stumbling across something called a "Field Day" operation while hiking on conservation land in Pepperell in June 2014.

There was a small encampment of radio operators, tents, trailers and a half dozen parked cars, he said. Wilber, who now coordinates his club's Field Day operations, summarized the event as a full 24 hours of operating, eating and educating. This includes explaining what they're doing to curious passersby, as Wilber was in 2014.

Field Day is a yearly event for operators intended to be a casual, relaxing environment that helps hams gain more experience. In 2019, [36,420 people participated](#) across the country, making more than a million contacts in a 24-hour period according to the ARRL.

"Communications will go down at some point but we will still be able to operate," Lewis said.

Field Day is one way for hams to practice for hams to practice for that possibility.

Over one million contacts were made in a 24-hour period by amateur radio operators across the U.S in the 2019 Field Day Operation, which occurs annually in June. Wilber explained that digital contacts are becoming increasingly popular, with almost a three-fold increase from 2018. Source: <https://contests.arrl.org/ContestResults/2019/Field-Day-2019-FinalQSTResults.pdf>

Besides Field Day, clubs will also host special event stations throughout the year. Every year, the Whitman Amateur Radio Club organizes a special event station at Plimoth Plantation in Massachusetts the weekend after Thanksgiving.

To commemorate successfully making contact with the special station, operators can receive an event certificate, according to the event website. The website also included information on what frequencies on which to look for them to make contact.

On an average day, hams contacting each other can exchange information and something called QSL cards. QSL is morse code shorthand for "I receive you," Lewis said, and can be exchanged as proof of contact.

Lewis said if he and the person he contacts both input location, time and frequency information into an online, worldwide logbook, the contact is confirmed.

Continued next column

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Ham radio: A hobby still alive and thriving. **Continued from page 21**

Confirmed contacts can count towards earning certificates for milestones for operators. For example, when a ham operator successfully contacts 100 countries, they can receive a certificate for doing so. There are many types of certificates that amateur radio operators can pursue by making contacts nationally and worldwide.

"The ham community knows no geographic, political, or social barrier," wrote Gordon West in his study guide handbook for general class operators.

There are three levels of certification for operators: ascending from technician, general and extra. Each level has their own test and their own set of privileges. Call signs typically reflect where hams were first certified and can reflect their level of certification if they decide to change it as they increase the tiers of the license.

"Hams amongst themselves are known by their call signs. Everyone's call signs are unique," said Bruce Blain, call sign K1BG.

Emergency communication and volunteering are only one aspect of ham radio, which has a little bit of everything for everyone, Blain said. Blain has had his license for more than 50 years and is passionate about getting more people involved in the hobby.

Asking if people are still interested in ham radio is like asking if people are still talking on telephones, Blain explained.

After licensing, operators can enter the hobby at many different price points, Lewis said. There's even a phone app. From a handheld radio that looks like a walkie-talkie for less than \$100, to pieces of equipment exceeding \$1,000.

"You can go hog wild," Lewis said.

Clubs also organize swap events, where operators can meet up, sell and exchange equipment.

You can save money by buying used or refurbished equipment, he said. Unlicensed individuals are free to purchase equipment and listen to frequencies, but in order to transmit they need a license.

From building equipment to competitions and collecting QSL cards, the hobby is very versatile, and those involved said there's always more to learn. End.

Save the Date's Upcoming Activities this Summer

Cedar City
Fire Road
Race

July 31, 2021

Beaver
Canyon
Marathon

August 14,
2021

Cedar City
Half
Marathon

September 11,
2021

Note

If you would like to participate in any or all of these events contact Ron Shelley (K7HDX) for the Cedar Fire Road Race and the Cedar Half Marathon. Contact Paul Wolden (K7WEP) for the Beaver Marathon.

Utah State Office of Emergency Management (OEM) YouTube Webinar's for Emergency Preparedness.

Please see the URL listed below for Emergency Preparedness Resources information:

<https://www.youtube.com/playlist?list=PLTxgPK-S9YdNmN58OSiILPm2UVBaop5iT>



ARRL Announces Partnership with Maglite

ARRL The National Association for Amateur Radio and [Mag Instrument](#), the US manufacturer of the MAGLITE® Flashlight have announced they have formed a partnership based on common interests in equipping people to be prepared for emergencies and to serve their communities in extreme situations such as natural disasters. ARRL members expand the reservoir of trained operators and technicians in radio communications and radio technology, and provide public service through the ARRL Amateur Radio Emergency Service® (ARES®). Maglite is the leading maker of US-manufactured high-quality flashlights that have a deserved reputation for toughness and durability.

"Amateur radio operators, or 'hams,' help people in times of difficulty, often by supporting emergency communications when critical infrastructure is damaged, and by aiding first responders' need to keep connected," said Anthony Maglica, Founder, Owner, and CEO of MAG Instrument Inc. "We manufacture a product that has been used in public safety for over 40 years, and we are very supportive of the incredible dedication of radio amateurs, so culturally this is a great alliance for both brands."

Continued next column

"ARRL is delighted that Maglite recognizes the service and skill of ARRL members. This partnership will help us introduce amateur radio to more people," said David Minster, NA2AA, ARRL CEO. Read [an expanded version](#). End.

Happy 4th of July



2021 Field Day Pictures

Continued from page 20



George (AL7BX) working 6 and 10-meters digital on FT8.



Ed (KK7ZL) working the 40-meter voice station.



View looking to East from Field Day Operations.



Brody (KG7VXV) and Pat Malan (N7PAT) incoming Utah ARRL Section Manager in conversation.



Dennis (W6DLW) working the 40-meter voice station with Brody (K7VXV) logging.



Brody (KG7VXV), Tom (KI7LUI) and Terry West on duty at the Bar-B-Q.

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2021 Field Day Pictures

Continued from page 24



Burgers and dogs on the grill.



Dinner is served. Burgers and Dogs are ready.



Brody, Tom and Terry taking on some smoke.



Bruno (G7VVN) and others fixing their plates.



Dick (K7ZI) Dutch oven beans.



Attendees enjoying their Burgers and Dogs.

Continued on page 26

2021 Field Day Pictures

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More attendees enjoying the Bar-B-Que.



George (AL7BX) working Digital FT8 as the Sun goes down on Saturday night.



George (AL7BX) working Digital FT8 as the Sun comes up on Sunday morning.



A visitor playing in the water at the water faucet.



Front L to R, Fred (KI7TPD), Ron (K7HDX), Back L to R, Jay Brummett (W7WJB) with ARRL and Pat Malan (N7PAT) incoming Utah ARRL Section Manager.



2021 Field Day is over and Antenna and Tower is being secured. Great job everyone.

