

RAINBOW CANYONS AMATEUR RADIO CLUB NEWSLETTER

CEDAR CITY, UTAH



Club Websites: www.rcarc.info OR www.rainbowcanyons.com Number 4 – Vol. 1 – January 2022

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.

2021 Club Officer's

President:

Fred Govedich

KI7TPD

1-435-559-2682

fred.govedich@gmail.com

Vice President

Ron Shelley

K7HDX

1-623-261-6555

ronald.shelley@gmail.com

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Bonnie Bain

KI7WEX

1-435-865-1653

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KG7PBX

1-435-867-5914

lgshokrian@gmail.com

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Dennis L. West

W6DLW

1-760-953-7935

rcarcnewsletter@gmail.com



CQ, CQ, Happy New Year



Presidents Message

Greetings fellow HAMs!

Hope everyone had a wonderful Holiday season and that you are looking forward to another great year of Amateur Radio! The Annual Christmas meeting was one of the best so far and we had a lot of fun and congratulations to all of the winners who won the grand prizes this year! The members of this club really make our activities great! I would like to thank everyone for a great 2021 year I hope to build on everything we did last year. As part of this we are going to try to have more "Elmer" nights/classes and activities that will help new and old Hams connect with our Hobby! Winter Field Day is coming up fast! It is January 29 and 30. We will meet out at the Iron County EOC Saturday morning to set up. We will have the EComm trailer, but come ready for cold weather!

Cont. 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.

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

January 11, 2022

RCARC Club Meeting.

7:00 pm. Cedar City Senior Center,
489 E. 200 South. **Program:**
Demo on Digital Modes.
FLDigi, FT8 and others.

February 8, 2022

RCARC Club Meeting.

7:00 pm. Cedar City Senior Center,
489 E. 200 South. **Program to be**
determined.

March 8, 2022

RCARC Club Meeting.

7:00 pm. Cedar City Senior Center,
489 E. 200 South. **Program to be**
determined.

April 12, 2022

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.

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

In service,

Fred Govedich (KI7TPD)

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.



Silent Key

It is with sadness that I share with you the passing of long-time club member Terry Lee (KD7TTT).

Terry became a Silent Key on Wednesday, 12/15/2021.

Terry's services were held on December 21, at the LDS Church at 40 E. Midvalley Road. Enoch, Utah. Internment at the Panguitch, Utah Cemetery.

Please keep Terry and his family in your prayers.

[See full obituary on page 23](#)



**Happy Birthday and
Anniversary to those
celebrating in January**





Breakfast & Friendship Net Awards December 2021

Breakfast Net		Friendship Net	
First Place	Third Place	First Place	Second Place
KI7TPD - Fred	N7SND - Larry	K7HDX - Ron	N7SIY - Sylvia
KI7WEX - Bonnie	N7SIY - Sylvia	KA7J - Lance	N7WWD - Darlene
	KC6WFI - Tony	W6DLW - Dennis	N7TCE - Merlin
	K7ZZQ - Johnny	K7NKH - Lee	
Second Place		KI7TPD - Fred	
KK7ZL - Ed		KI7WEX - Bonnie	Third Place
		K7WEP - Paul	K7ZI - Dick
		KI7SXJ - Isaiah	

Rainbow Canyons Amateur Radio Club Treasurer Report as of Nov 30, 2021

Bank statement balance - Nov 1, 2021	\$ 2,451.92
Memberships	+ 85.00
(KR7KR, KG7VVN, KE6ZIM, K7VXV family & W6DLW family)	
Expenses - Cost of T-shirts	- 276.00
Cost of Xmas gift items	- 475.73
Rocky Mountain Power	<u>- 18.69</u>
Bank statement balance - Nov 30, 2021	\$ 1,766.50
1 outstanding check # 106 (cost antenna/Xmas gift)	<u>- \$ 70.00</u>
Outstanding deposits for 2022 memberships	<u>+ \$ 45.00</u>
(K7NJ, K7WEP, KG7VEJ)	
Available Balance as of 12/14/2021	\$1,741.50

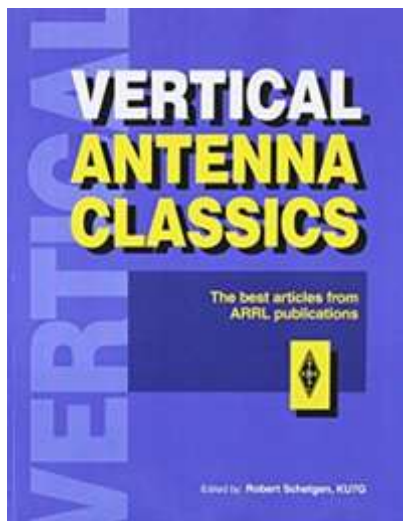
Submitted by
Linda Shokrian KG7PBX
2021 RCARC Treasurer
435-867-5914

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

Shown below is the book that will be given away at the January 11, 2022 meeting.



RCARC Book Giveaway Winner.

Notice
There was no book give away in the month of December.

Contact Us.

Mailing Address:

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

Club E-mail:

cedarcity.rcarc@gmail.com

Newsletter E-mail:

rcarcnewsletter@gmail.com

Website

www.rcarc.info

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

Note

Winter Field Day is just around the corner. Start getting your equipment ready, batteries charged etc.

Winter Field Day will commence on Saturday January 29th through Sunday the 30th.

We will operate from the Iron County EOC/Public Works Office on Kitty Hawk Drive West of Bulldog Road.

See Additional on page 6



Buzz's January Safety Tip(s)



Cold Weather Safety

If you're not prepared, getting caught in cold weather can have a chilling effect.

What to Wear

Keep the following recommendations in mind when working in cold environments:

- Wear at least three layers of clothing. An inner layer of wool, silk or synthetic to wick moisture away from the body. A middle layer of wool or synthetic to provide insulation even when wet. An outer layer that protects against wind and rain and allows some ventilation, to prevent overheating.
- Wear a hat or hood. Up to 40% of body heat can be lost when the head is left exposed.
- Wear insulated boots to keep your feet warm.
- Keep a change of dry clothing available in case your work clothes become wet.
- With the exception of the wicking layer, do not wear tight clothing.

Working Smarter

It's also important to be aware of the weather and make smarter decisions to stay safe.

- Avoid caffeine and alcohol, which negatively affect blood circulation.

Continued next column

- Perform heavy work during the warmer parts of the day.
- Use the buddy system to keep an eye on each other, and watch for signs of cold stress like disorientation and slurred speech.
- Avoid fatigue since energy is needed to keep muscles warm.
- Take frequent breaks and consume warm, high calorie food and complex carbohydrates to maintain energy reserves.
- Drink plenty of liquids. It is easy to become dehydrated in cold weather.
- Shield work areas from drafts or wind to reduce wind chill.
- Use insulating material on equipment handles, especially metal handles, when temperatures drop below 30° F.
- Place heaters around work areas if possible.

Stay warm, make smart decisions, and be prepared when working outside during the cold weather months.



Ham Radio Winter Field Day

January 29 and 30, 2022

For the last few years Amateur Radio operators across North America have established temporary ham radio stations in public locations during Winter Field Day to showcase the science and skill of Amateur Radio. This event is open to the public and all are encouraged to attend.

This year's RCARC's Winter Field Day Operations will be held at the Iron County Emergency Operations Center (EOC) facility on Kitty Hawk Drive between Bull Dog Road and Airport Road across from the Cedar City Animal Control Office.

Set up will commence at 8 am. On Saturday January 29, 2022 and Winter Field Day will start at 12 pm. and continue for 24 hours until 12 pm. on Sunday January 30, 2022.

Field Day demonstrates ham radio's ability to work reliably under any conditions from almost any location and create an independent communications network.

"It's easy for anyone to pick up a computer or smartphone, connect to the Internet and communicate, with no knowledge of how the devices function or connect to each other," said **Sean Kutzko KX9X** of the American Radio Relay League, the National Association for Amateur Radio. "But if there's an interruption of service or you're out of range of a cell tower, you have no way to communicate."

Ham radio functions completely independent of the Internet or cell phone infrastructure, can interface with tablets or smartphones, and can be set up almost anywhere in minutes. That's the beauty of Amateur Radio during a communications outage."

"Hams can literally throw a wire in a tree for an antenna, connect it to a battery-powered transmitter and communicate around the world," Kutzko added.



Continued next column

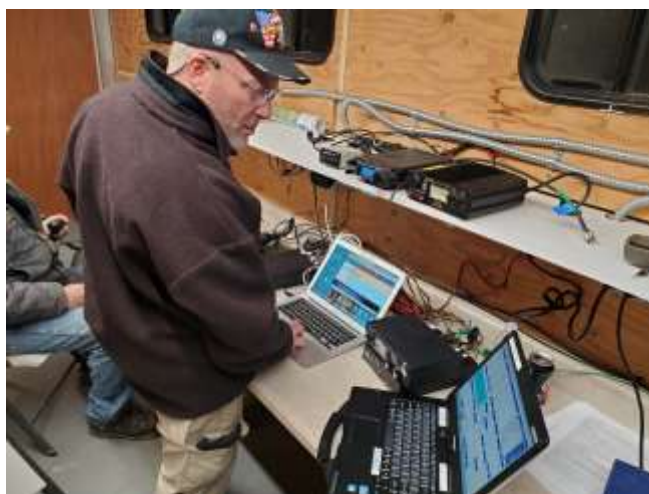
Pictures from last years's Winter Field at the EOC.



George (AL7BX) and Linda (KG7PBX) working FT8



The HF Tower illuminated by the setting sun.



Bruno (KG7VVN) working HF Digital.

2022 RCARC CLUB DUES ARE NOW DUE

Rainbow Canyons Amateur Radio Club (RCARC)

Please fill out the below form with the applicable information. Check the individual or family membership. If family members are hams, please add their name and call signs in the space provided.

Name		
Call Sign		
Address		
City, Street and Zip Code.		
Phone		
E-mail		
Dues	\$ 15.00 Individual	\$ 20.00 Family
Family	Name: Name: Name: Name:	Call Sign: Call Sign: Call Sign: Call Sign:

Please submit payment to:

Linda Shokrian (KG7PBX) at 2438 W. Carmel Canyon Drive. Cedar City, Utah 84720.

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

Rainbow Canyons Amateur Radio Club 2022 Officer's

Fred Govedich (K17TPD)	President	Bonnie Bain K17WEX)	Secretary	Dennis L. West (W6DLW)	Newsletter Editor
Ron Shelly (K7HDX)	Vice President	Linda Shokrian (KG7PBX))	Treasurer	Congratulations to all.	



[Crystal Sets and Battery Radios the Museum of Yesterday \(demajo.net\)](http://demajo.net)

Do a Control & Left Click on the above URL to take a walk down memory lane.



RADIO NEWS

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



Vol. 3

JANUARY, 1922

No. 7

THE year 1921, just closed, was not a prolific one, as far as great inventions in radio are concerned. As a matter of fact, the reviewer would be hard put to pick out any radio invention of note made during 1921. To be sure, there have been many new inventions, and the year 1921 was not a poor one, if we consider the inventions actually made. As a matter of fact, there were almost three times as many radio patents issued by our Patent Office in 1921 as in 1920. Most of these patents, however, were improvements, few basic inventions being numbered among them.

This, however, does not mean that the art was retarded. Quite the contrary. It seems that 1921 will go down in radio history as the birth of the radio telephone, as far as its universal adoption, and its cognizance by the public are concerned. An art may be said to have "arrived" when it becomes universally known, and when the public begins to use it one way or another.

Thus the electric trolley car was known thoroughly for over 20 years before it came into universal use. The automobile, too, was well known for 25 years or more, before the public began buying it. The telephone invented in 1876 by Alexander Graham Bell was as good an instrument as we have to-day, and it may be questioned whether the original instrument that Bell made was ever much improved upon. Nevertheless, it took about 20 years before the telephone became a public necessity. The same story is repeated with the radio telephone.

Fessenden and Poulsen actually had a good radio telephone over 15 years ago, and the radio engineers, as well as the radio fraternity knew all about it, but the public refused to be interested until 1921. Thus, history is repeating itself, as usual. If anyone had told Alexander Graham Bell in 1876 that there would be 500,000 telephone instruments used in a single city, namely New York, he, the inventor, would probably have shown great impatience toward such a preposterous prophecy.

It would be foolish for us to guess at the number of radio telephone instruments that will be in use 10 years from now. If we predict that its number will run into the tens of millions for the United States alone, we believe that we are making a conservative statement. The reason is plain. The ordinary telephone serves a business purpose for which toll must be exacted. The radio telephone,—for the receiving part at least—costs not one penny. Once the public thoroughly awakens to the fact that it can hear grand opera, jazz, and news at home, free of charge at almost

every hour of the twenty-four during the day, there will be a stampede for instruments unparalleled, not only in the history of radio, but in the telephone business as well.

We will probably not use, in 1922, the radio telephone in the same sense that we use the wire telephone to-day. Probably the radio telephone will never displace the present telephone on account of interference, and if it does finally displace it, it surely will not happen in 1922. Perhaps 10 or 20 years from now, the radio telephone will displace the wire telephone, although even this we doubt very much. But it is not necessary that this should occur, just as the telegraph has not displaced the telephone, nor has radio telegraphy displaced the wire telegraph. Each has a function of its own; each covers its own field of utility.

In 1922, we may safely predict that millions of homes will have their radio receiving stations right in their parlors. The house aerial to a great extent will begin to wane in 1922, and this will be the year of the loop in preference to the outdoor aerial. The "radiotrol" of which we spoke last month, will come into its own. The latter for the time being will eclipse, or put into the shade, its predecessor, the Victrola and the like.

There will be an entirely new industry built right around the radiotrol in 1922, and the writer understands that already one of the largest electrical concerns in the country has started active plans for building these sets in 1922.

The radiophone will come into more general use on the automobile, the motor-boat, the yacht, and the airplane. Indeed, many of the things that were expected to happen "some day" will surely happen in 1922.

Even in France, where amateur radio is just beginning, there is going to be a radio broadcast from the Eiffel Tower, sending out news to all stations within a radius of about 800 miles. The same station will be used as a public radiophone service by Paris and London, so that any subscriber in one of these cities will be able to talk to someone in Paris, or other cities while far out at sea. Thus Marshall Foch and Premier Briand during their return from America talked to the French President while 600 miles at sea. All of these are accomplished facts.

In face of all this, who dares say what the year 1922 will not bring? We predict for one thing that every manufacturer of radio receiving instruments will be swamped with business beyond his fondest expectations, and those who read the future as it looks to us had better get an early start to keep up with the radio boom toward which we are surely headed.

H. GERNSBACK.

Utah VHF Society Dues are Due

Contact George Gallis (AL7BX)

Or renew or join following the below described methods or go to:

http://utahvhfs.org/uvhfs_join_renew.html
and follow the instruction there.

If you wish to mail a check, dues may be sent to:

Utah VHF Society
P.O. Box 482
Bountiful, UT 84011-0482

The PayPal account address for the Utah VHF Society is:

paypal@utahvhfs.org

- **IMPORTANT:** Please note that the above email address is pronounced "Pay Pal at Utah Vee Aiche Eff Ess dot Org"
- **PLEASE** check the spelling of the email address to which you are sending your payment and make sure that it is correct and has the word "UTAH" in it - and then check again before you send your payment!

Please note that this is not a link, but the address to which you should send your payment after you log into PayPal. At the moment, we don't have a "shopping cart" set up for PayPal - sorry.

If you have a PayPal account, follow these easy steps:

Log into your PayPal account

1. Click on the "**Send Money**" tab
2. Where it says "**To**", enter the Utah VHF Society's PayPal address: paypal@utahvhfs.org

Continued next column

Under "**Amount**" enter the number based on the number of years' membership you wish. *Please enter the amount for at least two years to help minimize the amount of PayPal fees.*

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

If you *don't* have PayPal, don't worry - you can still pay by check/mail to the address above, or in person at the next swap meet.

When you pay via PayPal, please include the following:

- Under "**Subject**" please put "Utah VHF Society Dues for <your name>" - remembering to put your name in there.
- Under "**Message**" please include:
 - **Your name, address and phone number.** Also note if you do **NOT** want your name, address and/or phone number to appear in the Utah VHF Society booklet.
 - **Your callsign** - if you have one.
 - Whether or not you would like to be included on the net roster. If you don't say "yes" we'll assume that you don't check in on that net regularly.
 - Indicate whether or not you are a member of ARRL.

The Utah VHF Society is a non-profit (IRS501c3) organization founded in 1968 to promote the installation and use of VHF amateur repeaters throughout Utah. The Society also provides financial support for aligned repeaters and serves as frequency coordinator for the state. End.

Polish Radio Amateur Ordered to Stop Using Falkland Islands Identifier from Antarctica

12/14/2021

The Falkland Islands Communications Regulator has directed Polish radio amateur Sebastian Gleich, SQ1SGB, to cease his ham radio operation from Antarctica's Halley VI Research Station on the Brunt Ice Shelf, *Open Falklands* [reported](#). Apparently following up on a complaint, the Falkland Islands regulator ordered Gleich to stop all operations as "VP8SGB."

He has been identifying as VP8/SQ1SGB, in accordance with accepted practice, and it's unclear whether the complainant or the regulator conflated the identifier and call sign.

Gleich's use of the VP8 identifier for his operation from the British Antarctic Territory (BAT) appears to have been an issue, however, because VP8 still can designate an operation from the Falkland Islands. The regulator may have been unfamiliar with recent changes — not yet fully formalized — that would establish VP0 as the proper identifier for such an operation as Gleich's.

A [consultation](#) (proceeding) now in play would permit the issuance of amateur radio licenses in the BAT. The proposal followed several months of protracted negotiations involving the UK communications regulator Ofcom, the Falkland Islands Communications Regulator, and the governments of the South Georgia and South Sandwich Islands (SGSSI) and BAT. The proceeding proposes to apply the new prefix of VP0 to BAT stations, with the existing VP8 prefix then applying exclusively to the Falkland Islands. The proposal calls for the Falkland Islands Communications Regulator to administer these licenses.

The VP0 prefix would apply in the British-claimed sector of the Antarctic mainland, including the Antarctic Peninsula and nearby islands, such as the South Orkney Islands, South Shetland Islands, and SGSSI. Gleich has been operating from Antarctica since November.

In a communication to the Falkland Islands Communications Regulator on Gleich's behalf, Chris Gare, VP8WOS, in the Falkland Islands, and Alan Armstrong, VP8PJ, in the South Orkney Islands, called on the regulator to withdraw the order.

"We consider the Directive [to be] contrary to Ofcom's 28 January 2021 guidance for amateur radio operation in BAT. We would assume the Regulator would be aware of this guidance directly from Ofcom or its publication on *Open Falklands* in January 2021," Gare and Armstrong wrote.

Continued next column

Ofcom's guidance is that call signs with the prefix VP8 will continue to identify existing stations in SGSSI, as well as BAT, until those overseas territories have legislative authority to issue new call signs.

In an earlier communication with the regulator, Gare and Armstrong stated, "There is still much confusion and lack of understanding about this issue in the broader amateur radio world." Gare and Armstrong expressed concern that ARRL's DXCC program might not accept contacts with VP8/SP1SGB, if the call sign's legality were called into question.

Significant progress has been made by BAT authorities to start issuing VP0 call signs, Gare and Armstrong said, adding, "This can't come too soon." End

BUMBLEBEE/HARMONY MT REPEATER 146.680

By George Gallis (AL7BX)

In 2019 a repeater was installed at a BLM facility above New Harmony. This was a project of the Utah VHF Society.

Over the past year this repeater became unusable as the audio out was very scratchy.

On Dec 4, 2021, Bryan (KG7OOW) and George (AL7BX) went to the site and determined there was a problem with the antenna. It was replaced with a Maxrad MFB-1443 and seems to be working well now.

Once the old antenna was down it became obvious that it had taken a minor lightning strike. There was a hole burned in the top metal cap and parts could be heard rattling around inside.

This is the second lightning damage to ham equipment locally. This past summer the internet link for the SDR receivers at the Iron Mt .98 site quit. Apparently, lightning had taken out one internet radio, a router and some cabling. That equipment was replaced. No other radios were damaged.

These sites are about 7 miles apart.



Lighting struck top of cap.

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 December 8, 2021 E-Comm. members Brad Biedermann (WA7HHE – HF Digital) and Dennis West (W6DLW – VHF) staffed the Radio Communication Room at Cedar City Hospital to assist in the exercise.

Dennis, was net control for the local EComm Net and passed on the total check-ins to the South West Utah Public Health Department (SWUPHD) in St. George, Utah via the intertie.

Brad, relayed the Hospital Incident Command System (HICS) 214's submitted by the check-ins to the SWUPHD via FLDigi using 40 meters.

Thank you to all that participated in the exercise.



How to mess with the HOA

RCARC Members meet for Breakfast

Normally on the first Saturday of each month club members meet at the Pastry Pub for breakfast at 9:00 am.

However, on December 4th club members converged on Linda Shokrian's (KG7PBX) residence who hosted the Saturday morning breakfast. This was a potluck breakfast and all attendees were asked to bring a breakfast dish to share with others. Twenty-Five members enjoyed a great breakfast and conversation.

Thank you, Linda, for your generosity in the use of your home. **See pics below.**



Terry West, Linda (KG7PBX) and George (AL7BX) finishing the set up before members arrive.



Members arriving and placing their dishes on the table.

Continued next on page 12

RCARC Members meet for Breakfast Continued from Page 11



Ken Munford (N7KM) and wife selecting their breakfast items.



Brody (K7VXV) his daughter Rachel and Terry West in conversation.



We have a full house. 25 members participated.

Continued next column.



First wave is over and waiting for the second wave.



Fred (K17TPD), Ron (K7HDX), Bonnie (K17WEX) and Bill (K6QOG) in conversation.



The Final Wave as these lady's make their last round.

DHS Cybersecurity and Infrastructure Security Agency (CISA) Auxiliary Communications (AUXCOMM) Training Course Planned for February

The DHS/CISA Auxiliary Communications Training Course will be conducted February 7-9, 2022, in cooperation with the 75th Orlando HamCation™ in Orlando, Florida (30 student maximum capacity). This class is designed for auxiliary communicators (AUXCOMM) and other communications groups who volunteer to provide backup radio communications support to public safety agencies. This typically includes volunteer amateur radio communicators from such organizations as SATERN, the Red Cross, REACT, and others. This class is free to anyone who is accepted into the course.

This course focuses on auxiliary communications interoperability, the relationship between the Communications Leader (COML) and AUXCOMM volunteers, emergency operations center (EOC) etiquette, on-the-air etiquette, Federal Communications Commission (FCC) rules and regulations, auxiliary communications training and planning, and emergency communications deployment. The course is intended to supplement and standardize a volunteer operator's experience and knowledge of emergency amateur radio communications in a public safety context.

Prerequisites for Attendance

Personal experience: A valid/signed FCC amateur radio license; Past experience in auxiliary emergency communications; An affiliation with a public safety agency (served agency); A desire to work with COMLs in a NIMS ICS environment.

Continued on next column

Must have completed the following online courses from the FEMA EMI website: IS-100, Introduction to the ICS; IS-200, ICS for Single Resources and Initial Incidents; IS-700, National Incident Management System (NIMS), an Introduction; IS-800, National Response Framework (NRF).

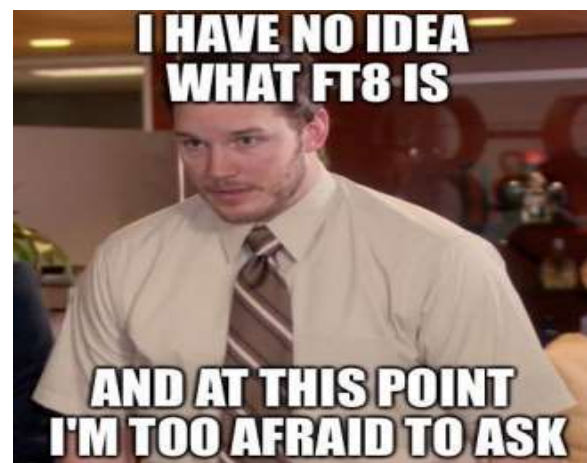
How to Apply: Send an email with the below listed information to:

TrainingRequest@commscollabcenter.com

Subject Line: [Last Name] Application for HAMCATION AUXCOMM Course 2022.

Text of email: Applicant's name; the name of the public safety agency you are, or will be, supporting; the public safety agency's email address; the agency's point of contact name and their email and phone number. Attach completion certificates for all courses listed above.

Applications will be considered incomplete if any of the prerequisite course completion certificates are missing from the email. All applications and other requested documents, must be received by close of business on Friday, January 28, 2022. The first 30 qualified applicants will be notified that they are registered once the appropriate information has been received. Selected individuals will be notified of the course location/schedule once their registration is approved. Questions regarding the course prerequisites should be directed to CISA by contacting John Peterson via email at AUXCOMM@cisa.dhs.gov End.



Staying Flexible and Adaptable: Planning for Communications Continuity

Achieving secure and resilient voice and data communications across the Emergency Communications Ecosystem is essential for public safety agencies to execute their missions. However, as emergency communications systems and functions become more interconnected, they also become more vulnerable to impacts from physical and cyber-based threats and hazards. The [National Emergency Communication Plan](#) (NECP) highlights the critical need for public safety organizations to plan for continuity and recovery of critical communications. Despite its importance, the [SAFECOM Nationwide Survey](#) found that less than half of public safety organizations build processes into their plans to ensure continuity of communications during out-of-the-ordinary emergencies or disasters.

A webinar hosted by the Cybersecurity and Infrastructure Security Agency highlighted the importance of continuity capabilities in the emergency communications ecosystem and provided participants with best practices for ensuring limited loss of critical communications during incidents.

Speakers discussed specific communications elements that should be considered; explained how existing capabilities should be updated or upgraded to ensure continuity based on lessons learned; and provided real-world experiences on how jurisdictions have adapted to mitigate mission impacts from communications vulnerabilities.

Continuity capabilities-building principles, practices, and resources are available at the FEMA [National Continuity Resource Toolkit](#) and other sites. It's important to periodically review and update or upgrade capabilities and leverage the NECP to understand and build emergency communications resilience. [Get additional information on the webinar series](#).--Cyber Security and Infrastructure Security Agency (CISA), US Department of Homeland Security End.

Operating Tips: Simplex and Programming Channels

Many opine that simplex is the ultimate mode of communication during a major emergency. Bob Pickering, KB4RSY, communications tech for the large EOC in Flagler County, Florida, conducted an all-simplex exercise annually. Recently while reprogramming my radios, I devised a method to incorporate simplex frequencies to make "retuning to simplex" easy and fast. All of my local repeaters are programmed to the uneven channel numbers and the simplex frequencies to the even channels. One rotational click and I can check a simplex channel for use. - *Lou Mecseri, KE1F, Palm Coast, Florida*

A Case for Not Programming Repeaters into the Memories of your Radios

If you are like me and most other operators, you have programmed your area repeater frequencies into the memory channels of your radios. Recently, when I needed to switch to a new repeater frequency, I could not remember how to enter the PL tone and offset - an aggravating factor may be that I'm almost 70 years old with a slowly eroding memory! I resorted to reading the radio's operating manual. Now, I forego using the memory channels and instead enter the repeater frequency, offset, and PL tone manually each and every time so that I'll have the muscle memory needed to select repeater parameters on the fly in the field. Think about it - it only takes a second to enter the parameters. - *K1CE*



Iron County Emergency Management (OEM) acknowledges EComm/CERT Volunteers for their service in 2021.

On the evening of December 8, 2021, EComm/CERT volunteers came together at the Cedar City Heritage Center for a catered Christmas Dinner and get together. See pics below:



EComm/CERT volunteers converse prior to dinner being served.



Dick Parker (K7ZI) and wife Susan awaiting dinner.



Dinner is served

Continued next column



Smoked Ham and all the trimmings to be enjoyed.



Everyone enjoying their dinner except the guy taking the picture. 😊



Looks like all are having a good time.

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Merlin (N7TCE), Dick (K7ZI) and family members enjoying dinner.



Looks like all enjoyed the get together.

Observations of Over-the-Horizon Radar Interference in Ham Bands Top All Others

The volume of reports of over-the-horizon (OTH) radar interference from observers working with the International Amateur Radio Union (IARU) Region 1 Monitoring System (IARUMS) dwarfs that of all other interference sources, the [November IARUMS newsletter](#) reports.



Nearly 800 OTH radars were observed during November alone, and the total number of reports for the year is more than 4,500 -- although that number likely includes multiple reports of the same OTH radar systems.

While the intruder watcher is focused on IARU Region 1, much of the major interference it recounts can affect the amateur bands in the world's other two IARU regions. IARUMS has tracked most OTH radar signals to sites in Russia and China, but a [recent report](#) indicated that India has an OTH radar system in the works. IARUMS is calling the system "of concern," although it's not known what frequencies it may use.

During November 17 - 21, IARUMS reported a "strange, somewhat washed-out signal" on the order of 7 kHz wide, that "drifted slowly back and forth" in 40 meters and below. Read [an expanded version](#). End.



New Website Administer

I believe most of you know that Terry Lee (KD7TTT) SK was our RCARC.Info Web Page go to guy. Due to his passing Russ Chaffee (N7BO) will now assume the Website Administer Title.

Should you have any questions or concerns about the web page please contact Russ.

Let the Fun Begin.

RCARC Celebrates the Holiday's with a Club Christmas Party.

On Tuesday night December 14, 2021 over 50 club members met at the Cedar City, Senior Center to celebrate the Holiday's with a great Potluck Dinner and Prize Giveaway.

Over all the event was a great success with many great dishes brought to be shared by all.

A special thanks goes out to Ken Richter (KR7KR) who smoked two Hams, Three Turkeys and five small blocks of assorted cheeses.

In addition, congratulations to the prize drawing give away winners. See page (18) for winner information. See dinner pics below:



Bonnie (K17WEX) and Terry West preparing the Smoked Cheese



Members arriving and taking their seats.



Smoked Cheese ready for serving.



Members signing in.



Meeting portion of event started with the Flag Salute.

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Congratulations are in order:

On December 14, 2021 Craig Miller tested for the upgrade to General Craig Class License and passed. Congratulations Craig (Pictured below). In addition, Shanda Badger tested for Technician Class License and passed. Congratulations to you both.



Craig Miller (KK7BNZ) testing for his upgrade to General Class License.



Lance (KA7J) and Ron (K7HDX) both Volunteer Examiners grading Craig's Test. W6DLW Dennis was the 3rd VE.

RCARC Holiday Christmas Party Prize Winners

Prize	Name	Call Sign
QYT 8900D Mobile Radio	Larry Bell	N7SND
QYT 8900D Mobile Radio	Lance Jackson	KA7J
Miady LPF20AH, 12.8V Battery.	Dick Parker	K7ZI
Miady LPF20AH, 12.8V Battery.	Bonnie Baine	KI7WEX
Canakit Raspberry PI. 4 Kit.	Bill Stenger	K6QOG
J-Pole Antenna	Byron Harris	KJ6PRU
Box of Gourmet Fudge	Ken Richter	KR7KR
Kenwood Radio Microphone	Bruce Bishop	KI7LUM
J-Pole Antenna	Ron Shelly	K7HDX

Congratulations to all the winners



Let the Fun Begin.

Continued from Page 17



Terry West picking the first prize winner ticket.
See Prize winners on page 18.



The hot food with more great selections.



Business is over and the food is being served.



Brody (K7VXV) carving the ham.



Wow, what a great selection to choose from.

Continued next column



Brody (K7VXV) carving the first of three turkeys.

Happy New year everyone.

The Ultimate Ham Shack

By Dennis West (W6DLW)

(Still a Work in Progress)

I had an opportunity several weeks ago to talk with a friend Bob Smith (KO6BOB from Yermo, California. Our paths crossed many times over the years in our chosen work professions. As we were reminiscing about the years past, I learned Bob was a Ham.

Our conversations lead to Bob's unique new Ham Shack and me wanting to share a few pictures with our RCARC Ham Club.

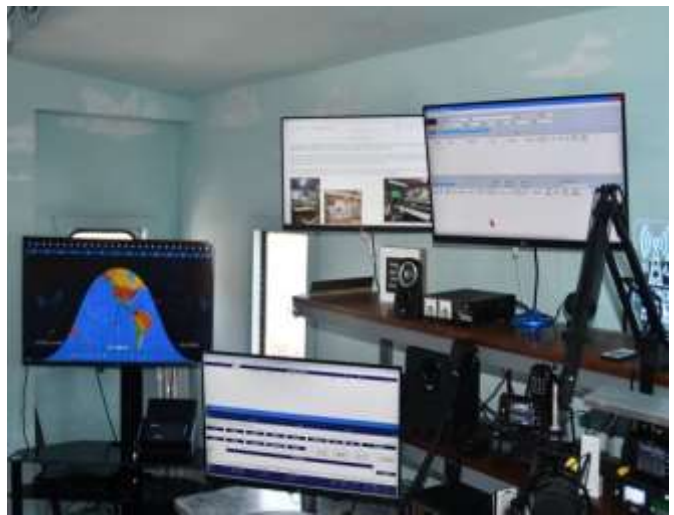
Bob actually started moving in to the new shack in December 2021. As he gets settled in, I'll do a follow up article on the equipment he uses in a later issue. Check out Bob's QRZ page at the following link. <https://www.qrz.com/db/ko6bob>

See the following pics.



The Shack is housed in a Union Pacific, center cupola caboose.

Continued next column



Ham Radio University Going Virtual Again

With COVID-19 uncertainties precluding an in-person gathering for a second year, the 23rd annual Ham Radio University (HRU) educational conference will be held as a virtual event again this year, on Saturday, January 8, 1300 - 2000 UTC, as an online GoToWebinar videoconference.

Advance registration is required and begins on December 20.

HRU 2022 will be adding five forums this year, for a total of 19 presentations by experts in a broad range of amateur radio activities, including Amateur Radio Emergency Communications. Other topics are:



- Basics of HF Operating
- Ham Radio Contesting and DXing
- Communicating through Amateur Radio Earth Satellites
- Software-Defined Radios
- HF and VHF Digital Communications
- Parks on the Air
- SKYWARN
- Cables and Connectors
- Using Raspberry Pi Computers in Amateur Radio.
- Online attendees will be able to ask questions of the presenters. Founded by Phil Lewis, N2MUN (SK), HRU also serves as the online convention of the ARRL NYC-Long Island Section.
- As in past years, participation in HRU 2022 is free; an optional donation of \$5 is suggested. Additional information is online, including the schedule of forums and advance registration starting December 20

Yuma Hamfest & ARRL Southwestern Division Convention

Feb 18th & 19th, 2022- Yuma County Fairgrounds

The 17th Annual Yuma Hamfest is the site of the ARRL's premier event for the Southwest in 2022, The Southwestern Division Convention. The Yuma Hamfest has two aspects. It is a Hamfest for Amateur Radio enthusiasts, complete with commercial exhibits, seminars, license testing and tailgating. For members of the general public, it is a trade show for emergency and disaster preparedness, with informational presentations and displays of emergency supplies and equipment.

There are hourly drawings for door prizes both Friday and Saturday. The numbers will be posted just inside the main Theater Building. You must be onsite to win the door prizes and claim them by 5:00 p.m. Saturday. On Saturday evening, in what has established itself as an annual tradition, the Buzzard Barbecue will be held in the Theater Building. Additional door prizes are given away following the barbecue dinner. And then at the end of the evening, we hold what has become the highlight of the Yuma Hamfest, the Grand Prize drawings.

For several years the Yuma Hamfest focused primarily on amateur radio, especially the emergency communications aspects of that hobby. Starting with the 2009 event, the event was expanded to include all facets of emergency and disaster preparedness. Would you know what to do if your home was without power, telephone service or water for ten days? By attending the Yuma Hamfest, you can find out the answer.

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Last, but not least, there is a full seminar program scheduled for both Friday and Saturday. We have a selection of seminars at three different times on Friday and six different times on Saturday, presented in separate buildings on the fairgrounds. Seminar presentations on radio and emergency preparedness topics are planned. A list of seminars and their times can be found on the [seminar](#) link for this site. End.

World's Smallest Moon Lander from Japan will Put Ham Radio Transmitter on the Moon

12/09/2021

Japan's [OMOTENASHI](#), the world's smallest moon lander, will have an X-band and UHF communication system, although it will not carry an amateur band transponder. OMOTENASHI is a 6U CubeSat set for launch via a NASA SLS rocket as early as February 2022. It will have a mission period of from 4 to 5 days.

The name is an acronym for Outstanding Moon Exploration Technologies demonstrated by Nano Semi-Hard Impactor. Wataru Torii of the Japan Aerospace Exploration Agency (JAXA) Ham Radio Club, JQ1ZVI, said radio amateurs can play a role in gathering data from the spacecraft.

The spacecraft is made up of two separable components, both having independent communication systems — an orbiting module and a surface probe. The orbiting module will take the surface probe to the moon. It will transmit beacon or digital telemetry data on UHF (437.31 MHz). The surface probe — the moon lander — will transmit digital telemetry or three-axis acceleration analog-wave with FM modulation on UHF (437.41 MHz). Transmitter power will be 1 W in both cases.

"If we succeed in receiving the UHF signal from the surface probe, we could know the acceleration data on the impact on the moon and the success of the landing sequence," Torii explained.

"We already have a station for uplink and downlink at Wakayama in Japan — used as an EME [moonbounce] station. However, if the satellite is invisible from Japan, we cannot receive the downlink signal. So, we need a lot of help from ham radio stations worldwide." Torii noted that the RF system on the lander only operates on UHF.

The orbiting module beacon will transmit on 437.31 MHz using PSK31. The surface probe beacon will transmit on 437.41 MHz using FM, PSK31, and PCM-PSK/PM.

[Contact](#) Torii for more information. End

How Did New Year's Resolution Start.

The first New Year's resolutions date back [over 4,000 years ago](#) to ancient Babylon. The Babylonians are said to have started the tradition during Akitu, a 12-day New Year celebration.

During the Akitu festival, the ancient Babylonians would plant crops, crown a new king (or pledge their loyalty to the reigning king), and make promises to the gods to pay their debts and return any borrowed items. They believed that if they kept their word, the gods would look favorably on them for the year ahead. If the Babylonians broke their promises, they would fall on the bad side of their gods.

The history of New Year's resolutions continued in ancient Rome. Emperor Julius Caesar introduced a new calendar in 46 B.C. which declared January 1st as the start of the new year. This new date honored Janus, a two-faced god who symbolically looked back into the previous year and forwards into the new year. The Romans would offer sacrifices to Janus and make promises of good behavior for the year ahead.

New Year's resolutions were also made in the Middle Ages. Knights would [renew their vow to chivalry](#) by placing their hands on a live or roasted peacock. The annual "Peacock Vow" would take place at the end of the year, as a resolution to maintain their knighthood values.

Modern-day New Year's Resolutions.

Modern New Year's resolutions are a largely secular practice, with most people making resolutions to themselves rather than promising gods. The focus of the tradition is on self-improvement, with people taking time to reflect on their goals.

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Terry Donald Lee

Our beloved friend, my husband and sweetheart, Terry D. Lee, 59, passed away on Wednesday, December 15th, 2021, from various health complications. He was born on January 23rd, 1962 in Fort Hood, Texas to Donald E. Lee and Wanda L. Thomson Lee. Terry was married to Laura E. Scofield on June 22nd, 1996 in Glendale, California.

He was raised and had many wonderful experiences growing up in rural Southern Utah – in particular Kanab and Panguitch. He spent the last twenty years residing in Cedar City, Utah. He was very knowledgeable and skilled in all aspects of computers including forensics, programming, and networking.

He enjoyed operating drones, woodworking on his lathe, baking bread, photography, riding his 4-wheeler and sandblasting stones. Terry enjoyed cruising his boat on the ocean while living in California. He enjoyed the Rainbow Canyon Amateur Ham Radio Club (KD7TTT) and accomplished his Amateur Extra License and made many friendships.

He was a Past Master with the Cedar City Lodge Number 35 and the St. George Lodge Number 33 and was an active York Right Mason member and spent many years with great friendships in Masonic events and connections. Terry participated on the Iron County Search and Rescue teams for a number of years and enjoyed many friendships there as well. He had a wonderful sense of humor and his wit was enjoyed by all those who knew him.

Terry is survived by his wife Laura E. Lee; Anna Lee (daughter); Wanda L. Thomson Lee Maulhardt (mother); and grandchildren: Alice Christiansen; Natasha Shakespear; and Freyja Shakespear. He is preceded in death by Donald E. Lee (father); Tracy Lee (sister); Tammy Lee (sister); and Henrie A. Maulhardt (step-father).

The funeral services will be held on Tuesday, December 21st, 2021 at 40 East Midvalley Road in Enoch, Utah at 11:00 a.m. with viewing at 9:30 a.m. Interment will be in the Panguitch Cemetery. All are welcome.



Rest in Peace Terry You will be missed

Continued next column

How Did New Year's Resolution Start. Continued from Page 22

At least 40% of people in the United States set New Year's resolutions, while 22% of people in the UK aim for self-improvement with a resolution.

Yet, research shows that 80% of people break their resolutions by the first week of February and only 8% are successful in achieving their goals at all.

Despite having over 4,000 years of practice, these figures aren't likely to improve any time soon. Experts say we're doomed to fail when making New Year's resolutions thanks to unrealistic expectations.

We set lofty goals that quickly become overwhelming, and we fail to make a plan to achieve these goals. The key to completing your resolution is to break it down into small, tangible steps. Instead of saying, "I want to get fit", set a specific goal like going to a gym class every Monday and Wednesday.

The Most popular Resolutions

Are you looking for inspiration for your New Year's resolutions in 2022? Here are some of the most common resolutions made on January 1st each year.

1. Eat healthier
2. Exercise more
3. Lose weight
4. Save more money and pay off debt
5. Learn a new skill or hobby
6. Travel more
7. Watch less TV
8. Read more
9. Find a new job
10. Volunteer with a charity
11. Start your own business
12. Quit smoking
13. Drink less alcohol
14. Spend more time with family and friend's

Do It Yourself (DIY)

Reprinted from the May 2019 RCARC Newsletter

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