

# RAINBOW CANYONS AMATEUR RADIO CLUB NEWSLETTER

CEDAR CITY, UTAH



Club Websites: [www.rcarc.info](http://www.rcarc.info) OR [www.rainbowcanyons.com](http://www.rainbowcanyons.com) Number 2 – Vol. 7 – July 2020

## Club Meeting Information

The RCARC meets at 7:00 p.m. on the 2<sup>nd</sup> Tuesday of each month at the Cedar City Senior Center, 489 E. 200 South.

## 2020 Club Officer's

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CQ, CQ Happy 4<sup>th</sup> of July



## Presidents Message

Greetings fellow HAMs!

It has been a busy month with field day! Field Day was a success (despite difficult conditions we had lots of contacts)! The weather was good on Saturday, but the wind really picked up over night and on Sunday. We got the antenna down just in time! I am still removing sand from everything! Thank you to everyone who participated by helping with set up and clean up, and by manning the radios and making contacts. Overall, I think everyone had a great time and I hope you can take the enthusiasm forward and play on the radio more!

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.

Continued on page 2

## RCARC Club Nets:

7:00 a.m. Breakfast Net - Monday – Saturday – 146.760.

12:30 p.m. Daily – Utah Beehive Net On 7.272.

7:00 p.m. Tuesday's Southwestern Utah Digital Net. Using FLDIGI, FLMSG AND FLAMP – 146.680, 1500/MT63-2KL

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.

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.

7:00 p.m. Thursdays – RCARC CW Net on 146.980.

## 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

New Repeater in New Harmony

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 14, 2020**

**RCARC Club Meeting**

**Program: CERT  
Curriculum "Stop the  
Bleed." Instructor  
TBD.**

**August, 2020**

**Annual Barbeque &  
swap Meet.**

**Date to be Determined**

**September 11, 2020**

**RCARC Club Meeting.**

**October 13, 2020**

**RCARC Club Meeting.**

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 not have a July Breakfast (4<sup>th</sup> of July) so get out and enjoy the parade! Our next meeting will be on the air on July 14th.

Stay safe and healthy!

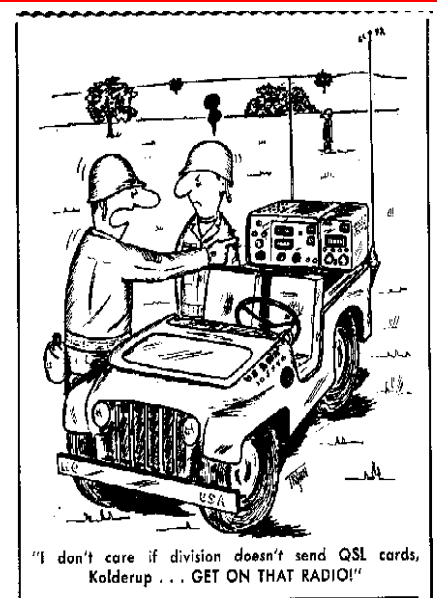
Cheers!

Fred (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. Check out their website at:

[www.cedarcitypastrypub.com](http://www.cedarcitypastrypub.com)



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



**Wild Fires - Check out this URL for Utah Wild Fire Information**

<https://utahfireinfo.gov/>

# Notice

Due to the 4<sup>th</sup> of July falling on the first Saturday of the month.

The RCARC Monthly Breakfast for July at the Pastry Pub was canceled.

Happy 4<sup>th</sup> of July



## Breakfast & Friendship Net Awards

Breakfast Net		Friendship Net	
First Place	Second Place	First Place	Second Place
KG7PBX - Linda	KI7SDA - Jerel	KI7WEZ - Darlene	KJ7LTQ – Brant
KI7WEX - Bonnie	Third Place	KI7TPD - Fred	W6DLW - Dennis
KE6ZIM - Johnny	KB7UMU - Sylvia	N7TCE - Merlin	Third Place
KK7ZL - Ed	K7ZI - Dick	K7HDX - Ron	K7ZI – Dick
KI7TPD - Fred		KI7WEX - Bonnie	KD7TTT - Terry
N7SND - Larry		KA7J - Lance	
K7ZZQ - Johnny		K7NKH - Lee	
K7DVP – Vernille			



## International Postal Service Disrupted

06/09/2020

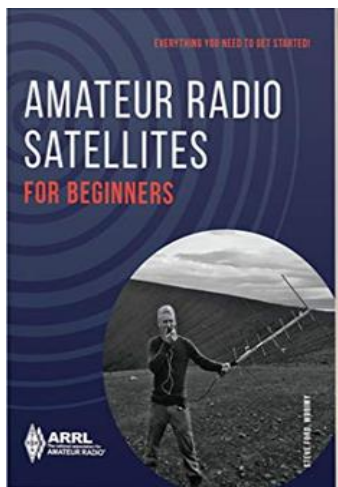
The US Postal Service (USPS) has temporarily suspended international mail acceptance for items addressed to certain destinations due to service impacts related to the COVID-19 pandemic. This situation could result in the return or loss of mail, such as QSL cards, addressed to affected parts of the world. The USPS has posted a **list of affected countries**, which is updated regularly. The Postal Service will, upon request, refund postage and fees on mail bearing a customs stamp that's returned due to the suspension of service, or the sender may re-mail returned items with existing postage once service has been restored. When re-mailing under this option, customers should cross out the markings "Mail Service Suspended — Return to Sender."

## RCARC July Meeting Book Give Away

The book shown below will be awarded to one of our RCARC members at our club meeting on July 14, 2020.

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.



## Contact Us.

### Mailing Address:

195 E. Fiddler's Canyon Road #3.

Cedar City, Utah 84721

### Club E-mail:

[cedarcity.rcarc@gmail.com](mailto:cedarcity.rcarc@gmail.com)

### Newsletter E-mail:

[rcarcnewsletter@gmail.com](mailto:rcarcnewsletter@gmail.com)

### Website

[www.rcarc.info](http://www.rcarc.info)

[www.rainbowcanyons.com](http://www.rainbowcanyons.com)

### Face Book Page:

<https://www.facebook.com/groups/440325486875752/>

Please send your correspondence to the above address or should you have any questions or concerns please e-mail us.

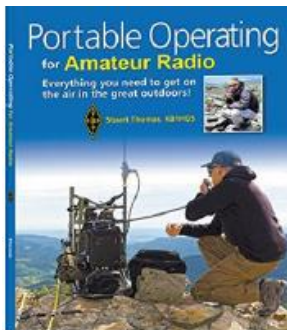
Thank you



Please be safe

## RCARC Book Give Away

The winner of the June 9, 2020 ARRL Portable Operating for Amateur Radio Book give-away is Darlene Shelly – K17WEZ.



Congratulations Darlene

WHAT IF  
KERCHUNKS  
ARE ACTUALLY



MIMES  
TRYING TO  
USE THE REPEATER?

## The Ham

There is this bunch of guys I know,  
Who like to talk on the radio?

Around the clock both night and day,  
They never run out of something to say.

They talk to each other about this and that,  
About problems of the world and how to combat.

New Friendships are born both far and near,  
While enjoying this hobby they hold so dear.

They provide the world and our nation,  
With a constant flow of information.

From humor to technical the subject may run,  
It's all in good taste it's all in fun.

While old timers tell of how-to home brew,  
Some sit and talk while sipping a few.

Newcomers join in rather timid at first,  
Only to learn they could have done worse.

A wonderful hobby this ham radio game,  
Compared to some it may seem rather tame.

Then comes along a need or disaster,  
And no others can act any faster.

They load up their gear without hesitation,  
And head for the field with emergency stations.

They ask for no pay they cannot accept,  
All this is for caring no fees are set.

This is the time when there is no phone,

**Continued next column**

## The Ham - continued

But because of their hobby you can call home.

Your family assured that you are okay,  
Re-enforces the spirit they work this way.

And when it's all over they return to their shack,  
Resume their chatter and never look back.

James C. Wheeler (W5OI) email  
[jc@ec47.com](mailto:jc@ec47.com)



## July Safety Tip

### A Hydration reminder from Buzz.

#### Have fluid source readily available

– Plan ahead and make sure you drink enough water throughout the day and night to replenish fluids lost during activities. That means drinking when you are thirsty and keeping your urine color light yellow like lemonade and not dark like apple juice.

**Water will do the trick** – For most people water will be sufficient enough to keep you properly hydrated. If you are working really hard, you might need to replace calories that are lost due to perspiration. A soda or sports drink can help with fluid and calorie replacement.

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## ARRL Volunteer Monitor Program Recognizes Good Operators

[Volunteer Monitor Program](#) Coordinator Riley Hollingsworth, K4ZDH, said the program has recognized numerous radio amateurs with Good Operator Notices.

"One facet of the ARRL and FCC agreement that set up the Volunteer Monitor Program calls for ARRL to recognize especially good amateur radio behavior, in order to encourage compliance with FCC rules and further the efficiency of the Amateur Radio Service," Hollingsworth

said. "Seventeen operators in 15 states received Good Operator Notices in the first quarter of 2020. The Good Operator Notices went to veteran operators as well as newcomers, including a 13-year-old in North Carolina for CW operation during the Youth on the Air Special Event, and a 14-year-old in Wyoming for SSB operation."

Hollingsworth also said that a 2-meter repeater operator received a Good Operator Report for establishing and managing a COVID-19 net in Pennsylvania, while other operators of various license classes received notices for everyday SSB and CW operation on the HF bands. Recipients were nominated on the basis of operation observed by Volunteer Monitors (VMs).

According to Hollingsworth, Volunteer Monitors reported 2,035 hours monitoring on HF, and 2,856 hours monitoring on VHF/UHF and other frequencies during May.

After kicking off on January 1, the new Volunteer Monitor Program ramped up to operational status earlier this spring, starting with a "soft rollout" that started on February 1, designed to familiarize VMs with issues on the bands and to put into practice what to report and what to ignore, based on their training.

**Continued next column**

## ARRL Volunteer Monitor Program Recognizes Good Operators – Continued

Hollingsworth uses a system called *VMTRAC* -- developed by a VM -- to measure the work of VMs and determine instances that qualify for good operator or discrepancy notices, referral to the FCC, or follow-up with FCC requests to the VM program. -- *Thanks to Riley Hollingsworth, K4ZDH*



### **Buzz's, Safety Tip for July Continued**

#### **Be careful when drinking alcohol**

– If you choose to drink alcohol, do so in moderation. The health saying is you can have two per day, but you can't bank them. A good strategy is to alternate alcoholic beverages with water. With alcohol you can only count on about 75 percent of an alcohol beverage ending up in the body as fluid.

**Listen to your body** – When the temperatures and activity levels rise it's even more important to listen to your body and take breaks if you start to feel light-headed, feel overheated or if you develop a headache. These are warning signs that something is not right. Don't ignore them!

**Don't take in too much fluid** – It might sound a little strange but be careful of drinking too much fluid. This can lead to the opposite of dehydration – over-hydration or hyponatremia. My rule of thumb is to not drink if you are not thirsty, if you feel water sloshing around in your stomach, or you don't feel well and you have been taking in fluids.



## RCARC June Pastry Pub Breakfast Pictures



**Members enjoying breakfast with isolated conversations.**



**Yes, it really was this big. Johnny and Larry discussing the big one that got away.**



**It's just not the same comradery with Social Distancing. But at least we are together. It was great to see everyone.**

## UK Special Events to Recognize Historic Marconi Factory Radio Broadcast

Two special events in June marked the centennial of the first entertainment radio broadcast. England's Chelmsford Amateur Radio Society (CARS) will operate special event GB100MZX on June 13 - 20, and Wales' Dragon Amateur Radio Club will operate special event GB0MZX on June 12 - 21. Both will commemorate the 100th anniversary of the live radio recital by well-known Australian soprano Dame Nellie Melba, on June 15, 1920. These special events open the door to some interesting radio history.



**MZX was the call sign at Marconi's factory on New Street in Chelmsford.**

MZX was the call sign at Marconi's second Chelmsford radio factory on New Street, built in 1912. A CARS history recounts that after 1913, all G- and M-prefix call signs were allocated to the UK, with the M prefix being associated with Marconi. The Marconi factory received a general experimental license in late 1919 with the MZX call sign.

According to CARS, in order to test transmitters manufactured in the new plant, it became common practice to power them into an antenna and invite people to read "railway timetables or similar mundane material" over the air.

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## UK Special Events to Recognize Historic Marconi Factory Radio Broadcast

### Continued from page 7

Listeners who wrote Marconi suggested that he air more enlightening material, so some locals were informally invited into the factory to tell stories or even sing from a makeshift studio. Two 750-foot towers at the factory supported wire antennas for MZX, which by the time of the historic broadcast was running a 15-kW transmitter.



Dame Nellie Melba. [BBC archive]

Sensing a potential profit, *The Daily Mail* newspaper paid Dame Nellie Melba to travel to Chelmsford by train, where she was picked up in a chauffeur-driven car and taken the long way around Chelmsford on a route advertised beforehand to waving crowds before arriving at the studio in New Street, just a few hundred meters away.

The CARS account continues, "Her historic performance was very well received, although she realized that possibly future (paid) public performances may suffer if she was often 'on the radio,' [and] she never made a radio broadcast again.

"The Postmaster-General was not amused by such trivial use and withdrew the license in November 1920 on 'interference grounds,' in particular with Croydon airfield. The public clamor for reinstatement was substantial, and due to pressure from the Wireless Society of London and the House of Commons, the Post Office eventually relented."

Continued next column

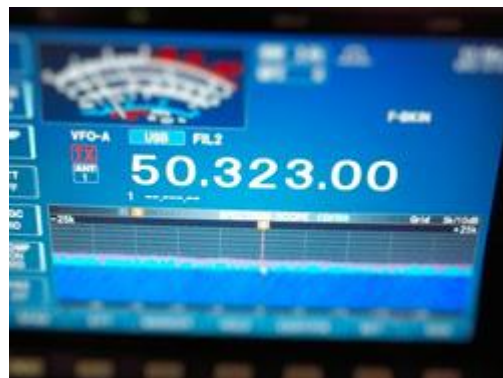
The Wireless Society of London eventually became the Radio Society of Great Britain (RSGB), the International Amateur Radio Union member-society.

[Additional history](#) of Marconi's manufacturing and broadcasting in the UK appears on the CARS website.

## Six Meters Recently Running Hot

In recent days, 6 meters has been living up to its nickname -- "the magic band." On May 30 at around 1200 UTC, Rich Zwirko, K1HTV, in Virginia, worked Nicolas Sinieokoff, TT8SN, in Chad, who answered his CQ on FT8. After the quick exchange, K1HTV alerted several local 6-meter DXers, who were also able to snag the rare contact. TT8SN was able to work into the US mid-Atlantic and Arkansas as well as West Virginia on FT8 before switching to CW at about 1300 UTC and then alternating between the two modes over the next hour. Yves Collet, 6W1TA, in Senegal also showed up on the band, and K1HTV and other stations were able to put him in the log as well.

"So, the 6-meter E-skip season has begun," Zwirko remarked. "Who knows what kind of magic the band will serve up?"



What's being called a historic opening on 6 meters occurred on May 31, when David Schaller, W7FN, in the Pacific Northwest saw the band open at about 1430 UTC and stay open for a couple of hours. W7FN worked 12 DXCC entities on FT8 (on 50.323 MHz); other stations had similar success.

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## Six Meters Recently Running Hot

**Continued from page 8**

Schaller said longtime 6-meter DXers from his area reported never having experienced a 6-meter opening to Europe like the one on May 30.

On May 28, Bill Steffey, NY9H, just south of Pittsburgh in western Pennsylvania, reported working three European stations on FT8 at around 2200 UTC. "Six [meters] has been great this week," Steve Fetter, WA8UEG, in eastern Pennsylvania, observed after working stations in the Caribbean and in Europe.

From Greenland, Bo Christensen, OX3LX, has been showing up on 6 meters on FT8 between 2230 and 0000 UTC. He's been reported working into the mid-Atlantic stations with a good signal. Mark Murray, W2OR, in Florida, took advantage of an opening to Japan on the evening of May 22. Two Florida stations each worked 20 or more Japanese stations, and one was said to have had 40 stations in Japan. W2OR said it was "an incredible number for an opening that did not last." On the previous evening, a similar opening occurred from Wisconsin and other parts of the upper Midwest.

Jim Reisert, AD1C, reported that stations in Wisconsin and Minnesota were able to work Hawaii on 6 meters starting around 2300 UTC on May 24, using FT8. John Sweeney, K9EL, in Illinois, worked three Hawaiian stations from 2240 - 2250 UTC. He called it "the best 6-meter opening to Hawaii from W9 that I have seen."

Kev Hewitt, ZB2GI, in Gibraltar, made his first 6-meter contact of the season, working K1TOL, in Maine. ZB2GI said the band sounded dead, except for K1TOL's signal. Read [more](#). --  
*Compiled from reports in [The Daily DX](#)*

### **Check out this 1960 Ham Radio Video on You Tube.**

The HAM'S Wide World 1960s ARRL Ham radio Promo Film narrated by Barry Goldwater (Vintage movie)  
<https://www.youtube.com/watch?v=29bXIVJY5Dg>

## Iron County E-Comm Meeting Pictures



**George Colson briefing the attendees on the recent Phone Tree call out and member standby request.**



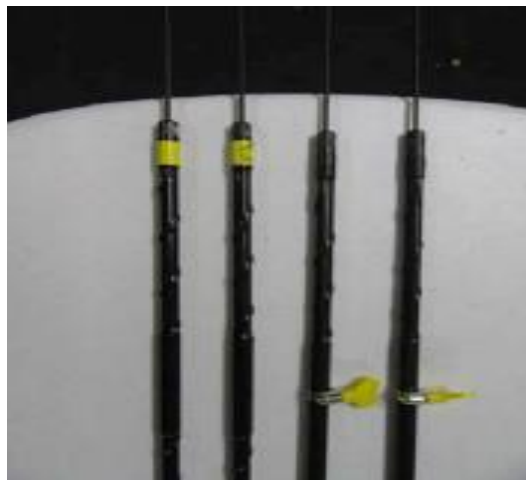
**Another picture of the attendees being brief by George Colson.**



**George Colson discussing the future of the E-Comm Group, the new EOC Building and what the future looks like.**

## ***Hamsticks – What are They and How are They Used? - Tracy, WM6T***

Hamstick is a thin fiberglass hollow pole with a wire wrapped around its length and then covered in a plastic coating to protect the wound wire.



At the top end is a place to slide a thin metal rod which is adjusted for the correct length to match the portion of the band you want to transmit and receive on. It uses standard 3/8" threaded connector at the mounting end. So basically, you have a rod about 3 to 4 feet long with an adjustable stinger at the end.

Hamsticks are made for a particular band so you will need one or two for each band you want to work. Typical bands are 80, 75, 40, 20, 17, 15, 10, and 6 meters. They can handle 200 watts or more. The reason that they are popular is that they are inexpensive and mount easily to a vehicle, can be used as a standalone vertical or with a pair in a dipole arrangement.

As a vertical either standalone or mobile mount, they must have a ground plane such as the vehicle chassis or counterpoises. In a dipole arrangement, no counterpoise is necessary.

There are several disadvantages with Hamsticks. Basically, they are shortened verticals – very shortened. The wire that is wrapped around the fiberglass section is close to  $\frac{1}{4}$  wavelength and the adjustable stinger is used for the rest of the match to a particular portion of the bands.

**Continued next column**

Hamsticks in the lower portion of the bands are very high Q and therefore only cover a very small portion of the band.

On 80 meters for example, they cover only about 10 kHz at best whereas the 20-meter sticks are about 175 kHz wide.

I finished testing three different brands of Hamsticks a week ago. I noticed that the lower bands (15 to 80 meters) had a lot of tightly wound sections. Some manufactures had the tight sections in the middle of the pole and one had that section near the tip. That manufacture with the windings near the end was Lakewood and first used the term "Hamsticks".

Unfortunately, they are no longer in business because their Hamsticks worked much better than the others I tested. Personally, I like the dipole arrangement. It does require lowering the top section when you want to adjust the stinger portion. I make the adjustments before ever going to the field and print out the list for each band. I typically only use 40 and 20 meters.



I also mark both the pole and the stinger with the preferred length with colored electrical tape. Depending on the height of the dipole and the ground conditions I will have to make adjustments in the field but generally it means moving the stinger in or out less than  $\frac{1}{2}$  inch.

**Continued on page 11**

## Hamsticks – What are They and How are They Used? - Tracy, WM6T

Continued from page 10

Below is a table of the results after adjusting the stinger length in a dipole configuration. The setup was a tripod, 8-foot fiberglass mast and the **Octopus Hamstick mount**.

An example of the Octopus mount is on the previous page. Depending on the manufacture of the Hamstick the length of the stinger sticking out will be different as will of course the height above ground affect the length of the stinger.

		Lowest Measured SWR and Corresponding Frequency		Measurements at a Preferred Frequency	
20 Meters	Height	Freq	SWR	14240	SWR
	10 ft	14235	1.88	14240	1.88
	13 ft	14220	1.27	14240	1.32

40 Meters	Height	Freq	SWR	7250	SWR
	10 ft	7235	1.09	7250	1.34
	13 ft	7260	1.30	7250	1.35

I prefer when testing to use a measurement showing the distance that the stinger is inserted into the fiberglass portion. This way I do not have to go way out to the very end and measure from the fiberglass end to the end of the stinger each time which is not very easy. In this table for a pair of 40-meter Hamsticks I list the inserted distance and the lowest SWR and corresponding frequency.

Continued next column

40 Meters		
Insert Dist	Freq	SWR
5.00	7295	1.7
4.50	7265	1.4
4.00	7240	1.6
3.50	7205	1.3
3.00	7185	1.7
2.50	7160	1.6
2.00	7125	1.3
1.50		
1.00	7075	1.6
0.50	7035	1.3

I learned several years ago while traveling with WB6NOA about a trick to use a piece of aluminum foil about ½-inch wide around the pole section and slide it up or down along the closely wound wire section to even more finely tune to a lower SWR.

About three years ago I switched to use a hose clamp with a wing lightener very lightly clamped to the pole. The photo on the previous page shows the two 20-meter Hamsticks on the left with the distance markings and the two 40- meter Hamsticks

40 Meters		
2-1/2" in and clamp at 1-1/2"	Freq	SWR
	7165	3.0
	7180	2.5
	7195	2.0
	7235	1.1
	7250	1.4
	7270	2.0
	7285	2.5
	7295	3.0

on the right with the yellow hose clamp in a particular position. In that position the results as shown below. So Hamsticks are easy to use, not very expensive, can be set up in a matter of minutes and work reasonably well if conditions are good.

Two weeks ago, I used the 20-meter Hamsticks in a dipole arrangement connected to my KX3 and running 5 watts. Since the dipole is also directionable I was able to set the direction toward the Hamly Ham Net group and had very good contacts ranging from 55 to 59.

The preceding article was taken from the *JUNE 2020 | Mountain Top Amateur Radio Association (MTARA) Newsletter*.

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## Hamsticks – What are They and How are They Used? - Tracy, WM6T

Continued from page 11



The Mountain Top Amateur Radio Association, MTARA, is located in the communities within the San Bernardino, National Forest including Crestline, Lake Arrowhead, Running Springs and Green Valley Lake. They welcome members and visitors from any area.

They are a group of licensed amateur radio operators and friends, young and old, who wish to promote the amateur radio hobby through mentoring, license testing, communications training and community service in a fun, friendly and active environment.

## Russian-Ukrainian Radio War Continues

06/16/2020

The International Amateur Radio Union Region 1 Monitoring System (IARUMS) **May newsletter** reports the Russian-Ukrainian radio war, which had been raging for years at 7055 kHz LSB (as well as on 7050 or 7060 kHz) reached a new escalation level in May. "Almost every day, one heard the most massive mutual insults and aggressive, provocative hate rap music in Russian," newsletter editor and IARUMS Region 1 Coordinator Peter Jost, HB9CET, said in the May edition. "Furthermore, from time to time, we saw insulting symbols (e.g., skulls) in the waterfall."

Jost said it's believed the perpetrators are located in the border region of eastern Ukraine with the Russian Federation.

Continued next column

## Russian-Ukrainian Radio War Continues

In May, a digital jammer appeared, with interference temporarily up to about 12 – 15 kHz. "[IARUMS] has no means to stop this radio war," Jost wrote. "Only national authorities can do something with international complaints." The Deutscher Amateur Radio Club (DARC) intruder watch has submitted an official report on the interference to BNetzA, the German telecommunications regulator, the newsletter reported.

## Tennessee Court of Appeals Affirms Contempt Ruling Against Radio Amateur

A Tennessee Court of Appeals has affirmed a radio amateur's liability for a 30-day jail sentence for violating a court directive to refrain from contacting another radio amateur who had filed a temporary order of protection. The appeals court's June 11 determination upheld a lower trial court ruling that found Michael J. Mgrdichian, ex-N2FUV, of Kodak, in criminal contempt for violating the order by contacting Jamie Faucon, N3FA (ex-AA3JF) of Knoxville via ham radio on three



Separate occasions. Mgrdichian appealed, primarily asserting that the lower court lacked jurisdiction over the case, because amateur radio is regulated by the FCC, a federal agency.

Continued on page 18



# RCARC Field Day Pictures



2020 Field Days under way with the raising of the Tower and Antenna.



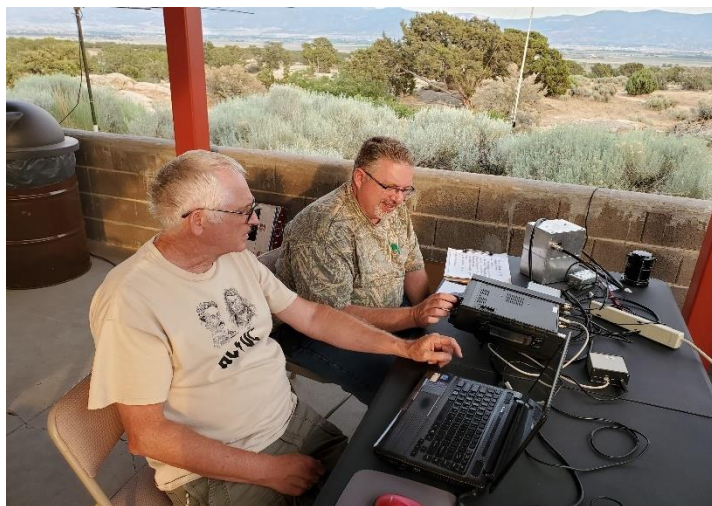
Ann (KG7OGZ) and George (AL7BX) working FT8 Digital



Larry (N7SND) working with Isaiah (KI7SXJ) on making a few contacts.



Participants take time to have Pizza for lunch.



George (AL7BX) and Brody (K7VXV) working 20- & 40-Meter Voice contacts.

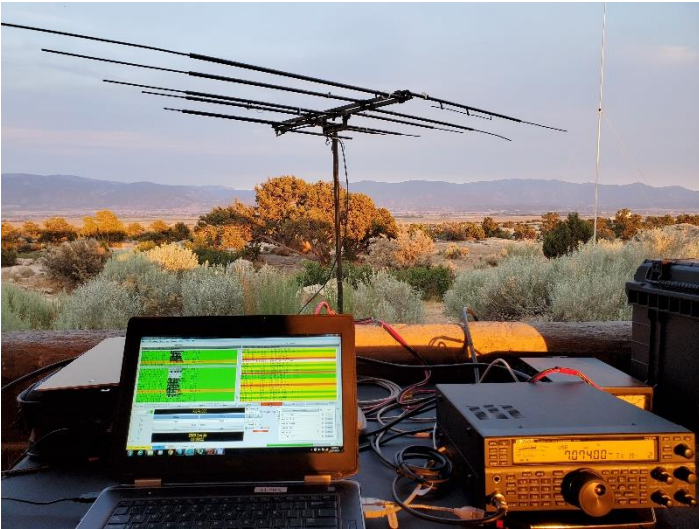


Ken (KR7KR) working FT8 Digital on 6 Meters.

Continued on page 14



# RCARC Field Day Pictures



FT8 Station at Sundown.



Brody (K7VXV) starting breakfast.



Terry making the pancake mix.



Pancakes on the stove top.



Fred (KI7TPD) and Bonnie (KI7WEX) fixing their breakfast



Participants eating their breakfasts.

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# COVID-19 Word Search Exercise

## COVID-19 Word Search

Find the COVID-19 words, names and phrases from the list below: left, right diagonal—forward or reverse!

R	C	N	N	S	Y	D	O	B	I	T	N	A	L	QUARANTINE
E	C	H	H	S	Q	K	C	E	S	P	R	E	R	CHLOROQUINE
D	A	Q	L	T	U	D	O	T	T	E	E	C	G	PHONE BANK
L	R	B	N	O	A	C	E	S	E	N	Z	A	N	CALL CENTER
U	N	A	B	M	R	X	F	A	U	C	I	L	I	ANTIBODY
N	L	W	A	A	A	O	B	P	N	E	T	L	T	FIT TESTING
D	E	S	W	N	N	S	Q	A	R	A	I	C	S	MASK
X	K	I	I	L	T	D	I	U	R	N	N	E	E	NON ESSENTIAL
O	R	C	D	C	I	B	O	S	I	A	A	N	T	SANITIZER
E	N	I	C	Q	N	R	E	E	E	N	S	T	T	FAUCI
E	N	A	B	L	E	V	A	R	T	T	E	E	I	BIRX
L	P	H	O	N	E	B	A	N	K	N	N	R	F	REDLUND
U	N	O	N	E	S	S	E	N	T	I	A	L	E	CDC
S	U	A	L	D	A	B	A	A	U	E	E	O	A	TRAVEL BAN
														PENCE
														PAUSE
														SWAB
														EOC

# RCARC Field Day Pictures



Antenna Tower & Antenna coming down as wind has arrived.



Antenna being taken apart for storage



This portable antenna was used for FT8 operations

## RCARC Field Day 2020 Results

N7U's Contest Summary Report for ARRL-FIELD-DAY  
Created by N3FJP's ARRL Field Day Contest Log  
Version 6.3 [www.n3fjp.com](http://www.n3fjp.com)

Total Contacts = 866  
Total Points = 1,687



## Completion Pictures of Dennis's (W6DLW) Flag Pole Antenna Installation



Brad (WA7HHE), Ken (KR7KR) and George (AL7BX) are working on the copper ring that the radials will connect to during final project completion.



Brad (WA7HHE), George (AL7BX) and Ken (KR7KR) are running and installing radial wires.



Brad (WA7HHE), George (AL7BX) are installing the radials under the rocks in various directions and lengths. Ken continues to make the final electronic connections etc.



Brad (WA7HHE) and Ken (KR7KR) are running the coax through the junction box and into the house.



The electronics are coming together we are almost there.



Installation complete and it looks just like a Flag Pole.



## Tennessee Court of Appeals Affirms Contempt Ruling Against Radio Amateur

Faucon claimed that Mgrdichian had "stalked, threatened, and harassed" her on multiple occasions between 2016 and 2019, claiming that the threats were made via ham radio after Faucon had asked Mgrdichian to cease his actions. Faucon claimed that problems between her and Mgrdichian began after she complained to the FCC, alleging that Mgrdichian was using racially abusive language on the air. That matter was not at issue in the appeals court ruling.

The trial court had issued a temporary protection order for Mgrdichian to cease contacting Faucon, "either directly or indirectly, by phone, email, messages, mail, or any other type of communication or contact."

Mgrdichian attempted to have the lower court case dismissed by arguing that state courts do not have jurisdiction over any communication involving amateur radio. The trial court maintained, however, that it did have jurisdiction based on an alleged violation of the temporary protection order.

"The [temporary restraining] order did not prohibit [Mgrdichian] from using amateur radio; it did not attempt to establish a permitted level of interference; and it did not originate from, or result in, a nuisance claim," the appeals court reasoned in its ruling. "Instead, the subject matter of this case primarily rests on [Mgrdichian] violating the [temporary restraining] order by contacting [Faucon] on amateur radio. A party's radio usage -- whether it be commercial or amateur -- does not automatically preempt the case from being heard by a state court."

The appeals court determined that the trial court had jurisdiction to find Mgrdichian in criminal contempt of court when he violated the temporary restraining order by contacting Faucon via amateur radio.

The appeals court upheld findings that Mgrdichian was in contempt of the trial court's order on three occasions, each calling for 10 days in jail and a fine.

## More Amateur Radio Exam Sessions Engineering In-Person, Remote Solutions

As some states further relax restrictions imposed to minimize the spread of the COVID-19 virus, additional teams of ARRL Volunteer Examiner Coordinator (VEC) volunteer examiners (VEs) have conducted successful sessions. On June 13 at the Clark Township Municipal Building, the Electronic Technology Society of New Jersey (ETSNJ) held its first exam session since February, with help from several other clubs. With COVID-19 precautions in place, the June session was held outdoors.

"We had to have two sessions, because we had 20 candidates on our waiting list," said Larry Makoski, W2LJ, a member of the Piscataway Amateur Radio Club.



Drew Moore, W2OU, was the ARRL VEC liaison. "We had the candidates line up their vehicles on one side of the parking lot. Directly across from them were the vehicles of the VEs. They were given the option of taking the exam inside their vehicle, or if they wanted, they could bring a chair and clipboard and take the exam in front of their vehicle. Each vehicle was checked for compliance as we collected exam fees and checked photo IDs."

Makoski said social distancing was maintained, and face coverings and gloves or hand sanitizer were the order of the day. "We communicated with the candidates via a low-power FM transmitter tuned to 88.7 MHz or thereabouts, and they could hear us on their FM broadcast receivers inside their vehicles," he explained.

**Continued on page 19**

## More Amateur Radio Exam Sessions Engineering In-Person, Remote Solutions

All went smoothly, and the weather cooperated. "Everyone who came walked away -- or should I say, drove away -- with either a new Technician-class license or an upgrade," Makoski said. A vacant seat was left for VE Bobby Cure, W2REC (SK), who had succumbed to COVID-19. "We tried to honor his memory by making him present in spirit," Makoski said.

VE teams from the Tri-County Radio Club, the Raritan Valley Radio Club, the South Plainfield Amateur Radio Club, the New Providence Amateur Radio Club, and the Fair Lawn Amateur Radio Club pitched in to help.

On the same Saturday in Florida, Doug Wiles, WF4B, reports that the St. Augustine Amateur Radio Society (SAARS) VE team held its first exam session in 6 months. The session took place in an outdoor pavilion, and test areas were disinfected prior to the candidates' arrival. Face masks were distributed and social distancing was practiced during the session, Wiles said. All three candidates passed.



On June 14 in Georgetown, Kentucky, VE Ron Malinowski, WX4GPS, with the Scott County Amateur Radio Club said 14 candidates passed their tests during an indoor session held there. "We took temperatures at the door, gave masks to anyone who came without, and we wiped down all seating areas after the attendee left," he said.

**Continued next column**

## More Amateur Radio Exam Sessions Engineering In-Person, Remote Solutions

ARRL VE Team Liaison Janet Crenshaw, WB9ZPH, in Garland, Texas, told ARRL that a trucker signed up for a recent remote exam session.

"He had a Wi-Fi hotspot in the cab of his truck, so he found a parking space, pulled out his iPad and iPhone, and we had our Zoom test right there," she told ARRL VEC. "The world certainly has changed, and I've been encouraging people to realize that the world of ham radio has to change with it."

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## Former FEMA Administrator Craig Fugate, KK4INZ, Says Emergency Communications Will be the Next COVID Challenge

Craig Fugate, KK4INZ, FEMA Administrator during the Obama Administration, expressed powerful [remarks](#) in a recent edition of *The Hill*. Fugate's comments prompted Bob Inderbitzen, NQ1R, of the ARRL HQ staff, to respond:

"He's spot-on. I know I'm preaching to the choir, but Fugate's remarks help underscore the important and continuing role of radio amateurs in this nation and world where smartphones are now the common denominator. The radio amateur is skilled in both radio technology and radio communications - valuable resources in a society where "wireless" connects nearly everything, and few know how it works. Irrespective of the frequencies or equipment we use, the Federal Government has deemed radio amateurs so valuable we're referred to as a "reservoir ... of trained operators, technicians, and electronics experts" and recognized for our value to the public, especially in providing emergency communications:

- We can deploy temporary communications infrastructure using our own personal communications capability and equipment. As we learned during recent hurricanes, this means we can give service to the public and our partners in emergency response even before repairs are made to regular communication networks.

**Continued on page 20**



## Former FEMA Administrator Craig Fugate, KK4INZ, Says Emergency Communications Will be the Next COVID Challenge

- Just because an emergency responder is equipped with a working communication system doesn't mean they have the training to use it under adverse conditions or fix it. We've similarly learned that the training some radio amateurs pursue to communicate and exchange critical information (traffic) is a valuable skill during emergencies. This is why so many of our volunteers also support communications during events and marathons - even shadowing EMTs and Red Cross personnel.

"A pilot-ham recently explained to me why she got her Amateur Radio Service license: she said avionics and the pilot's ability to communicate-by-radio require more training and skill than you get learning to fly. Ham radio has become her breadboard for developing a technical competency with radio communication and her on-air practice." - *Bob Inderbitzen, NQ1R, Product Development Manager, ARRL Administrative Headquarters*

[Thanks go to Bill Morine, N2COP, ARRL Vice Director of the Roanoke Division, for calling the article to our attention and commenting: "I'm glad you agree that Fugate's remarks are poignant and relevant, not only to ham radio overall, but especially to Field Day. This year we are encouraging that all social media posts related to Field Day please include the hashtag #ARRLFD to help generate more awareness." -- ed.]

## Do you know where this is?



Just for fun can you identify the location and name of our RCARC club member that created this coaxial art work?

**Hint: Jungle**

Send your response to the newsletter e-mail address.



## Volunteers are the heart and "sole" of the Cedar City Half Marathon!

Over the last 10 years, we've had a local team of dedicated and passionate volunteers that have offered their valuable time and expertise, making the Cedar City Half Marathon the great event it is today!

For the 2020 half marathon, we are looking for a few more experienced and race-ready volunteers that want to join our local organizing team.

This team meets weekly for the next three months to redefine, develop, organize, and promote the Cedar City Half Marathon.

If you have some experience, ideas, and want to make a difference, please email [cedarcityhalf@gmail.com](mailto:cedarcityhalf@gmail.com).

We look forward to meeting you!

**Cedar City Half Marathon LOC Team**

## Rescued Radio Amateur Says, "Ham Radio Saved My Life"

Alden Sumner Jones IV, KC1JWR, of Bennington, Vermont, is thankful for amateur radio, after he suffered a medical incident and lost consciousness on June 15 while hiking with others along a remote section of the Long Trail, not far from his home. An EMT from Appalachian Mountain Rescue (AMR), who was hiking nearby, saw Jones pass out, but was unable to connect with 911 via his cell phone. Jones, 41, regained consciousness and was successful in contacting Ron Wonderlick, AG1W, via the Northern Berkshire Amateur Radio Club's K1FFK repeater on Mount Greylock. Wonderlick initiated what turned into an 8-hour effort to get Jones off the trail and to a medical facility, acting as a relay among Jones, emergency crews, and other agencies involved. As the *Bennington Post* [reported](#), "The Vermont State Police also received assistance from several licensed amateur radio operators who helped facilitate communications, greatly assisting in the rescue."



**A helicopter-supported litter carries Alden Sumner Jones IV, KC1JWR, to safety. Vermont State Police photo via the Bennington Post.**

Matthew Sacco, KC1JPU, headed to a staging area where rescue crews were gathering. When he could not make it into the repeater, he employed some ham radio ingenuity to fashion a J-pole antenna from some window line he had on hand, casting it into a tree using a fishing pole. That did the trick. An individual on site was able to obtain an accurate location for Jones using the GPS on his cell phone.

**Continued next column**

After it was determined that rescuers could not reach Jones using an all-terrain vehicle, arrangements were made to have a search-and-rescue crew from New York retrieve Jones by helicopter. Amateur radio participants were able to relay critical information, including an accurate location, as preparations continued.

Jones, meanwhile, took advantage of his time with the EMT and other rescuers to talk up amateur radio and explain how to get licensed. According to one account, rescuers were having trouble making contact with the helicopter, so Jones loaned them a better antenna he happened to have.

Jones was eventually flown to a hospital in Albany, New York, again taking advantage of the occasion to promote amateur radio to the helicopter pilot and crew. Jones is said to be recovering.

"Ham radio saved my life last night, and I am very thankful for how everyone helped me," Jones said afterward.

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## Vintage 1920 Vacuum Tube Radio Receiver





# A Visitor Among Us



During the Field Day 2020 set up this drone arrived and hovered over the work crew as they assembled the antenna and raised the tower.