

RAINBOW CANYONS AMATEUR RADIO CLUB NEWSLETTER

CEDAR CITY, UTAH



Club Websites: www.rcarc.info OR www.rainbowcanyons.com Number 2 – Vol. 6 – June 2020

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.

2020 Club Officer's

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CQ, CQ Happy Father's Day



Presidents Message

Dear Fellow Amateur Radio Operators,

Thank you everyone who participated during our last meeting! It is kind of fun to have on the Air meetings! Right now, the Senior Center is still closed so we will probably have to have the June meeting on the Air as well. I did check with the Pastry Pub and we are scheduled for our breakfast for the first Saturday in June. We cannot have tables joined together and we need to maintain social distancing but we can still meet in the back room.

Like last month we will have an early net (7:00 pm) on the day of our meeting, June 9th on the 146.76 repeater for all members to join to replace our normal meeting! Field Day is going on as planned with a few changes. We will be meeting on the morning of June 27th at Three Peaks to set up. We will be a 5A station with the callsign of N7U.

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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.

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

June 9, 2020

RCARC Club Meeting

Program: Field Day, Fred (KI7TPD) & Committee. (May be a radio meeting & program) stay tuned.

June 27 & 28, 2020

Summer ARRL Field Day

Three Peaks Recreational Area Pavilion.

July 14, 2020

RCARC Club Meeting

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

August, 2020

Annual Barbeque & swap Meet.

Date to be Determined

We will not have a potluck dinner, instead bring your own prepared dinner or take out! Field day runs from June 27th to June 28th. We will be on the air from noon until noon.

It has been a trying few months for us all with the COVID-19 pandemic and the social distancing that has resulted from the outbreak. Things are easing a bit, but it is still not quite over. I hope that everyone is able to stay safe and healthy! Remember we have the ability to communicate and we can help if you are in need! Keep busy on the radio!

Congratulations to the two new technicians and to the three new Extra class Hams!

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. Check out their website at:

www.cedarcitypastrypub.com

COVID-19 Safety Tip

Wash your hands

Wash your hands with soap and running water when **hands are visibly dirty**



If your **hands are not visibly dirty**, frequently clean them by using alcohol-based hand rub or soap and water



Happy Birthday and Anniversary to those celebrating in June



Next Field Day Meeting (On Zoom) is scheduled for June 9th at 6:00 pm. Contact Fred (KI7TPD) if you are interested in joining in.

Planning Your ARRL Field Day 2020 Operation

For most of us, ARRL [Field Day](#) 2020 is going to look quite different than it has in past years. Considering the impact of social distancing due to the COVID-19 pandemic, many radio clubs and large groups will not be gathering in their usual Field Day locations this year. Here are some tips and suggestions to help participate in amateur radio's largest annual on-air event under these unusual circumstances.

Don't Forget 6 Meters

Field Day is a non-adjudicated operating event and not "full speed ahead" contest. It is also not just an HF event. All amateur radio bands above 50 MHz may be used during the event too.

This includes 6 meters, which often offers significant propagation enhancements around the time of Field Day weekend.



The band is available to amateurs holding a Technician-class license or higher. If you have an HF/VHF/UHF multi-mode transceiver, try making SSB, CW, or digital contacts on 6 meters. Even a simple vertical or dipole will allow you to experience the "magic band."

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Breakfast & Friendship Net Awards

Breakfast Net		Friendship Net	
First Place	Second Place	First Place	Second Place
KG7PBX - Linda	KI7LUI - Tom	KI7LUM - Bruce	K7ZI - Dick
KI7WEX - Bonnie	K7ZI - Dick	KI7TPD - Fred	N7SND - Larry
KE6ZIM - Johnny	Third Place	N7TCE - Merlin	KI7WEZ - Darleen
KK7ZL - Ed	K7ZZQ - Johnny	K7HDX - Ron	Third Place
KI7TPD - Fred	N7SND - Larry	KI7WEX - Bonnie	KJ7LTQ - Brant
KI7SDA - Jerel		KA7J - Lance	
		K7NKH - Lee	

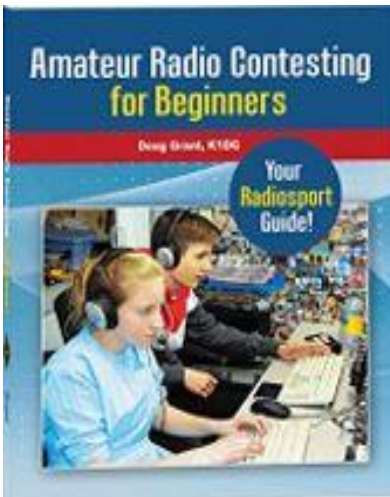
A Ham Radio Quote

"I have been frankly fascinated with that unpaid group of people with those ham radios, the Auxiliary Communications Service" [ACS]. [The ACS makes available] "a wireless system that seldom if ever can be totally disrupted by a disaster...ham radio operators are the heart and the soul and the life blood of that system."

The Hon. Mayor Willie Brown
Mayor of San Francisco (1996-2004)

RCARC June Meeting Book Give Away

The book shown below will be awarded to one of our RCARC members at our club meeting on June 9, 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.

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Newsletter E-mail:

rcarcnewsletter@gmail.com

Website

www.rcarc.info

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



Old Microphone Collection



ARRL Seeks Clarification of Amended Amateur Service RF Safety Rules

ARRL has filed a Petition for Clarification addressing two issues arising from amended FCC RF safety rules that go into effect on June 1 for the Amateur Service and other FCC-regulated services. Licensees will have 2 years to determine if an RF safety evaluation is now required under the new rules and to perform an evaluation and implement any needed mitigation measures. Current rules already require amateur stations to meet RF exposure limits, but more radio amateurs will have to evaluate their stations under the new rules. The revised final rules, adopted last November, appeared in the April 1 edition of The Federal Register.

"For applicants and licensees in the Amateur Radio Service, we substitute our general exemption criteria for the specific exemption from routine evaluation

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Clarification of Amended Amateur Service RF Safety Rules

based on power alone in Part 97.13(c)(1) and specify the use of occupational/controlled limits for amateurs where appropriate," the FCC said. While radio amateurs have always had to comply with RF exposure limits, certain stations have been exempted from having to conduct evaluations based upon power and frequency.

On May 8, ARRL asked the FCC to clarify that using maximum permissible exposure (MPE) limits be permitted in the Amateur Service for required RF safety evaluations of 2200-meter operations, just as they are elsewhere in the amateur spectrum. Removal of the exemption for amateurs resulted in a requirement to use specific absorption rate (SAR) limits for amateur frequencies between 100 and 300 kHz.

"SAR evaluations are very complex to directly measure and, we believe, generally exceed the capability of most individual amateur operators," ARRL argued in its petition, asserting that MPE limits correspond to conservative estimates of SAR.

"Near-field calculation of a uniform field applied to a transmitter and antenna operating at 1 W EIRP on 2200 meters would result in a very conservative estimate of specific absorption rate (SAR) and is a valid measurement for determining safety of operation," ARRL told the FCC. "We request clarification that the rules do not intend to preclude the use of MPE as a surrogate for SAR to evaluate amateur operations in the 2200-meter band."

ARRL also wants the FCC to clarify that its amended rules permit the use of near-field regression rates, using the MPE table to compare against the maximum field strength that may occur from a handheld portable device, instead of using the SAR. In its filing, ARRL maintained that SAR data is not available for amateur equipment as it is for equipment used in other services. Before the rules were amended, mobile and portable transmitters generally were exempt from the requirement to perform routine environmental evaluations Under Part 97.13(c)(1) as amended, effective on June 1, amateur licensees must ensure compliance with FCC RF exposure requirements spelled out in sections

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Clarification of Amended Amateur Service RF Safety Rules

1.1307(b), 2.1091, and 2.1093 of the FCC rules, where applicable.

"In lieu of evaluation with the general population/uncontrolled exposure limits, amateur licensees may evaluate their operation with respect to members of his or her immediate household using the occupational/controlled exposure limits in Part 1.1310, provided appropriate training and information has been accessed by the amateur licensee and members of his/her household."

"RF exposure of other nearby persons who are not members of the amateur licensee's household must be evaluated with respect to the general population/uncontrolled exposure limits." The rule directs radio amateurs to OET Bulletin 65, Supplement B for methodologies and guidance to evaluate amateur radio operation.

OET Bulletin 65 can be found online in PDF format at, https://transition.fcc.gov/Bureaus/Engineering_Technology/Documents/bulletins/oet65/oet65.pdf.

The FCC has provided 2 years - until May 31, 2022 - for licensees to determine if evaluations are now required, to perform such evaluations where necessary, and to implement any needed mitigation measures.

"The amended rules are intended to provide more efficient, practical, and consistent RF exposure evaluation procedures and mitigation measures to help ensure compliance with the existing RF exposure limits," the FCC said. "The amended rules replace the various inconsistent service-specific criteria for exempting parties from performing an evaluation to demonstrate compliance with the RF exposure limits with new, streamlined criteria."

"The amended rules also allow the use of any valid computational method to determine potential RF exposure levels. The FCC did not amend the actual RF exposure limits that were adopted in 1996."

Mark your Calendar

RCARC Field Day will be held on June 27th and 28th at Three Peaks Recreational area Pavilion.

Federal Judge Okays Retrieval of *Titanic* Marconi Wireless Equipment

A US federal judge in Virginia has given permission to retrieve the ill-fated RMS *Titanic*'s Marconi wireless gear, which transmitted distress calls from the sinking ocean liner during its maiden voyage. Judge Rebecca Beach Smith of the US District Court in Norfolk ruled that the within the rapidly decaying wreck. The *Titanic* sank in 1912 some 370 miles off the coast of Newfoundland after striking an iceberg.



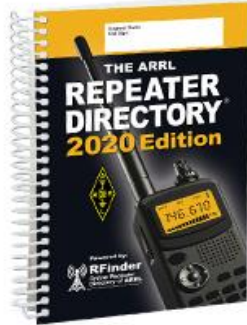
"The Marconi device has significant historical, educational, scientific, and cultural value as the device used to make distress calls while the *Titanic* was sinking," Judge Smith wrote in her ruling. She said the company would be permitted "minimally to cut into the wreck" to access the radio room.

David Concannon, a lawyer for R.M.S Titanic Inc., which the court has recognized as the steward of the vessel's artifacts, said the company would try to avoid cutting into the ship, noting that the radio room may be reachable via a skylight that was already open. More legal wrangling may lie ahead. The National Oceanic and Atmospheric Administration (NOAA) contends that the retrieval expedition is still prohibited under US law and under an international agreement between the US and the UK.

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RCARC Book Give Away

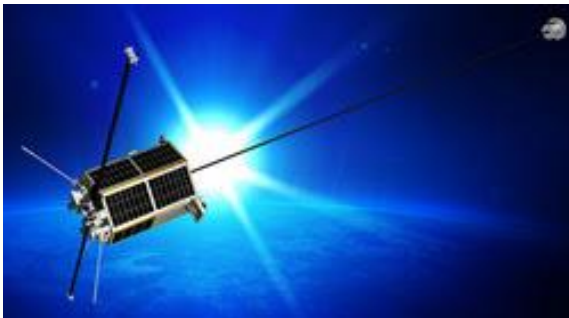
The winner of the May 12, 2020 Book give-away is Larry Bell (N7SND), he was awarded the ARRL Repeater Directory, 2020 Edition.



Congratulations Larry

Russian DOSAAF-85 (RS-44) Amateur Radio Satellite Transponder Now Active

The amateur radio linear transponder (SSB/CW) on the Russian DOSAAF-85 (RS-44) has been activated. Dmitry Pashkov, R4UAB, explains that RS-85 is a small scientific satellite built by specialists at Information Satellite Systems and students at Siberian State Aerospace University (SibSAU).



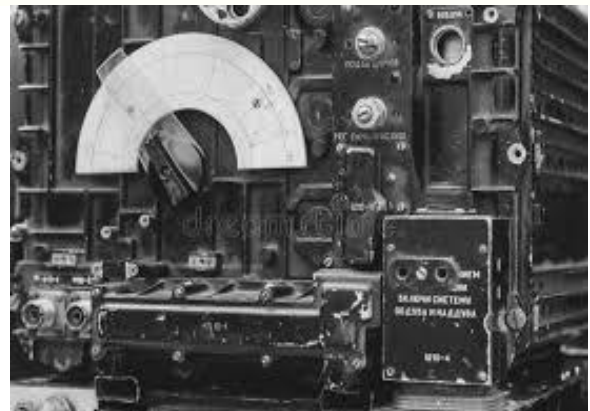
The satellite's name commemorates the 85th anniversary of the Voluntary Society for the Assistance to the Army, Aviation, and Navy (DOSAAF), the organization responsible for the military training of Soviet youth.

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This is the third satellite created by the specialists of ISS-Reshetnev and is based on the Yubileyniy platform, which features a hexagonal prism structure with body-mounted solar cells. It was launched into orbit last December 26 from the Plesetsk Cosmodrome and is in an elliptical orbit with a perigee of 1,175 kilometers (729 miles), an apogee of 1,511 kilometers (937 miles), and an inclination of 82.5°. Transmitter power is 5 W, and the beacon is on 435.605 MHz (identifying as RS-44).

The transponder is inverting, with uplink centered at 145.965 MHz \pm 30 kHz, and downlink centered at 435.640 MHz \pm 30 kHz. Logbook of The World (LoTW) accepts DOSAAF-85 contacts under "RS-44."

Vintage Ham Radio Pictures From a time gone by



Iron Mountain Repeater Site

By George Gallis (AL7BX)

On 4/18/20 Don, WA7GTU, and I made the first trip up Iron Mtn. this year. The road was clear and dry.

The 146.760 repeater is on Iron Mtn. about 16 miles west of Cedar City at about 7,800 ft.

Two ham repeaters are housed in the cargo box, 146.760 and 448.800, both owned by K7JH. The antenna for the 146.760 is on the tall one on the right side of the wood pole, 4 folded dipoles.

The UHF repeater antenna is on the left side of the pole.

This picture below on the left is looking south past a cell tower and to the Pine Valley Mountains in the clouds in the distance.

We saw a few wild horses on the trip up. The horses were not close enough to get a good picture, but here is a picture of them I took a few years ago up there.



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Federal Judge Okays Retrieval of *Titanic* Marconi Wireless Equipment

R.M.S Titanic has said the radio transmitter could unlock some of the secrets about a missed warning message and distress calls sent from the ship.

"It tells an important story," Concannon said. "It tells of the heroism of the operators that saved the lives of 705 people. They worked until water was lapping at their feet."



In an April court filing, NOAA argued against the salvage effort, saying that any benefit to be realized from cutting into the vessel to recover the Marconi equipment would not be "worth the cost to the resource and not in the public interest."

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Federal Judge Okays Retrieval of *Titanic* Marconi Wireless Equipment

In an April court filing, NOAA argued against the salvage effort, saying that any benefit to be realized from cutting into the vessel to recover the Marconi equipment would not be "worth the cost to the resource and not in the public interest."

RMS *Titanic* sought permission to carry out what it called a "surgical removal and retrieval" of the Marconi radio equipment. As might be expected, the deteriorating Marconi equipment is in poor shape after more than a century under water. The undersea retrieval would mark the first time an artifact was collected from within the *Titanic*, which many believe should remain undisturbed as the final resting place of some 1,500 victims of the maritime disaster. The wreck sits on the ocean floor some 2 1/2 miles beneath the surface, and remained undiscovered until 1985. R.M.S. *Titanic* said it plans to use a manned submarine to reach the wreck and then deploy a remotely controlled sub to retrieve the radio equipment. End



Happy Father's Day

Planning Your ARRL Field Day 2020 Operation

Activities for Techs

One suggestion for clubs to consider in order to increase participation among their Technician-class members is to schedule specific times when these club members will monitor designated VHF and UHF simplex frequencies for Field Day activity. (Avoid published national FM simplex calling frequencies; repeaters are prohibited for Field Day contacts.) This way, members having equipment capable of VHF/UHF-only operation may be able to participate from home or a vehicle. Clubs can choose a list of frequencies and schedule times in advance.

On HF, Technician-class licensees have CW privileges on 80, 40, and 15 meters, as well as RTTY/data and SSB phone privileges on 10 meters. If you aren't a CW operator, try calling CQ on 10-meter SSB in the late afternoon and early evening on Saturday to see if conditions are favorable for long-distance communications. Try experimenting with a simple wire antenna for 10 meters. You might discover that the band can offer plenty of unexpected propagation.

Set Up for Digital Modes

You might want to explore using FT4/FT8 (or other) digital modes on 10 meters, 6 meters, or even on VHF/UHF. These modes offer an opportunity to make weak-signal contacts when band conditions often do not support voice communication. There have been reports of some great 6-meter openings in recent weeks, and these are likely to occur more frequently as summer approaches.

Setup is relatively straightforward. You'll need a computer and a digital interface to connect the radio to the computer, and you'll need to download one of the digital mode software packages,

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Planning Your ARRL Field Day 2020 Operation

such as the free [WSJT-X](#) suite, which incorporates FT8 and FT4. Software should support the ARRL Field Day exchange (WSJT-X version 2.0 or later, for example).

ARRL [Field Day](#) rules place a premium on "developing skills to meet the challenges of emergency preparedness as well as to acquaint the general public with the capabilities of amateur radio." Field Day 2020 is June 27 - 28.

The Excitement of Ham Satellites

Another area to explore is satellite operation. Many hams have had success making contacts via the FM satellites with just a VHF/UHF handheld radio and a small handheld directional antenna. You'll need a multi-mode VHF/UHF transceiver for the linear (SSB and CW) satellites. To determine when a satellite will be making a pass over your location, visit AMSAT's [Online Satellite Pass Prediction](#) page.

An Opportunity for Learning

ARRL Field Day 2020 may be the year you decide to participate solo, or with other members of your household. You may want to focus on expanding your knowledge base and experiment with new modes or bands that you never thought of using before. If you're a mentor to a newer ham, Field Day can be an opportunity to share some of your knowledge with them, as well as for you to expand your own operating horizons. This might be the year to leave your Field Day comfort zone and try something new! End.

Amateur Radio Gains Significant Boost in UK by Connecting People During Lockdown

A recent [BBC news feature](#) has outlined how ham radio has gotten a significant boost by connecting people during the COVID-19 lockdown in the UK. The article, by Vanessa Pearce, quotes the Radio Society of Great Britain (RSGB) -- the UK's IARU member-society -- as saying that many former hams are now returning to the hobby. Mark Rider, G3VHJ -- a retired engineer who lives alone in North Warwickshire -- said that after the lockdown restricted his occasional trips to the pub, rehearsing with musician friends, and visiting his wife in a nursing home, he decided to dust off his ham radio equipment "to seek out some other social interaction." Rider said that rag chewing has become one of the highlights of his day. "Just speaking to somebody else in the same situation is very rewarding," he said. The 67-year-old told BBC News that keeping in touch with others has been more important since his wife suffered a stroke.

RSGB General Manager Steve Thomas, M1ACB, said the society has experienced a three-fold increase in license examination applications since social distancing rules were put into place. The UK has about 75,000 amateur licensees.

Eleven-year-old Anne-Marie Rowland, 2E0RUX, of Cornwall, worked with the Cornish Amateur Radio Club to conduct informal twice-weekly nets to help keep people in touch. "We have some regulars, but also

some new people join in," she told the BBC. Her father, Bill, M0NFX, runs a net that has attracted older radio amateurs who are self-isolating, to help them feel connected.

The RSGB recently instituted its "Get on the Air to Care" ([#GOTA2C](#)) campaign in conjunction with the National Health Service and its GB1NHS amateur station to promote amateur radio use during the pandemic lockdown. Some stations have been adding /NHS to their call signs to support the effort, which aim to support the emotional health and wellbeing of the amateur radio community.

The RSGB introduced remote administration of entry-level Foundation-class amateur radio exams in mid-April. Pete Sipple, M0PSX, told BBC News that he's seen a "massive" surge in demand for training courses and exam session and has had to up the number of course offerings.

Temporary Rule Waivers Announced for 2020 ARRL Field Day

With one month to go before 2020 [ARRL Field Day](#), June 27 - 28, the ARRL Programs and Services Committee (PSC) has adopted two temporary rule waivers for the event:

1) For Field Day 2020 only, Class D stations may work all other Field Day stations, including other Class D stations, for points.

[Field Day rule 4.6](#) defines Class D stations as "Home stations," including stations operating from permanent or licensed station locations using commercial power. Class D stations ordinarily may only count contacts made with Class A, B, C, E, and F Field Day stations, but the temporary rule waiver for 2020 allows Class D stations to count contacts with other Class D stations for QSO credit.

2) In addition, for 2020 only, an aggregate club score will be published, which will be the sum of all individual entries indicating a specific club (similar to the aggregate score totals used in ARRL affiliated club competitions).

Ordinarily, club names are only published in the results for Class A and Class F entries, but the temporary rule waiver for 2020 allows participants from [any Class](#) to optionally include a single club name with their submitted results following Field Day.

For example, if Podunk Hollow Radio Club members Becky, W1BXY, and Hiram, W1AW, both participate in 2020 Field Day -- Hiram from his Class D home station, and Becky from her Class C mobile station - both can include the radio club's name when reporting their individual results. The published results listing will include individual scores for Hiram and Becky, plus a combined score for all entries identified as Podunk Hollow Radio Club.



The temporary rule waivers were adopted by the PSC on May 27, 2020.

ARRL Field Day is one of the biggest events on the amateur radio calendar, with over 36,000 participants in 2019, including entries from 3,113 radio clubs and emergency operations centers. In most years, Field Day is also the largest annual demonstration of ham radio, because many radio clubs organize their participation in public places such as parks and schools.

Due to the COVID-19 pandemic, many radio clubs have made decisions to cancel their group participation in ARRL Field Day this year due to public health recommendations and/or requirements, or to significantly modify their participation for safe social distancing practices. The temporary rule waivers allow greater flexibility in recognizing the value of individual and club participation regardless of entry class.

ARRL is contacting logging program developers about the temporary rule waivers so developers can release updated versions of their software prior to Field Day weekend.

Participants are reminded that the preferred method of submitting entries after Field Day is via the [web applet](#). The ARRL Field Day rules include instructions for [submitting entries](#) after the event. Entries must be submitted or postmarked by Tuesday, July 28, 2020.

The ARRL Field Day [web page](#) includes a series of articles with ideas and advice for adapting participation this year.

Silent Key

RCARC Member

Anthony Francis Bennett

February 13, 1947- May 25, 2020

Daddy,

You're a hero, a fighter, strong, a loving Dad, Papa, hard worker, smart and so many talents. You made friends wherever you went and that was a gift. You have such a love for radios. You were a fantastic electrician and I absolutely loved going to work with you pulling wire, learning how to wire phone Jack's, telephone systems and radio systems growing up when you owned Bennett Communications in Las Vegas. I loved that we had our own radio tower in the backyard growing up. I loved listening to oldies growing up with you, turning the music up so loud we could feel the music vibrating in our chest as we sang and danced. I love your smile, laugh and stories. You had such generosity and always cared and wanted to help others. Your heart was so big!! My kids Jackson and Rylee are so blessed to have you as their Papa and know such a Vietnam hero that fought for their country. Thank you for loving them so much! We are going to miss you so much. My heart is broken knowing you and mom are both gone from this earth and those adventures are done here for now until we meet again in heaven. I love you bunches Dad. I'm going to miss hearing you call me Schotzie everyday as we talked on the phone. That has always been so special to me since the day I was born. Thank you!! I bet you're running and jumping around in heaven with your new legs. I'm proud to have you as my Dad. Thank you for teaching me so many things and to be a hard worker. You loved planes and flying. Now you get to fly high in heaven. You will always be remembered on Memorial Day the day you went home to your heavenly father. I love you Dad and I'm going to give you the biggest hug when I see you again. I'm glad you're pain free and no longer suffering. These past 14 months you fought so hard to the end and still had a positive outlook and never gave up!

Love your daughter,

Heidi Checketts "Schotzie"