

RAINBOW CANYONS AMATEUR RADIO CLUB NEWSLETTER

CEDAR CITY, UTAH



Club Websites: www.rcarc.info OR www.rainbowcanyons.com Number 2 – Vol. 2 – February 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 Valentine's Day



President's Message

Dear Fellow Amateur Radio Operators,
Hope everyone had a great start to the year! The January Brunch at Linda's (KG7PBX) house was a great way to start the year off, thank you Linda for hosting us. I enjoyed our first meeting and hope everyone enjoyed learning about FT8 and how it can be used to make contacts even during the current solar minimum. Thank you Ed (KK7ZL) for organizing our Amateur Extra study group/class, it has been good. Winter Field Day is coming up fast! It is January 25 and 26. For those who are interested we will meet out at Three Peaks Saturday morning at 8:00 to set up. We will have the EComm trailer, but come ready for cold weather! Thank you to the planning group on making this a fun event.

It looks like we may have some interest in 'Elmer' and builder nights! At the next meeting we can start setting up some dates. Especially with the new Power Pole boxes and radio kits that people have been collecting.

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

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



Continued on page 2

Save The Date

February 11, 2020

RCARC Club Meeting

Program: PODS (Point of Dispensing). Presented by Paulette Valentine, Director of Emergency Preparedness and Response Division of the Southwest Utah Public Health Department. (SWUPH).

March 10, 2020

RCARC Club Meeting

Program TBD

April 14, 2020

RCARC Club Meeting

Program: 2-meter single side band. Presented by: Kelly Anderson (KV7V)

May, 12, 2020

RCARC Club Meeting

Program TBD

Presidents Message Continued from page 1.

I encourage you 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! Even though we are currently experiencing a solar minimum, we still have opportunities to make contacts worldwide. Just be patient and keep trying with CW, Digital, satellite, or other interesting modes! Thank you everyone for your help and participation at the 2020 Winter Field Day! It was a great event and we made over 150 contacts!

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



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



Happy Valentine's Day Everyone



Breakfast & Friendship Net Awards

Breakfast Net	Friendship Net
First Place	First Place
KG7PBX - Linda	KI7LUM - Bruce
KI7WEX - Bonnie	KI7TPD - Fred
KI7SDA - Jerel	N7TCE - Merlin
Second Place	KI7WEX - Bonnie
KI7LUI - Tom	W6DLW - Dennis
KI7TPD - Fred	Second Place
Third Place	KI7WEZ - Darlene
KE6ZIM - Johnny	K7HDX - Ron
	N7NKH - Lee
	Third Place
	KA7J - Lance

RCARC February Meeting Book Give Away

The book shown below will be awarded to one of our RCARC members at our club meeting on February 11, 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.

The 3 Stooges listening to Morse code

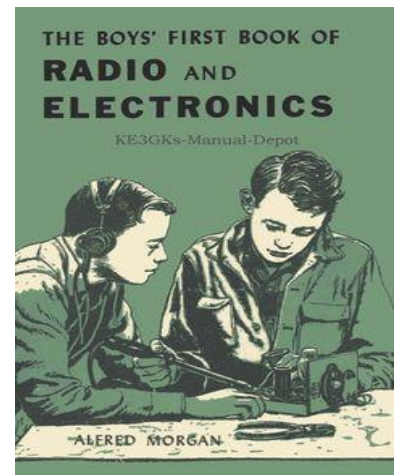
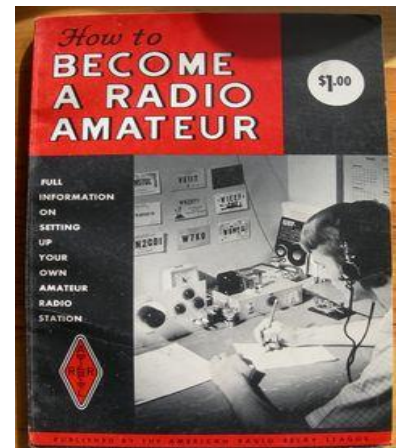


See the video at the URL listed below.

<https://www.youtube.com/watch?v=NJGrIUXCZzc>

It is a short 21 second video but funny.

Two books from a time gone by.



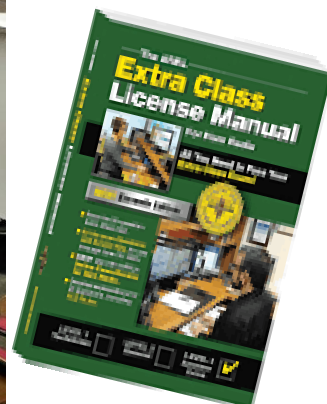
RCARC Extra Class study Group

Below are picture off attendees at the first RCARC Extra Class License Study Group. Shown are Fred (KI7TPD), Ed (KK7ZL), Tom (KI7LUI) and Dave (W6FJN).



Question? If a station in a message forwarding system inadvertently forwards a message that is in violation of FCC rules, the control operator of the originating station is primarily accountable for the rules violation.

True ____ False ____



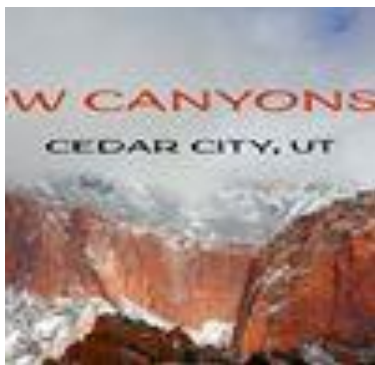
RCARC has a new Facebook Page

Thanks to Ed Padgett (KK7ZL) the RCARC now has a new Facebook page.

To access the Facebook page or to join the group type in RCARC in the search window on your own Facebook page and hit enter.

Continued next column

Look for the picture listed below



Continued next column

Select the picture to access the Facebook page and if interested select the join option and answer the two questions. Within a short time, you'll have access to the page to post and be a part of the group.

Have fun!

RCARC January Brunch Pictures



Two Solar Cycle 25 Sunspots Appear

QST de W1AW
Special Bulletin 12 ARLX012
From ARRL Headquarters
Newington CT December 30, 2019
To all radio amateurs

SB SPCL ARL ARLX012
ARLX012 **Two Solar Cycle 25 Sunspots Appear**

New Solar Cycle 25 is on the way, but just when the transition from Solar Cycle 24 to Solar Cycle 25 will take place is not entirely clear.

On December 24, two new sunspots - one in each hemisphere – emerged on the face of the Sun that exhibit the reversed magnetic polarity marking them as belonging to Solar Cycle 25. According to Hale's Law, sunspot polarities flip-flop from one solar cycle to the next, the National Center for Atmospheric Research explains.

"The Sun is currently in solar minimum - the nadir of the 11-year sunspot cycle," Tony Phillips said in his article, "Reversed Polarity Sunspots Appear on the Sun" on the Spaceweather.com website. "It's a deep minimum, century-class according to sunspot counts." The remarkable sunspot scarcity has prompted discussion of a possible "extended minimum" akin to the Maunder Minimum in the 17th century, when no sunspots appeared for decades, Phillips said. "Such an event could have implications for terrestrial climate."

This article can be found online at, <https://spaceweatherarchive.com/2019/12/25/reversed-polarity-sunspots-appear-on-the-sun/>

"Today's new-cycle sunspots (along with isolated new-cycle spots earlier this year) suggest that the solar cycle is, in fact, unfolding normally," Phillips wrote, adding that a new Maunder Minimum does not appear to be in the offing.

Earlier this month, the NOAA/NASA-co-chaired international Solar Cycle Prediction Panel released its latest forecast for Solar Cycle 25.

Continued next column.

The panel's consensus calls for a peak in July 2025 (+/- 8 months), with a smoothed sunspot number of 115 and the solar minimum between Solar Cycles 24 and 25 occurring in April 2020 (+/- 6 months). If this solar minimum prediction is correct, it would make Solar Cycle 24 the seventh longest on record at 11.4 years.

The forecast can be found online at, <https://www.swpc.noaa.gov/news/solar-cycle-25-forecast-update> .

Climate scientist David Archibald speculates that the Solar Cycle 24/25 minimum could occur as late as March 2021, and that Solar Cycle 25 maximum might not happen until 2027.

"We are well into the Solar Cycle 24/25 minimum but [Cycle] 24 may not have ended yet," Archibald said in a December 22 update on the "Watts Up With That?" website. "A solar cycle isn't over until the heliospheric current sheet has flattened. And that could be as late as March 2021. Solar cycle amplitude does matter with respect to climate and the amplitude of Solar Cycle 25, from projecting trends from the last three cycles, looks like being about 80 in 2027."

The Solar Cycle Prediction Panel agreed that Solar Cycle 25 will be of average intensity and similar to Solar Cycle 24.

In an article posted on NOAA's Space Weather Prediction Center site, Scott McIntosh, the Director of the High Altitude Observatory at National Center for Atmospheric Research (NCAR - <https://ncar.ucar.edu/>), stresses that Solar Cycle 25 will happen, "but a sunspot cycle could be small."

Predictability comes with some physical understanding of the underlying process, McIntosh asserts. "The sunspot cycle is erratic," he said in his presentation, "provocative of a chaotic, turbulent solar interior where sunspot progressions with time and latitude are the only tracers..."

Did you know that RCARC has two Websites? Listed below are the two URL's for accessing the websites.

www.rcarc.info

www.rainbowcanyons.com

Please visit them both.

RCARC January Meeting Pictures



Members waiting for the meeting to start



Fred (KI7TPD) welcoming members to the meeting



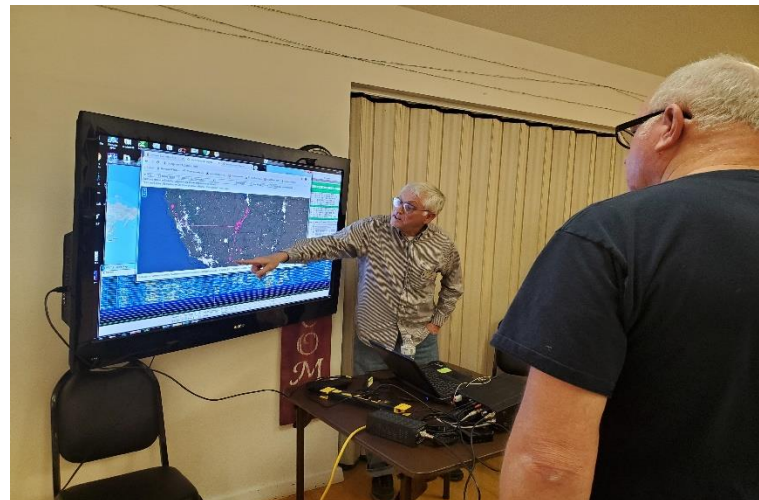
Fred (KI7TPD) introducing FT8 & PSK



Fred (KI7TPD) continues his FT8 & PSK overview



George Gallis (AL7BX) Showing FT8 & PSK Software



More RCARC January Meeting Pictures



Fred (KI7TPD) showing his Birthday Cake



Terry West serving the Birthday Cake

RCARC Winter Field Day Committee Meeting just prior to the January General Meeting



Fred (KI7TPD) discussing the details and timeline for Winter Field Day



Okay last night you washed dishes and today you are folding laundry. What kind of Radio did you buy and how much was it?

Ten Fun Facts

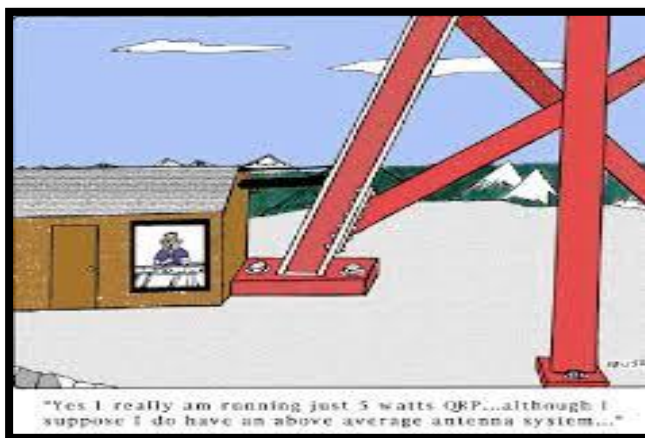
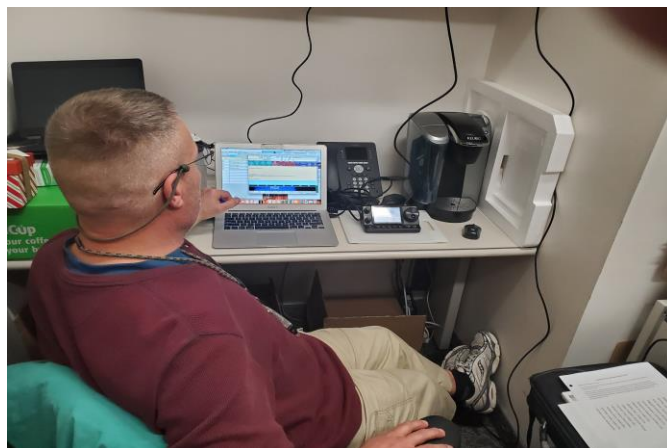
1. You can't see your ears without a mirror.
2. You can't count your hair.
3. You can't breathe through your nose, with your tongue out.
4. You just tried number 3.
6. When you did number 3 you realized that it is possible, only you looked like a dog.
7. You are smiling right now, because you were fooled.
8. You skipped number 5.
9. You just checked to see if there was a number 5.
10. Share this with your friends so they can have some fun too.

Iron County Office of Emergency Services (OES) 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 January 8, 2020 E-Comm. members staffed the Radio Communication Room at Cedar City Hospital to assist in the exercise.

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



Australian Bushfires Causing Major Telecommunication Outages, Hams on Duty

Wireless Institute of Australia ([WIA](#)) President Greg Kelly, VK2GPK, says the bushfires in Australia have caused significant disruption of telecommunication services in the states of Victoria and New South Wales. Radio amateurs are supporting relief operations and communication.

WICEN (Wireless Institute Civil Emergency Network) in New South Wales reports it has been active assisting in a number of multi-agency activities during the bushfire emergency, in its role as a support squad of the NSW Volunteer Rescue Association (VRA) operations center in Bega. WICEN teams in NSW and in the Australian Capital Territory (ACT) have sent a team to Bega to help re-establish radio communication services, disrupted by fire activity.

WICEN and other VRA squads continue to support the Rural Fire Service (RFS) at various Fire Control Centers and the Bushfire Information Line. Other WICEN members remain active with the RFS and the State Emergency Service.

Kelley has asked radio amateurs in International Amateur Radio Union (IARU) Region 3 to monitor the emergency communications frequencies, per the IARU Region 3 band plan, whenever possible, as well as repeaters. "Amateurs seeking to establish emergency communication should use these EMCOMM frequencies in the first instance, or repeaters if available," he said in a statement posted on the IARU Region 3 website.

"Radio amateurs who are volunteers for [WICEN and other emergency communication organizations] should keep themselves updated," Kelley advised. "Emergency communication is one of the main reasons radio amateurs have access to RF spectrum. Please assist if and when you can."

Continued next column.

The IARU Region 3 emergency "center of activity" frequencies are 3.600, 7.110, 14.300, 18.160, and 21.360 MHz.

These are not net frequencies, but they are recommended as starting points for emergency traffic, and activity may extend 5 kHz above or below the designated center frequency.

South of NSW in the state of Victoria, WICEN VIC reports that the amateur repeater network is largely off the air, possibly due to a lack of power. "Some sites may have been directly affected by fire," WICEN VIC said on January 4. "It could be some weeks until the sites can be reached for inspection."

China Telecoms Regulator Proposing to Delete Some Current Amateur Allocations

China's telecommunications regulator has proposed amending the *Measures for the Administration of Amateur Radio Stations*, and some amateur bands are in danger of being eliminated. Lide Zhang, BI8CKU, told ARRL that the proposal would prohibit amateur operation on the 2200-meter band as well as on 146 - 148 MHz, 1260 - 1300 MHz, 3400 - 3500 MHz, 5650 - 5725 MHz, and all bands above 10 GHz.

Radio communications engineer and Chinese Amateur Satellite Group (CAMSAT) CEO Alan Kung, BA1DU, told ARRL that government efforts to eliminate some amateur bands are nothing new, but proposals that have been aired for a while now are on the regulatory agency's schedule. Kung said he does not anticipate that all of the bands proposed will be taken away, but he conceded that the climate will "undoubtedly" become increasingly more dangerous for China's amateur radio community.

Continued on page 11.

Continued from Page 10.

China Telecoms Regulator Proposing to Delete Some Current Amateur Allocations

"The attempt to crowd out the amateur radio bands has a long history throughout the world," he said, "but it may never have become so urgent for the amateur radio community as it is today. We all understand that radio spectrum resources have become a bottleneck for further development." He said today's radio communication industry "is working hard to share spectrum resources."

Kung characterized spectrum as "the soil on which amateur radio depends."

Antenna Farm Pictures



Continued on page 11

ARISS Next-Generation Radio System Ready for Launch to Space Station

Amateur Radio on the International Space Station (ARISS) reports that its first Interoperable Radio System (IORS) flight unit - serial number 1001 -- has been delivered to NASA's Johnson Space Center for launch in early March. The IORS represents the first major upgrade in ARISS equipment on the International Space Station since Amateur Radio gained a permanent presence onboard the ISS in 2000.



In December, ARISS received approval from NASA Safety to launch the IORS on SpaceX CRS-20 and stow the radio system on the ISS for future installation.

"The IORS is a foundational element of the ARISS next-generation radio system and is an incredible engineering achievement by the ARISS hardware team," ARISS International President Frank Bauer, KA3HDO, said. "This first element delivery will support easier radio mode transitions and enable new, exciting capabilities for hams, students, and the general public."

The new system includes a higher-power radio, an enhanced voice repeater, and updated digital packet radio (APRS) and slow-scan television (SSTV) capabilities for both the US and Russian space station segments.

Continued on page 12

Continued from page 11.

ARISS Next-Generation Radio System Ready for Launch to Space Station

The IORS consists of a custom-modified JVC Kenwood TM-D710GA transceiver, an AMSAT-developed multi-voltage power supply, and interconnecting cables.

The IORS set to launch in March will be installed in the ISS *Columbus* module; a second flight unit is expected to be launched later this year for installation in the Russian *Service* module. The ARISS hardware team will assemble four flight units - - and 10 IORS units in all -- to support onboard flight operations, training, operations planning, and hardware testing.



ARISS International President Frank Bauer, KA3HDO.

Future upgrades and enhancements to the next-generation system are in various stages of design and development," Bauer said. "These include a repaired Ham Video system -- currently planned for launch in mid-to-late 2020, L-band (uplink) repeater, ground command operations capability, LimeSDR signal reception, a microwave 'Ham Communicator,' and Lunar Gateway prototype experiment."

Bauer said a lot of "heavy lifting" remains to prepare the IORS for operation on the space station. "ARISS has 92 engineering requirements and our operations Phase III safety review to complete," he explained.

Continued next column.

"The space agencies take a position of 'trust, but verify.' Thus, these engineering and safety 'verifications' all need to be closed out before the IORS can be unstowed and turned on. This will be the ARISS hardware team's focus over the next few months."

This will be the ARISS hardware team's focus over the next few months."

Bauer reminded that ARISS is almost entirely run by volunteers and encouraged [donations](#) for next-generation hardware developments, operations, education, and administrative functions.

Antenna Farm Pictures Continued



Amateur Radio & DX Trivia Questions.

1. What do the Amateur Radio Stations NA1SS and RS0ISS have in common?
2. This famous ham invented a legendary music device that was featured on the album "Switched on Bach" Who is it?
3. At the end of a conversation ham operators will say "73" to the person they are talking with. What does "73" mean?
4. When radio amateurs are trying to solicit a new contact what two-letter phrase do they use?
5. Which of the following musicians is NOT or was NOT an amateur radio (HAM) Operator?
 - Jim Croce
 - Joe Walsh
 - Ronnie Milsap
 - Alice Cooper
6. Besides talking on his ham radio, this famous newscaster spent most of his life talking into a microphone for a living. Who is it?
7. In the United States what speed of Morse code must a prospective ham be able to accurately read in order to get their amateur radio license?
8. In amateur radio parlance, what does the two letter "DX" stand for?
9. What is Yuri Gagarin, amateur call sign: UA1LO, famous for?
10. Gerson Strassberg, WA2JXX invented this item which no self-respecting geek would have been without. Now, you could probably only find one on e-bay. What was it?

Answers to all these Trivia questions can be found on page 15.

RCARC Club Calendar

For those of you who may not know the RCARC offers a calendar of Club information and other Ham related functions that you may not be aware of.

To access the Calendar, go to www.rcarc.info. from the menu select Club Info and then Calendar. Once the Calendar has loaded it will show you the main topic and time. If you wish additional information place your cursor on the time and left click. This will open a new sub window that will give you more detailed information on the topic if available.

If you have something you would like placed in the Calendar send an e-mail to rcarcnewsletter@gmail.com

The Rainbow Canyons Amateur Radio Club (RCARC)
is Sponsoring an Amateur Radio

Technician Class

Beginner Level for Ham Radio

Dates: Thursdays - March 5, 12, 19, 26 and April 2, 2020
with the test, Thursday April 9, 2020

Time: 6:00 pm - 9:00 pm

Where: Cedar City Senior Center
489 E 200 South, Cedar City, UT 84720

Class Cost: Free

Study Manual: Free Download
Please bring to class

<http://www.ad7fo.com/media/TechLic2018.pdf>



Contact to register:

Linda Shokrian KG7PBX
435-867-5914 or
email: Lgshokrian@gmail.com

There is a \$15 ARRL Test Fee

Answers to Trivia Questions on page 13

1. **Answer: They are both located on the International Space Station.**
2. **The Answer is Bob Moog.** K2AMH. Bob Moog, invented the famous Moog Synthesizer along with some other innovative electronic music equipment. He died in 2005, John McVie is the bass player for Fleetwood Mac. Tom Scholtz is the founder of the band Boston and also an MIT graduate who has made his own contributions to music technology.
3. **Answer: Best regards.** Although hams use many different modes of communications such as voice, digital and even television the original mode was Morse code. In order to save time many abbreviations were created by Morse users and 73 is used to sign off with a friendly good-by. Of course, if you are talking with that special someone a different number is used, 88, which means "love and kisses"
4. **Answer CQ.** CQ sounds like "Seek You" – get it? WX means "Weather", DE means "from".
5. **Answer: Alice Cooper.** Ronnie Milsap holds the call sign WB4KCG, Joe Walsh holds the call sign WB6ACU, and Jim Croce was WN3OQW.
6. **Answer: Walter Cronkite.** KB2GSD, Walter Cronkite obtained his amateur radio license after he retired from CBS news, primarily to have another form of communications while on his sailboat. Chet Huntly and David Brinkley were popular co-anchors of the NBC television news broadcast.

Continued on next column

Dan Rather replaced Walter Cronkite on the 'CBS evening news' after Cronkite retired.

7. **Answer Zero:** The ability to copy Morse code is not required. In 2007 the Federal Communications Commission dropped the Morse code requirement for hams. In order to receive an amateur radio license, you only have to pass a written examination.

8. **Answer: Distance.** DX is often used to indicate a station in a country outside one's own, regardless of "distance".

9. **Answer: He was the first cosmonaut and the first human in space.** Many Soviet/Russian Cosmonauts and American Astronauts have been amateur radio operators. Yuri Gagarin (UA1LO), a Russian Cosmonaut and Hero of the Soviet Union, was the first human in space, his flight taking place on April 21, 1961.

10. **Answer: Plastic Pocket Protector.** It has been years since most of us have seen a plastic pocket protector, but it was designed to slip into your shirt pocket and hold your ink pens. Geek fashion dictated that that you not only have a plastic pocket protector, but also have multiple pens tucked into it.

Source "Fun Trivia"

RCARC Book Give Away

The winner of the first Book give-away is Denice Sheffield (KF7YIY). She was awarded the below pictured book of Radio today FT8 & PSK.



Congratulations Denice

The below article as stated in the heading premiered last month. However, I felt it was still very timely information. Newsletter Editor.

ARRL *On the Air* Podcast Premieres January 16

ARRL's new *On the Air* podcast for those just getting started on their amateur radio journey will debut this Thursday, January 16, with a new episode posted each month. The podcast is a companion to



the new bimonthly [On the Air](#) magazine, which is already on its way to member subscribers. *On the Air* magazine's Editorial Director Becky Schoenfeld, W1BXY, will be the host of the new podcast. Both the podcast and the magazine are aimed at offering new and beginner-to-intermediate-level radio amateurs a fresh approach to exploring radio communication.

Listeners can find the *On the Air* podcast at [Blubrry](#), [Apple iTunes](#) (or by using your iPhone or iPad podcast app -- search for *On the Air*), and [Stitcher](#) (or through the free Stitcher app for iOS, Kindle, or Android devices). [Episodes](#) will be archived on the ARRL website.

Each *On the Air* podcast will take a deeper dive into the articles and issues raised in the magazine, including advice and insight on topics covering the range of amateur radio interests and

activities: radio technology, operating, equipment, project building, and emergency communication.

Supplementing *On the Air* will be a new [Facebook page](#) for those who share a love of radio communication and are looking to learn and explore more about their interests.

The biweekly *Eclectic Tech* podcast for experienced radio amateurs will launch on February 13. Hosted by QST Editor Steve Ford, WB8IMY, *Eclectic Tech* will highlight topics involving amateur and non-amateur technology, offer brief interviews with individuals involved in projects of interest to amateurs, and include practical information of immediate benefit to today's hams. *Eclectic Tech* will be available via [iTunes](#) and [Stitcher](#).

The ARRL Mags apps including QST and *On the Air* are now live on Apple iTunes and Google Play. The [digital edition](#) of *On the Air* magazine is also live and linked from the *On the Air* page on the ARRL website.

Where did the Term "Elmer" Come From?

At the national association for Amateur Radio we have always felt that the local radio club is where the learning takes place. The local radio club is where the newcomer begins the journey of discovery and the seasoned veteran keeps informed of the latest technology. Regardless of where we are on our ham radio journey our local radio club is where we find our friends.

The term "Elmer" means someone who provides personal guidance and assistance to would-be hams. The term first appeared in QST in a March 1971 "How's DX" column by Rod Newkirk, W9BRD (now also VA3ZBB). Newkirk called them "the unsung fathers of Amateur Radio."

As you can see, the term is not very old. Prior to the first use of Elmer as the one who guided and encouraged us, what were these folks called? We have received a lot of suggestions; teacher, mentor, tutor, guide, helper, sage? All are appropriate but my guess would be that first and foremost they were called friend.

ARRL 2020 Rocky Mountain Division Convention Announced

11/11/2019 | Filed under: [Uncategorized](#)



The HamCon Colorado 2020 convention team has announced their schedule and venue at the campus of CU Denver South, 10035 S Peoria St, Parker, CO 80134. The convention will be held on August 7-9, 2020. This venue will provide plenty of space for vendors, forums, and speakers and it's going to be a good one.

There will be many exhibits, clubs, lots of technical talks and national speakers! This will be a great event and one you will surely not want to miss.

The convention team will be holding DX University on Friday August 7th. This is for all of the folks interested in HF contesting and will roll up lots of best practices for you.

Mark your calendars! Registration will be opening in early January, 2020 and you'll want to pre-register for the best possible fee.

HamCon 2020's website is at <http://www.hamconcolorado.com>.

2020 Dayton Hamvention Theme will be "Amateur Radio, The Future"

12/09/2019

The theme for the 2020 **Dayton Hamvention®** will be "Amateur Radio, The Future." Hamvention General Chair Jack Gerbs, WB8SCT, invited Hamvention attendees to celebrate amateur radio's past, present, and future.

"As amateur radio operators, we enjoy many modes of operating," Gerbs said. "We also enjoy challenges such as satellite communications, moonbounce, meteor scatter, and more. What truly excites me about our hobby is the diversity of these modes and the fact that, as we move to the future, we still enjoy the technologies of the past"

Gerbs noted that Hamvention has long been a place to find vintage parts and gear and to see the latest technology.

"The theme acknowledges the role that amateur radio has always played and will continue to play in future communication developments," Hamvention said, acknowledging the contributions of the many hams who actively work on new ideas, equipment designs, and software to improve electronic communication.

Hamvention 2020 takes place May 15 – 17 at the Greene County Fairgrounds and Expo Center in Xenia, Ohio.

For additional Information visit:

Continued next column

www.hamvention.org

What's the Appeal of Ham Radio?

You can communicate from the top of a mountain, your home or behind the wheel of your car, all without relying on the Internet or a cell phone network. You can take radio wherever you go! In times of disaster, when regular communications channels fail, hams can swing into action assisting emergency communications efforts and working with public service agencies. For instance, the Amateur Radio Service kept New York City agencies in touch with each other after their command center was destroyed during the 9/11 tragedy. Ham radio also came to the rescue during Hurricane Katrina, where all other communications failed, and the [devastating flooding in Colorado in 2013](#).

You can communicate with other hams using your voice and a microphone, interface a radio with your computer or tablet to send data, text or images, or Morse code, which remains incredibly popular. You can even talk to astronauts aboard the International Space Station, talk to other hams through one of several satellites in space, or bounce signals off the moon and back to Earth!

Some hams like to build and experiment with electronics. Computer hobbyists enjoy using Amateur Radio's digital communications opportunities. Others compete in "DX contests," where the object is to see how many hams in distant locations they can contact. Mostly we use ham radio to form friendships over the air or through participation in one of more than 2000 Amateur Radio clubs throughout the country. There are over 600,000 radio amateurs in the United States and over 2,000,000 worldwide.

What's the appeal of Ham Radio to you? How and why did you become a Ham? Share your story with our club. Send your response to the RCARC Newsletter Editor at www.rcarcnewsletter@gmail.com

A few Vintage Pictures from the Past



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A Few Vintage Pictures from the Past



"Mike echo oscar whisky! I repeat!
Mike echo oscar whisky, how do you
copy? Over"

This picture
was submitted
by Jim McIntyre
W2ADF



Are you looking to get rid of some of your radio gear? Let me help you sell it through the Newsletter. Send to rcarcnewsletter@gmail.com what it is your selling, cost, your name, phone number and e-mail address. We'll list it for two months.

RCARC Activates for Winter Field Day (WFD)

Winter Field Day (WFD) is a dedicated group of Amateur Radio Operators who believe that emergency communications in a winter environment is just as important as the preparations and practice that is done each summer but with some additional unique operational concerns.

Maintaining your operational skills should not be limited to fair weather scenarios. Winter Field Day provides an additional time to enhance those already important skills of those that who generously volunteer their time and equipment to government organizations or in the private sector.

The RCARC did just on January 25-26 club members set up their communications equipment at the Iron County Three Peaks Recreational Area (in the Pavillion). Members were set up by 12:00 pm. on Saturday and started making contacts with other radio operator around the country. The WFD operation goes for 24 hours and ended at 1200 pm. Sunday.

See RCARC Winter Field Day Pictures below.



Beam & Tower Preparation.

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Winter Field Day (WFD) Pictures

Continued from page 20



Connecting the Beam to the tower.



The Tower and Beam are up and operational.



Iron County (OEM) Communications Trailer.



Brad (WA7HEE) and Bruno (KG7VVN) in Trailer.



Bruno (KG7VVN) PSK 31 & 32 Setup.



Ed (KK7ZL) & Ron (K7HDX) working 40 Meters.

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Winter Field Day (WFD) Pictures

Continued from page 21



Terry West watching Ed & Ron at work.



Fred (KI7TPD) working 80 Meters.



Dennis (W6DLW) & Johnny (KE6ZIM)



Fred (KI7TPD & Ron (K7HDX) working at night.



More Fred (KI7TPD & Ron (K7HDX) at night.



Terry West & Brody (K7VXV) making breakfast.

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Winter Field Day (WFD) Pictures

Continued from page 22



Ed (KK7ZL) & Brodie (K7VXV) having a great time.



Bruno (KG7VVN) warming tent.



The Tower & Beam coming down on Sunday



Fred (KI7TPD) by his Mansion on wheels.



The view from the Pavillion at Three Peaks Recreational Area