

RAINBOW CANYONS AMATEUR RADIO CLUB NEWSLETTER

CEDAR CITY, UTAH



Club Website: www.rcarc.info Number 5 – Vol. 5– May 2023

Club Meeting Information

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

2023 Club Officer's

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W6DLW

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CQ, CQ, - Happy Mothers's Day



Presidents Message

Dear Fellow Amateur Radio Operators,

Hope everyone is having a wonderful spring and that you are looking forward to our June 10th Swap meet and Field Day at the end of June (24-25)! I is wonderful to see all of the new HAMs passing their test and getting their call signs so quickly! Congratulations to the new HAMs and welcome to the nets and club. Had a lot of fun hearing about satellite communications, Thank you George (AL7BX). The current solar cycle (cycle 25) is really heating up and we have lots of sun spots and solar storms. We even had a CME that caused the northern lights to be visible down to Mexico (of course we had rain and so missed it...) We have a good batch of new members so we may have some new HAMs needing our help of the upcoming months so please make sure to introduce yourself and offer a friendly hand!

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RCARC Club Nets:

7:00 a.m. Breakfast Net - Monday – Saturday – 146.760.
12:30 p.m. Daily – Utah Beehive Net On 7.272.
8:30 p.m. Tuesday's - ORCA Digital Net. Using FLDIGI, FLMSG AND FLAMP – 3.581 +, 1500/MFSK32.
8:00 p.m. Wednesday – Panguitch Net – 147.160.
7: pm. Thursday– Morse Code Net- This is a Zoom Meeting.
8:30 p.m. Thursday's - WDN Digital Net. Using FLDIGI, FLMSG AND FLAMP – 3.581 +, 1500/MFSK32.
8: p.m. Saturdays – SSTV – 449.925.
9:00 p.m. Daily – Friendship Net – 146.760.
11: a.m. Saturdays (Mtn. Time) QCWA – 160 Net, Utah Chapter,
12: p.m. Freq. 7.272.
7:30 pm. Sunday's – New Harmony Valley Net – Bumblebee Repeater. – 146.680 with a minus offset – PL 100.

Local Repeaters:

Iron Mountain

146.760 MHz – Tone 123.0 Hz
146.980 MHz – Tone 100.0 Hz
448.800 MHz – Tone 100.0 Hz
449.500 MHz – Tone 100.0 Hz
448.400 MHz -- Tone 100.0/FM & DMR

Intermountain Intertie:

146.940 MHz – Tone 100.0 Frisco.
146.800 MHz – Tone 100.0 Blow Hard
147.200 MHz + Tone 100.0 Tod's/Hatch
146.820 MHz – Tone 100.0 Utah Hill

Bumblebee/New Harmony:

146.680 MHz – Tone 100.0 Hz

Rowberry:

449.925 MHz – Tone 100.0 VHF Remote

Dutton:

147.160 MHz + Tone 100.0 Hz.

Save The Date

May 9, 2023

RCARC Club Meeting.

7:00 pm. Cedar City Senior Center,
489 E. 200 South. **S & K will do a
presentation on their "New Take
Down Antenna's".**

June 13, 2023

RCARC Club Meeting.

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

July 11, 2023

RCARC Club Meeting.

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

August 8, 2023

RCARC Club Meeting.

7:00 pm. Cedar City Senior Center,
489 E. 200 South. **Annual RCARC
Barbecue. More info to follow.**

President's Message

Continued from page 1.

Next month we will have a visitor from S&K antennas and will be learning about some new antenna options.

I encourage you all to play, share, and have fun on the radio! We have some newly minted HAMs so let's show them what they can do! If you are interested in any aspect of HAM radio please explore the topic, experiment, and share what you have done with the group! That is what makes this such a fun hobby! Don't be shy, we are all friends here!

In service,

Fred Govedich (K17TPD)

RCARC Monthly
Breakfast
Saturday April 6,
2023

RCARC Monthly Breakfast

Please come join us on the first Saturday of each month at 9:00 am. for our club breakfast. We meet at the Golden Corral Buffet & Grill (in the back room), 1379 S. Main Street, Cedar City. Their menu offers an unmatched variety of quality foods from breakfast to dinner. See you there.



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



Happy Mother's Day

Breakfast Net		Friendship Net		
First Place	Second Place	First Place	W6DLW - Dennis	
K2MFK - Kevin	K7ZI - Dick	K7HDX - Ron	KE8OYI - Caleb	
KI7SCX - John	Third Place	K7NKH - Lee	Second Place	
KI7TPd - Fred	K7ZZQ - Johnny	K7WEP - Paul	N7WWB - Darlene	
KI7WEX - Bonnie		K7ZI - Dick	N7TCE - Merlin	
KC6WFI - Tony		KI7LUM - Bruce	Third Place	
KZC6ZIM - Johnny		KI7TPD - Fred	KA7J - Lance	
N7SIY - Silvia		KI7WEX - Bonnie	KI7LUM - Bruce	
KG7PBX - Linda		N7SIY - Silvia		
		W9YNK - Benjamin		

**Rainbow Canyons Amateur Radio Club
Treasurer Report April 11, 2023**

Bank balance (reconciled) March 1, 2023	\$1,408.20
Deposit - memberships KJ7JAO, W1EPR, KR7KR, KA7SEZ Tyler Merrill Family, KG7YIB & KG7YIC, KK7EAU, KD8ZTP, KJ7ZNU, KJ7OGZ, KJ7PRU	+ 185.00
Expenses Rocky Mountain Power	- 18.82
Balance as of March 31, 2023 (reconciled)	\$1,574.38
April Deposit - memberships N6NQX, KK7BIJ	+ 35.00
April Expenses Liability Insurance Rocky mountain Power (due 4/17/2023)	- 200.00 - 18.82
Funds available as of April 11, 2023	\$1,390.56

Submitted by
Linda Shokrian KG7PBX
2023 RCARC Treasurer
435-867-5914

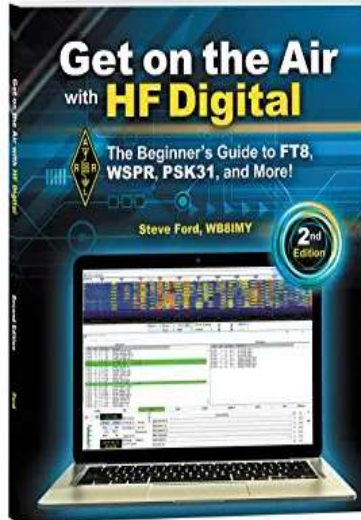


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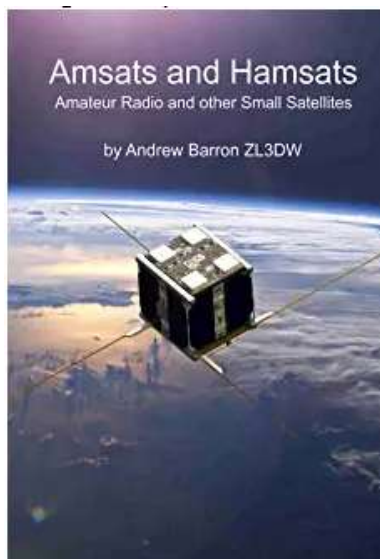
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RCARC Book Giveaway.
Books are donated by
Linda Shokrian
(KG7PBX)

Shown below is the book that will be given away at the May 9, 2023 meeting.



The Book below was given away to
Dennis (W6DLW) at the April meeting



Congratulations
Dennis
See Picture on page 12

Contact Us.

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Newsletter E-mail:

rcarcnewsletter@gmail.com

Website

www.rcarc.info

Face Book Page:

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

To Join RCARC or Pay Dues:

Go to www.rcarc.info select "Club Info" and then "Join " RCARC. Follow the instructions on the template.

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

Thank You

S&K Antenna Systems

Kent Flowers from S&K Antenna's will on hand at this month meeting to provide an update and demonstrate a few of their company's antennas. Wolf River Silver Bullet Mini HF, Wolf River Silver Bullet HF, 102-inch Collapsible Whip, Porta Pole - Collapsible J-Pole 2M 70 cm. and others.



Buzz's May Safety Tip(s)



10 Tips for Home Safety

1. Purchase a Home Security System

Our first tip is to purchase a [home security system](#), which can do more than just detect intruders; it also can detect fire, smoke, carbon monoxide, and water leaks. If there's a problem, a good home security system also will place an automated call to a central monitoring service, first responders, or the occupant of the home or someone the occupant designates.

Your alarm system can be [installed professionally](#), or a homeowner can [install one themselves](#). Current technology allows companies to include some advanced features in home security systems, including the ability to control other equipment such as lights, locks, thermostats, and smoke detectors. For example, if a smoke detector goes off, it can shut down the HVAC system, it can light a pathway to your front door, and even unlock the door.

Even if you don't want a complete home security system, you might consider purchasing a few devices such as cameras to cover key entry and exit points, or perhaps water detectors where leaks are common, such as supply lines for [refrigerators](#) or toilets.

Continued next column

2. Check Homeowners or Renters Insurance

Another important tip is to purchase a good homeowners or renters insurance policy can't prevent losses, but they can limit the financial consequences. The key is to work with your insurance company or agent to make sure your coverage is adequate.

According to Joe Meisinger, Chief Underwriter for [Travelers Insurance](#), most homeowners are required by their mortgage company to have basic coverage against most hazards including fire, windstorms, non-weather water damage, and hail. He says many people don't realize that flooding isn't covered by their homeowners or renters policies, but instead is obtained from the [Federal Emergency Management Agency](#).

Meisinger also says that many people are confused about the difference between flooding and non-weather water damage. Most policies cover non-weather water damage, which happens when a water line freezes and bursts, or when a supply line to a toilet or [refrigerator](#) breaks. Other likely spots for this sort of damage are second-floor [washers](#), where a broken hose can flood everything beneath it. By contrast, flood damage occurs from outside water sources like an overflowing river or lake.

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10 Tips for Home Safety

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Review your coverage to make sure it matches your current circumstances and covers you against perils in your area that can cause damage. Travelers [publishes some tips](#) to help its customers prevent losses.

3. Store Hazardous Substances Safely

You probably have some hazardous substances around your home. Those could be obvious things like paint thinner to gasoline for your lawn mower, but they go far beyond that. For example, dishwasher detergent pods or laundry pods can be fatal if swallowed. In addition, antifreeze tastes sweet to your pets and can make them sick or kill them.

According to Dr. Steven Schultz, pediatric intensive care at the [Palm Beach Children's Hospital](#) at the St. Mary's Medical Center in Florida, household products should only be stored in their original containers. He said one common cause of poisonings is when people store substances such as liquid cleaners or detergents in soda bottles, leading children to think they're safe to drink. He also says that such substances should be locked away where they're out of reach of children or others who might consume them accidentally. Additionally, flammable substances must be stored away from sources of ignition.

In addition to storing hazardous materials safely, you should be aware of the signs in children or pets that they have been poisoned, including gastric distress and vomiting. If that happens, a trip to the emergency room or the vet is warranted.

Continued next column

Make sure you take the container that has the substance along so that medical staff can take the appropriate action. Keep the poison control number (800-222-1222) readily available.

Hazardous substances in the home can be dangerous to pets as well as people. To keep your pet safe and help pay for unexpected vet bills, consider getting [pet insurance](#).

4. Dispose of Expired or Unused Medications

An accident that involves ingesting prescription medications is called unintentional poisoning. "There are about 300 poisonings and two deaths per day in the U.S. in the pediatric population per day" from unintentional poisoning, Schultz says. "A lot of these are preventable."

He notes that children are especially susceptible to poisoning by prescription medications because of their lower body weight and because they tend to put things into their mouths to see how they taste. But the danger isn't restricted to prescription drugs and can include over-the-counter medications such as aspirin and Tylenol.

Some medications can be disposed of by mixing them with wet coffee grounds and throwing them in the trash. However, Schultz says opiates should be disposed of through a drug disposal program.

Many pharmacies can dispose of expired and unused medications, and local police departments can often take opiates and other medications for disposal.

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RADIO NEWS

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

EDITORIAL AND GENERAL OFFICES, 33 PARK PLACE, NEW YORK

Vol. 4

MAY, 1923

No. 11

The Radio Experimenter

THERE are two classes of radio amateurs, generally speaking; the amateur who has his sending and receiving outfit, which he uses for routine work, such as transmitting messages, etc., and the amateur who is continually in search for better Radio. The Radio Experimenter may not be an amateur at all, and may not even as yet have reached the "dyed-in-the-wool" stage. He usually starts in with a crystal set, and after he has mastered its intricacies, he begins soaring to the higher radio levels. A surprising number of the new crop of radio experimenters seem to stick, right now, to their crystal outfits, and some remarkable results are reported. Many amateurs who have constructed high-grade crystal sets, and who have done away with the usual dead-end losses, having substituted basket weave or spider web coils for tuning coils, report remarkable results from such sets. Ranges of from 100 to 500 miles, as a regular performance, are not unusual. This is surprising because the average crystal set probably does not have a range greater than about 25 miles when receiving broadcast programs. The modern radio experimenter, however, seems to be able to do much better, for by doing away with the usual losses he is able to concentrate all the incoming energy in such a manner as to conserve it and bring in the sounds where in other sets they would be lost.

When we stop to consider that the crystal is one of the best rectifiers that we have today, and that there is no distortion whatsoever in the received sounds, there is no wonder that the crystal still holds a great fascination for the radio experimenter. Indeed, as time goes on, crystal reception seems to be becoming more popular than ever.

That the crystal is coming back may best be proven by the fact that one of our largest radio manufacturers is now equipping his Reflex Circuit sets with a crystal detector, because he has found that the addition of the latter makes for quality that cannot be had with the vacuum tube alone.

While we are talking about the Reflex Circuit, it might be well to point out that a tremendous amount of work remains to be done by radio experimenters along these lines. One thing is certain; a single vacuum tube and a crystal detector form an ideal team, as far as good reception is concerned. We urge all experimenters to work along these lines, particularly now that we have the dry-cell tube. The Reflex Circuit will rapidly come to the front, because by its means we shall have an ideal portable set. With a single tube and one crystal detector it is possible, even on a 2-foot loop, to bring in local stations on a loud speaker, a thing that was not possible a few months ago. The price of the parts for the Reflex is quite low, and unless something better comes along, the Reflex may yet prove to be to the Radio industry what the Ford car is to the auto trade.

While, of course, we have the Armstrong Regenerative Circuits, radio experimenters have found them difficult to operate as yet, and even today it takes an expert to operate such sets. This is not the case with the Reflex Circuits, which may be attempted by anyone with a fair knowledge of Radio.

Then, we have the Reinartz Circuit, which is also very popular at the present time, and which, too, has the great advantage of not having too many fussy adjustments. The Reinartz Circuit uses a special form of spider web coil, which has been found to be most efficient.

As a matter of fact, the popularity of the various spider web coils is not due to the fact that their price is low and that they do not take up much room, but because of their very high efficiency.

We make the prediction that such spider web or basket-weave coils will be used by radio experimenters almost exclusively before many months have passed.

But when it comes to long-distance reception, we must turn to radio frequency amplification. There still seems to be much confusion as to what radio frequency really is, and what it means. If the radio amateur and experimenter will think of *radio frequency as distance*, and *audio frequency as sound volume*, he will no longer be puzzled. Two and three stages of radio frequency amplification are coming more and more to the front, when long distance reception is desired.

As a rule, radio frequency reception is preferred to regeneration, because the adjustments are not so difficult and there is not so much distortion, although, perhaps, it costs more to build a radio frequency amplifier than a regenerative set.

Much original research work has yet to be done with radio frequency systems employing a crystal somewhere in the hook-up. Very little has been accomplished along these lines, although the possibilities seem alluring.

Finally, the radio experimenter should bend all his energy towards perfecting his set in such a manner that an aerial is no longer required. Except for sending purposes, and particularly in cities, the days of the aerial have been numbered. There is no doubt that within the next five years the unsightly aerial will have disappeared entirely. With modern radio it is no longer necessary, and the sooner all receiving aerials come down, the better. Even for sending purposes the loop is sure to come into use more and more, and it will be found shortly that if you have a large indoor loop, and providing you are not located within a steel building, the amateur will be in a position to transmit better than he can with his outdoor aerial now.

H. GERNSBACK.

RCARC EComm April Breakfast Pictures



Members enjoying breakfast with Dick (K7ZI) coming into the room.



Ron (K7HDX) in deep thought and Kevin (K2MFK) looking on.



Left Brody (K7VXV) and Daughter Rachel. Right Ed (KK7ZL) and his wife Jan.



Standing Vernile (K7DVP) with George (AL7BX) and Linda (KG7PBX) in conversation.



Tim (KI7LVC) and Wife Tammy (KI7LVB) in conversation with other members.

10 Tips for Home Safety

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While not exactly a medication, Schultz also warns that the nicotine used in vaping can be lethal to children if it even touches their skin. Even if it doesn't kill them, it can cause serious injury.

5. Remove Brush and Flammable Material from Around Your House

Dry brush, leaves, and flammable mulch all contribute to the risk of your home being involved in a fire. According to Steve Severaid, senior vice president and treasurer of [Greenspan Co./ Adjusters International](#), a public insurance adjuster firm, even dry leaves in your gutters can increase the risk of your house burning if there's a wildfire nearby. For the same reason, it's important to control dry overgrowth near your home and properly dispose of other flammable materials like paper and charcoal used for grilling. Sever aid says these precautions are especially important in drier areas in the Western U.S. where rainfall is sparse.

Meisinger agrees and notes that dry mulch used in landscaping near your home can be a fire hazard. As a result, it's better to use other types of mulch that won't burn. He says that fires cause the biggest insurance losses every year, and the increasing frequency and intensity of wildfires is worsening this problem.

6. Inspect and Replace Water Feed Lines

Those short, flexible water lines that connect your toilets, [washing machine](#), and dishwasher to the main water lines in your home need to be inspected often and replaced every five years, Meisinger says. Replace them with braided stainless-steel hoses instead of less expensive plastic ones that won't last as long. Severaid cautions not to over-tighten them, because the fittings on hoses and fixtures are fragile; too much force can cause them to crack and start leaking. Meisinger says that burst water supply lines are the second-largest cause of insurance losses in homes.

He also suggests that you also find and inspect your main water supply valve. It's not uncommon to find that a valve that hasn't been used in years no longer works, which means you may not have any way to shut off the water if one of your water supply lines starts to leak.

7. Improve the Lighting Around Your Home

One simple way to scare off burglars is to keep the lights on. "The more you can bring lighting around your home, the more you can discourage an intruder," Miller says. He says you can also automate your exterior lights to turn on when something the size of a person is detected, but ignore small animals in your yard. In addition, your lighting can be tied into your security system so it lights up an area where it detects an intruder.

A security system also can be programmed to turn on interior lights randomly or in a pattern that looks like the house is occupied, and you can connect cameras to those lights so you can see what triggered them.

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10 Tips for Home Safety

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As a bonus, better lighting will help keep you from getting in an accident and prevent injury.

[A study by ADT](#) showed that motion sensor lights were effective in deterring intruders. The intruders don't like them, but more important, they let the occupants know that there's something moving around outside that they need to check. The study also suggests you install additional motion-sensing lights along pathways leading to your home which can deter intruders, and also make walking near your home safer for people who are supposed to be there.

8. Add Some Security Cameras

Security cameras deter break-ins. That's because burglars and other intruders hate [security cameras](#), according to the ADT study. Cameras don't have to be fancy or expensive. For example, one of the reasons for the popularity of doorbell cameras from [Ring](#), [Nest](#) and other companies is that they're easy to set up and install while still being effective. They contain sensors that can detect the presence of a person, and they can work in very low light and use infrared so you can see who's in front of your house at night. Many security cameras also have a microphone and speaker so you can talk to someone within the camera's field of view. Security cameras work with your smartphone so you can monitor them whether you're home or not, and they can store images and videos for use by law enforcement. And because security cameras can be monitored remotely by your alarm company, you don't have to be home to be protected.

Continued next column

9. Test Your Smoke and Carbon Monoxide Detectors

That low-battery alarm in your fire alarms and carbon detectors are annoying for a reason, according to Steve Severaid; those devices need fresh batteries to work, and when they're working, they're able to save lives. Meisinger says that getting internet-connected smoke detectors is even better because they can alert you if you're not home and even can contact the fire department. Smart carbon monoxide detectors can alert you to the presence of the colorless, odorless but poisonous gas that results from the use of devices such as space heaters and generators.

Each type of detector has a test button that will confirm that it works, and it's a good idea to test these devices when you change batteries. They also should be inspected for dust that might clog the sensors. To test a smoke detector, you can light a match and hold it nearby to see if the alarm sounds. If you don't have a garage and your heating and cooking are both all electric, you might not need a carbon monoxide detector, but a smoke detector is always a must.

10. Get to Know Your Neighbors

Becoming friendly with other people living near you isn't just good for your social life; it can also keep you safer. "Get involved with your neighbors," Miller suggests.

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RCARC April Club Meeting Pictures



Left Ken (KR7KR), right Brad (WA7HHE) with George (AL7BX) in conversation before meeting start



Linda (KG7PBX) presenting the Treasurers report



Pledge of Allegiance



George (AL7BX) giving an area repeater update



Freed (KI7TPD) welcoming everyone to the meeting



Ron (K7HDX) briefing the group on the upcoming VE testing and coming events.

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RCARC EComm Board Meets

March 29, 2023 the new EComm Board Members met via Zoom to continue organizing and setting direction for this coming year. Following are a few areas that have been addressed.

1. Working with Iron County Emergency Manager, George Colson the current Memorandum of Understanding (MOU) was revised, signed and placed in service.
2. Rainbow Canyons Amateur Radio Club, Emergency Communications Group Organizational Charter was updated and placed in service.
3. Future EComm member training presentations are being discussed. The Board is still in process of identifying types of training that would be pertinent to the EComm Group and then prioritize and set a plan in motion.
4. Served agency representatives from Cedar City Hospital (CCH), Southwest Utah Public Health Department (SWUPHD) along with Iron County's Office of Emergency Management (OEM) have been invited to the April 20, 2023 RCARC EComm meeting. The purpose is to discuss ways that each of our organizations can better serve each other.

RCARC Upcoming Events

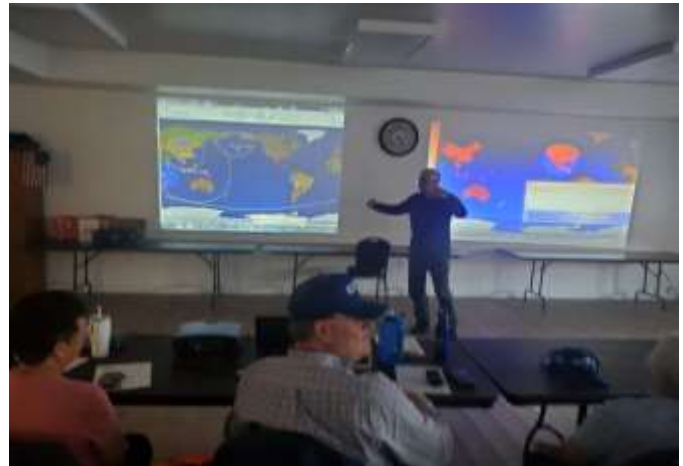
Save the Dates

Please mark your calendars for the following upcoming events:

- **June 3rd, Ride the Gap Bicycle Race Event. Parowan. More info to follow.**
- **June 10th RCARC Swap Meet. More info to follow.**
- **June 24th & 25th, Sumner Field Day.**
- **August 26th, Cedar Breaks POTA Event. More info to follow.**
- **September 9, Cedar City Half Marathon. More info to follow**

RCARC April Club Meeting Pictures

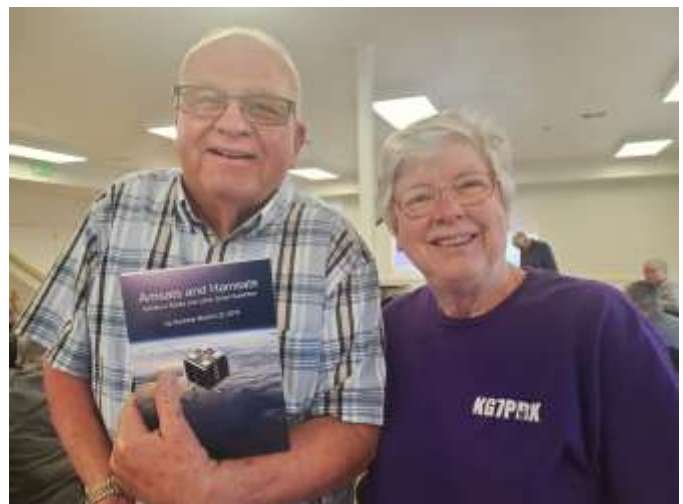
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George (AL7BX) presenting Satellites and Amateur Radio. Discussing low Orbit (LO) and High Orbit (HO) satellites.



View depicting orbits of several different satellites.



Dennis (W6DLW) April Book giveaway winner

RCARC March/April Technician Class

On March 30, 2023 the fourth session covered Sub-Element T-8 A, B, C. and D with Fred Govedich (KI7TPD), Signals & Emissions.

Sun-Element T-9 A and B with Ken Munford (N7KM), Antennas and Feed Lines.

See Pic's below:



Fred (KI7TPD) sharing information ref. Signals & emissions to the class.



Fred (KI7TPD) discussing Continuous Wave (CW) and Amplitude Modulation with the group.

Continued Next Column



Ken Munford (N7KM) addressing the group about Antennas Feed Lines.

On April 6, 2023 the fifth session covered Sub-Element T-0 A, B, and C with Dick Parker (K7ZI), Safety.

And VE Review with Ron (K7HDX)



Dick (K7ZI) talking with the group in regards to Ham Radio Safety Issues.



Ron (K7HDX) explaining how the testing will work on April 13, 2023. Registering to take the test and getting their FRN number.

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10 Tips for Home Safety

Continued from page 10

“Criminals will typically go to an area, and if they see neighbors talking to each other, they will often avoid it” because neighbors who are engaged with each other will also be watching out for each other.

In addition, he says if the neighbors hear an alarm go off, they will be able to see what’s going on. If you’re not home, they’ll be able to meet with authorities when they show up in response to an alarm. Your neighbors are also likely to notice if something is amiss at your home. For example, they may be the first to notice a fire or see someone outside your home when you’re inside. They may also be the people on your security company’s call list because they may be able to check your home before authorities can arrive. Despite all of the technology that security systems can bring to the protection of your home, a nearby set of eyes can sometimes be the best security of all.



RCARC March/April Technician Class

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On April 13, 2023 10 Class members came together at the Cedar City, Senior Center to take the Technician Class License Exam.

A great big congratulation goes out to all of the 10 applicants as they passed their exams and are now officially Ham Radio Operators. One applicant took the General exam and passed that as well.

In addition, thank you to all the instructors, VE’s and the class organizers.

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ARSA Announces 2023 Award Winner

The [Amateur Radio Software Award \(ARSA\)](#) Committee has announced that Grid Tracker, a project led by Stephen Loomis, N0TTL, and the GridTracker.org team, has been selected as the recipient of the 4th annual Amateur Radio Software Award.

The award recognizes software projects that enhance amateur radio and promote innovation, freedom, and openness in amateur radio software development.

The committee received many nominations for the 2023 award, and after careful consideration, Grid Tracker was chosen as the winner. The committee was impressed by the breadth of features in Grid Tracker, its innovative graphic interface, and its ability to make amateur radio more fun.

Grid Tracker is a tool that visualizes WSJT-X amateur radio traffic, like FT8 and contacts from log files, which makes it easier for radio amateurs to track their contacts and participate in contests. Its unique approach to visualizing radio traffic adds a new dimension of enjoyment to the radio art.

To learn more about Grid Tracker, visit <https://gridtracker.org>.

As part of the award, Loomis has requested that a \$300 grant be donated to the [National Alliance on Mental Illness \(NAMI\) of Oregon](#), a nonprofit organization dedicated to improving the lives of individuals and families affected by mental illness.

The ARSA Committee is already looking forward to next year's award and welcomes input and nominations for future awards.



RCARC E-Comm Group Participates in the Southwest Utah Great Shake Out Exercise

On Thursday morning April 20,2023 at 10:15 a.m. Brad Biederman (WA7HEE) activated the RCARC E-Comm group due to a large Earthquake that just occurred in Cedar City.

Brad then using Amateur Radio (also known as ham radio) conducted a roll call. Those members that acknowledged were asked to submit to the Iron County Emergency Operations Center (EOC) Planning Section a Damage Assessment Report (DAR) and to send a picture of the damage in their area.

At this point E-Comm members began to compile and format the requested information using the Fldigi and FLAMP Software used for sending these types of requests over the air through ham radio.

The DAR asks a number of questions related to the given emergency to give First Responders an idea of what the status is in their community.

Some of the questions on the DAR report:

Are there injured people, deceased and or trapped persons, are there fires burning, gas leaks, water leaks, chemicals leaking, electrical problems, collapsed or damage buildings, road conditions, access to the area and the same for animals.

Once this information is compiled and sent to the EOC) it gives the Emergency Managers a quick snapshot of the current situation in the city. This then allows Emergency Resources to be sent to the areas with the greatest impact.

The E-Comm Group are all volunteers and live in Cedar City or surrounding areas.

Continued next page

These members train in using the Fldigi and FLAMP Software throughout the year and participate in exercises such as the Utah Great Shakeout.

RCARC Members participating in the digital exercise were Brad Biederman (WA7HHE), Bruno DeBacker (KG7VVN), Ron Shelley (K7HDX), Darlene Shelley (N7WWB), Jack Coulter (KG7VEJ), Ken Richter (KR7KR), Dennis West (W6DLW) and Larry Bell (N7SND).

E-Comm. members that participated by checking in to the voice roll call demonstrating their availability to respond if this were a real disaster.

WA7HHE Brad Biedermann

KB7PBX Linda Shokrian

KR7KR Ken Richter

KG7VEJ Jack Coulter

N7SND Larry Bell

K7HDX Ron Shelley

N7WWB Darlene Shelley

W6DLW Dennis West

N7TCE Merlin Mackay

KG7VVN Bruno DeBacker

KC6WFI Anthony Karbowski

KD6HYH Sonia Karbowski

KK7CEE Bruce Adams

KK7CTI Shanda Badger

K7ZI Richard Parker

While we know that not all E-Comm. members were able to participate for many reasons a great big thanks goes out to everyone for just being an E-Comm. volunteer.



RCARC March/April Technician Class

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See Below for New Ham Information			
Last Name	First Name	Call Sign	Class
Glazier	Kelly	KK7MFI	Tech
Henderson	Nathan	KK7MDG	Tech
Holden	Brayden	KK7MDH	Tech
Kix	Fred	KK7MDS	Tech
Langford	Stephen	KK7MDT	Tech
McCabe	Michael	KK7MDU	Tech
Munford	Kenneth	KK7MFW	Tech
Porter	Jared	KK7MDV	Tech
Rock	Dennis	KK7MDW	Gen
Werges	Kent	KK7MCX	Tech

Congratulations to you all

2023 Online Ham Bootcamp

The [Nashua Area Radio Society's](#) spring 2023 online Ham Bootcamp will be held on Saturday, May 13, from 10 AM to 6 PM Eastern Time. Access to the session will be provided via [Zoom](#).

Ham Bootcamp includes a series of demonstrations and tutorials designed to help newly licensed Technician-, General-, and Extra-class license holders get on the air. Ham Bootcamp is also a great opportunity for hams who are interested in seeing what the hobby has to offer.

The online Ham Bootcamp program is available to all licensed and prospective amateur radio operators. You can register for the next Ham Bootcamp session [here](#). For additional information, contact Anita Kemmerer, AB1QB, of the Nashua Area Radio Society at ab1qb@arrl.net.

The Nashua Area Radio Society is an ARRL Affiliated Club.



RCARC EComm Group Meets

On April 20, 2023 EComm group members came together at the Cedar City Heritage Center for a great pre-meeting dinner of Tacos, Rice, Beans and Chips from Las Flores Family Restaurant.

Dennis (W6DLW) brought the meeting to order and announced that the new Memorandum of Understanding (MOU) between RCARC and the Iron County Office of Emergency Management (OEM) was completed, signed by both parties and placed in service. In addition, the newly revised RCARC Organizational Charter was adopted and placed in service.

At the last EComm Board meeting the Board discussed possible training classes to be scheduled later this spring and summer. They include an Electromagnetic Pulse (EMP) presentation, Incident Command System (ICS) 100 and 200 classes which are overviews of ICS system and Digital classes such as FLDigi, Winlink and other. More information to follow.

Brad (WA7HHE) gave a report on the Utah Great Shakeout that occurred earlier that morning. Seven operators responded by sending digital Disaster Assessment Reports (DAR's) and pictures of the reported damage. An additional six operators checked in verbally to provide their current availability to assist.

The meeting then segued to the main topic for the evening. The RCAC EComm Board invited representatives from our served agencies, Southwest Utah Public Health Department (SWUPHD), Cedar City Hospital (CCH) and Iron County Office of Emergency Management (OEM) to attend and discuss ways that we can better serve each other during routine and actual emergencies. Such as what do they expect from us? Types of documents/ICS and other that we need to be familiar with as-well-as types of informational reports needed if any.

Some of the highlights: Communication between all involved, documentation, resource ordering, types of information needed, designated scribe that is detail oriented and conduct table top exercises to train in the various areas needed.

Meeting adjourned at 6:45 PM.

Next meeting June 15, 2023

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EME: Pandemic and Patience

Doug Hansel, AA1UI, found himself with some extra time during the pandemic and thought that it might be the right time to learn how to make Earth-moon-Earth (EME) contacts.

"First, I did a lot of reading and talking to other amateurs. Then, I realized I needed better equipment, software, and a lot of patience," said Hansel.

Hansel was gifted a 15-element Yagi but had to sell some older equipment to upgrade to a better amplifier and equipment.

After many attempts, his first contact was in 2021. He kept at it and was thankful for all of the help he received. Hansel stressed the need for patience, stating, "What's fun is that I really didn't know what I was doing, but the EME community was very generous with their time and advice in helping me tick this off my bucket list."

He made a detailed video of his experience that can be viewed here:

<https://www.dropbox.com/s/2n4rlnoh37rmgt7/EME%20Project%20short%20FB720-FINAL.mp4?dl=0>.

Hansel was first licensed in 1977 and now holds an Amateur Extra-class license. He is an ARRL member.

ARRL Considering Dues Increase Making a Big Decision -- Together

Dear member,

For only the second time in 22 years, we are considering a dues increase. Promoting and protecting amateur radio requires a strong and vibrant ARRL. Paying our dues (and some of you go above and beyond) is one way each of us does our part.

In my column in the April issue of *QST* ([read now](#)), I introduced the following question:

Continued next column

How does ARRL handle an increase in dues?

On May 1, we will launch an online survey, inviting all ARRL members to participate. The survey will include some short questions about raising dues and modifying the way some membership benefits are bundled. The survey will also include an opportunity to share your feedback. The participation of every member is important.

Do this before May 1: Review your ARRL website account

Before you can take the survey in May, you'll need to make sure you have a working ARRL website account that is associated with your membership.

Follow these steps:

1. Go to www.arrl.org/take-dues-survey. This is a member-only page.
2. If you are already logged in to your account, you'll see **CONGRATULATIONS!** on the members-only page that will host the survey in May.
3. If you are NOT already logged in to your account, follow the instructions on the page to log in. Or, select the Login button at the top of the web page, and you will be prompted to enter your ARRL website username (usually your call sign) and password. If you have not logged in since April 2022, please use these [Login Instructions](#).
4. **The survey will open on May 1.** Return to this web page to take the survey on, or after, May 1: www.arrl.org/take-dues-survey.

If you need additional help with your login, call us Monday - Thursday from 8 AM to 7 PM ET, and Friday from 8 AM to 5 PM ET at 860-594-0200 or email us at membership@arrl.org.

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RCARC EComm Group Meets

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Meeting Pictures.



Terry West arranging the food table set up. A great big thanks goes to Terry for her work on making the dinner a success.



Jody Johnson (CCH) standing left center waiting to sign in.



Dennis (W6DLW) calling the meeting to order,



George Colson, Iron County Emergency Manager discussing ways we can better assist his office.



Nathan Cleverly with SWUPHD arms in air discussing ways to assist Public Health.



Austin Smith (SWUPH) black shirt and hat at left is addressing the group on how Public Health does resource ordering.

NASA Names Three Hams for Artemis II Moon Mission Crew

NASA and the Canadian Space Agency (CSA) announced the four astronauts who will venture around the moon on Artemis II. This will be the first crewed mission on NASA's path to establishing long-term moon science and exploration development. The agencies revealed the crew members on Monday, April 3, 2023, during an event at Ellington Field near NASA's Johnson Space Center in Houston, Texas. Three of the four crew members are amateur radio operators.

"The Artemis II crew represents thousands of people working tirelessly to bring us to the stars. This is their crew, this is our crew, this is humanity's crew," said NASA Administrator Bill Nelson. "NASA astronauts Reid Wiseman, Victor Glover, and Christina Hammock Koch, and CSA astronaut Jeremy Hansen, each has their own story, but together, they represent our creed: E pluribus unum - out of many, one. Together, we are ushering in a new era of exploration for a new generation of star sailors and dreamers - the Artemis Generation."



The crew of NASA's Artemis II mission (left to right): NASA astronauts Christina Hammock Koch, Reid Wiseman KF5LKT, (seated), Victor Glover, KI5BKC, and CSA astronaut Jeremy Hansen, KF5LKU. Credits: NASA.

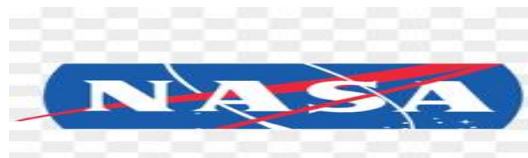
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The crew will work as a team to execute an ambitious set of demonstrations during the flight test.

Their assignments are as follows: Commander Reid Wiseman, KF5LKT, Pilot Victor Glover, KI5BKC, Mission Specialist 1 Christina Hammock Koch, and Mission Specialist 2 Jeremy Hansen, KF5LKU. Koch had planned to study and take her amateur license exam in 2019, but her flight was suddenly rescheduled 6 months earlier than originally planned. She had to immediately begin preparing for her flight instead of studying.

The Artemis II mission is scheduled to launch in November 2024. The approximately 10-day flight test will launch on the agency's powerful Space Launch System rocket, prove the Orion spacecraft's life-support systems, and validate the capabilities and techniques needed for humans to live and work in deep space.

For more information, visit the [NASA](https://www.nasa.gov) website.



ARRL Considering Dues Increase

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We'll send an update on May 1 once the survey is live.

Thank you for being a member and collaborating on this big decision.

73

David A. Minster, NA2AA
Chief Executive Officer

Time to Get Ready for Field Day

ARRL Field Day is about two months away, but like spring cleaning, it pays to start getting ready now.

2023 Field Day will be held June 24 - 25. It is ham radio's open house. Every June, hams throughout North America set up temporary transmitting stations in public places to demonstrate ham radio's science, skill and service to communities and the nation. It combines public service, emergency preparedness, community outreach, and technical skills all in a single event. Some participants may also choose to operate from home, using the exercise to develop and practice their personal radio communications capability.



Field Day has been an annual event since 1933 and remains the most popular event in ham radio.

In 2022, 4,929 entries were submitted (including check logs), and there was a total of 29,679 reported participants.

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Field Day is open to all amateurs in the areas covered by the ARRL/RAC Field Organizations and countries within IARU Region 2. DX stations residing in other regions may be contacted for credit and may submit entries as check logs.

The main focus of Field Day is to work as many stations as possible on the 160-, 80-, 40-, 20-, 15-, and 10-meter HF bands, all bands on 50 MHz and above, and to learn to operate in abnormal situations in less-than-optimal conditions. A premium is placed on developing skills to meet the challenges of emergency preparedness and acquaint the general public with the capabilities of amateur radio.

For Field Day 2023, several rules' changes have been made. It's a good idea to make sure that your logging software has been updated to the most current version to incorporate these rule changes including the updated Canadian sections list. There are many facets to operating on Field Day and knowing the rules and keeping good logs are paramount to successful contacts.

Many local amateur radio clubs participate in ARRL Field Day. To start preparing for Field Day, check out arrl.org/field-day for the official rules and all the information you'll need. To find a participating radio club in your area, use the Field Day Locator on the page. End



Field Day is Around the Corner: Emergency Communications Categories

ARRL Field Day is the granddaddy of all emergency communications exercises. One of the most popular activities on the ARES communicator's agenda, it will be held this year on June 24-25. Below are two classes of Field Day operation of special interest to the emergency communications operator or group:

(Class E) Home stations - Emergency power: Same as Class D, but using emergency power for transmitters and receivers. Class E may work all Field Day stations.

(Class F) Emergency Operations Centers (EOC): An amateur radio station at an established EOC activated by a club or non-club group. Class F operation must take place at an established EOC site. Stations may utilize equipment and antennas temporarily or permanently installed at the EOC for the event. Entries will be reported according to number of transmitters in simultaneous operation.

Class F stations are eligible for a free VHF station. At Class 2F they are also eligible for a GOTA station. For Field Day purposes, an Emergency Operations Center (EOC) is defined as a facility established by: a) a Federal, State, County, City or other Civil Government, agency or administrative entity; or, b) a Chapter of a national or international served agency (such as American Red Cross or Salvation Army) with which your local group has an established operating arrangement.

A private company EOC does not qualify for Class F status unless approved by the ARRL Field Day Manager. Planning of a Class F operation must take place in conjunction and cooperation with the staff of the EOC being activated. A Class F station may claim the emergency power bonus if emergency power is available at the EOC site. The emergency power source must be tested during the Field Day period but you are not required to run the Class F operation under emergency power.

[See the full rules here.](#) Catch you on the air for Field Day 2023! End

Notable Events on the Timeline of Amateur Radio Disaster Communications

Far from an exhaustive list, here are a few events involving amateur radio communications support over the past 100 years that may help define our role over time and its evolution.

1906 -- According to family lore, radio amateur Barney Osborne, later W6US, provided emergency traffic handling during the San Francisco Earthquake and fire.

1913 -- Hams provided emergency communications during Midwest storms and floods with spark-gap transmitters and crystal receiver sets, as vacuum tubes wouldn't emerge until after World War I and 1919.

1916 -- A national traffic relay system was organized to provide relay of messages cross-country, and 9XE in Illinois originated a message that was received in California in 55 minutes, and on the East Coast an hour after that.

1926 -- The cover of the May issue of QST featured a drawing of a railroad engineer holding an ARRL Radiogram with the caption reading, "Amateurs Give Emergency Service for Railroads When Wires Are Down"

1920s -- A motor provided emergency power to the plates of newly invented vacuum tubes in a station of an "RM" -- a "Radio Man" -- during a Mississippi flood.

1925 -- Amateur radio provided the only communications (5 watts CW) during the failed rescue attempt of caver Floyd Collins.

1933 -- Radio amateurs at W6BYF provided disaster communications for the Long Beach, California earthquake. Although his house was demolished, famous ham Don Wallace, W6AM, operated a portable station through his surviving extensive antenna farm with the help of the Navy in supporting the relief effort.

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Notable Events on the Timeline of Amateur Radio Disaster Communications

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1935 -- Predecessors of ARES established. ARRL had a vision of them in 1917.

1936 -- The catastrophic floods of the northeast (from Maine through to the Ohio River valley) wrecked the ARRL HQ station in Hartford (along the Connecticut River), with amateur radio again providing support. Famous VHF pioneer and ARRL HQ staffer Ed Tilton, W1HDQ, and his wife provided communications.

1937 -- Dr. Joseph Vancheri, W8BWH, was a key relief communications asset, arranging for aid to refugees from the Johnstown floods.

Late 1930s -- Commercial emergency amateur radio gear appeared and was advertised: an example was the battery-powered 50-S transmitter from Harvey Radio Laboratories of Brookline, Massachusetts.

1948 -- Flooding of Vanport, Washington, after the rupture of a Columbia River dike prompted an Amateur Radio Emergency Corps response under EC W7DIS, with amateurs using handheld radios (walkie-talkies).

1957 -- RACES was involved in providing communications support during the Malibu-Topanga Canyon (California) fires. Deputy Chief Radio Officer W6QJW operated under RACES tactical call sign CPT19 and controlled a net on 3995 kHz. The Gonset Communicator was an iconic Cold War/Civil Defense portable transceiver.

1964 -- The Great Alaskan Earthquake hit Anchorage, drawing a massive amateur response in handling emergency and health-and-welfare traffic. It was the most powerful earthquake in North American history, and the second most powerful in recorded history of the world

There was sweeping destruction in the city and the region. George Hart, W1NJM, wrote about the amateur response in the July 1964 issue of QST: 314 Alaskan amateurs supported the disaster relief effort, with 1,200 more from around the rest of the country actively supporting them. "KL7DVY reports he operated 20 hours on 2 meters, relaying messages from the Alaska Native Hospital to c.d. headquarters in Anchorage." See the August 2014 issue of QST, Public Service column, "Alaska Shield 2014."

1979 -- Hurricanes Frederic and David wrought destruction on the Gulf Coast and East Coast, respectively. Amateur radio support of relief efforts was in evidence in both cases.

That brings us up to the modern era and the emergence of the contemporary emergency management model. A few of the major events beginning in the 1980s that come to mind are hurricanes Gilbert (1988) and Hugo (1989), and the spate of four hurricanes in 2004 that affected us here in Florida extensively. Hurricane Andrew (1992) also wreaked incredible devastation in Florida. Hurricanes Katrina (2005) and Sandy (2012) were game-changers for emergency management thinking and policy for this country. Amateur radio was extensively involved in all cases. And, of course, amateur radio was involved in the colossal relief effort in the aftermath of the 9/11 attacks.

[Much of the above was culled from an excellent presentation given at the ARRL Pacificon convention in San Ramon, California, 2010, by Bart Lee, K6VK, ARRL State Government Liaison, ARRL Volunteer Counsel, Historian and Archivist, California Historical Radio Society, and lecturer, Antique Wireless Society. A tip of the ARRL fedora to him. -- K1CE]

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