

Rainbow Canyons Amateur Radio Club

Cedar City, Utah

Club Officers:

President:

KR7KR
Ken Richter

Vice-President:

KG7BPX
Linda Shokrian

Treasurer:

AL7BX
George Gallis

Secretary:

K6QOG
Bill Stenger

Local Repeats:

146.980 Mhz
Tone 100 hz

146.940 Mhz
Tone 100 hz

146.760 Mhz
Tone 123.0 hz

Remote Base
449.500 Mhz
Tone 100 hz

Remote Base
449.925 Mhz
Tone 100 hz

IRLP/Echolink
449.900 Mhz
Tone 100 hz

Club meets on the second Tuesday of each month at Sheriffs Search & Rescue Bldg.

RCARC NETS:

Breakfast Net: 7:00am 146.76 Mhz, 123 hz PL tone required, every weekday.

Friendship Net: 9:00pm 146.76 Mhz, 123.0 hz PL tone, every evening.

Club breakfast is June 4th at the Pastry Pub. Come in and place your order then come to the side room to be with other hams and your order will be brought to you. It is a most relaxing and friendly environment.

Next club meeting is Tuesday, June 14th, 7:30 pm

TOPIC:

Guest Speaker: Mel Parkes NM7P Utah ARRL Section Manager.
Finalize Field Day

Local News

CONGRATS!

We have 2 more new hams

Burton Nichols - KI7DRA
J. Kalon Langston - KI7EOU

Regrets

Karl Koller N7KK passed Saturday morning @ Hurricane Rehab.(now silent key) Many of you might recall Karl would check-in to WCARES nets from Mt Trumbull.

(Info from Scott Smith to Bob Vosper AE7HY who passed in on to Linda Shokrian KG7PBX.)

UP Coming Events

- June 4th

Emergency Preparedness Expo - RCARC & Ecomm Community Relations Table

- June 9th

Utah Summer Games Opening Ceremony

- June 25th

Fire Road Mountain Bike Race

- June 25th & 26th

Field Day

- July 4th

Enoch City Freedom Run

- July 8th & 9th

Great Salt Lake Hamfest

- **August 1st**
Tour of Utah Bike Race
(Don't know if Ham Radio will be involved)

- **September 1st to 5th**
Iron County Fair

- **September 10th**
Cedar City Half Marathon (Cedar Canyon)

NEWS UP DATE

*from Linda Shokrian KG7PBX
Club Vice-President*

Testing for our General Class

There will be an ARRL test session before the June 14th RCARC general meeting for our General Class students to upgrade their licenses. Time TBA. Also, some past Technician Class students are planning to test for their Technician License. Good Luck to all.

June RCARC Meeting

We have a special speaker for our June 14th meeting - ARRL Section Manager Mel Parkes, NM7P will be at our meeting, so please be sure and attend.

June Giveaway

We have two copies of the ARRL Operating Manual 10th Edition along with a Multimeter (which has been donated by Johnny Ellison KE6ZIM) to giveaway to club members at the June meeting. Please be sure you put your name into the drawings if you want a chance to win a giveaway.

GENERAL CLASS

RCARC is currently putting on a General Class every Tuesday night through June 7th with an additional class on Thursday June 9th. We had 18 students attending our first class on May 17th and expect 3 more to join us for Tuesday May 24th. Jack Coulter KG7VEJ and George Gallis AL7BX gave excellent presentations of the material and several students commented on how good the class was. Thank you very much Jack and George for getting us off to such an excellent start.

Upcoming Teachers will be Don Blanchard WA7GTU, Dick Parker K7ZI, Bill Stenger K6QOG, Ken Richter KR7KR, Craig Thompson KD6PN and Ken Munford N7KM. We are lucky so many of you have volunteered your time and expertise to help our

fellow hams upgrade their licenses. Thank you to all.

LEPC

May's Local Emergency Planning Committee meeting was held on Wednesday May 11th at Fire Station #1. After lunch the Committee members were given a tour of the fire station and some of the special equipment the Fire Department has, including the Hazmat decontamination chamber.

Next month's meeting will be held at the Heritage Center on June 15th at noon. LEPC will break into it's sub-committees for their continued organization.

ECOMM

May's Emergency Communications Group meeting was held on Thursday, May 19th at the Visitor's Center. Chairman Don Blanchard WA7GTU was unable to attend so Brad Biedermann WA7HHE conducted the meeting in his place. The Fire Road Race coming up on Saturday June 25th (the same day as Field Day) was discussed. In attendance were Brad WA7HHE & Mardi KB7HHB Biedermann, Ken Richter KR7KR, George Gallis AL7BX, Johnny Ellison KE6ZIM, David Johnson N7DLJ, Tawnee "Jack" Coulter KG7VEJ and Linda Shokrian KG7PBX.

Next month's meeting will be held on June 16th at 6 pm at the Visitor's Center. The Guest Speaker will be Mel Parkes NM7P, the Utah ARRL Section Manager. All interested parties are invited to attend.

CERT

May's Community Emergency Response Team meeting was held on Thursday, May 19th at the Visitor's Center. John Higley passed out and talked about the FRS radio's CERT will use in an emergency. Everyone got a chance to see how they worked and to practice on them.

Next month's meeting will be on June 16th at

BSA

2016 Boy Scout EXPO was held on Saturday May 21st. RCARC had a table and although we were not as popular as the candy canon, we did have quite a few people stop by and ask questions about ham radio - mostly adults but we did have 2 boy scouts express interest. Thank you very much to Jack Coulter KG7VEJ and George Gallis AL7BX who helped out at the table. Dick Parker K7ZI had a table set up for Morse Code. It was a fun day even with the wind gusts.

Preparedness in the Park An Emergency Readiness EXPO

Saturday, June 4th, 2016

*Main Street Park
Cedar City, Utah*

9 am - 2 pm

Free Admission

- **Fire Apparatus**
- **Live Fire Demo**
- **Vendors**
- **Prizes**
- **Food**
- **Family Fun**

ARRL NEWS

ARLB017 Annual Pre-Hurricane Season Station Test at WX4NHC Set for May 28

Now in its 36th year, WX4NHC at the National Hurricane Center (NHC) in Miami, will conduct its annual NHC Station Test on Saturday, May 28. The event, which gets under way at 1300 UTC and wraps up at 2100 UTC, is conducted each year in advance of hurricane season.

“The purpose of this event is to test Amateur Radio Station equipment, antennas and computers prior to this year’s Hurricane Season, which starts June 1 and runs through November 30,” said WX4NHC Amateur Radio Assistant Coordinator Julio Ripoll, WD4R.

“This event is good practice for ham radio operators worldwide as well as National Weather Service (NWS) staff to become familiar with Amateur Radio communication available during times of severe weather.”

The annual Station Test is not a contest or simulated hurricane exercise. WX4NHC will be on the air on various bands and modes. The station also often takes advantage of the test to perform operator training. WX4NHC will make brief contacts with participating stations to exchange signal reports and basic weather data. For example, stations may report “sunny” or “rain” or “cloudy” in describing the conditions at their locations.

Ripoll said WX4NHC will operate on HF, VHF, UHF, 2 meter and 30 meter APRS, and available via

Winlink (subject line must contain “//WL2K”) at, wx4nhc@winlink.org.

“We will try to stay on the Hurricane Watch Net frequency of 14.325 MHz most of the time,” Ripoll said. He explained that due to space and equipment limitations, WX4NHC will deploy up to three operators per shift, so the station cannot be everywhere and on every mode simultaneously. “You may be able to find us on HF by using one of the DX spotting networks, such as DX Summit (<http://dxsummit.fi/#/>),” he suggested.

Maritime Mobile Service Network Responds to Mayday Call from Stranded Vessel

The crew of a sailing vessel that foundered on a reef



in the South Pacific in early May was rescued in good shape, thanks in part to the alert ear of Maritime Mobile Service Network (MMSN) member Russell Taylor, AI6GV, of San Marcos, California. On May 3, Taylor monitored a “Mayday” call on 14.300 MHz from the Alaska-

based Morning Dove, at the time some 200 miles northeast of French Polynesia. The vessel’s captain, Bruce Moroney, KL3RK, reported that his 46-foot ketch had become stuck on a reef and was unable to move. The crew transmitted the Mayday distress call after the vessel began taking on water.

“I tried to reverse with no effect,” Moroney explained afterward to Latitude 38. “Within 10 minutes, conditions became extreme.” Moroney said that after the ketch’s hull and diesel fuel tank breached, an emergency position-indicating radio beacon (EPIRB) was activated, and a Mayday put out. “Within 15 minutes, the radios were underwater,” Moroney said.

Taylor apprised the US Coast Guard of the situation and of the vessel’s position. The French Navy subsequently dispatched a helicopter to the area within about 6 hours of the incident, airlifting the four unharmed crew members to safety. Efforts were reported under way to retrieve the grounded vessel.



The 46-foot ketch Morning Dove founders on a reef. [Bruce Moroney, KL3RK, photo]

The Coast Guard later called Taylor, to tell him that

had he not monitored the Mayday, the consequences could have been devastating for the crew.

Assisting in the event were longtime net member William Sturridge, KI4MMZ, in Florida, and his friend Peter Mott, ZL1PWM, in New Zealand, who relayed information.

For more information see ARRL letter for May 18, 2016.

ARRL “Strongly Supports” Petition to Drop 15 dB Restriction for Amateur Amplifiers

In comments filed on May 26, the ARRL said it “strongly supports” a petition to the FCC seeking to eliminate an Amateur Service rule, spelled out in §97.317(a)(2), that amateur amplifiers not be able to boost the RF input signal by more than 15 dB. The Petition for Rule Making (RM-11767), was submitted in April on behalf of an amateur amplifier distributor, Expert Linears America LLC of Magnolia, Texas.



“The Petition proposes relief that is in the nature of eliminating unnecessary regulatory underbrush, and it continues an effort started by the Commission on its own motion in 2004...to do precisely that,” the ARRL said in its comments. “The rule proposed to be eliminated is outdated; it constituted overregulation when it was adopted long ago, and it now substantially limits the flexibility of Amateur Radio operators to experiment with the current generation of software-defined Amateur Radio equipment.”

For more information see The ARRL Newsletter for May 26, 2016

What Happened at the last meeting? RCARC Minutes for May 10th, 2016

Many THANKS to Carolyn Bauer KG7YIB for taking the minutes for this meeting

Ken Richter KR7KR called the meeting to order at 7:38 pm.

Ken had each people introduce themselves. Those present were:

KE6ZIM	John Ellison
KB7HHB	Mardi Biedermann
WA7HHE	Brad Biedermann
KG6LFU	Jim Beal
KG7PVK	John Healey
N7DLJ	David Johnson
KB7OWE	Don Carter

KG7NYJ	Devin Elliott
KA7HGX	Tony Bennett
KG7YIC	Kenneth Bauer
KG7YIB	Carolyn Bauer
N7TCE	Merlin Mackay
KR7KR	Ken Richter
AL7BX	George Gallis
KG7PBX	Linda Shokrian
K7KM	Ken Munford
KG7VEJ	Jack Coulter
K7ZI	Dick Parker
KI7DRB	Bruce McDonald
KI7DRD	Dennis Gaide
KA7SWA	Kevin Truman
KG7ZZO	Andrew Wight
KI7OYI	Russell Taylor
KA7DQY	Dave Lourll
N7SYI	Joel Clements
KB7UMU	Sylvia Clements
W0LKT	Lynn Topham
WA7GTU	Don Blanchard
KG7YIA	Boyd Woolsey
KI7DRE	Larry Coles
KI7DYJ	Destry Balch

Visitors waiting for their call sign:
John Langston
John Foster
Burton Nichols

Secretary’s Report:

Any corrections were reported for the April minutes: Don Blanchard WA7GTU was added to those present. Don Blanchard WA7GTU motioned to accept the minutes as corrected and seconded by Jack Coulter KG7VEJ.

Treasure’s Report:

George reported that previous balance was \$1223.02. Collected \$80.00 bring the total to \$1303.02. The report was accepted by a unanimous vote.

General Comments

George Gallis AL7BX:

Set up three computers with the N1MM logging program for field day. We need more practice however there are only three boxes per contact to fill on the computer. Three peaks is a large area and there is no power lines to cause noise, and many toilets in the area.

Sylvia Clements KB7UMU asked if the area at Three peaks had any cover to block the wind and dust. George responded that having heavy tarps are a possibility.

Linda Shokrian KG7PBX:

Mentioned a need to discuss how many stations needed for field day. A discussion followed

and five stations were decided on.

Those wanting to participate or who have equipment to use for field day, please write down on the sign in sheet what type radios, antennas or other equipment that you can bring.

Field Day will be a 24 hour operation if there are enough people. George will begin set up the tower and antennas at 9 am. This hopefully won't conflict the Fire Road Race

Russ Chaffee N7BO volunteered to do a Dutch Oven cooking.

Don Blanchard WA7GTU:

It is possible that 8 operators will be needed for the Fire Road Race. The race coordinators want all operators to check in by 6:30 am.

Bicyclists will be wearing microchips and vests with numbers. Operator's report will be the rider's number and accidents if any.

George Gallis AL7BX mentioned there could possibly several hundred riders. Ken Richter KR7KR asked how would the operators know when the last rider past by. Don and George responded saying when the clean up crew past by. George concluded this topic by adding that we will finalize the details at the next meeting.

Linda Shokrian KG7PBX gave a run down on the up coming events and big thanks to Johnny Ellison KE6ZIM for donating a bag of multi-meters that will be given to the lucky winners at the end of the meeting. Ken Bauer KG7YIC will take of the media announcements for Field Day activities.

Trail Friendly Radio

by
Ken Munford N7KM

Ken talked about the beginning of the "db" decibel signal levels brought about Alexander Graham Bell. decibels relate to power strength and increasing the power by 2 is a gain of 3 "db" decibels. Also decreasing the power in half is a decrease of 3 "db".

How the reference level was 100 watts using a dipole antenna.

Ken explained several "Q" signals that are not often talked about:

QRO 10 watts or more
QRP 5 watts to 1 watt
QRPP less than 1 watt

Ken likes to takes his radio to far out mountain tops to operate QRP or QRPP so he talked about battery types:

SLAB - Sealed Lead Acid Battery
7 amp hour
Virtually indestructable
Inexpensive \$25 - \$30

Downside
Heavy 7 -8 lbs.
radio: 1.4 lbs
antenna: .5 lbs

NiMH - Nickel Metal Hydride Battery
light wight
high capacity
2400 ma hour

LIPo - Lithium-ion Polymer Battery
expensive
used in model airplanes
dangerous (not allowed on
commerical aircraft)
flexible containers

Ken listed several of his radios to compare the difference in power consumption:

Transciever	Amps/Rcve	Amps/Xmit
IC 706	1.8 amps	20 amps
KX3	150 ma	700 ma
K 1	55 ma	700 ma

Rock Might (1 freq) 500 milliwatt radio
receive 10 ma transmit 100 ma

Antennas need wire:

- cheap - wire on a reel -60ft
- Link dipole - 20 meter ant
- fishing swivel - 30m
- add a wire - 40m
- add another wire - 80m

Antennas are usually fed with coax cable. As the diameter of the coax goes down, the loss increase.

Contests:

SOTA - Summit On The Air - The highter the elevation of the station the more points. At sea level a station would get 1 point but at Brian Head would be 10 points.

NAQCC - North American QRP CW Club - hosts a variety of cw contests from different locations.

Flying Pigs puts out a news magazine called BACON BITS.

Ken Richter KR7KR closed the meeting at 9:05 pm.