

# Rainbow Canyons Amateur Radio Club

Cedar City, Utah

## Club Officers:

### President:

KR7KR  
Ken Richter

### Vice-President:

KG7BPX  
Linda Shokrian

### Treasurer:

AL7BX  
George Gallis

### Secretary & Editor:

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 August 6th** 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.

**No club meeting is Tuesday, August 9th**

## INSTEAD

On August 13th, there will be a fox hunt at Three Peaks at 8 am followed by a luncheon social at 11:30 am. Pulled Pork, beef, chicken will be provided and ask everyone attending to bring a side dish. Please RSVP to Linda Shokrian KG7BPX.

### Local News

#### Dates for your calendar:

August 6 - Breakfast 9 am Pastry Pub

August 9 - No club meeting

August 13 - Fox Hunt - 8 am 3 peaks

August 13 - Potluck luncheon RCARC  
Social - 11:30 am 3 peaks

August 17 - ESF8 mtg 10 am Heritage  
Center

August 17 - LEPC mtg 12 noon Heritage  
Center

August 18 - EComm mtg 6 pm Visitor's  
Center

August 18 - CERT mtg 7 pm Visitor's  
Center

## CONGRATULATIONS

Results of testing on July 12th  
Kerry Webb - new Tech KI7FZP  
and 2 new Generals

Betty Cuch KI7DQW  
Leo Harrison KC7RKU

### FCC NEWS

For those who want power amps

**SB QST ARL ARLB028  
ARLB028**

FCC Seeks Comments on Waiver  
Request from Expert Linears

The FCC is inviting comments on  
a June 11 request from Expert Linears  
America LLC to waive Part 97.317(a)(2)  
of the Amateur Service rules to permit it to  
import, market, and use its model 1.3K

FA amplifier in the US. The Texas  
company is seeking the waiver pending  
resolution of its earlier Petition for Rule  
Making (RM-11767), which called on the  
Commission to eliminate the 15 dB gain  
limitation on Amateur Radio amplifiers  
altogether. Expert said the version of the  
model 1.3K FA amplifier it now imports

has been modified to comply with current rules.

“Expert seeks a waiver in order to be able to import the unmodified version of the Model 1.3K FA, which is capable of considerably more than 15 dB amplification,” the FCC explained in a July 29 Public Notice. “Expert argues that the public interest would be served by permitting use of a higher-powered amplifier, because it would improve the communications capabilities of amateurs using portable, low-power transmitters by enabling them to approach the maximum legal power output.” Expert assured the FCC that its model 1.3K FA has proprietary software to prevent it from transmitting in the 26-28 MHz band, so it cannot be used in the Citizens Radio Service.

The Public Notice can be found on the web in PDF format at,  
[http://transition.fcc.gov/Daily\\_Releases/Daily\\_Business/2016/db0729/DA-16-864A1.pdf](http://transition.fcc.gov/Daily_Releases/Daily_Business/2016/db0729/DA-16-864A1.pdf)

## Amateur Radio Alive and Well in Turkey

Contrary to erroneous reports making the rounds on various Internet sites, no Amateur Radio licenses were suspended or revoked in Turkey in the wake of the failed July 15 coup.

“There is no ham radio license revoked in Turkey, and ham radio operators are operating normally,” said Aziz Sasa, TA1E, the president of Turkey’s International Amateur Radio Union member society TRAC. “The reports on ham radio licenses being revoked by the Supreme Council of Radio and Television (RTUK) are unconfirmed and speculative. RTUK is not a regulatory body of ham radio,” Sasa added. His entire statement has been posted to the TRAC website.

The erroneous reports cite a release from RTUK, which oversees broadcasting. Amateur Radio and other wireless industries are regulated by BTK, a separate agency. Three stations in Turkey were reported heard on 10 meters last week during an opening to Central Europe -- TA1BM, TA1PB, and YM7TEN/B.

IARU member society TRAC has not been closed, nor has its website been blocked or shut down.

## FCC Notice of Violation Alleges Malicious Interference, Transmitting Music, Failure to Identify

The FCC has issued a Notice of Violation (NoV)

to a California Amateur Radio licensee, alleging that he caused willful and malicious interference, transmitted music, and failed to identify properly. The FCC Enforcement Bureau said in the Notice, issued on July 13 to Philip J. Beaudet, N6PJB, of Burney, that agents from the San Francisco, California, and Portland, Oregon, offices observed the violations on four occasions in August and October 2015. A General class licensee, Beaudet formerly held the call sign WD6FGE.



FCC agents responding to an interference complaint used direction-finding techniques to pin down the source of an interfering signal on 3908 kHz to Beaudet’s residence. They also observed and recorded transmissions of music on 3908 kHz from Beaudet’s amateur station. The agents said that while they were monitoring and recording, the station’s assigned call sign was not transmitted at the end of each communication.

The Enforcement Bureau said the Notice does not preclude it from taking further action, if warranted, including issuing a Notice of Apparent Liability for Forfeiture with respect to the cited violations.

The Bureau gave Beaudet 20 days to respond in writing to “fully explain each violation, including all relevant surrounding facts and circumstances.”

## What Happened at the last meeting?

July 12, 2016  
**Rainbow Canyon Amateur Radio Club Meeting**  
*Thank you Carolyn*

WACK!! The gavel sounds to start the meeting... we’re all so friendly we have a hard time not conversing.

Those in attendance:

Ken Richter KR7KR  
George Gallis AL7BX  
Linda Shokrian KG7PBX  
Tony Bennett KA7HGX  
Merlin Mackay N7TCE  
Richard Parker K7ZI  
Riki Kline K7NJ  
Joel Clements N7SIY  
Sylvia Clements KB7UMU

Jim Urie KG7SYL  
Jim Beal KG6LFU  
Jack Coulter KG7VEJ  
Bob Olla KC6VAG  
Craig Thompson KD6PN  
Don Carter KB7OWE  
John Ellison KE6ZIM  
Ryan Letzerich N5RLL  
Denice Sheffield KF7WIY  
Fred Sheffield KF7GPZ  
Boyd Woolsey KF7YIA  
Brad Gunderson KD6SFS  
Larry Bell N7SND  
Sylvan Malis K9SYL  
Devin Elliott KG7NYJ  
Visitor's  
Ronald Shelley KG7TQO  
Andrew Wight AF7ZD  
Chris & Matt Brinkerhoff  
Jackie & Randy Klein

Pres. Ken

Welcome to 1 new technician and 1 upgraded  
generals who just past their exams tonight.

Introductions - Four non ham radio visitors:  
Jackie, Randy Chris and Matt (they should be on the  
roll that I assume Linda has in possession)

A new ham, I think, Ron who said he was a  
visitor.

George gave the treasurer's report.

\$1363 -\$152 went to Russ to cover most of the  
food for the Field Day dinner. \$1210 Balance. There  
is some money not yet deposited and not included in  
the balance report.

Minutes of June 2016 meeting were emailed,  
corrected through emails and Motion to approve by  
Jack and seconded by Don Blanchard.

\*\*\*Dick Parker won First Place - 2016 - 7th  
for the Piute County Utah Call Area's QSO Party  
Sponsored by The Central Oregon DX Club

Tony Bennet's Is there an interest in a hobby shop  
here in Cedar City My friend who had a hobby shop  
in St. George would like to relocate to Cedar City and  
open a hobby shop here. It would be advantageous for  
our local hams and also his wife is a flight attendant  
for Sky West. He would sell ham gear and wire and  
other accessories. He sells his items at cost to help  
the public. He is also a former Sky West Pilot that has  
a lot of knowledge about radios. Brady McPherson  
KG7AWJ. 435-862-1119

Jack excitedly said yes.

George Report on Field Day

Just under 400 contact?

Over 900 points – The bulk of the contacts  
were made by John Rice

We need more operators for next year.

CW contacts count twice the points per ham.

A lot of help for set up and tear down.

Don B This year our score was considerably

higher than last year.

George – At the Ham Fest –

George spent \$10 for 3,000 feet of antenna wire if  
anyone needs any. I certainly learned a lot. The Ham  
Fest organizers planned for 150 and over 570 attended.  
One class was televised in two other rooms.

Linda – has information on past Great Salt Lake  
Ham Fest events.

Pres. Ken - Turned time over to Linda –

Linda a) lost and found b) attendance list to pass  
around.

Mark your calendars for July 21, 6pm for  
Elmer Evening

NO AUGUST MEETING

AUG 13 – FOX HUNT instead – followed by a  
luncheon

Sonny Boys pulled meat to be provided, the rest is  
up to you folks; see the sign-up sheet.

Dick, did you find the \_\_\_\_\_ trophy

Mell Parks President of Utah's ARRL lost his  
father K7ERR, Ira Parks. He is now a silent key. Ira  
and his wife were long-time members of the Beehive  
Net.

Don will tell us about Fox Hunting. On target  
– Scout Troop looking for some \_\_\_\_\_?

Delano Peak mentioned – about a 30 minute hike  
– Anyone interested in going on 2 meters? If so, see  
me. \_\_\_\_\_? (Dick?)

Don's Presentation – He builds the transmitters  
and hides them primarily. Show and tell by Don on  
how cheaply the locators can be built.

Merlin – current owner of trophy

Dick – Purpose: Locate radio interference

Tony: ELT – Emergency Locator Transmitter

Don – Our ham radio club found a downed plane.  
Search and Rescue people were eating when our hams  
found the aircraft.

It crashed behind the water tanks of Enoch. Don  
was the second one into the plane to see if there were  
any survivors.

"I could hear the ELT ( at 121.5) ...The antenna  
was not connected to the ELT."

\_\_\_\_\_ is now a practicing transmitting  
frequency

Bad guys captured one of our local police officers.  
We were able to track him with our beams.

Antenna

2 Meters & 450 maybe \$120 w/ \_\_\_\_\_

— Used for satellites

Used for radio direction finding

Problems

Reflection from buildings, rock cliffs

Find a way to zero in on it (signal)

Denise talked about how she does it with her  
Yaesu F360? And using her standard rubber ducky  
antenna

Don Also there is a signal meter on your radio



(like an S meter)

Metal buildings all around here.

Tony made a remark that Merlin is Kind of funny stuff.

Don showed a metal box designed by a silent key from Canada.

Take two, set 'em out, or 3, or 4, or 5, or 6 or 7.

When the first transmitter turns off, it turns the second transmitter one and so forth.

147.460 – Only one crystal that multiplied into the ham band (Ask Don about this)

One can sequence them up to 7 or 8.

George – on foot

Ruby's Inn used Don's (?) transmitters for hunts several years ago and the people there are interested in buying Don's transmitters. ( hope I am remembering this right two weeks later)

Morris Code is used for the transmitting signals:

MOE .

MOI ..

MOS ...

MOH ....

MO5 .....

506 .....

WA7GTU for ID (FCC)

They come with instructions so people don't think the transmitter is a bomb.

A lot more individuals who know a lot more about finding them like Denise.

George's turn 121.5 beacon – like this on fishing boats in Alaska. Gave an experience. Coast Guard – if in harbor and transmitter went off, it was probably an accident.

Phased Bowtie Handifinder Doplar

Don will look for more circuit boards.

George – more varieties

Test it with 162.4 off Frisco

Also Simplex testing

Baofeng – explanation – Yaesu better

George – not a beam antenna

You can use an S meter

Some have serious attenuators to put between

.....

Don – Russians told us a plane went down near Minersville near the Beaver County and Iron County lines. We found it within about 100 yards away

George – 1980s

Merlin – Satellite scan (world-wide fox hunt) call him – still in use to find small aircraft.

Civil Air Patrol – about 99% of search over land mass.

Don – September – Key SLC CAP will be here: Mike Collett

Merlin CAP best of all 2 meter direction finders – Merlin at board explaining his instrument direction finder.

“The higher you can get your transmitter, the less interference you will have to get a good bearing.”

Moving transmitter

Stationary transmitter

Vertical and/or horizontally placed

Dick two 2 meter antennas

If you have this device you don't need triangulation

Homemade

Lack of confidence or operator

2 meter radio – in canteen case - \$10

Don used to build transmitters for wildlife tracking

GPS only updates about once an hour

Missoula Montana – a wolf – because he moves faster than the GPS records his location, you get to the location and the wolf is gone... on the move.

Pres. Ken talked about his tape measure antenna (with receiver box ?) which is a vertical and horizontal directional finder antenna.

Don showed a Canadian made box – Principle: electrically rotating. It has a microprocessor. Once calibrated, it will tell what direction you need to go.

We didn't get it all hooked up.

George: looked into “Raspberry Pie” stuff on the internet.

A drawing was held for books:

Item Call Sign Name

? Antenna Book KF7GPZ Fred

Fox Hunt Book KG7NYJ Devin

Multiplimeter Instrument Brad

KD6SFS

Linda might be able to help with book titles or call the winners.

Sincerely,

Carolyn Bauer