

# 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 146.98Mhz, no PL tone required, every weekday.

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

**Club breakfast is May 7th** 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, May 10th, 7:30 pm*

### TOPIC:

**QRP and Trail Friendly Radio by Ken Munford N7KM**

### Local News



### To Our New Hams

Wyman Satchel	KI7DOV
Betty Cuch	KI7DOW
Bruce McDonald	KI7DRB
Dale Wallace	KI7DRC
Connie Wallace	KI7DRF
Dennis Gaede	KI7DRD
Larry Coles	KI7DRE
Billie Villareal	KI7DSF
Kristine Barsky	KI7DQX
Steve Barsky	KI7DQY
Jody Johnson	KI7DQZ

### Some 2016 Upcoming Events

Here are some upcoming events that may involve Ham Radio. Some are for fun and some may be for public service or our EComm Group.

-April 30th  
Citizen Corp Council Annual Conference

- May 13th to 15th  
Rocky Mountain ARRL Ham Convention,  
Keystone Colorado

- May 21st  
Boy Scout Expo  
RCARC Community Relations Table

- 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)

## LEPC

Submitted by  
Linda Shokrian KG7PBX

LEPC regularly meets on the 3rd Wednesday of each month (except July and December) usually at the Heritage Center, rooms 5 & 6 at 12 noon. Last meeting was held on Wednesday April 20th. We continued working on setting up the following committees:

1. Right-to-Know Committee
2. Public Education and Information Committee
3. Hazardous Materials Facilities Liaison Committee
4. Emergency Response and Resources Committee

Cedar City approaches our LEPC as an ALL HAZARDS committee but the above 4 committees need to be established with-in the LEPC to be compliant with State and Federal Laws.

In case you are wondering exactly what LEPC is - here is a quick rundown...

Local Emergency Planning Committees (LEPCs) are community-based organizations that assist in preparing for emergencies, particularly those concerning hazardous materials. It's purpose is to carry out the duties set forth by the Emergency Planning and Community Right-to-Know Act of 1986. All Local Emergency Planning Committees

(LEPCs) must develop an Emergency Response Plan, review the Plan at least annually, provide information about chemicals in the community to citizens upon request.

Some required elements of the Community Emergency Response Plan include:

- Identification of facilities storing hazardous substances.
- Identification of transportation routes through the area of extremely hazardous substances.
- Description of emergency response procedures, on and off site.
- Designation of a community coordinator and facility emergency coordinator(s) to implement the plan.
- Outline of emergency notification procedures.
- Description of how to determine the probable affected area and population by a chemical release.
- Description of local emergency equipment and facilities and the persons responsible for them.
- Outline of evacuation plans.
- A training program for emergency responders (including schedules).
- Methods and schedules for exercising emergency response plans.

The next LEPC meeting will be held at Fire Station #1, located at 291 N 800 West.

NOTE: Meeting will be one week earlier on Wednesday, May 11th.

ALL interested parties are invited to attend.

## *General Information*

Submitted by  
Linda Shokrian KG7PBX

May RCARC meeting presentation is by Ken Munford N7KM doing QRP - Low Power Communication

Books giveaway - ARRL's "Low Power Communication - The Art and Science of QRP" and "Amateur Radio Pedestrian Mobile Handbook 2nd Edition by Edward Breneiser"

There were no CERT or EComm monthly meetings in April. Next meetings will be on Thursday May 19th - EComm at 6 pm, CERT at 7 pm at the Visitor's Center West Conference Room

Reminder - Field Day is coming up soon and there will be a general organization meeting on Tuesday

4/26 at 7 pm at Linda KG7PBX's home - 2438 W. Carmel Canyon Dr. There will also be a N1MM+ tracking software (that will be used for field Day) training on Saturday 5/7 at 1 pm - also at Linda KG7PBX's home. Bring the laptop you will be using for Field Day.

The General Class will start Tuesday May 17th from 6 - 9 pm at the Visitor's Center West Conference Room. A 5th meeting date has been added to adequately cover the material. Meeting dates are Tuesday May 17th, 24th, 31st, June 7th and Thursday June 9th. Testing will be before the June meeting on June 14th. Please let Linda KG7PBX know if you plan on attending so she can save you a seat and can send you the necessary class syllabus (updated ver 1.03) information.

### FOR SALE

- 1- 2 meter beam 22 element (needs to be cleaned)
- 1- HF 4 element 10-15-20 meter beam ( needs 1 new small element end caps and a trap.)

Call Kevin KA7SWA  
at 477-8943 or cell 590-6629  
for more information!

### ARRL NEWS

#### ARRL HF Band Planning Committee Seeks Suggestions on IARU Region 2 HF Band Plan

The ARRL Board of Directors' HF Band Planning Committee is inviting input from the US Amateur Radio community regarding possible changes to the International Amateur Radio Union (IARU) Region 2 Band Plan. That band plan and other significant Amateur Radio spectrum issues will be high on the agenda at this fall's IARU Region 2 General Assembly in Chile. Leading up to that gathering, the ARRL and other IARU member societies in the Americas will be seeking comments and suggestions regarding the Region 2 HF Band Plan. The HF Band Planning Committee will review the current plan, consider comments from the US Amateur Radio community, and recommend any changes to the ARRL Board for submission to IARU Region 2.

"The ARRL HF Band Planning Committee wants to stress that the IARU Region 2 Band Plan is a voluntary guideline and does not supersede FCC regulations related to spectrum usage," Committee Chairman and ARRL Second Vice President Brian Milesosky, N5ZGT, noted. He also pointed out two

other issues for radio amateurs to consider.

Most Region 2 countries outside the US do not have the sort of detailed subband regulations contained in the FCC's Part 97. For radio amateurs in these countries, the Region 2 Band Plan may serve as the only source of guidance on spectrum usage.

See ARRL Newsletter for more information

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#### SBE Urges FCC to Improve Medium-Wave Noise Environment

The Society of Broadcast Engineers (SBE) has told the FCC that the regulatory agency needs to take another tack in its efforts to tackle AM broadcast band revitalization. If the FCC takes the SBE's advice, the result could be less noise in the MF and HF Amateur



Radio bands. In comments the SBE filed in response to an FCC Further Notice of Proposed Rulemaking and Notice of Inquiry (MB 13-249) proposing ways to enhance the viability of the AM broadcast service, the SBE said the Commission must

"commit to a regulatory plan which, over time, will reduce the levels of man-made noise in the MF bands, and more broadly in the bands below 30 MHz." In comments it filed earlier in the proceeding, the SBE pointed out that "AM radio in particular is susceptible to interference from electronic devices of all types," and that ambient noise on the AM band is only bound to get worse with further proliferation of noise-generating electronic devices, including certain lighting devices regulated under FCC Part 15 and Part 18 rules. See ARRL Newsletter for more information.

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#### SB QST ARL ARLB015

ARLB015 FCC Invites Comments on Petition to Eliminate 15 dB Gain Limit on Amateur Amplifiers

The FCC has put on public notice and invited comments on a Petition for Rule Making (RM-11767), filed on behalf of an amateur amplifier distributor, which seeks to revise the Amateur Service rules regarding maximum permissible amplifier gain. Expert Linears America LLC of Magnolia, Texas, which distributes linears manufactured by SPE in Italy, wants the FCC to eliminate the 15 dB gain limitation on amateur amplifiers, spelled out in Part 97.317(a)(2). Expert asserts that there should be no gain limitation at all on amplifiers sold or used in the Amateur Service.

RM-11767 can be found on the web at, <http://apps.fcc.gov/ecfs/comment/w?id=60001536394>

"There is no technical or regulatory reason [that] an amplifier capable of being driven to full legal output

by even a fraction of a watt should not be available to Amateur Radio operators in the United States,” Expert said in its Petition.

## What Happened at the last meeting? RCARC Minutes for March 12th, 2016

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

Russ Chaffee N7BO asked for a moment to announcement that the test session is over and there were 11 people who took the test and 11 people passed. Congratulations! Thanked the VEs that helped with all the paper work and there will be a General License class next month.

Ken had each people introduce themselves. Those present were:

KE6ZIM	John Ellison
KB7HHB	Mardi Biedermann
WA7HHE	Brad Biedermann
KC6VAG	Bob Olla
KG6LFU	Jim Beal
KG7PVK	John Healey
N7DLJ	David Johnson
KF7OVD	Brian Amos
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
K6QOG	Bill Stenger

Those pending a call sign:

Dennis Gaede  
Kristine Barsky  
Steve Barsky  
Billy Villad  
Burton Nichols  
Larry Coles

### Treasure's Report:

George reported that previous balance was \$1088.02, \$35 dues collected, current total is \$1223.02. Don Blanchard WA7GTU motioned to accept the report, seconded by Brad Biedermann WA7HHE, vote was unanimous.

### Secretary's Report:

Bill reported that two corrections were noted and changed. Asked for further corrections, none were given. Jim Beal KG6LFU motioned to accept the minutes corrected, seconded by Dennis Gaede, vote was unanimous.

### General Comments:

Don Blanchard WA7GTU reminded everyone that the 146.98 repeater now requires 100hz PL tone.

Ken Richter KR7KR discussed some items involving Field Day and Fire Road Race. Brad Biedermann, Don Blanchard and George Gallis have done some preliminary planning.

Linda Shokrian KG7PBX mentioned the July meeting will be a presentation on fox hunting. “I need a presenter and coordinator to have a fox hunt at a later date.” Don Blanchard mentioned that the fox hunt transmitter in on 147.46 mhz. Might be a good frequency to program into your radios.

Dick Parker K7ZI mentioned the 7QP contest will be on May 7th and explained the meaning of the name and the purpose.

Linda Shokrian thanked all the teachers of the Technician License class. Reminded everyone of three important events coming up soon:

Citizen Corp Council Annual Conference  
Rocky Mountain Ham Convention,  
Great Salt Lake Hamfest

## GPS & Grid Squares

Presented by  
Don Blanchard WA7GTU

Don presented a history of development and of the usage of the satellites and deciphered the data from the GPS receiver. The following is a brief summary of his presentation.

GPS (Global Positioning System) began in 1970's for a cost of \$12 billion. It had two components: L1 - for civilian usage and L2 - for military.

There are 24 satellites, 12 in each hemisphere that are in 12 hour orbits at an altitude of approximately 12,000 miles traveling about 7,000 mph. They have a 10 year life span, weigh 2000 lbs and are 17 feet across and run 50 watts of power. It is necessary to receive 3 satellites to receive a 2 D position. To obtain elevation 4 satellites are necessary. When they are replaced they are upgraded. Don showed a map of the orbits around the earth and there is always a satellite over head at all times.

Google “New Constellation” for more information on GPS. A grid square is 1deg Latitude by 2 deg longitude equals approximately 70 x 100 miles. Subsquares are 3 x 4 miles.

**Drawing winners:** Jim Beal KG6LFU “Outdoor Navigation with GPS; Bob Olla KC7VAG “ARRL Repeater Directory”.