



**RAINBOW CANYONS AMATEUR RADIO CLUB**  
CEDAR CITY, UTAH 84720

Volume 1

Club Web Site [www.rcarc.info](http://www.rcarc.info)

August 2010

Minutes for  
August 10, 2010

President Stephen Judd KB7BGS opened the meeting at 7:30 pm. He welcomed visitors from St. George Ken K4SHE and Maxine KE7HNY. The each in attendance introduced themselves.. There were 19 people in attendance.

The minutes were posted on the club website ( [www.rcarc.info](http://www.rcarc.info) ) and corrections were made.

Sylvia Clements KB7UMU asked for a count for Saturday's Breakfast at IHOP.

Ken Munford N7KM gave a presentation on Direction Finding (DF).

Ken started with a short history of direction finding. He also explained that the term "Fox Hunt" was British because of the similarities between an actual hunting for a fox in the forest and hunting for a hidden transmitter.

Ken brought the transmitter to be used for the fox hunt after breakfast at IHOP Saturday. He explained how he and his grandson gathered spare parts to build the timer and ID voice component.

Ken mentioned that HF and VHF/UHF direction finding are two different processes. Tonight will deal with VHF/UHF process. There is three methods of using a directional antenna.

- 1) A. Phased array: Ken explained how the elements work
  - B. Parasitic array. Ken had a model and demonstrated how it works
  - C. Switched dual antenna. Ken gave an explanation.
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- 2) Doppler – mostly used by the Military
  - 3) TDOA (Time Differential of Arrival) explanation given and also used by the Military.

Since we do not have the resources of the military we will used the Body Fade Maneuver.

This means we use our body to reduce the signal strength to our radios. We can also use tinfoil tube as a shield and to attenuate the signal we can disconnect the antenna. Ken did a demonstration with examples he brought.

Ken fielded questions and comments from the group.

Bruce Bissel KE7LGD showed and home brewed antenna made from a metal tape measure and pvc tubing. The directions are on the St. George Radio Club website: [www.dixieham.org](http://www.dixieham.org). Look for Tape Measure Beam.

John Rice NR7T showed a You Tube video on fox hunting and several people present shared their own stories of past fox hunts.

The meeting was adjourned at 8:35 pm.

Respectfully submitted;

Bill Stenger K6QOG  
Secretary