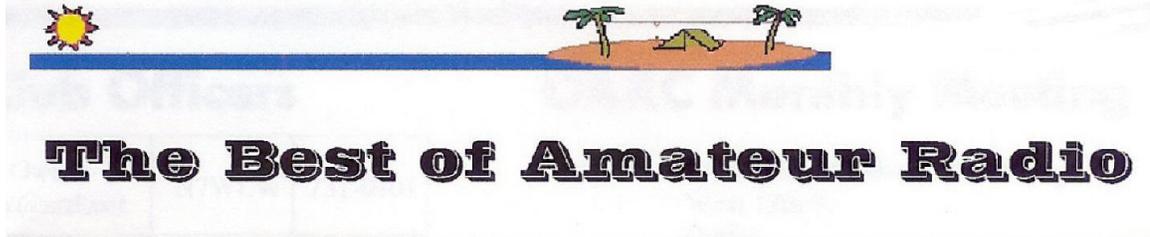




# WATTS NEWS



*Welcome to the OARC e-Magazine*

[www.OgdenArc.org](http://www.OgdenArc.org)

**AUGUST 2006**

Next Club Meeting

**3rd Saturday August 19, 2006; 5:00 PM**

**Topic: Steak Fry +  
Membership Renewal + Officers Elections**



Mike Fullmer KZ7O  
President



Kent Gardner WA7AHY  
Vice President



Chad Roylance KD7WQS  
Secretary



Jim Southwick N7JS  
Treasurer



Charles Horn KD7SST  
Director #1



James Clarke KD7SWL  
Director #2



Gary Liptrot N7ZI  
Past President - Advisor



Val Campbell K7HCP  
Webmaster/Editor

# PREVIOUS CLUB MEETING

3rd Saturday July 15, 2006

## "T"-Hunt

The meeting/activity this month was about "T"-Hunting. That's "Transmitter Hunting" or maybe "Fox Hunting" and/or "Bunny Hunting" for those of you that prefer. Several members brought special equipment they built to the meeting to demonstrate the art and skill of radio direction finding in search of locating a hidden transmitter. Ray White K7RFW just completed building a 3 element beam that seemed to work very well at locating the hidden signal source. It was very impressive. On the other hand, I used nothing more than a small paper-clip and my body to help direct me towards the hidden treasure.

Radio Direction Finding is popular on the VHF and UHF bands but to my surprise is also practiced on the HF bands including 6 meters, 10 meters and even 80 meters. Of course the higher frequencies utilize smaller antennas which lends it's self to be more convenient to use during this very mobile activity.

Prior to moving back to Utah, Kent Gardner WA7AHY was president of his Amateur Radio Club in California and one of his fellow club members is the author of a very popular RDF (Radio Direction Finding) publication used by many of the RDF pro's in this hobby. The Ogden club should be so famous. Hi Hi.

The pro's suggest the best and fastest way to locate the signal source is to do the following:

- Listen for the signal and determine the direction from which the signal originates.
- Draw on a map of the area covered by the activity a line extending out from your current location.
- Travel perpendicular (at right angles) to that direction for quite some distance and then take another reading.
- Again, draw on the map a line extending out from your new location.
- Where the two lines cross is the general area of the signal source.
- Relocate to the area where the lines intersect and then repeat the process over again but this time on a much reduced scale since you will be much closer to the signal source than when you started out.
- As you move closer to the target you may have to de-sense your receiver as the signal becomes stronger and stronger. This could be as simple changing to an antenna with less gain or tuning your receiver off frequency a bit.

The OARC "T-Hunt" this year was actually 2 hunts in one. One hunt was within walking distance of the club meeting site which led us to the far east end of Riverdale Park. For this local/walking "T"-hunt, a small antenna was more than adequate. I placed a small paper-clip, opened to expose the ends, into my HT antenna socket. Then by holding the HT close to the front of my body, I rotated in a circle while listening to the signal. When you hear the weakest signal (maximum noise) the source of the signal is directly behind you. It was easy to find the weak signal hidden transmitter this way since it was relatively near by. Once the hidden transmitter was located, we were given the frequency of the more distant hidden transmitter and everyone ventured out in their respective vehicles driving in search of that hidden treasure.

The long distance "T"-hunt was a different story however. I could hardly hear any signal at all on my HT with a  $\frac{1}{2}$  wave whip so I had to resort to using my mobile radio in my Jeep to get me started. My antenna is mounted on the left rear roof of my vehicle which results in a maximum signal received off of the direction of the right front fender. I was glad that I was not observed by the local police, as I drove in circles in Riverdale traffic circles and parking lots trying to get a fix on the direction of the hidden signal source.

Ray's hi-gain yet portable beam antenna worked great for him as he set out on his quest to find the hidden transmitter. I kept running into him at various locations throughout Riverdale and South Ogden as we each took readings and proceeded to ward the subject transmitter. Strange thing though, no matter how many fixes we took the results continued to point us North. Beware: everything is not always as easy as the book suggests. It turns out that some trackers received false reading that turned out to be reflections from the Washington Terrace west hill and the Ogden Airport east hill. So if you traveled out of your way towards these false sources and took another reading you were once again directed north.

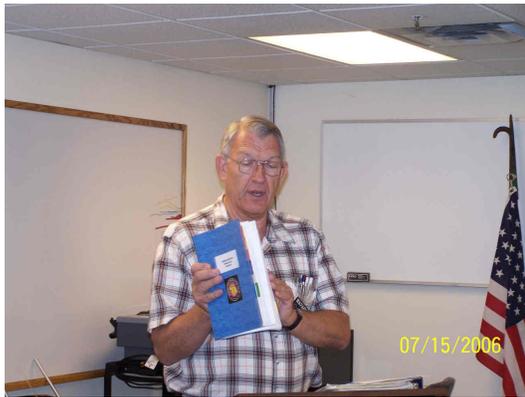
Soon I was able to receive the "T" signal with my HT extended floppy-whip but not with the stock rubber-ducky. There were spots on the northern edge of Riverdale where I could receive the "T" signal with just a paperclip antenna if assisted with body/finger capacitance. Once I got to downtown Ogden the reading still said - go north, go north, go north. By now I was becoming suspicious that the hidden transmitter might be located in one of the locations used in previous years, Shady Lane Park, etc., but such was not the case.

Finally when we could hardly go any further north we ended up at the home QTH of Charles Horn KD7SST. It was there that the "T" was located sitting in his UPL power meter box in the side of his home in the shadow of Mt Ben Lomond to the north and in full view of all of Weber County to the south. I can't believe what a whopping signal it was putting out with nothing more than a rubber-duck antenna. Does anyone know how much power that unit puts out?

Congratulations to Ray White K7RFW for being the first to locate the hidden "T".  
Be sure to join us again next year.

by Val Campbell K7HCP

**CLUB MEETING PICTURES GO HERE**  
(More pictures on OARC web site "Photo Gallery")





## CLUB NEWS

### Next Club Meeting

**When:** 3rd Saturday August 19, 2006  
**Time:** 05:00 PM  
**Location:** Riverdale Fire Station Park North Bowery  
**Topic/Activity:** Steak Fry + Membership Renewal + Officers Elections  
**Talk-in:** -146.90 (pl=123)

# A MESSAGE FROM OUR PRESIDENT

Mike Fullmer KZ7O



July was a busy month for me and August is turning out to be even busier. I missed the club meeting because of a conflict with a family event but I heard it was good.

This month's club meeting is our steak fry. It is on August 19<sup>th</sup> at 5pm at the Riverdale park. It should be a nice dinner and social event. The officers have been calling everyone to get orders for steaks. Hopefully you have all received a call or email or been contacted in some way. I will be hungry. I have to hike 9 miles out of the Uintas that day with my 40lb backpack and drive home. Please bring a dish of something to share with others. A salad, desert, chips, whatever you would like. The club is providing a large cooler of juice. Bring your own utensils, cup, plate to eat with also.

The club has purchased a little 2 meter handheld to give away at the dinner. Those that are paid members will get a ticket to put in the drawing. We will have connectors and coax for sell. Bring your wallet. Anyone that wants to bring swap meet stuff to sell is welcome to do that also. There is plenty of room on the picnic tables.

I will be attending (by the time you read this I will have already attended it) the WIMU Hamfest in Jackson Hole the first week of August. This is an attempt to bring it back after 10 years of absence. I should be fun.

We received news last month that the club placed 10<sup>th</sup> in the 7<sup>th</sup> call area QSO party. This was a little HF contest held in May. Several club members went to Earls house and used his radios and antenna on his 100ft tower and made contacts. I was not there but those that participated did well. I do not know how many people or clubs turned in their logs but we got a nice certificate. So congratulations to those that participated in the event for the club.

We really would like some more people to offer their services as an officer. It takes people who are willing to be an officer to make the club function. Call one of the officers to nominate someone.

Mike, KZ7O

# REPEATER UPDATE

## **Initial Repeater Update (08/02/06)**

The Little Mountain autopatch is down. The phone line is OK, but the controller seems to be dead. Mike

## **Interim Repeater Update (08/07/2006)**

The controller for the Little Mountain repeaters has died all the way. By the time you all get this 146.90 and 448.575 will be operating as a standalone repeater without the controller. Each radio has a simple internal controller that it can operate on. It will act just like the Mt Ogden repeaters until the controller is repaired. Mike

## **Latest Repeater update. (08/12/2006)**

As of today both 146.90 and 448.575 are back on the air and available for use. They do not have pretty voices and the autopatch is still down. There was a large surge that came down the phone line that took out the controller. It is fried and needs to be replaced. This will take a while. A new one will be obtained and reinstalled in the coming weeks.

**PS: If you have a technical interest in repeater maintenance let me know. We could always use help in maintaining them.**

Thanks for the patience.  
Mike, KZ7O - Repeater Engineer

# AR HOBBY NEWS

## **Florida Man Cited For Alleged Illegal Radio Operation**

A hunter, who told FCC agents that he used a VHF marine radio on hunting trips because the CB band had too much interference, has been issued a \$10,000 Notice of Apparent Liability for Forfeiture by the Commission. Jeremy R. Riels, of Cross City, Florida, is alleged to be the unauthorized operator of a transmitter on 156.875 MHz after an investigation in December 2004 by agents from the FCC's Enforcement Bureau in Tampa.

Monitoring VHF Marine Channel 77, the agents "heard a conversation between hunters about the location of their hunting dogs in the forest." The agents used radio direction finding techniques to determine that the source of the signal was from a 1997 brown Silverado Chevrolet pickup truck in Dixie County, Florida. "The agents observed a radio transmitter installed in the vehicle. Mr. Riels, the driver and only occupant of the vehicle, was questioned and admitted to operation of the radio transceiver installed in his vehicle." Riels was given 30 days to respond to the notice, which was issued in May. (Popuar Communications)

## FEATURE ARTICLE

I have been interested in low frequencies for a long time. During my presentation a few months back I showed a picture of my RBL low frequency receiver that I brought here from California. I'm glad to report that everything seems to be working fine now.

Some background of how LF radios were used on board ships. -----

My National RBL low frequency receiver that I showed the club during my presentation on "The World of Radio Below 500 KHz" is now back in operation. My new electrical wiring solved the problem that my temporary extension cords couldn't handle (possible incorrect wiring of a Ground Fault Interrupted in the house). My friend in California, Fred Field N6FY, who gave me the receiver, was happy to hear the good news. In his email back to me he included some interesting information regarding shipboard and low frequency radios prior to and including WWII.

Quote: During WWII there were several VLF-LF shipboard radios in use. Most were mid 1930s designs. I think the RBL came along later (it used more modern tubes). I suspect it was designed mainly to go on merchant ships. Prior to the start of the war, merchant ships used simple battery operated regen. receivers with no RF stage. The Germans were able to find ships by simply listening on 500 kHz. The RBL basically added the RF stage. An AC supply and more rugged construction were also provided. The merchant ship operators would have been comfortable with an RBL.

One Navy design that I thought was intriguing used a direct conversion scheme. The LO covered 15 to 550 kHz and the mixer was followed by a very good 1 kHz audio filter. Of course every signal then had two places on the dial, 2 kHz apart. In spite of that, the approach required less skill than the regen.

The Navy ship that I was on had a rather conventional superhet for VLF-LF. It was one of a pair of receivers on a standard Navy operating table. The two looked alike and were on a top shelf with an LM frequency meter (Navy BC-221) between them. The all-caps typewriter sat in a trough in the middle of the desk. Unquote.

TNX Kent Gardner, WA7AHY

# ANNOUNCEMENTS

## Next Club Meeting:

**3rd Saturday August 19, 2006**

- The Ogden Amateur Radio Club meetings are usually held on the **3<sup>rd</sup> Saturday** of each month.
- **Time: 05:00 PM**
- **Location: Riverdale Fire Station Park (see website for map)**
- **Topic/Activity: Steak Fry + Membership Renewal + Officers Elections**
- **Talk-in: -146.90 (pl 123.0)**

Check OARC web site for details  
[www.ogdenarc.org](http://www.ogdenarc.org)

- Please invite a friend to join you. You do not have to be a member of the club to participate in our club meetings or activities. We invite all to join us.
- If anyone is interested in doing a presentation on something or just have something unique to show at the meetings.
  - Please get a hold of any of the officers and let us know.

## Next Weber Co VE Test Session:

**October 04, 2006 (Wednesday)**

- Exam sessions are held in Ogden every few months, *usually* the first Wednesday in February, June, and October.

**Time: 05:00 PM** *Walk-ins allowed*

**Location:**

**WEBER CENTER  
2380 Washington Blvd,  
Room # 112  
OGDEN, UT 84401**

**Contact: VE Liaison:**

**Mary Hazard** [w7ue@arrl.net](mailto:w7ue@arrl.net) (801-430-0306)

**Cost: \$14.00**

Two forms of **ID**, one of which must be a **picture ID**.  
For "Upgrades" bring current **license** and a **copy** of current license, and any **CSCE's**

Most **calculators** allowed. Calculator memories must be cleared before use.

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## Club Web Site

Be sure to visit our club web site.

- [www.OgdenARC.org](http://www.OgdenARC.org)

Club membership is open to anyone interested in Amateur Radio. You do not need an amateur license to join us. Dues are used to operate the club, field day activities, and repeater equipment maintenance.

You do not need to join the club to participate with us.

## Club Call Sign

Listen to the club repeaters for this very familiar CW ID. You do know Morse Code don't you?

- **W7SU**

ARRL Field Day is held on the last full weekend of June every year.

Location may vary each year so watch this notice for details as time draws near.

See you there.

OARC REPEATERS			
FREQ	CLUB	TONE	LOCATION
146.820-	OARC	123.0	Mt Ogden
448.600-	OARC	123.0	Mt Ogden
146.900-	OARC "Talk-in"	123.0	Little Mtn (w/auto patch)
448.575-	OARC	100.0	Little Mtn (w/auto patch)

OTHER AREA REPEATERS			
FREQ	CLUB	TONE	LOCATION
146.620-	UARC	none	Farnsworth Pk
147.120+	UARC	100.0	Farnsworth Pk
449.100-	UARC	146.2	Farnsworth Pk
449.500-	UARC	100.0	Farnsworth Pk
147.040+	DCARC	123.0	Antelope Isl
447.200-	DCARC	127.3	Antelope Isl
449.925-	DCARC	100.0	No Salt Lake
145.290-	UBET	123.0	Brigham City
145.430-	UBET	123.0	Thiokol
448.300-	UBET	123.0	Thiokol
146.640-	BARC	none	Logan
146.720-	BARC	103.5	Mt Logan
147.260+	BARC	103.5	Promontory Pt
449.625-	BARC	103.5	Mt Logan
145.250-	WSU	123.0	* coming soon
449.250-	WSU	123.0	* coming soon
145.490-	K7HEN	123.0	Promontory Pt
146.920-	N7TOP	123.0	Promontory Pt
449.775-	N7TOP	123.0	Promontory Pt

## AREA CLUB MEETINGS & WEB SITES

CLUB	WEB SITE	DATE/TIME	LOCATION
Ogden ARC	<a href="http://ogdenarc.org">ogdenarc.org</a>	3 <sup>rd</sup> Saturday 09:00 am	Check OARC web site ...
WC ARES	<a href="http://ogdenarc.org/join.html#ares">ogdenarc.org/join.html#ares</a>	2 <sup>nd</sup> Thursday 06:30 pm	Weber Co. Library Ogden Utah
WC Sheriff Comm-O		1 <sup>st</sup> Saturday 09:00 am	Weber Co. Sheriff Complex West 12 <sup>th</sup> Street Ogden Utah
Barc	<a href="http://barconline.org">barconline.org</a>	2 <sup>nd</sup> Saturday 10:00 am	Cache Co. Sheriffs Complex 200 North 1400 West Logan Ut
CSERG	<a href="http://dcarc.net/ares.htm/">dcarc.net/ares.htm/</a>	Last Wednesday 8:30pm	Clearfield City Hall Clearfield Utah
Dcarc	<a href="http://dcarc.net">dcarc.net</a>	2 <sup>nd</sup> Saturday 10:00 am	Davis Co. Sheriff Complex Farmington Utah
NU Ares	<a href="http://home.comcast.net/~noutares/">home.comcast.net/~noutares/</a>	3 <sup>rd</sup> Wednesday 7:00 pm	Cache Co. Sheriff Office Logan Utah
Uarc	<a href="http://xmission.com/~uarc/">xmission.com/~uarc/</a>	1 <sup>st</sup> Thursday 7:30 pm	UofU EMC Bldg Room 101 Salt Lake City Utah
Ubet	<a href="http://27meg.com/~k7ub/">27meg.com/~k7ub/</a>	4 <sup>th</sup> Thursday 6:30 pm	BE-Thiokol: 24 East 100 South Brigham City Utah
Utah DX Association	<a href="http://udxa.org">udxa.org</a>	3 <sup>rd</sup> Wednesday check web page for details	check web page for details Salt Lake City area
UvhfS	<a href="http://ussc.com/~uvhfs/">ussc.com/~uvhfs/</a>	Each Tuesday 8:00 pm (refer to web site)	Weekly 2 meter net (no eye ball meetings)
WD Arc	<a href="http://westdesertarc.org/">westdesertarc.org/</a>	1 <sup>st</sup> Tuesday 7:00 pm	Tooele County Courthouse Tooele Utah
WsuArc	<a href="http://arcweber.edu">arcweber.edu</a>	3 <sup>rd</sup> Thursday 5:30 pm	WSU Blding #4 Room ? Ogden Utah

## LOCAL AREA NETS

DATE	CLUB	FREQ
Daily @ 12:30 PM mt	Utah Beehive net HF	7.272 Mhz <b>HF LSB</b>
Daily @ 07:30 PM mt	Utah Code net HF	3.708 Mhz <b>HF CW</b>
Daily @ 02:00 UTC	Utah Farm net HF	3.937 Mhz <b>HF LSB</b>
Sunday @ 8:45 AM	Ogden Old Timers HF net	7.193 Mhz <b>HF LSB</b>
Sunday @ 7:30 PM	UBET ARC	145.430 - 123.0 (training net)
Sunday @ 8:30 PM	SATERN Net	145.900 - 123.0
Sunday @ 9:00 PM	Morgan	147.060 = simplex
Sunday @ 9:00 PM	UARC Info net	146.620- no PL tone required
Monday @ 9:00 PM	2-meter SSB net	144.250 Mhz <b>2-meter USB</b>
Tuesday @ 6:30 PM (winter)	Weber ARES	448.600 - 123.0
Tuesday @ 8:00 PM (summer)	Weber ARES	448.600 - 123.0
Tuesday @ 8:00 PM	VHF Society Swap	147.120 + 100.0
Tuesday @ 9:00 PM	Bridgerland ARC	147.260 + 103.5
Wednesday @ 8:00 PM	UBET ARC	145.290-, 145.430-, 448.300- (all 123.0)
Wednesday @ 8:30 PM	CSEARG	145.770 simplex
Wednesday @ 9:00 PM	No. Utah 10m HF net	28.313 Mhz <b>HF USB</b>
Wednesday @ 9:00 PM	6-meter SSB net	50.125 Mhz <b>6-meter USB</b>
Thursday @ 6:30 PM	Davis Co Elmers Net	147.040 + 123.0 <b>New Hams</b>
Thursday @ 7:00 PM	Davis ARES	147.420 = simplex
Thursday @ 8:00 PM	Weber State ARC	146.820 - 123.0 (coming soon)
Thursday @ 8:00PM	RACES State VHF	145.490 - 123.0, 146.680 - 123.0 3 <sup>rd</sup> Thursday - even months only
Saturday @ 8:00AM mst	RACES State HF	3.920 Mhz <b>HF LSB</b> 3 <sup>rd</sup> Saturday – odd months only
Saturday @ 11:00AM mst	QCWA net HF	7.272 Mhz <b>HF LSB</b>

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*OARC OFFICERS*

President: Mike Fullmer KZ7O  
Vice Pres: Kent Gardner WA7AHY  
Secretary: Chad Roylance KD7WQS  
Treasurer: Jim Southwick N7JS

Director #1: Charles Horn KD7SST  
Director #2: James Clarke KD7SWL

*"WATTS NEWS" e-Magazine*

Editor: Val Campbell K7HCP  
Photos: Maggi Campbell N7HCP

*OTHER CLUB FUNCTIONS*

Webmaster: Val Campbell K7HCP  
VE Liaison: Mary Hazard W7UE  
Repeater Engr: Mike Fullmer KZ7O  
Past President - Advisor:  
Gary Liptrot N7ZI

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**73 es cul de W7SU**

[www.OgdenArc.org](http://www.OgdenArc.org)