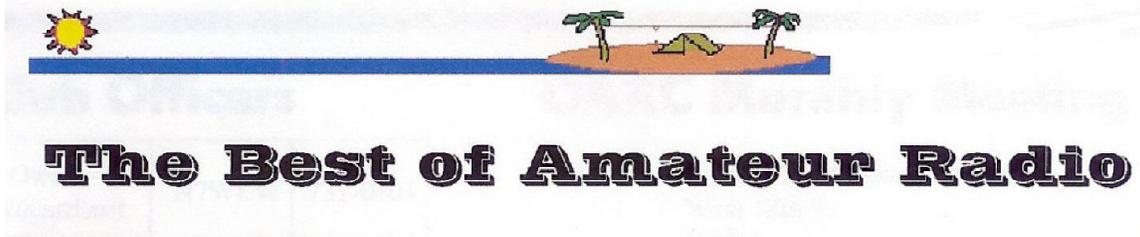




# WATTS NEWS



*Welcome to the OARC e-Magazine*

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

**DECEMBER 2005**

Next Club Meeting

**3<sup>rd</sup> Saturday December 17, 2005**

**Topic:** Family Dinner



**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

3<sup>rd</sup> Saturday November 19, 2005

This was the first OARC meeting at our new and permanent location located at the Riverdale Fire Station. It is located at 4334 Parker Drive on the west side of Riverdale which is very convenient from Riverdale, Roy via 4400 South or I-15 via 31<sup>st</sup> street exit. Park in the north side parking lot and enter through the north entrance. Proceed straight down the hall to the meeting room. There we have all the luxuries of a state-of-the-art conference room with projection and audio systems and plenty of chairs. Of course, we always have donuts and juice for all that attend. We are very grateful to our club president, Mike Fullmer KZ7O, for finding our club a new home and the Riverdale Fire Station for allowing us to make this our clubs new meeting place.

We had a pretty good turnout of 33 attendees at this meeting. Not bad considering that it was one of the last very beautiful fall weekend mornings that we have remaining this season. As usual, there were several winners of club meeting monthly door prizes. The following seven hams were the lucky ones this time:

KK7UD-Alan, N7OYN-Mike, KD7PAW-Jeff, KD7SWL-James, KD7WQS-Chad, N7HCP-Maggi, K7HCP-Val

The Show & Tell portion of this meeting featured the following attendees sharing points of interest with everyone in attendance:

- Kent WA7AHY >>> Parts Storage Bin Box (Home Depot) & Heathkit Coaxial Switch Kit (still in the parts bag).
- Earle NT7Y >>> Update on the current state of DX Grayline Propagation.
- Tom KE7EEH >>> Recently obtained his CW - CSCE and has ordered a new/very used FT-101b from eBay.

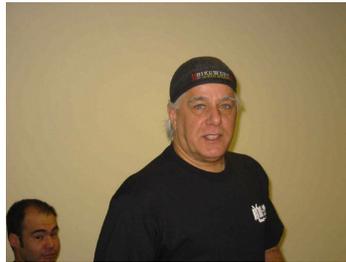
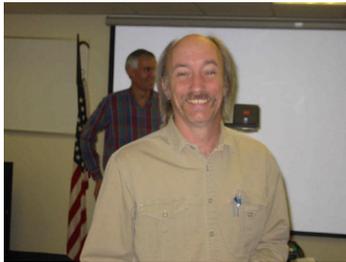
Mel Parks AC7CP -ARRL Section Manager announced that the almost forgotten WIMU Hamfest would be held this coming year in Jackson Wyoming on the weekend of August 4-6, 2006. The hamfest will be featured at the "Virginian" as was the case years ago. Check out all details on our club web site, [www.ogdenarc.org](http://www.ogdenarc.org) - Club Activities page.

"The Intriguing World of Radio Below 500 KHz" was the subject of Novembers club meeting presented by Kent Gardner, WA7AHY. He had audio recordings and computer displays of some of these signals. This area of the Radio Frequency spectrum contains some of the following intriguing signals:

- Experimental radio communications channels, Amateur and non-amateur (low power)
- Air Navigation Beacons, Submarine Communications
- AM Band Lighting Strikes - Lighting caused Whistlers

What are Lighting Whistlers you ask. Well you should have been present at this very interesting club meeting. Kent explained that while listening to the 50-150 Khz Very Low Frequency band during an electro-magnetic storm (lighting storm) using his home-brew receiver some very interesting signals can be heard and recorded for playback later. He had PC .WAV audio files and Spectro-Gram visual graph charts of some very normal lighting strikes that he captured earlier and re-enacted as he re-played/displayed for the clubs benefit. And Yes, they do whistle. As a potential lighting strike builds up - strikes - and eventually passes, the doplar effect of the Radio Frequencies involved produce a very strange "whistle" effect as recorded on audio tape. Solar Flairs can also produce whistlers. In fact, it is speculated that an imminent earth quake may also produce whistlers. That is how animals of our earth know in advance that a quake is about to happen?

Well, that a wrap for this month. See you at our next club meeting - which is the annual Family Dinner.  
73, Val K7HCP



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## Amateur Radio Resolutions

1. If I do not have an Amateur Radia license I will get licensed this year.
2. If I do have a license I will upgrade it to the next highest license until I am an Extra class.
3. If I am an Extra class I will find someone who isn't licensed and help them get licensed.
4. Spend some time trying to track down folks from # 1 above.
5. I will repeat # 3 until I can meet all my friends and family on 2 meters.

Monitoring Times - January 2005

# A Message from our President

Mike Fullmer KZ7O



Well, it is the end of the yr. Has it been a gud yr? Opps, I guess I should not write this using CW abbreviations. I have enjoyed the year. It seems to have been busier than ever. Of course it is also more costly, I have one daughter at USU and one at Snow College. It is very quite around my place at the moment.

I hope most of you that are reading this are planning to come to the Christmas dinner. I know some of you can not make it because of conflicts so that just gives me a better chance to win the handheld door prize! Besides the main prize there will be a couple of smaller prizes for the non hams or spouses who just came to enjoy the fantastic company.

As I look over the year, the club has done well. We have had a lot of activities. We had a whole summer of breakfast meetings. We had field day which turned out really well. We had our hamfest in the spring. Just lots of fun things.

This next year will bring more of similar activities. We are starting on the plans for field day. The club hamfest is in the planning stages. There is going to be a Utah QSO Party or "put Utah on the air" day where every county in the state will have an HF station on and operating. The club will sponsor an official Weber County Station. There is the old WIMU hamfest coming back to life, for those that remember this from many years ago. And in between it all we will have a few regular meeting.

Charles has planned a show and tell day for our January meeting. Bring a ham radio, any radio, and show it off. If you got a new ham thing for Christmas be sure to bring it and show us. Tell about it, what you like about it and what you do not like about it. Also bring a home brew project that you have done this past year and show it off. The project does not need to be big, just something that relates to ham radio.

Once again the January meeting will be at the Riverdale fire station just below the freeway in Riverdale.

Well, I wish everyone Merry Christmas and a happy new year. This is my Christmas card to you all!

73, Mike, KZ7O

# Biography - ARES

Sal Salazar KD7JRX



## **Weber County ARES (Amateur Radio Emergency Service)**

Hello my name is Sal. I have been asked to give a short out line of ARES in Weber County. I have been the EC for the county for the last four years. July 2000 is when I joined OARC. That's where I heard about ARES.

Six years ago Delon Atkinson was the EC for the county. Wanting ARES to better serve the community, Delon contacted the county's public safety officer Lance Peterson. Delon and Lance worked together to find the fit for ARES. As the Winter Olympics approached amateur radio though out the state was recruited. At this time the back ground checks were required. The union of ARES and the Weber County Sheriff's office created the "Commo team"

As a joint venture Weber County ARES and Weber County Sheriff department have collaborated on many events. Some have been civic others involved assisting law enforcement. An example of the civic events would be the Ogden Marathon, Wasatch Back Relay and the MS walk-a-thon. On the law enforcement side we have assisted with damage assessment for floods, searches for missing children, wild fires, and have trained along side public safety in the event of a major disaster.

If you or anyone you know is interested in further information I can be contacted at 801-540-9079 or [sal84404@netzero.net](mailto:sal84404@netzero.net)

73, Sal Salazar KD7JRX

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# CLUB NEWS

## Next Club Meeting

**When:** 3rd Saturday December 17, 2005  
**Time:** 06:00 PM  
**Location:** Eastern Winds Chinese Buffet  
3740 Washington Blvd - South Ogden UT  
**Activity:** Family Dinner  
**Talk-in:** -146.82 (pl=123)

## OARC December Family Dinner

The OARC club meeting in **December** will be a **Family Dinner** meeting. We encourage everyone to come and bring your spouse and your family too. We will have an abundance of door prizes for hams and the non-hams as well. The Grand Door Prize will be a very fine item but is restricted to paid-up members only and you must be present to win. Please check the club web site "club meetings" page for details. See you there.

**Place:** Eastern Winds  
**Address:** 3740 Washington Blvd - South Ogden UT  
**Menu:** Chinese Buffet  
**Cost:** \$6.50/per person (drinks and 10% tip NOT included)

**Grand Door Prize:** Yaesu VX-2R dualband handheld transceiver all band receiver (\$175 value)  
(paid-up members only) - you can join at the beginning of the meeting

## New/Upgrade Hams

**Congratulations** to the following Amateur Radio Operators who were recently licensed at our most recent Weber County VE Test Session or one of the other clubs in our area . We hope to see each of you attend our next club meeting. Remember ... Membership in OARC is complimentary for remainder of 1st year licensed. See you there, and remember to bring a friend.

- **Thomas Harrington >>> KE7EEH >>> (CW -code- CSCE)**
- **Beth Harrington >>> KE7ELF >>> Technician**

## New Club Members

**Congratulations** to the following Amateur Radio Operators who have joined OARC recently. We welcome you to attend our next club meeting. See you there, and remember to bring a friend.

- **Jeff Fullmer >>> KE7EUE**
- **Susan Puls >>> KE7FBK**

# MORE CLUB NEWS

## Little Mountain Repeater - Auto Patch

Mike Fullmer KZ7O reports that both of the **OARC Little Mountain repeaters now have auto-patch capabilities.**

Also, new solar cells were installed earlier this year so both repeaters are now running at 20 watts, up from 5 watts previously. You will also notice that the 2 meter repeater now has the same level of functionality as the 70 cm repeater has had for the past several months because both are under controlled of the new repeater control unit.

Listen in, listen often ... better yet ... call CQ or dial up the Auto Patch.  
See you on the air soon.

2 meter 146.900 (- offset) PL=123.0  
70 cm 448.575 (- offset) PL=100.0

73, K7hcp (Val Campbell)

## Repeater Update

The 146.90 repeater has been changed. It is now using the same controller as the 448.575 repeater. This means that 146.90 now has auto patch capability. It works the same as the 448.575 repeater. About the only audible difference is the courtesy beeps.

When you key up 146.90 it gives 2 low frequency beeps. When you key up 448.575 it gives one short low frequency beep and one high frequency beep. Give it a try and put it to good use. Once again, we could really use some donations to help support it all.

Mike, KZ7O (Club Repeater Engineer)

## Preview ... OARC January meeting topic will be ...

### **"Homebrew with a twist".**

Please bring anything you have built to share with the club. If you have a radio, antenna, tuner, amplifier, etc. that you like, bring it to show to the club. If you have something that you don't like, bring it too so members can benefit from your experience.

A special invitation has been sent to James Clarke, the winner of last year's hamfest raffle, to bring his Icom 703 for us all to see and hear about.

Charles, KD7SST

# AR HOBBY NEWS

## Airport Security and Ham Radio

Thought you might like to read this interesting story about a ham on his way home from a Mali DXpedition.

I got off from Bamako without a hitch. Developed violent diarrhea shortly after boarding the plane to Paris. This continued even after I got home. Landed in Houston and cleared customs without any problems, found my gate for the Houston/Phoenix trip and found some Imodium for the diarrhea and sat to wait for my final flight to home and my own bathroom to suffer in! After clearing customs I had about a 2 hour wait, my flight due out at 5:30 local time and arrive Phoenix around 7:30. About an hour before my flight was due to leave there was an overhead page for me to report to the ticket counter. It was outside security check point and a long walk. I went to the service counter across from my gate and ask them to call and see what they wanted. Of course they couldn't get thru so off I go out to the counter. When I get there a lady tells me there is a problem with my luggage. I tell her the combinations to the locks on my suitcases but a moment a Houston Police Officer comes up and starts asking me questions and wants my drivers license etc etc. Then he tells me that I won't be able to make my flight home because the TSA people believe there is a bomb with a detonator, not in my suitcases, but in the big box (amplifier)!!! They are considering evacuating the airport because of it and the bomb squad is on their way!! They then take all my carry-on baggage from me and a policeman stays with me for the next two hours. I was basically under house arrest until the bomb quad finished with my box! I told them they were over reacting, that the box in question had been screened multiple times on the trip to and from Mali and if they evacuated the airport they were going to have egg on their face over it after I wrote my Senator McCain, the mayor of Houston, the Air Port management, and the Houston Newspapers with my story. They decided not to evacuate until the bomb squad got there. They came in a SUV with a trailer behind it with a huge vault on it that had walls about 2 feet thick! The TCA people had already taken the amp out of the box and looked at it. I told them they could clear the area and I'd take the cover off my self and if it blew up it would save the public money for my jail, and if it didn't blow up they could see for themselves their machines were screwy! They didn't take that too well and had the police take me back to the outside of the building.

A guy from Continental Airlines Security showed up....looked at it and told the TSA guy "It's a f---king amplifier! I've seen them before!" But the TSA guy just looked at him and waited for the bomb squad.

They took the amp in the big vault out to the far end of the runway and there the bomb guys got the top off the amp without it blowing up. I didn't get to go out there so I don't now how they took the top off it. I haven't reopened the box as yet! After a 3 hour house arrest they finally brought my carry on luggage back, told me it was a false alarm and they were sorry that they had inconvenienced me but they "had to do what we had to do"! I ran to get the last flight out to Phoenix at 9:30 or I would have had to spend the night there! I had 3 surgery cases and would have had to cancel them. But my box and my two suit cases didn't make the flight and didn't come in until this morning. Now I'm probably on the TSA list as suspicious individual and every time I try to check in early it will deny me and I'll have to petition TSA to take me off the list. I can just see the headlines in the Houston paper... "Air port evacuated because of bomb in Phoenix physicians luggage"

I got home finally at 1am...then had to go to the office and pick up the patients charts for the surgeries on Tuesday and then dictate the history and physical exams before I finally got to bed at 3am, just to get back up at 6 for work! God, what a day!

This amp deserves a full chapter in Roger's next book!!

73, Vince Thompson, K5VT

# FEATURE ARTICLE

By Kent Gardner - WA7AHY



## Intriguing World of Radio Below 500 KHz

What kind of radio signals can you find if your radio would tune below the broadcast band?

The 500 KHz Emergency Distress Frequency for ships at sea is long gone, as are most continuous wave (CW) and Radio Teletype (RTTY) transmissions, but there are other interesting signals that are there for the asking.

Signals like modulated cw (MCW) aeronautical and maritime navigational beacons, Long Range Navigation (LORAN C) transmissions, license free band (limited to 100 milliwatts) signals, time and frequency (WWVB) transmissions, and submarine communications.

Simple receivers can also pick up the most interesting signals of all, that of "lightning caused whistlers" which are down in the 5 to 15 KHz range.

Lightning caused whistlers, chirps, chorus, tweaks and even 60 cycle hum can be recorded on audio tape and transferred to a computer for playback and analyzing. This is what has become known as "Natural Radio".

Scientific experiments abound in or near these lower frequencies such as watching for Sudden Ionospheric Disturbances (SID).

Kent Gardner WA7AHY

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# ANNOUNCEMENTS

## Next Club Meeting:

**3<sup>rd</sup> Saturday December 19, 2005**

- The Ogden Amateur Radio Club meetings are held on the **3<sup>rd</sup> Saturday** of each month.
  - **Time: 6:00 PM**
  - **Location: Eastern Winds Chinese Buffet 3740 Washington Blvd - South Ogden**
  - **Activity: Family Dinner**
  - **Talk-in: -146.82 (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:

**February 01, 2006**

- 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 "Talk-in"
448.600-	OARC	123.0	Mt Ogden
146.900-	OARC	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
WsuArc	<a href="http://arcweber.edu">arcweber.edu</a>	3 <sup>rd</sup> Thursday 5:30 pm	WSU Blding #4 Room ? 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
Ubet	<a href="http://27meg.co/~k7ub/">27meg.co/~k7ub/</a>	4th Thursday 6:30 pm	BE-Thiokol: 24 East 100 South Brigham City Utah
Dcarc	<a href="http://dcarc.net">dcarc.net</a>	2 <sup>nd</sup> Saturday 10:00 am	Davis Co. Sheriff Complex Farmington Utah
CSERG	<a href="http://dcarc.net/ares.htm/">dcarc.net/ares.htm/</a>	Last Wednesday 8:30pm	Clearfield City Hall Clearfield 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
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)

## LOCAL AREA NETS

DATE	CLUB	FREQ
Daily @ 12:30 PM mst	Utah Beehive net HF	7.272 Mhz <b>HF LSB</b>
Daily @ 07:30 PM mst	Utah Code net HF	3.708 Mhz <b>HF CW</b>
Daily @ 08:00 PM mst	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>
<b>Tuesday @ 6:30 PM</b>	<b>Weber ARES</b>	<b>448.600 - 123.0</b>
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	Northern 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 @ 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	3.918 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)