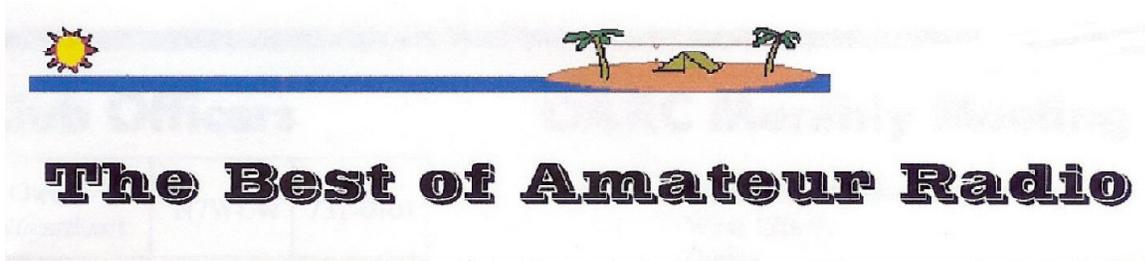




# WATTS NEWS



*Welcome to the OARC e-Magazine*

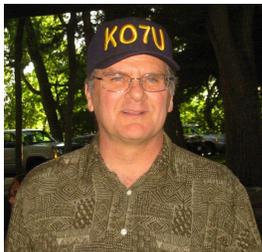
[www.OgdenArc.org](http://www.OgdenArc.org)

**NOVEMBER 2009**

Next Club Meeting

**3rd Saturday November 21, 2009**

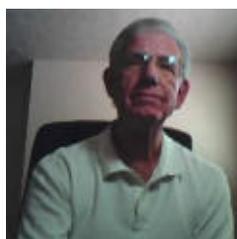
**Topic: AMSAT Satellite Ham Radio Communications**  
by Stan Sjol W0KP and Mike Fullmer KZ7O



Kim Owen KO7U  
President



James Clarke KD7SWL  
Vice President



Larry Griffin AD7GL  
Secretary



Jeff Anderson KD7PAW  
Treasurer



Justin Doxford KE7ROQ  
Director #1



Tom Harrington AF7JF  
Director #2



Val Campbell K7HCP  
Webmaster/NL Editor

# PREVIOUS CLUB MEETINGS

3rd Saturday October 17, 2009

## 17 OCTOBER 2009 – Meet your new officers and their equipment

The Club Officers “each presented and had their 15 minutes of fame”.  
Each went over how they got into ham radio what equipment they use, Etc.

Each of the officers explained/showed:

- First Radio or Favorite Radio(s)
  - Why did they choose that radio?
  - What other radios did they consider?
  - What are the features that they like and dislike.
- Their Stations
  - What is neat and what would they like to do or do differently in their station?
- Antennas
  - Why did they choose their current antenna(s).

**(In the order they made their presentations)**

### **Larry Griffin, AD7GL, Club Secretary**

First licensed as a Novice in 1956 as WN7YDZ

Upgraded in 1957 to WYYDZ

Let license lapse and was relicensed in 2004 as KE7CAK

Upgraded to Extra with his present call of AD7GL

Is a Volunteer Examiner, is a member of the Weber County Sheriff's Emcom team, likes CW and having fun in the club.

Base station rigs include an Icom 746 Pro and a Yaesu FT 817 for HF operations.

Favorite gear:

- ICOM W32A He liked the two bands. Could not hit the club repeater without building a copper J-Pole and adding a brick amplifier. He has acquired a Yaesu 7800 and that has become his workhorse especially for nets and emergency use.
- Uses a Hustler 5BTV vertical that is 26.5 feet tall that uses three guys.
- Also uses a portable MP1 Super Antenna that works best on 20 meters but covers up to 70 cm.

## **James Clarke, KD7SWL, Club Vice-President**

Has been licensed since 2002. Served as a club officer a few years ago and already has an interest in Transmitter hunting and teaching the club's licensing classes. He didn't say whether he has tried loading his crutch to one of his radios.

Favorite gear:

- Yaesu VX7R It has lots of bells and whistles, but he generally uses it on two meters and 440. It is not the "X" model with 6 meters.
- ICOM 703 He uses it a lot at scout camps. It's receiver works better away from the noise of the city. It uses DSP filtering and has been good on PSK. A negative is that the finals may blow. He had to send it in once for repairs. Yaesu charges \$80.00 an hour, but it only took ½ hour to fix for \$40.00.

## **Jeff Anderson, KD7PAW, Club Treasurer**

He brought with him a Hallicrafters S-38, which was his first radio receiver. He got his ham license in 2001.

Favorite gear:

:

- ELKRAFT K2 QRP Transceiver. It only comes as a kit. He bought the basic kit but has added other options as needed such as 160 meters, audio filters and a 100 watt amplifier. This idea adds value and utility and gives the owner a sense of accomplishment. He didn't have to pay for something he didn't need. He built it in 2001. It is one of the best transceiver kits available. No external test instruments are needed except maybe a multimeter, since test modules are already in the circuitry. There is even a third party add-on board that handles PSK-31 etc. It can have an internal battery for QRP operation.

## **Tom Harrington, AF7J, Club External Activities Director #2**

Tom was originally into CB and could see the value in moving on to ham radio. While in the local CB shop he found a Radio Shack HTX 202, a 2 meter handi talki. Tom's original call sign as a Tech was KE7EEH. He has upgraded to Extra and is now AF7J. KE7EEH would be a Morse keyers delight with so many dits to send. He expressed appreciation to the club for providing an encouraging atmosphere where he, once homeless, has taken it upon himself to get his license and is now taking on some schooling.

Favorite gear:

- Realistic HTX 202. It is one band, easy to operate. He has since picked up another one off the internet. He uses it for monitoring and participating in a number of nets.
- At the time of this meeting Tom operated his FT-757 on HF but since then it has returned to its maker following a unfortunate incident.
- For HF Tom now operates a restored Yaesu FT-101. This is a very classic transceiver.

## **Kim Owen, KO7U, Club President**

He took a licensing class from Irwin Miller while at WSU back in 1991. He got one minute CW copy by the skin of his teeth. Ten years later he really picked up on the hobby while he was working at Little Mountain. While at a work conference, he happened upon an HRO store and used his per diem to buy an Icom 7H. He lived on McDonalds \$ menu for the rest of his trip. He found it initially hard to program, but soon had it figured out and has used it extensively from then on.

Favorite gear:

- He has since gotten a Kenwood TS-570 and has a lot of fun with it. It has a small footprint and an auto-tuner and uses Digital Signal Processing.
- His latest acquisition is a Barker-Williamson folded dipole antenna. It is a very quiet antenna as far as noise is concerned.

## **Justin Doxford, KE7ROQ, Club Internal Activities Director #1**

Licensed in Feb of 2008

Working on upgrading to my General

Was the clubs Vice President my first year as a ham and had a great time and learned a lot.

I hope to learn CW

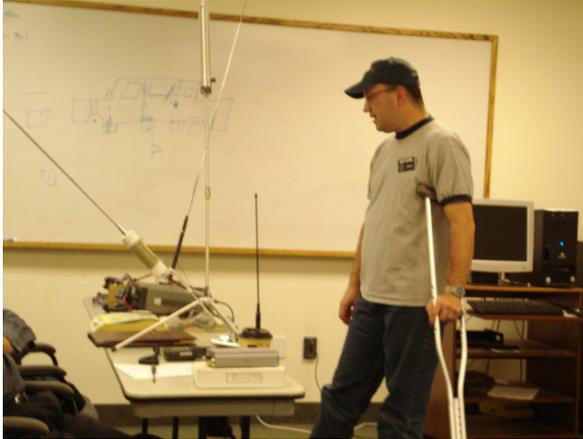
Have met some very neat people in this club and developed some lifelong friendships.

Gear:

- Antennas – G5RV full size, and an Arrow J-pole antenna for 2m and 70cm sticking up 30 Ft in the skies of Clinton, UT
- First radio was a hand held ICOM IC-91A dual band radio still use and love.
- For 2m meter base I use a Yaesu FT-212RH

HF Rigs

- Yaesu FT-840 and I use a LDG AT-11MP Auto Tuner
- Kenwood TS-570D it has a built in Antenna Tuner
- I use or let's say practice my CW with a Kent Twin Paddle



## NEXT CLUB MEETING

**When:** 3rd Saturday November 21, 2009

**Time:** 9:00 AM

**Location:** Riverdale Fire Station

**Topic:** AMSAT satellite Ham Radio communications  
by Stan Sjol W0KP and Mike Fullmer KZ7O

# CLUB BUSINESS

## Congratulations to the following new Hams

### VE Test Session 14 October 2009

Jonte II, Harry R.	General	KF7FHE
Bergeson, Christian P.	Tech	KF7FHA
Bolsinger, Cody A.	Tech	KF7FGX
Gunn, Dennis M.	Tech	KF7FGY
Harvey, Jordan L	Tech	KF7FHB
Heath, Michael T.	Tech	KF7FHC
Koenen, Robert E.	Tech	KF7FHF
Marsh, Julie F.	Tech	KF7FGZ
McReaken, Jacob M.	Tech	KF7FGW
Olsen, Timothy W.	Tech	KF7FHG
Young, Jeff	Tech	KF7FHD

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### Technician Class Amateur Radio License Class - in process

**We are hosting a series of short classes designed to help anyone prepare for the Technician Class Radio licensing test. Come and join us to learn about exciting volunteering opportunities and many other possibilities that you can do in amateur radio.**

**Location:** Weber County Library, Pleasant Valley Branch

**Time:** 7:00 pm

**Dates:** Monday's November 2, 9, 16, 23, and 30<sup>th</sup>

**Classes are free and open to the general public**

Materials used will be Gordon West's Technician Class Book (W5YI) based on the Element 2 Question Pool effective July 1, 2006, valid through June 30, 2010 for license exam preparation. We will have a few books for purchase for \$19.00 each. Question pool can also be found on the web at <http://www.arrl.org/arrlvec/pools.html>

Testing on November 30<sup>th</sup> (see details below)

# MORE CLUB BUSINESS

## Next Weber Co VE Test Session

**November 30, 2009 (Monday) <<< extra test session**

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

**Time:** 05:00 pm *Walkin's 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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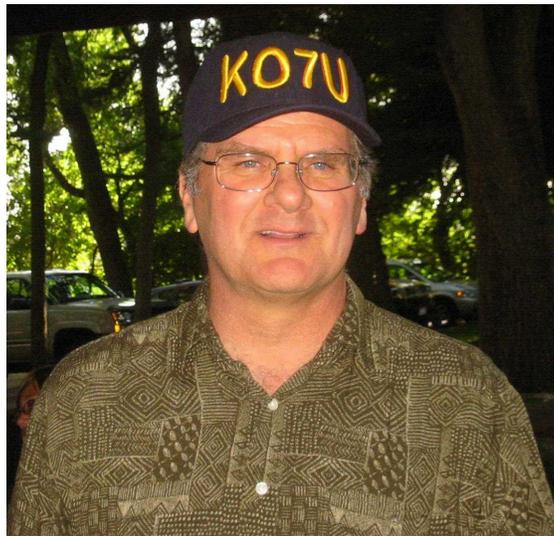
## SALE or WANTED ITEMS NEEDED

OARC's **O-bay (On-Line Swap-Meet) sale/wanted items needed** for the web site...

Visit <http://www.ogdenarc.org/> then click on **Swap-Meet**

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## FROM KIM'S SHACK



Kim Owen K07U

**From Kim's Shack ...**

It's November already. Where has the time gone!

What is worse than a horizontal tower? Answer: A vertical tower with nothing on it. There is still time to reach my goal, to have it up for Sweepstakes this month. This month is Sweepstakes. For those who indulge, go for it and have fun. For everyone else, throw those that do a bone and make a few contacts.

I have a high school reunion coming up in 2010 that has caused me to reflect about what is important in my life. I haven't been to any of reunions. At work we were discussing reunions. The discussion centered on the vanity of individuals who return to say look what I have become or look at my car or look at my job of importance or in context of Amateur Radio look at my tower, it's horizontal again.

At work my boss asked to write up the volunteer activities that I have done. He wants to submit my name for a "That-A-Boy" award. I agreed to do it, really not to toot my own horn, but to let my peers know what Amateur Radio is about and what we do. Though Amateur Radio consumes a lot of my time it's not the most important. In fact it is not in the top five.

As this holiday season approaches, I hope that we can all take a moment to reflect about what is really important and make sure the time we spend in this hobby doesn't over shadow the what is really important. Have a warm Thanksgiving holiday with the important people in your lives.

Kim Owen, K07U

## NEWS ARTICLES

### Family Electrocuted While Putting Up Ham Radio Antenna

(AP) Police in Florida say a mother and father and their 15-year-old son died after being electrocuted while putting up a ham radio antenna at their Palm Bay home.

The victims were identified Tuesday as 55-year-old Melville Braham and 49-year-old Anna Braham and their son, Anthony.

Authorities say rescue crews responded to a 911 call Monday evening and found the three on the ground not breathing.

Authorities say the Brahams were attempting to raise the antenna when they lost control of the pole and it hit an overhead power line. The impact sent 13,000 volts of electricity through the pole.

Anna Braham was pronounced dead at the scene. Melville and Anthony were taken to a hospital where they were pronounced dead.

### Fellow Hams: Please be careful

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#### RADIO LAW: CONDO RESIDENTS WIN DECLATORY RULING TO KEEP TV ANTENNA

In an October 30<sup>th</sup> ruling, the FCC granted Constance and Daniel Lane of Palantine, Illinois a Declaratory Ruling permitting them to put up a rooftop TV antenna. This, after the board of their homeowners association told them they could not do so. Amateur Radio Newsline's Frank Haas, KB4T, has the details:

Constance and Daniel Lane had installed a television antenna on the roof of their townhome. In their petition to the FCC they had stated that they own the deeded townhome with exclusive use of their roof .

Their homeowners association does not dispute this assertion. However, the association's rules require that antennas must be installed in the attic of a townhome and any deviation from this requirement must be approved by the Board of Directors.

But an exception in this rule exists where an owner cannot get an usable signal with an antenna in the attic. The Lane's allege that they cannot get an acceptable quality air signal in their attic and that therefore they have installed a roof mounted antenna.

In their petition to the FCC the Lane's stated that the Association was imposing continuing fines with respect to this installation. Because of this they requested the Commission to prohibit the association from enforcing its rule. The homeowners association was aware that the Lanes had taken the matter to the FCC but never filed any response.

In granting the Lane's petition the FCC weighed heavily on its own Over-the-Air Reception Devices Rule. This is the 1996 law which prohibits governmental and private restrictions that impair the ability of antenna users to install, maintain, or use over-the-air reception devices. It applies to satellite antennas that are one meter or less in diameter and, as in the Lane's case, to antennas designed to receive over the air television broadcast signals.

In granting the Lane's the request the FCC noted that by declining to oppose the petition, the homeowners association has failed to carry its burden. It therefore concluded that the Lane's antenna installation on their roof is permissible under the Commission's Rule as well as the homeowners association's rules.

At airtime its unknown if the homeowners association plans to file an appeal. (FCC)

For the Amateur Radio Newsline, Im Frank Haas, KB4T, in Holly Hill, Florida.

## GUEST ARTICLE

### High Noise Level on Two Meters

For some time now I have been experiencing high noise levels while using my Yaesu Memorizer on two meters to check into my Bishop's Storehouse South Net on 146.66 MHz simplex. I normally will go out to my van and use my mag-mount to check into the net sometimes with noise levels about S4 to S5. I could drive away a block or so and get the noise levels down.

When I heard of the recent Statewide Emergency Test (SET) last Saturday 31 Oct 09, I brought my mobile rig indoors with a battery so I could monitor the days activities without being out in the cold. I have a mobile antenna on an aluminum ground plane up in the attic. I am glad I set it up early because I turned my rig onto the 146.66 frequency and found an S9 noise exactly on that channel. All the TVs and computers were off except my wife was using the Wii on the big screen downstairs. I asked her to be prepared to turn it off just before the net started at 9:00 AM. She wasn't using the Wii on wireless so just for curiosity, I pulled the power plug out of my Belkin wireless router. The noise on my radio disappeared immediately down to full quieting. I left the router off while on the net.

I noticed that some two-meter frequencies were okay. I have not taken the time yet to see if the router is causing interference on other frequencies. I just know that my router gets to have a rest when I am using two meters in the house.

TNX Kent Gardner, WA7AHY

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# FEATURE ARTICLE

## Give Your Generator Some Space

By Dan Romanchik, KB6NU

The National Institute of Standards and Technology (NIST), the same folks that bring you WWV, publish a monthly newsletter called NIST Tech Beat. Here's an item from the 10/6/09 issue of NIST Tech Beat that will be of interest to radio amateurs:

To subdue the steaming heat of hurricanes or to thaw out during a blizzard, gasoline-powered, portable generators are a lifeline during weather emergencies when homes are cut off without electricity. But these generators emit poisonous carbon monoxide—a single generator can produce a hundred times more of the colorless, odorless gas than a modern car's exhaust. New research from the National Institute of Standards and Technology (NIST) shows that to prevent potentially dangerous levels of carbon monoxide, users may need to keep generators farther from the house than previously believed—perhaps as much as 25 feet.

Up to half of the incidents of non-fatal carbon monoxide (CO) poisoning reported in the 2004 and 2005 hurricane seasons involved generators run within 7 feet of the home, according to the U.S. Centers for Disease Control and Prevention (CDC).

Carbon monoxide can enter a house through a number of airflow paths, such as a door or window left open to accommodate the extension cord that brings power from the generator into the house. While some guidance recommends 10 feet from open windows as a safe operating distance, NIST researcher Steven Emmerich says the "safe" operating distance depends on the house, the weather conditions and the unit. A generator's carbon monoxide output is usually higher than an automobile's, he says, because most generators do not have the sophisticated emission controls that cars do.

"People need to be aware that generators are potentially deadly and they need to educate themselves on proper use," Emmerich says. With funding from CDC, NIST researchers are gathering reliable data to support future CDC guidance.

NIST building researchers simulated multiple scenarios of a portable generator operating outside of a one-story house, using both a test structure and two different computer models—the NIST-developed CONTAM indoor air quality model and a computational fluid dynamics model.

The simulations included factors that could be controlled by humans, such as generator location, exhaust direction and window-opening size, and environmental factors such as wind, temperature and house dimensions. In the simulations the generator was placed at various distances from the house and tested under different weather conditions.

"We found that for the house modeled in this study," researcher Leon Wang says, "a generator position 15 feet away from open windows was not far enough to prevent carbon monoxide entry into the house."

Winds perpendicular to the open window resulted in more carbon monoxide entry than winds at an angle, and lower wind speeds generally allowed more carbon monoxide in the house. "Slow, stagnant wind seems to be the worst case because it leads to the carbon monoxide lingering by the windows," Wang explains. Researchers determined that placing the generator outside of the airflow recirculation regions near the open windows reduced carbon monoxide entry.

In the next phase of the study NIST will model a two-story house that researchers believe will interact with the wind differently. NIST researchers also have worked with the Consumer Product Safety Commission on related work. (See: "NIST to Study Hazards of Portable Gasoline-Powered Generators," NIST Tech Beat, March 5, 2008.) The generator study can be downloaded at <http://fire.nist.gov/bfrlpubs/build09/PDF/b09009.pdf>.

# ANNOUNCEMENTS

## Next Club Meeting:

**3rd Saturday November 21, 2009**

- The Ogden Amateur Radio Club meetings are usually held on the **3<sup>rd</sup> Saturday** of each month.
- **Time: 9:00 AM**
- **Location: Riverdale Fire Station**
- **Topic: AMSAT Satellite Ham Radio Communications**
- **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:

**Monday November 30, 2009**

(extra test session)

- 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
ATV	UARC	Ch-58	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
448.825-	IRLP/Echo	123.0	Clearfield City
449.950-	IRLP	123.0	Clearfield City
449.425-	IRLP	100.0	Nelson Peak
147.360+	Summit County	100.0	Lewis Peak

**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>	4th 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	3.570 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 Co Net	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 @ 8:00 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	CSERG	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 @ 8:00 PM	Weber State ARC	146.820 - 123.0 (coming soon)
Thursday @ 8:00PM	State RACES VHF/IRLP	145.490 - 123.0, 146.680 - 123.0 3 <sup>rd</sup> Thursday - even months only
Thursday @ 8:30 PM	Davis ARES	147.420 = simplex
Thursday @ 9:00PM	Wasatch Back Net	147.360 + 100.0
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: Kim Owen KO7U  
Vice Pres: James Clarke KD7SWL  
Secretary: Larry Griffin AD7GL  
Treasurer: Jeff Anderson KD7PAW

Director #1: Justin Doxford  
KE7ROQ

Director #2: Tom Harrington  
AF7J

*"WATTS NEWS" e-Magazine*

NL Editor: Val Campbell K7HCP

*OTHER CLUB FUNCTIONS*

Webmaster: Val Campbell K7HCP  
Past Pres Advisor: Kent Gardner  
WA7AHY

Board Advisor: Stan Sjol WOKP  
Repeater Engr: Mike Fullmer KZ7O  
VE Liaison: Mary Hazard W7UE

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**73 es cul de W7SU**

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