



WATTS NEWS



The Best of Amateur Radio

Welcome to the OARC e-Magazine

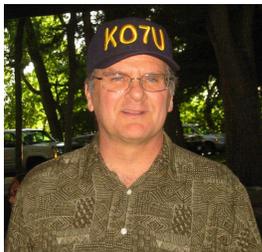
www.OgdenArc.org

DECEMBER 2009

Next Club Meeting

3rd Saturday 19 December 2009

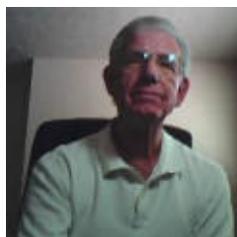
Topic: OARC Annual Family Dinner Event



Kim Owen KO7U
President



James Clarke KD7SWL
Vice President



Larry Griffin AD7GL
Secretary



Jeff Anderson KD7PAW
Treasurer



Justin Doxford KE7ROQ
Program Director



Tom Harrington AF7J
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Val Campbell K7HCP
Webmaster/NL Editor

PREVIOUS CLUB MEETINGS

3rd Saturday 21 November 2009

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

Stan and Mike took turns presenting to the club members in attendance some facts and experiences of using amateur radio communications to/from amateur radio satellites in earth orbit. These crafts are called OSCARs which stands for Orbiting Satellite Carrying Amateur Radio. The Amateur Satellite Origination AMSAT plays a big part in coordinating this aspect of our hobby. AMSAT represents over 32 countries around the world. Their website can be found at www.amsat.org . Check it out.

Most Amateur Satellites are in a low earth orbit (LEO) and usually a polar orbit which means they travel from North to South, over the earth's north and south poles as opposed to traveling from West to East around the equator. Each orbit comes about once every 90 minutes and lasts about 10 minutes from horizon to horizon.

An interesting situation exists when tracking/listening to a satellite as it passes over head. The frequency used to hear the satellite undergoes a Doppler Effect where as you receive the signal as much as 10 KHz higher than the actual transmit frequency as the satellite is at AOS (Acquisition of Signal) and then gradually over the next ten minutes shifts as much as 10 KHz lower than the actual transmit frequency as the satellite approaches LOS (Loss of Signal).

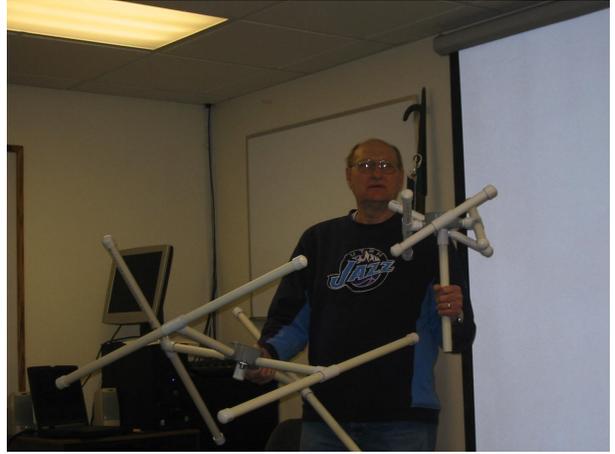
Some amateur satellites carry narrow band FM repeaters such as our mountain top repeaters and other carrying linear transponders that support SSB and CW transmissions.

Keplerian Elements are a set of numbers that describe the characters of each satellite's flight and can be downloaded and input into satellite tracking programs to aid radio amateurs in plotting and tracking future satellite passes over any location on earth. SAT32PC is an example of a satellite tracking program that can be downloaded from www.AMSAT.ORG.

We were told that the minimum amateur radio satellite tracking station would consist of a dual band vhf/uhf transceiver and a dual band vhf/uhf antenna. It would be real nice to also have an Azimuth and Elevation dual function beam/rotator control system and a computer.

Mike showed us his homebuilt MOXON satellite antenna system and Stan showed us his home built LINDEN/BLAD satellite tracking antenna system, which consist of both a 2 meter and a 70 cm antenna. One is used for satellite uplink and the other for satellite downlink.

Thanks to Stan and Mike for a great presentation.



NEXT CLUB MEETING

When: 3rd Saturday 19 December 2009

Time: 5:00 PM

Location: ABC Mandarin, Roy UT

Topic: OARC Family Dinner



OGDEN AMATEUR RADIO CLUB - FAMILY DINNER PARTY

DATE: 19 DECEMBER 2009 (3rd Saturday)

TIME: 5:00 PM

PLACE: ABC MANDARIN

LOCATION: 5260 SOUTH 1900 WEST - ROY UTAH

PRICE: ORDER FROM MENU : PRICES VARY

GRAND DOOR PRIZE: [Grundig G6 Aviator Buzz Aldrin Edition Shortwave Radio](#)

(paid-up members only) - you can join/renew at the beginning of the meeting

CLUB BUSINESS

ARRL Field Day 2009 Results (Utah)

Utah had 23 entries in all

Class	# Xmitters	Call Sign	Club Name	# QSO's	Power Max	# Operators	Total Points
2A	2	W7SP	Uarc	1343	150	54	5014
2A	2	W7SU	Oarc	610	150	10	1470
3A	3	W7DAV	DCarc	841	150	130	3302
4A	4	K7UT	Utah DX	4624	150	33	14080
4A	4	W7IVM	Bridgerland	620	150	50	2508

Congratulations to the following new Hams VE Test Session 30 November 2009

- Olsen, Timothy W *General* = KF7FHG
- Eckert, Richard R *General* = KF7GMI
- Clarke, Tyler *Tech* = KF7GMG
- Seegmiller, Jeffery M *Tech* = KF7GMF
- Seegmiller, Michael R *Tech* = KF7GMH

MORE CLUB BUSINESS

"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**

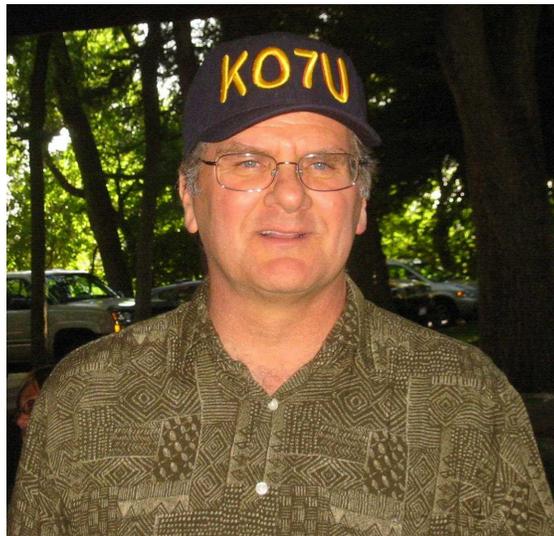
OTHER BUSINESS

The Little Mountain Repeater site is now the home of a new/revived packet digipeater. You can hear it at 145.090 Mhz on the 2 meter band which is a frequency assigned to Weber County. This is an open packet digipeater which means it can be used by any licensed amateur radio operator.

This system is owned and managed by Weber County EOC and its main purpose is emergency communications from the Weber County EOC to the State EOC in Salt Lake.

Mike KZ7O

FROM KIM'S SHACK



Kim Owen K07U



From Kim's Shack.....

Twas the night before Christmas, when all through the shack
All the bands were jammed cuz' the aurora came back.
The coax was strung and antennas were tuned
In hopes that rare DX will be made soon.

Ok, it's a work in progress. I hope everyone is ready for the big event this month. We haven't started our decorations yet.

It is cold and time to start all those good antenna projects. It's been said that antennas work best when put up in a snow storm during winter. Yes, I'm still working on my antenna project too. I got my rotor plate. All I need now is some time and some colder weather (hi, hi).

Kudos to our VP James KD7SWL for the Technician Study Class last month. Also, thanks to all those that helped. The class produced five new hams, including his son Tyler, now KF7GMG. Tyler, what do you want for Christmas?

It's the time of year to clean out your shack and make space for that new peace of ham gear that Santa will bring. Someone will be taking home some nice prizes from our Christmas dinner Saturday. I hope to see everyone there. Tom AF7J has been a very busy Santa's helper getting everything ready. Thanks Tom.

As the year is coming to an end, I'd like to thank everyone that makes the club work. A lot of time, effort and anxiety from many people make the club fun and interesting. Have a warm and Merry Christmas. 73 de Kim K07U

NEWS ARTICLES



Utah Hams Coordinate Rescue (Dec 7, 2009)



On December 2, this dairy truck crashed and rolled into the Logan River in Utah. Brent Yeates, KA7FAP, was able to help rescue the driver and call for help on his handheld transceiver. [Photo courtesy of KSL TV Channel 5]

In areas where cell phone signals just won't work, Amateur Radio gets through. That's what happened when Brent Yeates, KA7FAP, of North Logan, Utah, found out just before noon on Wednesday, December 2 when he came across a dairy truck that had crashed and rolled over in the Logan River as he drove on Route 89 through Logan Canyon.

As 38,000 gallons of dairy products were spilling into the Logan River, Yeates waded through the cold river to help get the driver out of the truck's cab and then put out a call on his handheld transceiver. Another ham, Brent Carruth, AD7VF, of Logan, was monitoring the repeater and heard Yeates make the call. Carruth listened as Yeates give a first-hand account of the condition of the driver and the seriousness of the crash and then called 911. According to [The Herald Journal](#), Utah Highway Patrol officials originally reported that the call for help came from a motorist who traveled to a cell phone reception area before dialing 911.

"What happened Wednesday, where a radio operator happened upon an accident, was not an isolated incident," Carruth told the newspaper. "It happens more frequently than one might suppose." Yeates, who owns property in the canyon and travels it weekly, agreed saying he says he helps a crash victim at least once a year: "When you pull up on an accident, your first concern is to make sure the driver or passengers are okay. I grabbed my fire extinguisher because there was smoke coming from the truck and I could hear the driver talking and he said he was okay."

This is not the first time a radio amateur was on hand to help out in Logan Canyon: In March 2008, Eldon Kearl, K7OGM, of Fish Haven, Idaho, was driving in the Logan Canyon, Utah area when he came upon a driver who lost control of her truck in the snow. Her truck fell more than 100 feet over a cliff, and two of the three passengers were thrown from the truck. Using his handheld transceiver, [Kearl was able to contact Roger Ellis, KE7HTE](#), of Logan through the local repeater to ask for help.

Carruth explained that a radio operator virtually anywhere in the mountains of Cache or Rich County can broadcast a signal to the repeater that sits atop Logan Peak in the Bear River Mountains east of Logan. The cluster of communication equipment rises about 5200 feet above the valley floor, giving gives the spot a strong vantage point over much of the [Uinta-Wasatch-Cache National Forest](#). The Logan River rises in the Bear River Mountains in Idaho and flows south, then southwest through Logan Canyon and the Wasatch-Cache National Forest to the city of Logan in the Cache Valley. It then joins the Little Bear River a few kilometers west of Logan and about eight kilometers upstream from where the Little Bear River joins the Bear River. -- *Information provided by The Herald Journal*



ARRL Licensing Study Guides Coming to an eBook Reader Near You



ARRL is pleased to announce that owners of [Kindle](#) -- an electronic book reader sold by [Amazon.com](#) -- can now download [ARRL's Tech Q&A](#) directly from the online bookseller for use on their Kindle. Kindle is shaped much like a book with a paper-like screen that displays text and pictures. Those who have the Kindle application installed on their [Apple iPhone](#) or [iPod touch](#) can also download the book to be used on these devices.

When you download the *Tech Q&A*, you can gain access quickly and easily, smoothing the path to your first ham radio license within minutes.

This ideal study tool -- whether you're at home, in the office, traveling or just on the go -- lets you review the questions and answers from the entire Technician question pool so you can pass the 35-question exam. Kindle versions of the General Q&A and the *Amateur Extra Q&A* will be available sometime in January.

All three can be purchased from Amazon.com for \$9.99 each.

GUEST ARTICLE

I tried to be safe, but.....

I needed to cut some larger dead branches out of my flowering pear tree. I thought it out and took some proper and safe precautions. I collected my tower climbing belt, my hard hat, my ladder and my chain saw. After securing the ladder at about the 12-15 foot mark in the tree I put on my gear and climbed to where I was going to make the required chain saw cuts.

I belted off on a large branch and tested the setup by leaning back to make sure everything was safe and secure. I then proceeded to start the chain saw and began cutting the first branch while sort of leaning back on the harness. Out of my sight behind the ladder I was not only cutting the branch, but was also my nylon strap.

It was then, at an odd angle, that I happened to notice that the strap was almost sawn through. My heart almost stopped when I realized that in another second or two the strap would have parted and I would have fallen backwards off the ladder to who knows what end. The pictures show just how close I came to a bad accident.



TNX Kent, WA7AHY

FEATURE ARTICLE

SPECIAL CLUB EVENT/ACTIVITY

The Mighty Wurlitzer Theatre Organ

Wednesday 11 November 09

At Peery's Egyptian Theatre in Ogden

Those that attended came and saw how the amazing silent film era **Wurlitzer Theatre Organ** worked. The saw behind the scenes views of the electric and mechanical valves and actuators that brings wonderful sounds from the specially installed historical organ brought back to life by the Peery Egyptian Theatre organization of Ogden. It can be played manually or can be controlled by four computers.

The 7:00 PM presentation is sponsored by the **Ogden Amateur Radio Club** and there was no charge. The 1:00 PM presentation is part of the regular Wurlitzer Wednesday series. Seniors and care-givers \$1.00 and general admission is \$2.00

If you would like to know more about this event you can call Kent at 801 475-6282 or email him at L7MFCC@Juno.com

Hear the Beauty, Feel the Power

By Kent Gardner WA7AHY

The first 2009 field trip of the Ogden Amateur Radio Club was awe inspiring to the 28 who attended a special technical presentation at the Peery Egyptian Theatre in downtown Ogden on Wednesday 11 November 2009. Amateur operators and their families and other friends and neighbors came from as far away as Salt Lake City and Logan to witness this special event.

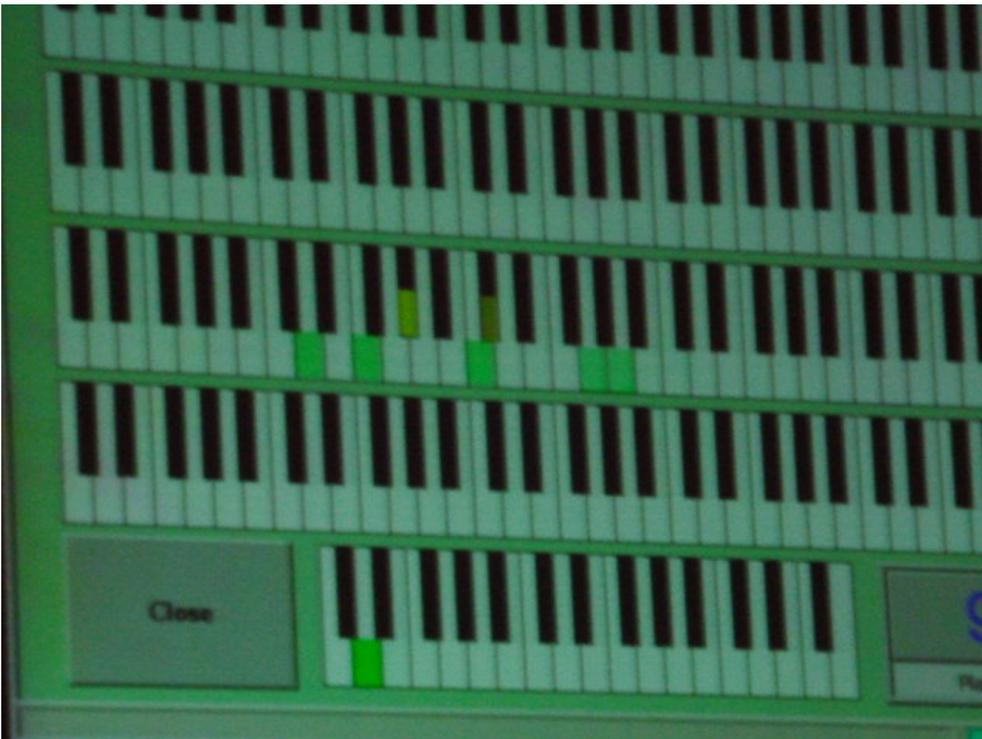
The Mighty Wurlitzer Theatre organ was the subject of the presentation by Dave Park. Mr. Park was the technician primarily responsible for moving a 1920s pipe organ from a theatre in California and installing it in the historic Egyptian Theatre. Mr. Park with the help of John Snow the technical director showed pictures on the screen of what the components and pipes and instruments looked like and demonstrated how they worked and played music that showed this wonderful instrument's capabilities. The Wurlitzer organ keyboard also controls actual instruments like drums, cymbals, chimes, car and ooghah horns and a xylophone. The original purpose of the organs was to provide music and ambient atmosphere for silent movies. They basically replaced entire orchestras.

The actual organ and most all of the thousands of pipes were 80 or so years old, With some help from modern electronics and computers the organ was upgraded and is now rated as

one of the premier instrument of it's type in the world. Famous organists jump at the chance to come to Ogden to play it. The four computers that run it can intercept the control codes and store any performance on a computer hard drive. The computer can then play the piece back exactly as originally performed.



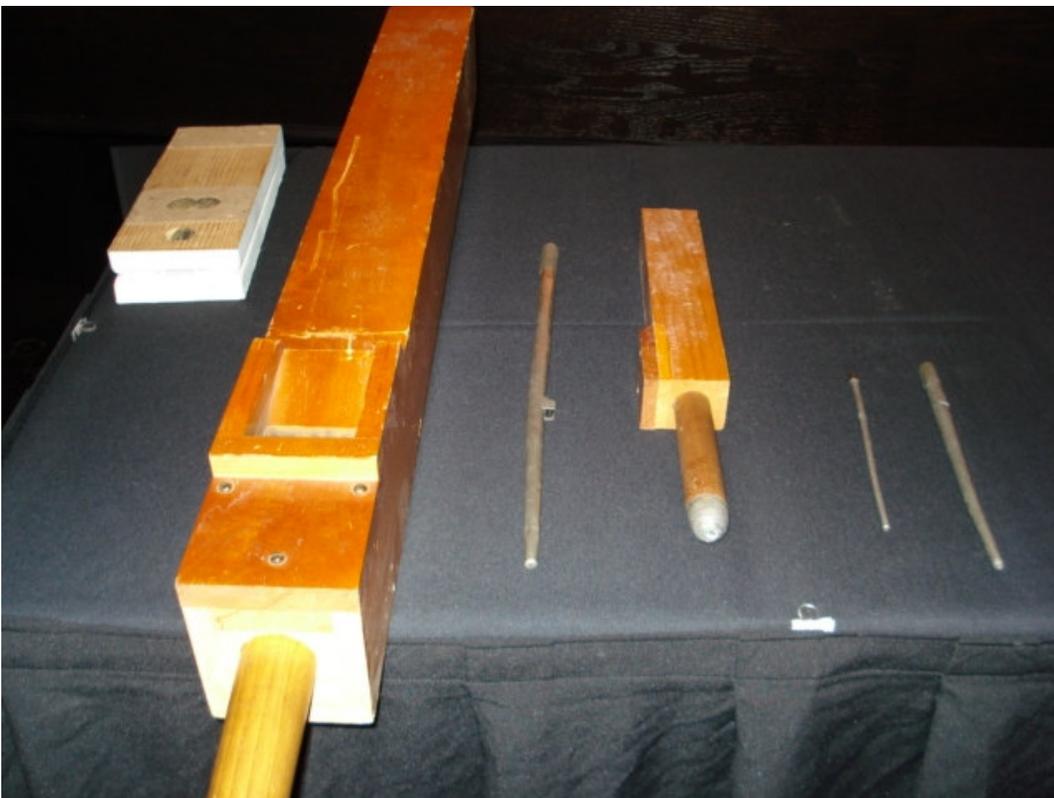
The Wurlitzer Organ in all it's glory. The original was white, but the Peery Egyptian Theatre Foundation had it sent back East to be repainted a more professional looking black.



Computerized keyboard projected on screen show which keys are pressed at any one instant.



Dave Park demonstrating different features of the organ



Several examples of some of the smaller pipes used.



John Snow, left, was the technical director and Dave Park was the presenter/master technician.

The End

ANNOUNCEMENTS

Next Club Meeting:

3rd Saturday 19 December 2009

- The Ogden Amateur Radio Club meetings are usually held on the 3rd **Saturday** of each month.
- **Time: 5:00 PM**
- **Location: ABC Mandarin, Roy**
- **Topic: OARC Family Dinner**
- **Talk-in: -146.90 (pl 123.0)**

Check OARC web site for details

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:

1st Wednesday 03 February 2010

- 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 (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.

Club Web Site

Be sure to visit our club web site.

- 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	ogdenarc.org	3 rd Saturday 09:00 am	Check OARC web site ...
WC ARES	ogdenarc.org/join.html#ares	2 nd Thursday 06:30 pm	Weber Co. Library Ogden Utah
WC Sheriff Comm-O		1 st Saturday 09:00 am	Weber Co. Sheriff Complex West 12 th Street Ogden Utah
Barc	barconline.org	2 nd Saturday 10:00 am	Cache Co. Sheriffs Complex 200 North 1400 West Logan Ut
CSERG	dcarc.net/ares.htm/	Last Wednesday 8:30pm	Clearfield City Hall Clearfield Utah
Dcarc	dcarc.net	2 nd Saturday 10:00 am	Davis Co. Sheriff Complex Farmington Utah
NU Ares	home.comcast.net/~noutares/	3 rd Wednesday 7:00 pm	Cache Co. Sheriff Office Logan Utah
Uarc	xmission.com/~uarc/	1 st Thursday 7:30 pm	UofU EMC Bldg Room 101 Salt Lake City Utah
Ubet	27meg.com/~k7ub/	4th Thursday 6:30 pm	BE-Thiokol: 24 East 100 South Brigham City Utah
Utah DX Association	udxa.org	3 rd Wednesday check web page for details	check web page for details Salt Lake City area
UvhfS	ussc.com/~uvhfs/	Each Tuesday 8:00 pm (refer to web site)	Weekly 2 meter net (no eye ball meetings)
WD Arc	westdesertarc.org/	1 st Tuesday 7:00 pm	Tooele County Courthouse Tooele Utah
WsuArc	arcweber.edu	3 rd 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 HF LSB
Daily @ 07:30 PM mt	Utah Code net HF	3.570 Mhz HF CW
Daily @ 02:00 UTC	Utah Farm net HF	3.937 Mhz HF LSB
Sunday @ 8:45 AM	Ogden Old Timers HF net	7.193 Mhz HF LSB
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 2-meter USB
Tuesday @ 8:00 PM	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	CSERG	145.770 simplex
Wednesday @ 9:00 PM	No. Utah 10m HF net	28.313 Mhz HF USB
Wednesday @ 9:00 PM	6-meter SSB net	50.125 Mhz 6-meter USB
Thursday @ 6:30 PM	Davis Co Elmers Net	147.040 + 123.0 New Hams
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 rd 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 HF LSB 3 rd Saturday – odd months only
Saturday @ 11:00AM mst	QCWA net HF	7.272 Mhz HF LSB

OARC OFFICERS

President: Kim Owen KO7U
Vice Pres: James Clarke KD7SWL
Secretary: Larry Griffin AD7GL
Treasurer: Jeff Anderson KD7PAW

Program Director:
Justin Doxford KE7ROQ
Activity Director:
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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

73 es cul de W7SU

www.OgdenArc.org