



WATTS NEWS

Welcome to the OARC Newsletter

www.OgdenArc.org

March 2005

Next Club Meeting: 3rd Saturday

March 19, 2005

Topic: DXing

OARC OFFICERS

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Vice Pres: [Mary Hazard W7UE](#)
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PREVIOUS CLUB MEETING

February 19, 2005

Our club meeting was held Feb. 19th, 9:00AM at the Health Department located at 2570 Grant Ave. Once again, there was a great turnout with 34 people showing up on an early Saturday morning.

We have Bagels, Juice & Coffee too

We are now the fastest growing ham club in Utah and we want to thank everyone for helping us make this happen. Please feel free to invite friends and family to our meetings. You don't need to be a member to participate in the drawings and we won't pressure anyone to join although we love new members.

As always, there were the usual treats and our giveaways. This month featured heat shrink tubing, universal screwdriver, small tool set, Utility knife and a nice multimeter. Stan Sjol WOKP stood up and announced that he had a HP signal Generator to give away. That got Mike Fullmer KZ7O thinking and he announced that he also had another one just like it to give away. Two lucky attendees are now set for life with some (new) vintage test equipment. Hi Hi. Mel Parks-AC7CP also brought some QST's for anyone interested non-ARRL members.

Mel Parks AC7CP

The position of the ARRL section manager for our area is up again. Mel Parks-AC7CP is once again running for this. This year Mel will be running against Alan Cook-N7CEU. Mel has been a great supporter of our club and we appreciate his efforts. We urge you to learn about the 2 candidates running this year and then make your decision and vote. Ballots will be mailed out sometime in April by the ARRL.

An announcement was made for an estate sale of a silent key. If interested contact Kay Hargis-N7KH at 773-7632.

Gary Liptrot N7ZI announced that this month

Gary Liptrot N7ZI

and from now on, we are featuring a suggestion box. We received some constructive suggestions and we will be going over them at our board meeting. We really take your suggestions seriously because this club is your club. As officers, we are only trying to facilitate what the majority of the members want. Having said that, we want to hear from you when we are going off the beaten track or we are hitting the mark right on the spot. With the addition of the suggestion box, we hope by allowing members to be anonymous in their comments - we can get a clearer picture of how we are doing. The sheer increase in attendance each month has us very encouraged.

There was no further news on the repeaters.

Show and tell was done by yours truly. I obtained a Miracle Duck antenna, which is similar to the miracle whip antenna (www.miracleantenna.com) but more versatile in the fact that it has a BNC connector rather than a fixed whip. In a nutshell, it is a small self enclosed HF tunable matching network (fits in the palm of your hand) that will allow quick setup to the back of your radio for connecting a whip, rubber duck, long wire, etc. for portable HF QRP operation.

Having done that, our presentation this month

Mike Fullmer KZ7O

was done by Mike Fullmer - KZ7O on vertical antennas. Mike had a very plentiful supply of vertical antenna examples including the ever famous mobile CB antenna converted to a 10 meter antenna. It seems like everyone has a few of these laying around. I even proudly still have my CB base vertical in operation. The theory and pros and cons of these antennas were gone over in detail all the way

from a HF perspective to a VHF and UHF perspective. Mike has certainly done his homework on all types of antennas and easily fielded the many questions that this presentation generated. We appreciate Mike

sharing his knowledge with us in a clear and easily understandable manner.

73, **Jim Southwick N7JS (Secretary)**

Jim Southwick N7JS (Secretary) & Karlie Boam
Drawing for door prizes

Charles Horn KD7SST (Treasurer)
Signing up new members

Mary Hazard W7UE (Vice President)
With **Kim Owen KO7U**

Serving Bagels, Juice & Coffee

Everyone enjoying the meeting

From The OM's Shack

Gary Liptrot N7ZI

Hi folks,

I tip my hat to the Utah VHF Society for putting on a great swapmeet on Saturday the 26th of February. Either the quality of the equipment is getting better or I'm getting older and those antique rigs seem newer to me, I'm not sure which. I spent way too much money and found a lot of stuff I didn't even know that I needed, funny how that works out. There are a couple of amateur radio events that you just shouldn't miss each year and this is one of them. Thanks to Mel Parkes (AC7CP) and the UVHFS for the huge effort that they put into this great swapmeet.

Jim's (N7JS) wife Leah recently said that we ought to put out a suggestion box at our OARC meetings. That way we could gather good ideas from the members either by name or anonymously. Well, we did that and got a few nibbles. The Board has looked at them and are working on incorporating the ideas into our club in various ways. Keep your eyes on our website and watch for helpful sections especially for new hams. If you see something you don't like or something that you think OARC should be doing then drop us a note at the next meeting.

I know that many of you are interested in having a meeting on digital modes. That would be like Packet, APRS and maybe even others like PSK31. Well, I agree wholeheartedly and those plans are in the mill right now. I know that before Christmas I attended a lecture put on by the BARC (Box Elder Amateur Radio Club) at Utah State University. They invited

Bob Bruninga (WB4APR), the father of APRS, to speak. Bob just happen to be attending a conference on satellites at USU and graciously accepted their offer to talk. I wish all of you could have been there. Bob's normal thought patterns are totally comfortable residing "outside the box". That night I not only learned a ton about APRS but I also learned a lot about how to use my radio effectively and how to think more clearly about any given ham radio objective that I may have. I would borrow the video tape from BARC but Bob started talking forty-five minutes before the meeting started and didn't quit until after 10:30 pm. Our meetings just aren't long enough to show that tape. For those four plus hours I was glued to his enthusiastic approach to a fun subject. He is the author of APRSdos and many specialized variations thereof. This program doesn't have all the color mapping stuff that all of the windows programs do. It is a DOS green screen approach to the subject but man did he make those programs talk! He even showed how to do Fox Hunting using APRS and his programs. The only thing he used the radio for was to contact other stations and quiz them on their Power, Height and Gain and then let APRSdos determine a PHG circle for each radio with a push of a button. Where those circles overlap is the location of your Fox. Just an example of the fun you can have with one of these digital modes.

Take care and I'll see you at the meeting.

73 de n7zi Gary

"Why buy something for ten bucks when you can make it for a hundred." JR

Biography - Director #1

Mike Fullmer KZ7O

I started my Ham career around 1971. This was when my father got interested in CB. I was living in Iowa at the time and my father thought it would be neat to try this CB thing. So he got a Realistic CB (that original radio now sits in a box on my storage shelf). At that time a license was required for CB. Many did not believe the FCC however. In fact so many did not get licenses that the FCC lost and by 1980 the license requirement had been removed. My father did believe the FCC and received the call of KFO6899. I was still a teenager and operated with my fathers call sign and had a lot of fun with my friends on the CB channels. We moved to North Logan, Utah in 1973 where I finally got my own CB callsign, KBPI9975. Myself and another friend got very involved with the CB craze at the time. We participated with REACT and went to a number of meetings and events. But then came my senior year of high school and I was introduced to a new form of radio that I was not familiar with at all, called Ham Radio.

I was interested in electronics at an early age, in Iowa. I built my first Heathkit shortwave receiver when I was 14, and had a ball with it. I DXed the AM band real big and logged a lot of AM stations from all over the country with that radio. I used to listen to a lot of shortwave stations and was fascinated. I got my first experience with long wire antenna's and static charge in Iowa while stringing up an antenna for my Heathkit radio. I remember stripping the insulation off the 100ft wire to attach the lead in wire by using my teeth (teeth were the early Leathermens). Just as I bit through the insulation I got a big jolt which made my mouth really tingle. I did not know why it did this at the time but I now had "experience". I did not repeat this again. Well anyway, back to the electronics interest. Because of my early interest in electronics I took electronics class as a Junior in High

School. I loved it so much that I took two more electronics classes as a Senior.

My electronics teacher at SkyView was a ham. He was not active with the local Ham community much but he enjoyed a HF contact occasionally and he had a HF station set up in the electronics class at Sky View. Part of this electronics class was to learn about this Ham radio stuff and if we were interested he would help us study and pass our Novice test. Well, myself and about 5 others in that class took him up on the offer and we all got our Novice licenses. I was WN7BSI. I did not do much with it for several months however. Out of the 6 in the class that got their license I am the only one that has stayed in ham radio.

But then I graduated from high school and started attending Utah State University. It was here that I found out about a local ham club that had meetings on campus. I started to attend the meetings. I do not remember all the details but someone loaned me a crystal controlled 40 meter CW transmitter and a local North Logan neighbor loaned me a Heathkit SB300 receiver. This was all it took. I got on the air with just two crystals and started making CW contacts on 40. I had so much fun with those two frequencies that 2 months later I bought an old KnightKit T150 VFO controlled CW transmitter. This one had 80-10 meters on it! But boy did it drift. I had to open the back up and blow a fan on it to keep the frequency from sliding all the way down the band. But it worked and I was hooked. I filled more than half of an ARRL logbook with CW contacts on 40 and 15 meters in the next year. By this time I had put up a 40 meter dipole in the yard for my antenna. My parents were ok with it because it kept me off the streets at night.

Somewhere in this time frame I also received my next call of WB7BSI. The FCC had decided that because all Novices had "N" in their call it

was discriminatory because everyone knew they were just a novice. So they eliminated the N call signs.

In the fall of 1976 I was getting ready to leave on a mission for the LDS Church and I realized that my novice call would expire while I was gone so I decided to upgrade to General. I passed my general test in October of 1976 and left on my mission in November that year.

The rest of the years have flown by. Just before I got married I owned the Heathkit SB300 that I had borrowed, an SB310 Heathkit, the Knightkit T-150, a Yaesu FT101EX and lots of other radio stuff. But since I was moving into a little apartment I had to get rid of most of it. So I sold everything except the FT101EX. But that's life. I did set up a sleuth antenna in our first apartment. We had a TV antenna on about a 15 foot mast mounted on the roof of the apartment. I crawled up on the roof one day when no one was around and took down the TV antenna and replaced one of the guy wires with my little long wire (all of 20 feet long). I put it back up and attached some coax to it and ran it into a window so that it was hard to see. That got me on the air. I do not know how I effected the TV but no one knew about the radio or antenna and I never asked. When I left that apartment I just cut the coax off at the wire and left the insulators and all there.

By the time I was a senior at Utah State I had become interested in antennas and had built several 2 meter antennas. There was a graduate level EE class offered in antenna theory taught by AC7O, Clayton Clark. I took it my senior year. This was where I learned the real ins and outs of antennas, especially verticals. There was a lot of math, but also some real lab and field work that went along with the study part. I loved it! Needless to say I aced that class. Does anyone recognize the AC7O callsign? Clayton died about 15 years ago and the Bridgerland Amateur Radio Club asked to have his callsign for a club call. It is now on the club repeaters in Logan.

I graduated from USU and came to Roy in 1981. Here I have stayed. I lived in an apartment for a couple of years. I got involved with the local hams after a little "run in with the law". I had a small patio at the back of my apartment. Here I continued my antenna playing. I had built a push up HF vertical. It was several steel tubes that expanded up to about 25 feet. At night I pushed the vertical up and got on HF. It was not real effective, but it worked. I used to check in to a 20 meter net on Friday nights in Australia with that antenna. Obviously it was at the top of the sun spot cycle at the time. I could not do that now as we are at the bottom of the cycle.

Back to the law thing. I had built a 5 element 2 meter quad and had it on a 10 foot mast in my little patio. It turned with the arm strong method. I used it to check in with my friends in Logan all the time. I had noticed a very tall ham tower a couple of hundred yards away on a house. I think it was at 85 feet. I did not know who it belonged to but I soon learned. One day two guys came knocking on my door. One was in a Police uniform. The policeman told me they had come to check out the unusually activities that seemed to be going on in the apartment. I will admit I did not really know what to do. But after a moment they started laughing and introduced themselves and WA7GQA and W7RZ. This was Kay and Lamar Hargis. Lamar lived in the house with this monster tower and had noticed this little 5 element 2 meter quad. Kay was a local policeman for Roy City. They had come by to introduce themselves. After the good laughs we talked for quite a while. I still consider both of these hams as good friends today. WA7GQA has since changed his call to N7KH. They introduced me to the local club.

About 6 months after I moved to Roy I passed the extra and became KZ7O. I took my test at the very last FCC test session in Salt Lake in 1983. 2 years later the VEC program started and I got heavily involved in that and have given a lot of tests over the years.

The last 20 years has gone by fast. I have held a number of positions in the club over this

time and still continue to enjoy meeting new hams and talking with those I have known for years.

73, Mike Fullmer KZ7O

*Next month stay tuned for another OARC Officer/Member Biography.
It could be you!!!*

Next Club meeting - March 19, 2005

The special presentation for this month is DXing. Kay Hargis, N7KH, will talk to us about how he has been successful at DXing and how we can also be successful with this aspect of Ham radio.

It is a part of HF operating that takes a lot of patience to be real successful at. Any one of us can get on 20 meters at the right time of the day and talk to someone from another part of the world, but to talk to someone in every possible country or DXCC entity that exists is a whole different sort of challenge.

But that is what Kay has done. It should be a very interesting presentation.

N7KH - Kay Hargis

First licensed in 1967 as WN7GQA, upgraded to General early in 1968, which gave me the new call of WA7GQA, then to Advanced in 1970. Upgraded to Extra in August of 1986. Changed my call under the vanity program in November of 1996 to N7KH.

At this time, I have worked them all, but waiting for QSL card for Andamon Isl... I have 344 confirmed. I am on the DXCC honor roll and have 5BDXCC.

I run full power to a TH6DXX at 70 feet, and slopers for 40/75/80. I am a charter member of the UDXBA.

UPCOMING EVENTS

NORTHERN UTAH HAMFEST

Sponsored By
The Ogden Amateur Radio Club (OARC)

Location: Browning Armory, 625 E. 5300 S., South Ogden

Date: Saturday April 23, 2005

Start Time: 8:00 AM



Raffle

Grand Prize Icom IC-703 HF Radio

(Must be present to win)

Hourly door prizes

\$5 Entrance Donation \$10 Family (\$6/\$12 at the door) – includes
a ticket for all door prizes

Grand Prize Raffle Tickets: \$3 per ticket or two for \$5

Vendor Tables \$3

See www.ogdenarc.org for updates

Seminars and Venders galore

CLUB NEWS

Club Badges now available (repeat notice)

OARC Club badges are now available for all club members and non-members also for \$8.00 each. Place your order along with \$8.00 in

advance for each badge ordered and specify pin or magnet type fastener. Contact James Clarke KD7SWL.

ARRL Membership (repeat notice)

If you want to [join ARRL](#), our club can retain \$15 for each NEW regular or senior membership and \$2 for each RENEWAL submitted. A NEW MEMBER is defined as any individual who has never been a member of ARRL or any individual who has not retained a membership for two or more calendar years prior to the application submission.

A RENEWING MEMBER can renew at anytime, even before their current membership term expires.

If you're joining both the club and ARRL write one check payable to the club and mail both application forms to the club or contact our Treasurer: [Charles Horn KD7SST](#).

Club Repeater Auto Patch (repeat notice)

The 146.90 Autopatch should be up and running any day now. Many of you out there expressed a desire to have this done and now it is. But we need some donations to make it keep working. It costs the club \$25 a monthly to keep it running. So please make a donation to the club and be sure to mention that it is for the autopatch fund.

The phone patch will be an open patch available for all to use. The access codes will be announced as soon as it is on line. If you have any questions feel free to ask.

Mike, KZ7O, Repeater Engineer

AR HOBBY NEWS

Computer Glitch Stops License Processing

The FCC was forced to stop issuing amateur licenses for about five days in early November as a result of problems caused by a software upgrade and aggravated by initial attempts to fix things. The ARRL Letter reported that a software upgrade erroneously caused all applications submitted by Volunteer Examiner Coordinators to be "flagged" for processing by hand, and that an attempt to fix that problem

caused the computer system to start issuing out-of-sequence callsigns, such as 2x3 calls with WQ prefixes. About 130 of these erroneous calls were issued, then cancelled and replaced by correct sequential callsigns. The bugs were fixed and the computer system was back online as of November 10.

CQ - January 2005

Morse Code "LID" Operators

Old time Morse telegraph operators had a sounder to allow them to hear the messages. Train stations can be noisy places, yet there was no volume control on a sounder. How did they increase the volume on the sounder? You're right, sounders only had one volume and that wasn't enough sometimes. Old time telegraphers used to lean an empty tobacco can against the sounder.

Hitting the empty can would give the sounder a deeper and louder sound. It is also thought that placing the lid of the can in between the sounder gave it a louder tone. This practice, apparently, was looked down on and may be the origin of the name "lid" for a bad operator.

CQ - January 2005

Ham Fined for CB Violations

A Washington State ham has been fined \$10,000 by the FCC for repeatedly operating a CB transmitter that was not FCC certified, and for running an illegal linear amplifier as well. According to FCC documents, Robert Spiry, KD7TRB, of Tacoma, Washington, told the Commission that he'd gotten an amateur license, stopped operating CB, and removed his CB antenna, and claimed he couldn't afford the \$10,000 fine imposed. However, the FCC said Spiry did not submit the necessary financial

data for considering fine reductions, and therefore it was assessing the full \$10,000 penalty as originally proposed. In Ohio, a CB store known as the CB Shop was fined for illegally selling CB linear amplifiers. According to the FCC, the store's owner did not respond to a Notice of Apparent Liability issued last May, so it was assessing the originally proposed fine of \$7,000.

CQ - January 2005

FCC Keeps After 10-Meter Truckers

Three trucking companies have been issued warnings by the FCC about unlicensed operation after their drivers were monitored making transmissions on 28.085 MHz in the 10-meter ham band. All of the trucks were in North Carolina when they were monitored. The

companies were told to warn their drivers that they could face heavy fines and confiscation of their equipment if the illegal transmissions continued.

CQ - January 2005

BPL NEWS

North Carolina BPL Field Trial Discontinued

Progress Energy Corporation has shutdown its Raleigh, North Carolina, BPL field trial and removed all system hardware. What happened? No one is quite sure, but the utility's action came just as local amateur Tom Brown, N4TAB, filed a Response and Further Complaint about the system with the FCC. Brown continued to protest the system, challenging the FCC's determination that the utility's BPL system complied with Part 15 rules and that ham band

notching was "effective." Brown maintained that the FCC's pronouncing a lack of harmful interference based upon a power level 24 dB below Part 15 emission limits "is immaterial." Part 15 is very clear, he said, and that if an unlicensed device operating under that section of FCC rules causes harmful interference, it has to cease operation.

CQ - January 2005

EarthLink says BPL too Expensive

EarthLink has decided to pullout of its previous commitment to BPL research, indicating that ADSL2 is a much more promising mode of broadband transmissions, Officials at EarthLink have notified the FCC that BPL is the most expensive of the broadband technologies it evaluated. EarthLink said that wireless and BPL "are not likely to be competitive in cost and performance with cable and DSL over the last mile to the home."

The company has judged as "not successful" one unspecified BPL technical trial using

Amperion equipment in a "wireless IBPL combo." In discussing other trials using Ambient and Current Technologies equipment, one of which EarthLink had invested in, the ISP's assessment was that the high cost per household passed \$125, far too expensive to be competitive.

EarthLink's results suggest the possibility that we may have turned a corner with regard to BPL.

CQ - February 2005

ARRL Tells FCC to "Reconsider, Rescind and Restudy" BPL Order

The ARRL has petitioned the FCC to take its broadband over power line (BPL) *Report and Order (R&O)* back to the drawing board. In a *Petition for Reconsideration* filed today, the League called on the Commission to "reconsider, rescind and restudy" its October 14, 2004, adoption of new Part 15 rules spelling out how BPL providers may deploy the technology on HF and low-VHF frequencies. Asserting that the *R&O* fails to adequately

take into account the technology's potential to interfere with Amateur Radio and other licensed services, the League called the FCC's action to permit BPL "a gross policy mistake." The *R&O*, the ARRL said, "represents a classic case of prejudgment" by an FCC that knew better but ignored evidence already at its disposal. Full story at <http://www.arrl.org/>

QST - February 2005

ANNOUNCEMENTS

Next Club Meeting: 3rd Saturday March 19, 2005

- Each meeting of the Ogden Amateur Radio Club is held on the 3rd Saturday of each month.
- Time: **9:00 AM** (*snack provided*)
- Location:

**Health Department Building Auditorium
2570 Grant Ave Ogden Utah**

This is on the corner of 26th and Grant west of Washington Blvd, NE corner of the street.

Enter through the East door on the North end of the building (parking lot side).

Parking is located on the North and East side of the building.

Talk in on 146.82- (123.0) <<down.
>> temp alternate 146.90- (123.0).

- **Meeting Topics:**
 - **DXing**

Check Oarc web page 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 April 23, 2005

- Exam sessions are held in Ogden every few months, *usually* the first Wednesday in February, June, and October.
- Time: **10:00 am** Walk-ins allowed
- Location:

**Northern Utah Hamfest
Browning Armory
625 E 5300 S
South Ogden, Utah**

Contact: Mary Hazard @ 801-430-0306

- Cost: \$14.00

Those seeking a ham license should bring two forms of ID, one of which must be a picture ID. Those seeking an upgrade should also bring a copy of their current license, any CSCE, and a picture ID.

Most calculators are **allowed**.

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	123.0	Little Mtn (auto patch)
448.575-	OARC	100.0	Little Mtn

OTHER AREA REPEATERS			
FREQ	CLUB	TONE	LOCATION
146.620-	UARC	none	Farnsworth Pk
449.100-	UARC	146.2	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-	RACES	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
OARC	ogdenarc.org	3 rd Saturday 9:00 am	Health Dept Bld Auditorium 2570 Grant Ave Ogden Utah
WC ARES		3 rd Saturday 11:00 am	Weber Co. Sheriff Complex West 12 th Street Ogden Utah
WsuArc	arcweber.edu	3 rd Thursday 5:30 pm	WSU Blding #4 Room ? Ogden Utah
Barc	barconline.org	2 nd Saturday 10:00 am	Cache Co. Sheriffs Complex 200 North 1400 West Logan Ut
Ubet	27meg.co/k7ub	2 nd Tuesday 7:00 pm	BE-Thiokol Old Intermountain Indian School Brigham City Utah
Dcarc	dcarc.net	2 nd Saturday 10:00 am	Davis Co. Sheriff Complex Farmington Utah
Uarc	xmission.com /~uarc/	1 st Thursday 7:30 pm	UofU EMC Bldg Room 101 Salt Lake City Utah
UvhfS	ussc.com /~uvhfs/	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 - HF
Daily @ 7:00 PM mst	Utah Farm net HF	3.937 Mhz - HF
Tuesday @ 6:30 PM	Weber ARES	448.600 - 123.0
Tuesday @ 8:00 PM	VHF Society	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 net	28.313 Mhz
Thursday @ 7:00 PM	Davis ARES	147.420 = simplex
Thursday @ 8:00 PM	Weber State ARC	146.820 - 123.0
Sunday @ 7:30 PM	UBET ARC	145.430 - 123.0 (training net)
Sunday @ 9:00 PM	Morgan	147.060 = simplex
Sunday @ 9:00 PM	UARC Info net	146.62 – no PL tone required
Thursday @ 8:00PM	RACES State VHF	145.490 - 123.0, 146.680 – 123.0 3 rd Thursday - even months only
Saturday @ 8:00AM mst	RACES State HF	3.918 Mhz - HF 3 rd Saturday – odd months only

73 es cul de W7SU

www.OgdenArc.org